

**Notice:** Use this form to request a **written response (on agency letterhead)** from the Department of Natural Resources (DNR) regarding technical assistance, a post-closure change to a site, a specialized agreement or liability clarification for Property with known or suspected environmental contamination. A fee will be required as is authorized by s. 292.55, Wis. Stats., and NR 749, Wis. Adm. Code., unless noted in the instructions below. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

### Definitions

**"Property"** refers to the subject Property that is perceived to have been or has been impacted by the discharge of hazardous substances.

**"Liability Clarification"** refers to a written determination by the Department provided in response to a request made on this form. The response clarifies whether a person is or may become liable for the environmental contamination of a Property, as provided in s. 292.55, Wis. Stats.

**"Technical Assistance"** refers to the Department's assistance or comments on the planning and implementation of an environmental investigation or environmental cleanup on a Property in response to a request made on this form as provided in s. 292.55, Wis. Stats.

**"Post-closure modification"** refers to changes to Property boundaries and/or continuing obligations for Properties or sites that received closure letters for which continuing obligations have been applied or where contamination remains. Many, but not all, of these sites are included on the GIS Registry layer of RR Sites Map to provide public notice of residual contamination and continuing obligations.

### Select the Correct Form

This form should be used to request the following from the DNR:

- Technical Assistance
- Liability Clarification
- Post-Closure Modifications
- Specialized Agreements (tax cancellation, negotiated agreements, etc.)

Do **not** use this form if one of the following applies:

- Request for an **off-site liability exemption or clarification** for Property that has been or is perceived to be contaminated by one or more hazardous substances that originated on another Property containing the source of the contamination. Use DNR's Off-Site Liability Exemption and Liability Clarification Application Form 4400-201.
- Submittal of an Environmental Assessment for the **Lender Liability Exemption**, s 292.21, Wis. Stats., **if no response or review by DNR is requested**. Use the Lender Liability Exemption Environmental Assessment Tracking Form 4400-196.
- Request for an **exemption to develop on a historic fill site** or licensed landfill. Use DNR's Form 4400-226 or 4400-226A.
- **Request for closure** for Property where the investigation and cleanup actions are completed. Use DNR's Case Closure - GIS Registry Form 4400-202.

All forms, publications and additional information are available on the internet at: [dnr.wi.gov/topic/Brownfields/Pubs.html](http://dnr.wi.gov/topic/Brownfields/Pubs.html).

### Instructions

1. Complete sections 1, 2, 6 and 7 for all requests. Be sure to provide adequate and complete information.
2. Select the type of assistance requested: Section 3 for technical assistance or post-closure modifications, Section 4 for a written determination or clarification of environmental liabilities; or Section 5 for a specialized agreement.
3. Include the fee payment that is listed in Section 3, 4, or 5, unless you are a "Voluntary Party" enrolled in the Voluntary Party Liability Exemption Program **and** the questions in Section 2 direct otherwise. Information on to whom and where to send the fee is found in Section 8 of this form.
4. Send the completed request, supporting materials and the fee to the appropriate DNR regional office where the Property is located. See the map on the last page of this form. A paper copy of the signed form and all reports and supporting materials shall be sent with an electronic copy of the form and supporting materials on a compact disk. For electronic document submittal requirements see: <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>

The time required for DNR's determination varies depending on the complexity of the site, and the clarity and completeness of the request and supporting documentation.

# Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 9/15)

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## Section 1. Contact and Recipient Information

### Requester Information

This is the person requesting technical assistance or a post-closure modification review, that his or her liability be clarified or a specialized agreement and is identified as the requester in Section 7. DNR will address its response letter to this person.

Last Name	First	MI	Organization/ Business Name
Snyder-Cochran	Rachael		Superior Water Light and Power Company
Mailing Address			City
2915 Hill Avenue			Superior
			State
			WI
			ZIP Code
			54880
Phone # (include area code)	Fax # (include area code)	Email	
(715) 395-6224		rcochran@swlp.com	

The requester listed above: (select all that apply)

- Is currently the owner  Is considering selling the Property
- Is renting or leasing the Property  Is considering acquiring the Property
- Is a lender with a mortgagee interest in the Property
- Other. Explain the status of the Property with respect to the applicant:

### Contact Information (to be contacted with questions about this request) Select if same as requester

Contact Last Name	First	MI	Organization/ Business Name
Snyder-Cochran	Rachael		Superior Water Light and Power Company
Mailing Address			City
2915 Hill Avenue			Superior
			State
			WI
			ZIP Code
			54880
Phone # (include area code)	Fax # (include area code)	Email	
(715) 395-6224		rcochran@swlp.com	

### Environmental Consultant (if applicable)

Contact Last Name	First	MI	Organization/ Business Name
Gregg	Bill	M	Summit Envirosolutions, Inc.
Mailing Address			City
1210 East 115th Street			Burnsville
			State
			MN
			ZIP Code
			55337
Phone # (include area code)	Fax # (include area code)	Email	
(651) 262-4236		bgregg@summite.com	

## Section 2. Property Information

Property Name		FID No. (if known)	
Superior MGP			
BRRTS No. (if known)		Parcel Identification Number	
02-16-275446			
Street Address		City	State
Winter and East 1st Street		Superior	WI
		ZIP Code	54880
County	Municipality where the Property is located	Property is composed of:	Property Size Acres
Douglas	<input checked="" type="radio"/> City <input type="radio"/> Town <input type="radio"/> Village of Superior	<input type="radio"/> Single tax parcel <input checked="" type="radio"/> Multiple tax parcels	5



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1. Is a response needed by a specific date? (e.g., Property closing date) Note: Most requests are completed within 60 days. Please plan accordingly.

No  Yes

Date requested by: \_\_\_\_\_

Reason: \_\_\_\_\_

2. Is the "Requester" enrolled as a Voluntary Party in the Voluntary Party Liability Exemption (VPLE) program?

No. **Include the fee that is required for your request in Section 3, 4 or 5.**

Yes. **Do not include a separate fee.** This request will be billed separately through the VPLE Program.

Fill out the information in Section 3, 4 or 5 which corresponds with the type of request:

Section 3. Technical Assistance or Post-Closure Modifications;

Section 4. Liability Clarification; or Section 5. Specialized Agreement.

**Section 3. Request for Technical Assistance or Post-Closure Modification**

Select the type of technical assistance requested: [Numbers in brackets are for WI DNR Use]

- No Further Action Letter (NFA) (Immediate Actions) - NR 708.09, [183] - **Include a fee of \$350.** Use for a written response to an immediate action after a discharge of a hazardous substance occurs. Generally, these are for a one-time spill event.
- Review of Site Investigation Work Plan - NR 716.09, [135] - **Include a fee of \$700.**
- Review of Site Investigation Report - NR 716.15, [137] - **Include a fee of \$1050.**
- Approval of a Site-Specific Soil Cleanup Standard - NR 720.10 or 12, [67] - **Include a fee of \$1050.**
- Review of a Remedial Action Options Report - NR 722.13, [143] - **Include a fee of \$1050.**
- Review of a Remedial Action Design Report - NR 724.09, [148] - **Include a fee of \$1050.**
- Review of a Remedial Action Documentation Report - NR 724.15, [152] - **Include a fee of \$350**
- Review of a Long-term Monitoring Plan - NR 724.17, [25] - **Include a fee of \$425.**
- Review of an Operation and Maintenance Plan - NR 724.13, [192] - **Include a fee of \$425.**

Other Technical Assistance - s. 292.55, Wis. Stats. [97] (For request to build on an abandoned landfill use Form 4400-226)

- Schedule a Technical Assistance Meeting - **Include a fee of \$700.**
- Hazardous Waste Determination - **Include a fee of \$700.**
- Other Technical Assistance - **Include a fee of \$700.** Explain your request in an attachment.

Post-Closure Modifications - NR 727, [181]

- Post-Closure Modifications: Modification to Property boundaries and/or continuing obligations of a closed site or Property; sites may be on the GIS Registry. This also includes removal of a site or Property from the GIS Registry. **Include a fee of \$1050, and:**
  - Include a fee of \$300 for sites with residual soil contamination; and
  - Include a fee of \$350 for sites with residual groundwater contamination, monitoring wells or for vapor intrusion continuing obligations.

Attach a description of the changes you are proposing, and documentation as to why the changes are needed (if the change to a Property, site or continuing obligation will result in revised maps, maintenance plans or photographs, those documents may be submitted later in the approval process, on a case-by-case basis).

**Skip Sections 4 and 5 if the technical assistance you are requesting is listed above and complete Sections 6 and 7 of this form.**

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**Section 4. Request for Liability Clarification**

Select the type of liability clarification requested. Use the available space given or attach information, explanations, or specific questions that you need answered in DNR's reply. Complete Sections 6 and 7 of this form. [Numbers in brackets are for DNR Use]

"Lender" liability exemption clarification - s. 292.21, Wis. Stats. [686]

❖ **Include a fee of \$700.**

Provide the following documentation:

- (1) ownership status of the real Property, and/or the personal Property and fixtures;
- (2) an environmental assessment, in accordance with s. 292.21, Wis. Stats.;
- (3) the date the environmental assessment was conducted by the lender;
- (4) the date of the Property acquisition; for foreclosure actions, include a copy of the signed and dated court order confirming the sheriff's sale.
- (5) documentation showing how the Property was acquired and the steps followed under the appropriate state statutes.
- (6) a copy of the Property deed with the correct legal description; and,
- (7) the Lender Liability Exemption Environmental Assessment Tracking Form (Form 4400-196).
- (8) If no sampling was done, please provide reasoning as to why it was **not** conducted. Include this either in the accompanying environmental assessment or as an attachment to this form, and cite language in s. 292. 21(1)(c)2.,h.-i., Wis. Stats.:
  - h. The collection and analysis of representative samples of soil or other materials in the ground that are suspected of being contaminated based on observations made during a visual inspection of the real Property or based on aerial photographs, or other information available to the lender, including stained or discolored soil or other materials in the ground and including soil or materials in the ground in areas with dead or distressed vegetation. The collection and analysis shall identify contaminants in the soil or other materials in the ground and shall quantify concentrations.
  - i. The collection and analysis of representative samples of unknown wastes or potentially hazardous substances found on the real Property and the determination of concentrations of hazardous waste and hazardous substances found in tanks, drums or other containers or in piles or lagoons on the real Property.

"Representative" liability exemption clarification (e.g. trustees, receivers, etc.) - s. 292.21, Wis. Stats. [686]

❖ **Include a fee of \$700.**

Provide the following documentation:

- (1) ownership status of the Property;
- (2) the date of Property acquisition by the representative;
- (3) the means by which the Property was acquired;
- (4) documentation that the representative has no beneficial interest in any entity that owns, possesses, or controls the Property;
- (5) documentation that the representative has not caused any discharge of a hazardous substance on the Property; and
- (6) a copy of the Property deed with the correct legal description.

Clarification of local governmental unit (LGU) liability exemption at sites with: (select all that apply)

- hazardous substances spills - s. 292.11(9)(e), Wis. Stats. [649];
- Perceived environmental contamination - [649];
- hazardous waste - s. 292.24 (2), Wis. Stats. [649]; and/or
- solid waste - s. 292.23 (2), Wis. Stats. [649].

❖ **Include a fee of \$700, a summary of the environmental liability clarification being requested, and the following:**

- (1) clear supporting documentation showing the acquisition method used, and the steps followed under the appropriate state statute(s).
- (2) current and proposed ownership status of the Property;
- (3) date and means by which the Property was acquired by the LGU, where applicable;
- (4) a map and the ¼, ¼ section location of the Property;
- (5) summary of current uses of the Property;
- (6) intended or potential use(s) of the Property;
- (7) descriptions of other investigations that have taken place on the Property; and
- (8) (for solid waste clarifications) a summary of the license history of the facility.



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**Section 4. Request for Liability Clarification (cont.)**

Lease liability clarification - s. 292.55, Wis. Stats. [646]

❖ **Include a fee of \$700 for a single Property, or \$1400 for multiple Properties and the information listed below:**

- (1) a copy of the proposed lease;
- (2) the name of the current owner of the Property and the person who will lease the Property;
- (3) a description of the lease holder's association with any persons who have possession, control, or caused a discharge of a hazardous substance on the Property;
- (4) map(s) showing the Property location and any suspected or known sources of contamination detected on the Property;
- (5) a description of the intended use of the Property by the lease holder, with reference to the maps to indicate which areas will be used. Explain how the use will not interfere with any future investigation or cleanup at the Property; and
- (6) all reports or investigations (e.g. Phase I and Phase II Environmental Assessments and/or Site Investigation Reports conducted under s. NR 716, Wis. Adm. Code) that identify areas of the Property where a discharge has occurred.

General or other environmental liability clarification - s. 292.55, Wis. Stats. [682] - Explain your request below.

❖ **Include a fee of \$700 and an adequate summary of relevant environmental work to date.**

No Action Required (NAR) - NR 716.05, [682]

❖ **Include a fee of \$700.**

Use where an environmental discharge has or has not occurred, and applicant wants a DNR determination that no further assessment or clean-up work is required. Usually this is requested after a Phase I and Phase II environmental assessment has been conducted; the assessment reports should be submitted with this form. This is not a closure letter.

Clarify the liability associated with a "closed" Property - s. 292.55, Wis. Stats. [682]

❖ **Include a fee of \$700.**

- Include a copy of any closure documents if a state agency other than DNR approved the closure.

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Use this space or attach additional sheets to provide necessary information, explanations or specific questions to be answered by the DNR.

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**Section 5. Request for a Specialized Agreement**

Select the type of agreement needed. Include the appropriate draft agreements and supporting materials. Complete Sections 6 and 7 of this form. More information and model draft agreements are available at: [dnr.wi.gov/topic/Brownfields/lgu.html#tabx4](http://dnr.wi.gov/topic/Brownfields/lgu.html#tabx4).

Tax cancellation agreement - s. 75.105(2)(d), Wis. Stats. [654]

❖ Include a fee of \$700, and the information listed below:

- (1) Phase I and II Environmental Site Assessment Reports,
- (2) a copy of the Property deed with the correct legal description; and,
- (3) a draft 75.105 agreement based on the DNR's model ([dnr.wi.gov/topic/brownfields/documents/mod75-105agrmt.pdf](http://dnr.wi.gov/topic/brownfields/documents/mod75-105agrmt.pdf)).

Agreement for assignment of tax foreclosure judgement - s.75.106, Wis. Stats. [666]

❖ Include a fee of \$700, and the information listed below:

- (1) Phase I and II Environmental Site Assessment Reports,
- (2) a copy of the Property deed with the correct legal description; and,
- (3) a draft 75.105 agreement based on the DNR's model ([dnr.wi.gov/topic/brownfields/documents/mod75-106agrmt.pdf](http://dnr.wi.gov/topic/brownfields/documents/mod75-106agrmt.pdf)).

Negotiated agreement - Enforceable contract for non-emergency remediation - s. 292.11(7)(d) and (e), Wis. Stats. [630]

❖ Include a fee of \$1400, and the information listed below:

- (1) a draft schedule for remediation; and,
- (2) the name, mailing address, phone and email for each party to the agreement.

**Section 6. Other Information Submitted**

Identify all materials that are included with this request.

Include one copy of any document from any state agency files that you want the Department to review as part of this request. The person submitting this request is responsible for contacting other state agencies to obtain appropriate reports or information.

Phase I Environmental Site Assessment Report - Date: \_\_\_\_\_

Phase II Environmental Site Assessment Report - Date: 09/12/2017

Legal Description of Property (required for all liability requests and specialized agreements)

Map of the Property (required for all liability requests and specialized agreements)

Analytical results of the following sampled media: Select all that apply and include date of collection.

Groundwater     Soil     Sediment     Other medium - Describe: \_\_\_\_\_

Date of Collection: \_\_\_\_\_

A copy of the closure letter and submittal materials

Draft tax cancellation agreement

Draft agreement for assignment of tax foreclosure judgment

Other report(s) or information - Describe: \_\_\_\_\_

For Property with newly identified discharges of hazardous substances only: Has a notification of a discharge of a hazardous substance been sent to the DNR as required by s. NR 706.05(1)(b), Wis. Adm. Code?

Yes - Date (if known): \_\_\_\_\_

No

Note: The Notification for Hazardous Substance Discharge (non-emergency) form is available at: [dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf](http://dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf).



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**Section 7. Certification by the Person who completed this form**

I am the person submitting this request (requester)

I prepared this request for: Rachael Snyder-Cochran

Requester Name

I certify that I am familiar with the information submitted on this request, and that the information on and included with this request is true, accurate and complete to the best of my knowledge. I also certify I have the legal authority and the applicant's permission to make this request.

William M. Gery  
Signature

9/12/17  
Date Signed

Program Manager  
Title

651-262-4236  
Telephone Number (include area code)

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## Section 8. DNR Contacts and Addresses for Request Submittals

Send or deliver one paper copy and one electronic copy on a compact disk of the completed request, supporting materials, and fee to the region where the property is located to the address below. Contact a DNR regional brownfields specialist with any questions about this form or a specific situation involving a contaminated property. For electronic document submittal requirements see: <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>.

### DNR NORTHERN REGION

Attn: RR Program Assistant  
Department of Natural Resources  
223 E Steinfest Rd Antigo, WI 54409

### DNR NORTHEAST REGION

Attn: RR Program Assistant  
Department of Natural Resources  
2984 Shawano Avenue  
Green Bay WI 54313

### DNR SOUTH CENTRAL REGION

Attn: RR Program Assistant  
Department of Natural Resources  
3911 Fish Hatchery Road  
Fitchburg WI 53711

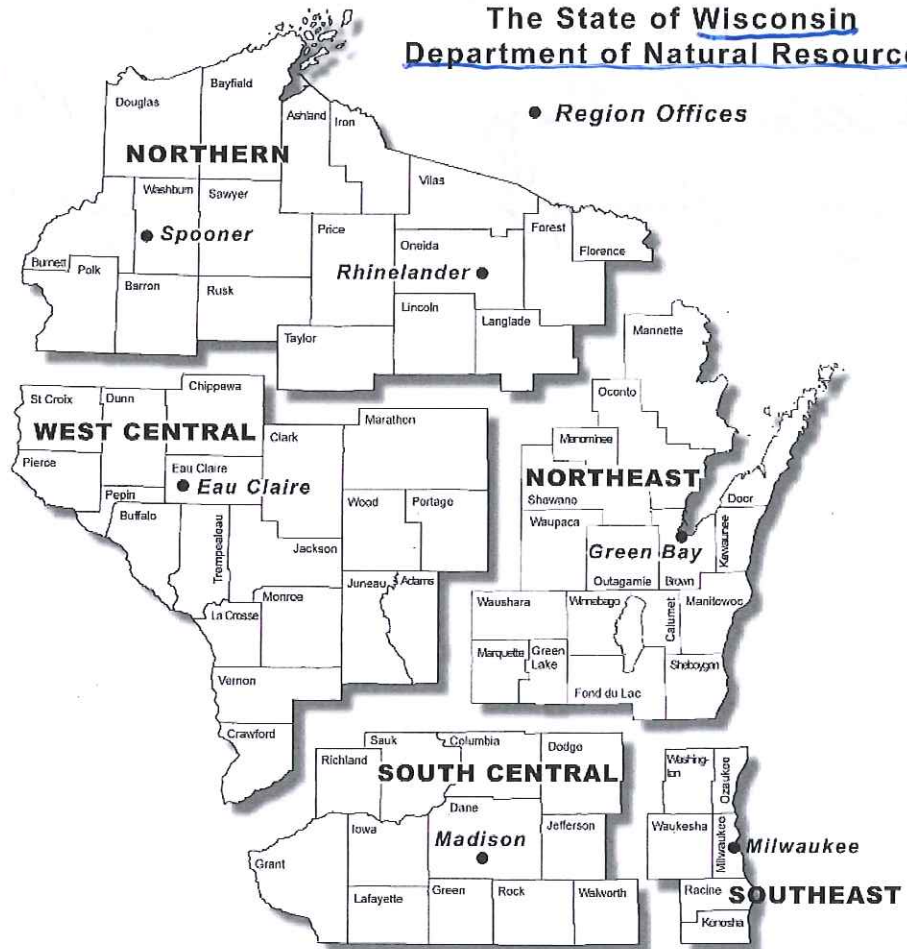
### DNR SOUTHEAST REGION

Attn: RR Program Assistant  
Department of Natural Resources  
2300 North Martin Luther King Drive  
Milwaukee WI 53212

### DNR WEST CENTRAL REGION

Attn: RR Program Assistant  
Department of Natural Resources  
1300 Clairemont Ave.  
Eau Claire WI 54702

## The State of Wisconsin Department of Natural Resources



Note: These are the Remediation and Redevelopment Program's designated regions. Other DNR program regional boundaries may be different.

DNR Use Only			
Date Received	Date Assigned	BRRTS Activity Code	BRRTS No. (if used)
DNR Reviewer		Comments	
Fee Enclosed? <input type="radio"/> Yes <input type="radio"/> No	Fee Amount \$	Date Additional Information Requested	Date Requested for DNR Response Letter
Date Approved	Final Determination		



Superior Water Light & Power Company  
**Superior, Wisconsin**

Supplemental Site Investigation  
Report for the Former  
Manufactured Gas Plant

Superior, Wisconsin

WDNR BRRTs # 02-16-275446

**Summit Envirosolutions, Inc.**  
**September 2017**  
**Summit Project No.: 2118-0002**

**Supplemental Site Investigation Report**  
Superior Manufactured Gas Plant  
Superior, Wisconsin

September 2017

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**CERTIFICATION - HYDROGEOLOGIST**

I, William Gregg, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

*William M. Gregg*

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Signature and Title

September 12, 2017

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Date



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## 1.0 INTRODUCTION

Summit Envirosolutions, Inc. (Summit) was contracted by Superior Water Light and Power Company (SWL&P) to conduct additional subsurface investigations at the former manufactured gas plant (MGP), located at the intersection of Winter Street and East 1<sup>st</sup> Street in Superior, Wisconsin (Site). The Site location is shown in **Figure 1**. Previous investigations at the Site indicated the presence of polynuclear aromatic hydrocarbons (PAH) and volatile organic compounds (VOC) in soils, sediment, and groundwater. Following interim remedial actions, this investigation was designed to further define response actions to address all remaining impacted media at and from the Site.

### 1.1 Background

The Superior MGP operated from 1889 to 1904 and produced carbureted water gas from coal. SWL&P has conducted a Phase I environmental assessment and a series of Phase II Site investigations between 2001 and 2008. Prior investigations at the Site included:

- Installing 22 monitoring wells and performing groundwater sampling (two of the wells have subsequently been sealed);
- Installing 31 Geoprobe® soil borings and collecting 20 surface soil and 58 deeper soil samples for laboratory analysis and installing 26 soil borings with soil/groundwater sampling for mobile on-site laboratory analyses;
- Collecting 13 sediment samples from the boat slip;
- Conducting forensic chemical analyses on select soil and sediment samples;
- Collecting 2 samples of storm sewer sediment;
- Installing 10 test trenches;
- Completing 23 membrane interface probe (MIP) direct sensing borings to delineate volatile organic compounds (“VOCs”); and
- Completing 74 laser induced fluorescence (LIF) direct sensing borings to delineate tarry material.

A 3,000-square foot brick building, that was originally an MGP building and was reconstructed in 1929, is located on the northeast side of Water Street and East 1<sup>st</sup> Street, between Water Street and the railroad tracks that roughly parallel the shoreline of Superior Bay. Gravel parking areas surround the building. Several parcels of land adjacent to the building were part of the former MGP property, including a vacant grass-covered field to the west of the building where two gas holders were once located. Another larger gas holder was located on the now-vacant property south of the building, immediately south of U.S. Highway 53. A city street and vacant, grass-covered lots are now located where the larger gas holder was situated.

The site is irregularly shaped consisting of approximately five acres, and is situated approximately two miles from downtown Superior, Wisconsin. The area surrounding the site consists of industrial land along the Superior Bay shoreline. Commercial and residential properties are located along Winter Street and other city streets south and west of the site. The property southeast of the site is a fenced parcel used by Lakehead Concrete Company for storage and a ready-mix plant. East of the site is the

City of Superior wastewater treatment plant. North of the site is a property now owned and operated by Graymont (formerly CLM Corporation) to produce lime.

Between the wastewater treatment plant and Graymont's coal dock is a boat slip used by Graymont for coal deliveries. The boat slip covers approximately 5 acres and is up to approximately 26 feet deep. The Graymont dock wall is sheet piling whereas an earthen berm forms the boundary of the boat slip with the wastewater treatment plant. The head of the slip is shallow water where there is a gradual transition from the dredged depth of 26 feet to only a two or three-foot depth. The mouth of a 48-inch diameter concrete storm sewer pipe ends at the shoreline at the head of the boat slip. The bottom of the sewer is close to the elevation of Lake Superior. The City of Superior operates a 72-inch diameter overflow pipe (during high flows from precipitation events) from the wastewater treatment plant into the boat slip. The overflow pipe is below the water level in the boat slip and its depth was not determined.

The previous Site investigations have identified areas of the Site containing volatile organic compounds (VOC) and polynuclear aromatic hydrocarbons (PAH) compounds in the soil above Wisconsin Department of Natural Resources (WDNR) Residual Contaminant Levels (RCL). Groundwater samples contained benzene, toluene, ethylbenzene, and xylene (BTEX) and several PAH compounds above the WDNR groundwater enforcement standards. A test trench excavation north of the Site building encountered a clay tile pipe oriented toward the former Superior Bay shoreline that contained tarry material. The tarry material was analyzed using "fingerprinting" techniques and appeared to be carbureted water gas tar. Laser induced fluorescence (LIF) was used to map subsurface tarry materials.

The Site is private property, except for city streets and a highway that cross the Site. Most of the Site is not fenced, thus trespassers could potentially access the Site and be exposed to surface soil. Groundwater is present in native red clay soil and in more permeable fill materials that were placed along the shoreline. Groundwater in the clay moves very slowly and groundwater in the fill moves toward the City of Superior's wastewater treatment plant and to Superior Bay. There are no known groundwater users in the area. SWL&P provides the area's drinking water supply via horizontal wells installed over a mile from the Site in the bed of Lake Superior. The nearest surface water body is Superior Bay. The potential for vapor intrusion was not addressed in previous studies at the Site.

SWL&P completed two sediment investigations in the adjacent industrial boat slip in active use by Graymont. The slip was built after the MGP ceased operating in 1904, and the slip has been dredged several times since then; most recently in 1994. Sediment testing by USEPA in 1994 and 2015 and by WDNR in 2000 revealed elevated concentrations of PAH and metals and the boat slip was identified as one of several "hot spots" in the Duluth – Superior harbor. The MGP facility was identified as a potential source of sediment contamination, along with coal shipping and storage, runoff from industrial properties, storm sewer discharges, and overflows from the wastewater treatment plant. Sampling and analyses by SWL&P in 2003 and 2010 determined that PAH concentrations varied widely in the sediments with higher PAH concentrations in silty, sandy sediments overlying native red clay.

An interim remediation project was conducted in December 2008 to remove the clay tile pipe and approximately 3000 tons of PAH and VOC-containing soils from the vicinity of the pipe. Soil excavated from the Site was disposed at Waste Management's Voyager landfill in Canyon, Minnesota. **Figure 2**



shows the location of the 2008 soil excavation. Clean native clay was encountered in the bottom of the excavation, but additional impacted soils were observed in the side walls of the excavation. Cool Ox™ oxidation chemical was used for odor control and for in-situ chemical oxidation for soil near the excavation. This in-situ treatment to reduce toxicity and mobility of certain contaminants has proven effective.

Groundwater monitoring has been performed on eight occasions on at least a subset of Site wells since the 2008 remediation project. The water quality trends are generally stable or decreasing, and there is evidence of natural degradation occurring.

Considering the conceptual site model and all available data, as discussed in detail below, the nature and extent of soil, groundwater and sediment impacts at and from the Site have been adequately delineated, and evaluation of feasible alternatives for a final remedial action plan is now appropriate.

## **1.2 Site Location and Ownership**

The former Superior MGP Site is located near the intersection of Winter Street and East 1<sup>st</sup> Street in Superior, Wisconsin. The Site occupies a portion of the northeast quarter of the northwest quarter of Section 13, Township 49 North and Range 14 West (SW ¼, NW ¼ of Sec. 13, T49N, R14W). The Site location is depicted on **Figure 1**.

Portions of the former MGP property are now owned by Superior Water Light & Power (SWL&P), the City of Superior, the U.S. Department of Transportation, and Graymont. A Burlington Northern Santa Fe rail road is present across the Site. **Figure 3** is a color-coded map indicating property ownership in the vicinity of the MGP Site. Also, Lafarge North America, Inc. owns a 450-foot portion of the dock at the open end of the boat slip used by Graymont.

The Site owner contact is:

Rachael Snyder-Cochran  
Superior Water Light and Power Company  
2915 Hill Avenue  
Superior, Wisconsin 54880  
(715) 395-6224

## **1.3 Consultant and Contractor Identification**

The Site investigation activities were conducted by:

Summit Envirosolutions, Inc.  
Attn: William M. Gregg  
1210 East 115<sup>th</sup> Street  
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(651) 262-4236

Subcontractors for this project are identified below.

Lab Services

Pace Analytical, Inc.

Attn: Kabor Xiong  
1800 Elm Street, SE  
Minneapolis, MN 55414  
612-607-6400  
(WDNR Certification 999407970)

LIF and Geoprobe® Soil Borings

Dakota Technologies, Inc. (Matrix)

Attn: Jim Dzubay, Dan Thompson  
2201 A 12<sup>th</sup> Street North  
Fargo, ND 58102  
701-237-4908

Sonic Drilling and Well Installations

Cascade Drilling

Attn: Scott Thalacker, Chad Johnson  
209 Lemieur Street  
Little Falls, MN 56345  
320-632-6552

Surveying

TKDA

Attn: Jeff Goetzman  
11 East Superior Street, Suite 420  
Duluth, MN 55802  
218-491-7385

Barge for Sediment Borings

Marine Tech, LLC.

Attn: Ted Smith  
716 Garfield Avenue  
Duluth, MN 55802  
(218) 720-2833

## 2.0 OBJECTIVES AND PROJECT SCOPE

The objectives of this investigation included the following:

1. Identify and delineate the extent of possible tarry source materials near the boat slip. This objective includes determining if remedial actions are needed to prevent future migration of contaminants into boat slip sediments and water from sources related to the Superior MGP;
2. Delineate the extent of PAH, metals, and VOC in the boat slip sediments;
3. Determine if a deeper aquifer system is present and test the groundwater for PAH and VOC;
4. Delineate PAH and VOC concentrations in soil surrounding wells MW3 and MW4; and
5. Investigate vapor intrusion.

To accomplish the goals listed above, Summit used a combination of LIF soil screening technologies, sonic drilling, barge-mounted sediment borings, vapor pin installations, and sample collection for laboratory analyses. The methodologies are described in greater detail in Section 3.

### 2.1 Scope of Work

This investigation followed the scope of work identified in the Remedial Design Investigation Work Plan submitted to WDNR on August 31, 2016 and approved by WDNR on September 12, 2016. Major elements of the work scope were as follows:

- Site Use: Operations currently conducted on the Site include Graymont's lime calcining business and the City of Superior's waste water treatment plant operations. Significant truck traffic is common at the Site and Graymont uses the boat slip for coal deliveries approximately five or six times per year. Also, the rail road line is active and the line is posted for the use of unmanned locomotives. Storage buildings on-Site are infrequently occupied.
- Type and Amount of Impact: Impacts to the soil, sediment, and groundwater have not been fully characterized. However, the boat slip sediments and the soil and groundwater contain varying amounts of BTEX and/or PAH. Tarry materials were found on-Site at the terminus of the clay pipe and off-Site to the east.
- Environmental Media Potentially Affected: Soil, sediment, soil gas, and groundwater are potentially affected.
- Other Environmental Investigations/Findings: SWL&P has investigated soil, sediment and groundwater at the Site since 2001. The USEPA and WDNR have conducted several lake

sediment studies near the Site since the mid-1990s. The results of the previous investigations are summarized in Section 1.1.

- Potential Receptors: Groundwater discharges to Superior Bay. There are no known groundwater users in the area as there is no productive aquifer system present. The municipal drinking water supply is distributed throughout Superior and is obtained from Lake Superior via horizontal wells installed over a mile from the Site in the bed of the lake as illustrated in **Figure 4**. The nearest surface water body is Superior Bay. Since the boat slip is part of an active industrial facility, the primary receptors are aquatic organisms. Human receptors are also possible if sediment contact occurs during work or recreational activities (e.g., anchor retrieval).
- Significant Resources: Any impacts identified at the Site will be evaluated with respect to threatened or endangered species, sensitive habitats, wetlands and/or resource waters.
- Potential Remedial Actions: The following potential remedial actions are currently being considered for each media:
  - Soil: Soil covers (capping) in areas of the Site where surface soil contains chemicals above direct contact standards. Also, concentrations of PAH and/or VOC adjacent to wells MW-3 and MW-4 (two separate areas) are being considered for excavation and off-Site disposal;
  - Sediment: Sediments that contain PAH in concentrations that exceed WDNR sediment quality guideline values may require remediation. Some combination of dredging, capping, and/or natural restoration will be evaluated and the boat slip will continue to be used for coal deliveries and boating;
  - Groundwater: Monitored natural attenuation is being considered because the chemical quality in most monitoring wells is stable and decreasing owing to the age of the source of contamination and interim remedial activities. Variations in water quality have resulted from disturbances such as remedial excavations, construction activities, and from well installation activities.
  - Vapor Intrusion: No occupied buildings are present at the Site. Soil and groundwater has been found to contain VOC concentrations that may trigger vapor intrusion concerns for any occupied building that may be built on the Site in the future. Institutional controls are the likely remedial strategy for addressing vapor intrusion at the Site.



## **2.2 Sampling Strategy**

The sampling strategy was developed to further delineate the nature and extent of tarry material, PAH, and VOC impacts to the soil, soil gas, sediment, and groundwater. The sampling locations were selected based on data gaps identified from previous investigations and/or to provide areal coverage in previously unexplored areas. The following Site characteristics are provided for reference.

### **2.2.1 Site Topography**

Based on the Douglas County, Wisconsin LIDAR elevation dataset (2008), the Site is approximately 612 to 615 feet above mean sea level in an area of gently sloping topography. The topography in the area of the Site is relatively flat. The area northeast of the Site slopes down towards Lake Superior which is normally at an elevation of approximately 601.3 feet above mean sea level. The Graymont dock and City of Superior wastewater treatment plant properties are approximately five to eight feet above the lake level.

### **2.2.2 Surface Water Drainage**

Storm water runoff is generally sheet-flow across the Site toward Superior Bay. No known storm sewer system exists at the Site. A storm sewer grate was observed near boring B-3 during the previous Phase II, however, the catchment area appeared to be very limited. The nearest storm sewer runs southeast of the Site through the Lakehead Concrete Company property. The storm sewer is connected to catch basins on nearby city streets. Two sanitary sewer lines run through the property. The locations of the sanitary and storm sewers are illustrated on **Figure 5**.

### **2.2.3 Site Hydrogeology**

Site investigations indicate there are three predominant soil types present in the Site vicinity: red clay, brown silty sand, and fill material consisting primarily of white to dark gray lime-like material. There were also small amounts of miscellaneous fill, such as bricks, wood and slag, encountered at several locations. The thickness of the lime-like material ranged from approximately five-feet thick south of the railroad tracks to one-foot thick or less north of the railroad tracks. Underlying the lime-like material was silty sand or sand along with miscellaneous fill (slag, wood, brick, etc.) in some borings. Underlying the sand unit was red to reddish-brown high plasticity, low permeability clay. The clay unit appears to generally slope northeast and east-northeasterly, towards Superior Bay. According to the Bedrock Geology Map of Wisconsin (Mudrey et al., 1982) sandstone bedrock of the Bayfield Group is reported to be present beneath the unconsolidated soils. Depth to bedrock is reported to be from 30 to 90 meters (100 to 300 feet) below the ground surface.

Groundwater was encountered at the borings completed in the sand, silty sand, or fill material above the red clay. The clay forms the base of the water table and inhibits downward migration of groundwater and chemicals. Groundwater was encountered approximately three to five-feet below the ground surface in the borings north of the railroad tracks and approximately eight to eleven-feet below ground surface in the borings south of the railroad tracks. Results of the slug tests indicate hydraulic conductivity of wells screened in silty sand ranged from  $1.17 \times 10^{-2}$  centimeters per second (cm/s) to  $8.48 \times 10^{-3}$  cm/s. The wells screened in silty sand are located downgradient and off-Site, to the northeast of the Site. Results of slug tests indicated the hydraulic conductivity of the lime-like material / clay ranges from  $3.07 \times 10^{-3}$  to  $7.63 \times 10^{-5}$  cm/s. South of the former shoreline (on-Site area) the hydraulic gradient is approximately 0.04 feet per feet, and north of the former shoreline (north of the site, downgradient) the hydraulic gradient ranges from approximately 0.001 to 0.006 feet per feet.

#### **2.2.4 Potential Migration Pathways**

Potential migration pathways include vertical migration due to the infiltration of precipitation through the unsaturated zone, followed by lateral migration as influenced by local topography and anticipated groundwater flow. Potential migration pathways to boat slip sediments, in addition to stormwater runoff and sewer discharges, include MGP wastes deposited on the original bed of the bay that may migrate due to erosion into the boat slip. Storm sewer and sanitary sewer lines are present in the Site area and may serve as preferential migration pathways.

## 3.0 INVESTIGATION SCOPE OF WORK

The investigation was designed to provide key information needed to plan comprehensive Site remediation. The scope of work included the use of a sonic drill rig to provide large diameter continuous soil cores, LIF technology screening tools, additional well installations and soil, soil gas, sediment and groundwater sampling for laboratory analyses. Further details of the investigative activities are provided below.

### 3.1 Investigation Activities

Prior to the start of drilling, utilities were cleared and a backhoe was used to locate tie backs along the dock wall of the boat slip. A regular pattern of tie backs was found using the bollards for reference. The tie backs did not limit the scope of the investigation.

#### 3.1.1 LIF Investigation

Laser induced fluorescence (LIF) borings (also referred to as TarGOST® borings) were placed around the perimeter of the boat slip to detect coal tar materials and aid in the placement of borings and wells for soil and groundwater sampling. This work was done from November 28 through December 1, 2016. **Figure 6** shows the locations of 30 LIF borings installed for this investigation. The LIF borings ranged from approximately 16 to 34 feet deep. Dakota Technologies, Inc. provided color logs with the results of the LIF screening immediately after each boring was completed to help guide the placement of subsequent soil borings and wells. **Appendix A** contains the LIF logs. Borings were abandoned with granular bentonite and were surveyed using GPS equipment for ground surface elevation and northing and easting location.

#### 3.1.2 Vapor Intrusion Investigations

Sub-slab soil gas Vapor Pins® were installed at the three storage buildings shown on **Figure 7** on December 12, 2016. Three vapor pins were installed at each building. The vapor pins consisted of hollow stainless steel rods embedded in the concrete floors with a screen in the underlying soil and a removable cap for sampling access. Dakota Technologies, Inc. was contracted to install the vapor pins by drilling a 5/8-inch hole through the concrete and into the underlying soil, and a 1½-inch hole partway through the slab to recess the vapor pin's sampling port and cap beneath the floor. Each vapor pin was installed using a silicone sleeve as a seal between the concrete and the hollow rod.

The vapor points were sampled on January 23, 2017 and again on April 24, 2017. Summit followed the sub-slab sampling procedure described in WDNR RR-986. Summit completed leak tests using a helium shroud and shut-in test. Prior to the helium leak test, a shut-in test was performed to check the vacuum-holding capability of the sampling lines. A valve was shut off directly before the vapor pin, a vacuum was applied to the lines, and a monometer was used to evaluate if a leak was present. The system was adjusted until it showed no sign of leaks. A shroud was placed over the vapor pin and helium was

introduced into the shroud until its concentration reached approximately 20% to 30% by volume. Helium concentrations inside the shroud and in soil gas extracted from the vapor pin were measured with a dielectric meter. Once the system was properly evaluated, the soil gas was screened with a photo ionization detector (PID) and the measurements were recorded. Then a six-liter summa canister was connected to the system and opened, and the sample was collected by allowing the vacuum in the canister to decrease to zero. These vapor samples were then submitted to Pace Analytical Services (Pace) following standard chain of custody procedures and analyzed for VOC by EPA Method TO-15.

### **3.1.3 Soil Investigations**

Soil borings were completed from December 12 to December 16, 2016 using sonic drilling methods in the areas previously screened using LIF methods, and hydraulic-push (Geoprobe) borings were completed near wells MW-3 and MW-4. Both methods provide continuous cores of soil for logging, field screening, and sampling. **Appendix B** contains the logs for the soil borings.

Cascade Drilling LP completed 11 sonic borings for this investigation at the locations shown on **Figure 8**. The sonic borings ranged from 20 to 40 feet deep, except for boring SB-07 which was completed at a depth of 110 feet. Boreholes not used for well installations were sealed with bentonite pellets and were located with a GPS.

Dakota Technologies, Inc. used a truck-mounted Geoprobe rig to provide soil cores in near wells MW3 and MW4. The borings were advanced to 15 feet below grade, except for GP3 where an obstruction was encountered at 4 feet. The Geoprobe borings were sealed with granular bentonite pellets after completion. The borings were located with a GPS and the locations are shown in **Figure 9**.

A Summit field geologist examined cores from the sonic and Geoprobe borings. The examination included field screening with a PID, logging, photographing the core, and selecting sample intervals for laboratory analyses. The samples were placed in plastic bags, shaken, and stored inside a heated truck cab for approximately 10 minutes (due to cold weather conditions) before headspace PID measurements were recorded. To prevent freezing in the field, the sample bags were placed in coolers and taken to a warm, dry facility where they were transferred into the appropriate sample containers provided by the laboratory for analyses of VOC (by EPA Method 8260B) and PAH (by EPA Method 8270D, selected ion monitoring). Samples collected at borings on the Graymont property were split with their consultant. The lab samples were kept on ice and submitted to Pace Analytical following standard chain of custody procedures. The remaining cored material was placed in sealed, labeled metal drums and stored on site pending future disposal. The plastic core liners, PPE, and other debris were disposed of at the City of Superior's landfill.

### **3.1.4 Sediment Investigations**

Sediment borings were completed in the boat slip from December 5 to December 8, 2016 at the 25 locations shown on **Figure 10**. A barge-mounted Geoprobe rig was used to advance each boring until



the red clay stratum was encountered. The barge was maneuvered using a small tug boat and was equipped with a heated cargo container for a sheltered work space. Metal decking was welded on the front of the barge to provide a work area for the Geoprobe rig. The sediment borings were located with a GPS. They were advanced to depths ranging from approximately five to twenty feet beneath the lakebed and terminated in the native red clay. The sediment borings were logged by a Summit field geologist and screened for organic vapors using a PID. The headspace screening measurements were recorded on the boring logs, as shown in **Appendix B**.

At each sediment boring location, the top six inches of sediment was sampled using a ponar dredge sampler. The ponar samples were placed in a clean metal bowl, decanted, and homogenized. The sediment was sampled from the metal bowl and placed in a plastic bag, shaken, and stored in the heated shelter for prior to head space measurements.

The push probes were advanced from the bow of the barge and the cores were taken into the heated cargo container for processing. Summit examined the cores, screened with a PID, photographed and logged the cores. Samples selected for analytical testing were placed in plastic bags, shaken, and let rest for 10 minutes before headspace measurements were taken.

The sediment samples collected on Graymont's property were split with their consultant, then placed in laboratory-provided jars for analyses of VOC, PAH, and metals. The samples were submitted to Pace Analytical following standard chain of custody procedures. The leftover sediment was placed in sealed, labeled metal drums and stored on site for future disposal. The plastic core liners, PPE, and other debris that had been in contact with soil cores were disposed of at the City of Superior's landfill.

Core barrels and the ponar sampler were cleaned between uses with Alconox® detergent solution and rinsed in water. The equipment was submerged and scrubbed in the solution and rinsed with water by either submerging it into a bath or spraying with a spray bottle. The cleaning baths were replaced on an as-needed basis and all wash water was collected and disposed of at the City of Superior wastewater treatment plant.

### **3.1.5 Monitoring Well Installation**

**Figure 11** shows the locations of existing monitoring wells on Site, including four new monitoring wells (MW-23 to MW-26) installed for this investigation. Wells MW-23, MW-24, and MW-25 monitor the water table along the northwest side of the boat slip. These shallow wells were constructed with two-inch diameter PVC materials and screens designed to "straddle" the water table. The fourth well (MW-26) was installed to monitor a deeper water-bearing sand layer encountered at 80 feet deep and extending to 109 feet deep. The well construction logs are shown in **Appendix C**.

Wells MW-23, MW-24, and MW-25 were completed flush to the ground and well MW-26 was finished above ground with a protective casing as well as protective bumper posts. The wells were surveyed by a licensed surveyor for top of casing elevation, ground surface elevation, and location. **Table 1** provides a summary of the construction information for all wells on site.

The newly installed wells, MW-23, MW-24, MW-25, and Mw-26 were developed by Summit staff on January 17, 2017. The development process entailed the hand bailing of several well volumes of water from the casing. In the case of MW-24 and MW-25, the wells were bailed until dry and left to recover. Well MW-26 was also surged with a K-packer as part of development. The water was collected in five-gallon pails and disposed of at the City of Superior's water treatment plant.

### **3.2 Groundwater Sampling**

Two rounds of groundwater sampling were conducted for this investigation. The first took place January 24-26, 2017 and the second was April 24-26, 2017. All site monitoring wells were sampled each time, however well MW-3 was damaged and is unable to be sampled. Groundwater samples were collected in general accordance with the WDNR "Groundwater Sampling Field Manual" September 1996. Groundwater samples were collected using a low-flow sampling technique by which pumping rates are adjusted to minimize drawdown in each well. The wells completed in clay (i.e., MW-1, MW-2, MW-4, MW13, and MW14) do not recover quickly enough to prevent drawdown in excess of one foot at a realistic purging rate.

Each monitoring well was purged using a peristaltic pump and dedicated new tubing until groundwater water quality parameters stabilized. Water quality parameters including pH, specific conductance, temperature, turbidity, oxidation-reduction potential, and dissolved oxygen were measured with a Horiba U-52 water quality meter equipped with a flow-through cell. The stabilized water quality measurements and other sampling information were recorded on the Groundwater Sample Collection Records included as **Appendix D**. After water quality readings stabilized, samples were collected from each well using the peristaltic pump and placed directly into laboratory-supplied containers. The samples were stored on ice in coolers and were delivered under chain-of-custody to Pace Analytical. The samples were submitted for analysis of VOC and PAH. A sample duplicate and a trip blank (for VOC analysis only) were collected for each sampling round.

### **3.3 Decontamination Procedures**

The water level meter and the Horiba U-52 water quality meter with the flow-through cell were decontaminated prior to each use with a detergent wash followed by a potable water rinse. All other equipment and supplies such as the tubing used for purging and sampling was new, disposable, and dedicated to one use at one well.

## 4.0 Investigation Results

**Figure 12** illustrates the collective Site-wide investigation locations completed to date in upland areas, and **Figure 13** shows the sediment sampling locations in the boat slip. The results of this Supplemental Site Investigation have completed delineation of contamination at the Site and are detailed in the following sections.

### 4.1 Hydrogeologic Results

New information provided by this Supplemental Site Investigation and by groundwater monitoring results during the past couple of years includes the following:

1. A water-bearing sand layer was encountered in the soil boring for well MW-26 between 80 and 109 feet deep.
2. Sonic borings better defined the top of clay surface and the corresponding thickness of fill site-wide.
3. The depth to clay and the thickness of sediment in the boat slip was determined at 25 boring locations.
4. A construction project on the City of Superior's wastewater treatment plant property provided additional information about the fill present at that location.
5. The groundwater close to the shoreline responds quickly to water level changes due to the seiche in Lake Superior and the water level in the City's aeration basin (lagoon No. 2).

Observations of the geological materials encountered during this investigation confirm the predominant soil types encountered in the Site vicinity: reddish-brown high-plasticity clay, silty sand and sand, and fill material consisting primarily of gray lime-like material from the lime kilns. Miscellaneous fill including bricks, gravel, wood, and coal was also present. The fill material likely originated from local building demolition, lumber and coal storage and handling, and other industrial activity.

Prior to this investigation, all the monitoring wells at the Site were shallow, water-table wells. Boring SB-07 was a deep boring drilled to investigate the hydrogeology and vertical extent of contamination. As shown on the boring log in **Appendix B**, a 29-foot thick layer of fine to medium sand was encountered at a depth of 80 feet. Given the geologic history of the region, the sand layer was likely a beach deposit along a previous lakeshore. The areal extent of this layer is unknown, but it is likely present throughout the MGP Site area. Well MW-26 was screened from 80 to 90 feet to provide groundwater samples for water quality analyses.

**Figure 14** is a map of the top of clay surface using all available information from current and previous Site investigations. **Figure 14** also shows the locations of three cross-sections that depict the subsurface materials in the boat slip and upland areas. The clay unit appears to slope northeast and east-northeasterly, towards Superior Bay. Clay was encountered at the ground surface in the borings

located southwest of the Gas building. The thickness of fill increases towards the Superior Bay shoreline, with thicker amounts of fill along the dock wall and on the City's WWTP property. A detailed description of the materials encountered in the borings is provided in the logs in **Appendix B**.

**Figure 15** shows a cross section perpendicular to the shoreline from Winter Street to the end of the boat slip. The water depth in the boat slip was up to 26 feet deep and generally the bathymetry of the slip was like that shown in the map made for Graymont in 2011 (**Figure 16**). Most of the boat slip sediment borings encountered two to five feet of loose silty sediment above the firm native red clay. Borings S9 and S16 in the central part of the boat slip, and boring S21 closer to the mouth of the boat slip encounter one foot or less of loose sediment overlying the clay. Graymont's last coal shipment in 2016 was less than a month prior to the sediment investigation and it is likely that prop wash and/or grounding of the hull of the delivery ship into the sediments creates the uneven sediment thickness. In water depth of 20 feet or greater, the volume of loose sediments above clay is estimated to be approximately 8,500 cubic yards.

The thickness of fill materials along the shoreline is shown in **Figure 17** which is cross-section B-B' as located on **Figure 14**. The fill material varies between approximately 10 and 25 feet thick and appears to increase in thickness to the southeast towards the entrance to the City of Superior wastewater treatment plant. **Figure 18** shows a portion of cross-section A-A' focusing on the boat slip. The head of the boat slip has an area of approximately one acre, shallow water, and sediments up to approximately 20 feet thick. The estimated volume of sediment above the red clay in this area is approximately 40,000 cubic yards. Another 30,000 cubic yards of sediment above the clay exists in the underwater slope up to the berm around wastewater treatment plant pond. The chemical data depicted on this cross-section is discussed further in Section 4.5.

North of the gas building, groundwater was encountered in the sand, silty sand, or fill material above the red clay. Groundwater was encountered approximately two to five-feet below the ground surface in the wells along the railroad tracks right of way and to the north. Groundwater was approximately eight to eleven-feet below the ground surface in the wells south of the railroad tracks. Depth to groundwater was gauged prior to collecting groundwater samples from the monitoring wells. The gauging data results from January and April 2017 are summarized in **Table 2**. Groundwater elevation contours resulting from the January and April, 2017 gauging data are illustrated on **Figures 19A and 19B**, respectively. The groundwater flow direction at the Site is northeast towards Superior Bay. Very little change in the overall groundwater flow direction has been observed since monitoring began at the Site.

Wells MW-1 through MW-7 and MW-13 and MW-14 are completed in clay or lime-like material with lower hydraulic conductivities. As illustrated in **Figures 19A and 19B**, the groundwater hydraulic gradient is steeper in these areas. The hydraulic gradient from well MW-4 to well MW-7 is approximately 0.028 feet per foot. Wells MW-8 through MW-12 and MW-15 through MW-22 are completed in sandy soil and fill that has higher hydraulic conductivity, and have a flatter hydraulic gradient. The hydraulic gradient from well MW-7 to well MW-11 is approximately 0.007 feet per foot. No significant vertical hydraulic gradient was measured between the water table and the deep sand layer in which well MW-26 is completed.



The thickness of the fill and sand aquifer resembles a “wedge” shape that increases in thickness towards the Superior Bay. The thickness of the aquifer is measured from the water table down to the clay layer which has a low permeability and is an effective barrier to downward migration of groundwater. The thickness ranges from 5 feet in MW-7 near the former shoreline to 14 feet thick north of the railroad tracks in MW-11. The thickness of the aquifer increases towards the northeast on the WWTP property. The clay layer was encountered at a depth of 30 feet in boring SB10.

The groundwater monitoring report prepared by Summit in March 2015 discussed the Site hydrogeology in greater detail including seasonal water level changes observed in wells equipped with transducers and a comparison of the transducer data to continuous water level data collected in the Duluth-Superior harbor by NOAA and in the adjacent wastewater treatment plant pond by the City of Superior. The wells close to the shoreline reacted quickly to lake level changes due to seiche and to changes in the pond level due to precipitation. The report also provided an estimate of groundwater discharge based on the measured gradients and hydraulic conductivities. The water table was estimated to discharge approximately one gallon per minute for each 100 feet of width perpendicular to the flow.

## 4.2 Results of LIF Borings

**Appendix A** contains the LIF (TarGOST) boring logs. The boring numbers shown on **Figure 6** correlate to the TarGOST boring logs. Previously, borings SLIF-1 through SLIF-43 were completed in October 2005 and LIF-44 through LIF-74 were completed in May 2006. Borings TG1 through TG30 were completed in December 2016 for this investigation. The recent “TG” borings were approximately 17 to 26 feet deep and targeted the depth of the former lakebed prior to 1904.

**Figure 20** is a map of the TarGOST results showing the boring locations and the highest reflectance value found at each location (at any depth). The TarGOST borings revealed a contiguous area of tarry soil in a linear pattern aligned with the former Superior Bay shoreline. The December 2016 TarGOST results showed low values of reflectance which indicates a lack of subsurface tarry materials. Some higher values were found at isolated locations, but do not suggest a significant tar layer at a depth that corresponds to the former lake bed (or at any other depth). Given the shoreline filling and disturbances that created the existing shoreline features, the original lake bed materials may not be found in their original positions near the boat slip. Boring TG-01 indicated a thin layer of reflectance in the fill at a depth of approximately 2.8 to 3.2 feet below the ground surface. Boring TG-07 showed three layers of higher-reflectance materials between a depth of approximately 16 to 25 feet. The rest of the December 2016 TarGOST borings showed little or no reflectance. There does not appear to be a contiguous layer of tarry materials adjacent to the boat slip.

## 4.3 Soil Analytical Results

Laboratory analytical reports for all soil testing done for this investigation are presented in **Appendix E**. **Table 3** presents the results of shallow soil (zero to four feet deep) analyses and compares the results to WDNR direct contact standards. **Table 4** summarizes the analytical results for soils deeper than four feet and compares the results to WDNR groundwater Residual Contaminant Levels. Each table groups the samples according to the boring locations at the Site, as discussed below.

#### 4.3.1 Boat Slip Area Soil Analytical Results

Nine sonic borings were drilled around the perimeter of the boat slip to provide soil samples to determine if the adjacent soils may be a continuing source of contamination to boat slip sediments. The other two sonic borings (SB-07 and SB-11) were farther from the boat slip, as shown in **Figure 8**. Three of the seven sonic boring surface samples exceeded the direct contact criterion for benzo(a)pyrene (see **Table 3**):

1. Sample SB-07 (1-1.5) was located near the MGP operations area and that sample contained other individual PAH compounds that exceeded direct contact criteria.
2. Sample SB-01 (1-4) was located near the head of the boat slip in the middle of Graymont's access road for truck traffic.
3. Sample SB-08 (2-4) was near LIF boring TG-01 that indicated a thin reflectance layer at a depth of approximately three feet.

As shown on **Table 4**, there were a few PAH and benzene RCL exceedances in the deeper soil samples from borings SB-02, SB-05, and SB-08. None of the other samples collected from the sonic borings adjacent to the boat slip exceeded RCLs. Boring SB-11 was drilled near former LIF boring 68 (ENSR, 2007) which indicated reflectance at depths of 12 to 14 feet and at 19 to 20 feet. **Table 4** shows that PAH or benzene exceedances were found in three of the five samples from boring SB-11.

#### 4.3.2 MW-3 Area Soil Analytical Results

A total of 23 soil samples were collected from the eight Geoprobe borings drilled near well MW-3. Five of the seven surface samples contained PAH and/or VOC above direct contact standards (**Table 3**), and only one of the deeper samples did not exceed the benzene RCL (**Table 4**). **Figure 21** shows benzene concentration contours using the highest benzene concentration found at each boring. The contours are logarithmic and indicate the area being considered for excavation to remove the most contamination. The data used for **Figure 21** includes prior soil sampling results as well as the data generated by this investigation.

#### 4.3.3 MW-4 Area Soil Analytical Results

**Figure 21** also shows the soil benzene concentration contours near well MW-4. This area is characterized by VOC concentrations in the soil and groundwater, but relatively low PAH concentrations. **Tables 3** and **4** show that only one PAH compound exceeded standards in the 31 samples collected from 10 Geoprobe borings in this area. Benzene is the most prevalent VOC detected in the soil. Toluene, xylene, ethylbenzene, and styrene are also present in some of the samples.

#### 4.4 Sub-Slab Vapor Analytical Results

**Table 5** shows the results of two rounds of sampling at nine vapor pins installed for sub-slab vapor sampling. None of the compounds exceeded the industrial screening levels for VOC. **Appendix F** contains the laboratory analytical reports for sub-slab vapor samples.

## 4.5 Results of Sediment Analyses

Analytical results for 56 sediment samples collected from the 25 borings installed for this investigation are summarized in **Table 6**. The laboratory analytical reports for the sediment analyses are provided in **Appendix G**. The results are compared to consensus based sediment quality guideline values as described in WDNR guidance (WDNR, 2003). Metals and PAH were routinely detected in the sediment samples but VOC detections were rare. The VOC detections above WDNR sediment quality guideline values are indicated in the **Table 6** footnotes. The red clay that underlies loose silty sediment was sampled at boring locations S2, S12, S14, S16, S21, and S24. None of the metals, PAH, or VOC analytes exceeded threshold effects concentrations in these six samples. The sediment directly above the red clay in borings S12 and S14 contained sediment quality guideline value exceedances, thus the clay provides a physical barrier and a sharp delineation of sediment contamination.

As indicated in **Table 6**, sediment quality guideline values exist for individual PAH compounds and for the sum of all PAH compounds. **Figure 18** shows color-coded analytical results for the sum of PAH on the cross-section through the boat slip, and **Figure 22** uses the same color code to depict the highest PAH sum at each location. Sediment sampling and analyses by USEPA in 2015 included seven borings in the Graymont boat slip, from which 19 samples were collected (USEPA, 2015). All the USEPA samples were collected in the top four feet of sediment, which generally consisted of silty material overlying the native red clay. The EPA analytical results, and all other prior boat slip sediment analyses, were used to create **Figures 18 and 22**.

USEPA generally found higher concentrations of PAH in their samples compared to the results for this investigation. This is true for individual PAH as well as total PAH. The USEPA total PAH were summed using half the reporting limit for compounds not detected, whereas the sums shown in Table 6 used zero for non-detects per WDNR guidance. Also, USEPA included 2-methylnaphthalene in their list of PAH, but that was not an analyte for this investigation. Those two differences contribute to USEPA's higher sums, but do not explain the entire difference. The chemical variability between sample points can be large – even when samples are homogenized and split. The USEPA samples were no closer than approximately 30 feet to any of the samples collected for this investigation, and there would have been intervening disturbances from activities over the last 2 years, so differences in the analytical results could be expected. The reason for the consistently higher concentrations reported by USEPA is not known. The USEPA also performed multiple toxicity tests and other analyses that indicated the sediment in the boat slip has been impacted by industrial activities. Based on the collective data available to date, the loose sediment above the red clay appears to have been impacted by PAH and/or metals.

## 4.6 Results of Groundwater Investigations

Monitoring well groundwater analytical results from the January and April 2017 sampling events are summarized on **Table 7**. The groundwater analytical reports are included in **Appendix H**. The groundwater analytical results were compared to the WDNR groundwater enforcement standards (ES), which are based on the protection of public health for drinking water (NR 140, Table 1). Laboratory analyses of the samples from both sampling events for the new wells installed for this investigation (MW-23, MW-24, MW-25, and MW-26) did not detect PAH or VOC except for pyrene and toluene in

samples from two of the wells at concentrations below the ES. Overall, the results for the previously existing wells at the Site were consistent with historical PAH and VOC concentrations.

The analytical results indicate the most common compound detected above the ES was benzene, which has an ES of 5 micrograms per liter (ug/L). **Figures 24A and 24B** illustrate the approximate extent where benzene in the groundwater exceeded the ES in January and April 2017, respectively. As shown on **Figures 24A and 24B**, the extent of benzene impact has been delineated downgradient from the MGP. Dissolved VOC are apparently migrating towards the boat slip and WWTP treatment pond. Wells near the MGP also contained concentrations of ethylbenzene, naphthalene, styrene, toluene, and xylene above the ES; however, the concentrations were generally not above the ES downgradient. The extent of PAH compounds in the groundwater which exceed the ES has also been delineated. PAH compounds that exceeded the ES included benzo(a)pyrene, chrysene, and naphthalene and were limited to the wells nearest the MGP. **Figures 25A and 25B** illustrate the groundwater PAH results for samples that exceeded the ES in January and April 2017, respectively.



## **5.0 Conceptual Site Model**

### **5.1 Physical Setting**

#### **5.1.1 Former Site Use and Shoreline Changes**

The former Site use and historical shoreline changes were described in detail in the Phase II Part IV Investigation report (ENSR, 2007). The historical information presented in that report indicates that during the time the MGP operated, the shoreline was approximately 50 to 75 feet from the Gas building, and the railroad tracks were built on a trestle approximately 80 to 100 feet off shore. By 1905, the boat slip was constructed and a significant area along the shoreline was filled. The Graymont plant site was a coal and fuel terminal in the early 1900's (North-Western Fuel Company), and the City of Superior wastewater treatment plant property was occupied by saw mills and lumber yards (Edward Scofield & Company). Currently, the railroad tracks are 140 feet inland from the head of the boat slip. This represents approximately 240 feet of filling from the original shoreline to the head of the boat slip. The City of Superior's wastewater treatment plant and most of Graymont's operations are built on filled land.

#### **5.1.2 Site Use**

The former MGP property currently consists of a brick building, a gravel parking lot, grass-covered fields, and a city street. The building is used by Graymont as a warehouse. The area surrounding the former MGP property consists of industrial land along the Superior Bay shoreline and commercial/residential properties further inland. The property southeast of the Site is a fenced parcel used by Lakehead Concrete Company for storage and a ready-mix plant. East of the Site is a fenced parcel utilized for the City of Superior wastewater treatment plant. North of the Site is a fenced parcel operated by Graymont to produce lime. Graymont receives approximately five shipments of coal per year via boat deliveries in the slip between their property and the City of Superior wastewater treatment plant. Lafarge operates a cement shipping terminal adjacent to Graymont, but does not use the boat slip. To the south of the site is Highway 53, beyond which are commercial and residential properties.

#### **5.1.3 Receptors**

Potential contaminant receptors in the vicinity of the Site include Superior Bay which could receive impacts from sediment in the boat slip, groundwater, and storm water runoff. There are no known groundwater production wells in the Site vicinity. Workers from Graymont and Lakehead Concrete visit the warehouse at the Site only for short periods of the time during the work week. The warehouse area and the fields where the former gas holders were located have generally unrestricted access. The City of Superior wastewater treatment plant and Lakehead Concrete properties have workers on-site on a regular basis, and are fenced to exclude the general public.

## **5.2 Boat Slip Sediments**

The boat slip was constructed by 1905 adjacent to the filled land now used by Graymont. The Superior Bay was only about five feet deep before dredging and the bottom of the slip was the firm, high-plasticity red clay that is prevalent throughout the area. The southeast side of the boat slip (opposite the Graymont dock wall) was shallow open water until the City of Superior built its wastewater treatment plant beginning in the 1950s. The earthen berm that now forms the southeast border of the boat slip was built in the 1970s.

Loose sediment consisting primarily of silty clay, silt and sand overlies the red clay throughout most of the boat slip. The loose sediment contains PAH and to a lesser extent metals above WDNR sediment quality guidelines and is often dark or black in color. VOC were rarely found in boat slip sediments above the WDNR sediment quality guidelines. The red clay is uncontaminated and serves as a physical and visual boundary at the base of the contaminated sediments. The thickness of the loose sediments in the depths of the boat slip varies between zero and approximately five feet and averages approximately three feet. The total sediment thickness increases to 20 feet or more at the head of the boat slip and along the earthen berm, however only the top two or three feet are loose sediments. The remainder are isolated and compacted by the weight of overlying sediment.

The use of the boat slip for coal deliveries agitates the water and resuspends loose sediment. The hull of the coal boats probably hits bottom in places and prop wash resuspends sediment. Thus, contaminated sediments are redistributed throughout the boat slip. The thick sequences of sediment at the head of the boat slip and on the slope of the berm to the wastewater treatment plant lagoon are overlain by the re-deposited contaminated sediment. The pattern of contamination is more complicated at the head of the slip where discharge from the storm sewer during rain events carries urban runoff and sediment into the slip. The storm water discharges may scour the shallow sediments and disperse them throughout the boat slip.

Remediation of the boat slip will require removal or isolation of contaminated loose sediment so that it may no longer migrate due to the use of the boat slip. If the removal of loose sediment exposes deeper contamination, then removal or isolation of that material would be necessary to minimize recontamination of the boat slip.

## **5.3 Soil and Groundwater**

### **5.3.1 PAH in Soils**

A test trench excavation north of the gas building encountered a clay tile pipe oriented northeast toward the former shoreline that contained tarry material. Former gas building discharges were conveyed to the shoreline via this clay tile pipe. Wastewater discharged from the clay pipe apparently resulted in tarry materials accumulating at the discharge point. The tarry material was analyzed using fingerprinting techniques and appeared to be similar to carbureted water gas coal tar found at other sites; low levels of PAH in the vicinity may also be related to urban runoff. Soil borings and test trenches revealed a deposit of tarry material northeast of the gas building and to the east.

The TarGOST borings also confirmed that the highest concentration of tarry material and the thickest deposits occur near the terminus of the clay pipe and towards northeast and east to the railroad tracks. The pattern of TarGOST (**Figure 20**) results suggests that tarry materials originating from the clay pipe discharge area were spread along the former shoreline by waves and currents. Two individual TarGOST borings (TG-07 and LIF-68) produced responses that suggest remnants of tarry materials on the former lake bed. However, the remaining borings (TarGOST and otherwise) did not detect contamination at a depth that may coincide with the former lakebed.

The TarGOST borings completed for this investigation did not reveal tarry materials adjacent to the boat slip.

### **5.3.2 PAH Groundwater Delineation**

The extent of dissolved PAH in groundwater was delineated to the ES criteria as illustrated on **Figures 25A and 25B**. The extent of the dissolved PAH groundwater impacts with concentrations above the ES appears to be similar to the extent of tarry materials delineated by the TarGOST.

Soil and groundwater in the field west of the gas building – where former gas holders were located – contain relatively high concentrations of PAH (and VOC). Based on the proximity of relatively uncontaminated sample locations, they appear isolated and have not significantly migrated most likely because of the low permeability of the clay soil.

### **5.3.3 VOC in Soils**

There appears to be two types of VOC impacts in soils at the Site: a custom blend solvent and the tarry materials. South of the gas building near MW-4, soil and groundwater analyses revealed contaminants that consisted exclusively of VOCs with relatively little PAH. Moreover, the VOC was primarily benzene, with lesser amounts of toluene, ethylbenzene, and xylene. Environmental forensic testing indicated the VOC found south of the gas building appeared to be a blended solvent or degreaser consisting of primarily benzene and toluene with traces of ethylbenzene and xylene. The operational source of the custom solvent and the date it was released in this area have not been determined.

Northeast and east of the former gas building, soil and groundwater analyses revealed commingled PAH and VOC impacts. The VOC groundwater contamination in this area consists primarily of benzene, with lesser amounts of ethylbenzene, styrene, toluene, trimethylbenzenes, and xylene. The historical sources of VOCs appear to now be commingled. In addition, petroleum hydrocarbons from a 12,000-gallon fuel oil aboveground storage tank used by the MGP may have impacted soil or groundwater. Fingerprinting results indicated an unresolved complex petroleum mixture exhibiting a pattern similar to heavy oil but commingled with other materials.

### **5.3.4 VOC Delineation**

The VOC custom solvent impacts located south of the MGP near MW-4 have been delineated using soil sampling, MIP investigation, and groundwater sampling. The VOCs appear to be isolated south of East 1<sup>st</sup> Street and have not significantly migrated, most likely because they were found in clay soil.

The majority of VOC soil and groundwater impacts were found commingled with PAH contaminants. The soil and groundwater VOC impacts have been delineated to the northeast, east, and southeast of the former MGP. Benzene is the most frequently detected VOC at the Site. The extent of benzene in groundwater at concentrations above the ES is illustrated on **Figures 24A and 24B**.

#### **5.4 Contaminant Migration**

The distribution and orientation of the tarry materials identified by the TarGOST screening tool appear to have been influenced by the former bay location and original shoreline, historic wave action along the original shoreline, the former railroad track trestle/causeway, filling along the shoreline, and dredging operations that changed the shape of the shoreline. The MGP discharge pipe deposited wastewater between the shoreline and railroad causeway, and the resultant tarry material was likely reworked by wave action and shoreline currents. This created the elongated deposit found today along the former shoreline. The contamination encountered at the City of Superior wastewater treatment plant was probably the result of redistributing fill, including the lime material prevalent in the area, to create the land area for the plant.

The MGP residue does not appear to be mobile DNAPL, but may be a source of dissolved PAH and VOC in the groundwater. The tarry material appears to be adsorbed to the soil matrix where it was historically deposited based on the following observations:

- The tarry material was found within the fill material and has not migrated downward to the clay basal unit or to other lower permeable material in most locations.
- DNAPL has not accumulated in monitoring wells completed within the tarry deposit (such as wells MW-7 or MW-8).
- The tarry material deposit does not follow groundwater flow direction and appears to be located where it was historically deposited.
- The tarry material deposit does not appear to be migrating.

Dissolved VOC and PAH are present downgradient from the former shoreline area, migrating with groundwater through an aquifer that consists of fill materials. Other isolated areas of PAH and VOC, such as near the former gas holders, do not appear to be migrating due to the clay soils at those locations. Due to the concentrations of VOC found in Site soils and groundwater, vapor intrusion is still a concern to be considered if future Site use changes. New construction, particularly for occupied buildings, would benefit from the inclusion of vapor barriers, sub-slab venting systems, or other mitigation controls.

## 6.0 SUMMARY

This report presents the results of a supplemental investigation performed at the Site in 2016 and 2017, building on prior years of investigation and response activities. The investigation consisted of installing sonic, Geoprobe, and TarGOST borings, installing monitoring wells and vapor pins, collecting soil, boat slip sediment, groundwater, and sub-slab vapor samples. The investigation successfully characterized VOC and PAH concentrations within the boat slip sediments; completed the three-dimensional delineation of groundwater VOC and PAH impacts at the Site; and provided sub-slab soil gas data to assess vapor intrusion.

In summary, the following supplemental investigative activities have been completed to date:

- Installed 4 monitoring wells including one in a deeper water-bearing zone and collected two rounds of groundwater samples from all 24 wells on-Site. This work completed the three-dimensional groundwater plume definition.
- Advanced 18 Geoprobe soil borings near wells MW-3 and MW-4 and collected 54 soil samples for laboratory analyses. These data and prior soil sampling results will be used to determine the limits of potential “hot spot” excavations around the two wells.
- Completed 30 TarGOST laser induced fluorescence direct sensing borings to delineate tarry material near the boat slip and guide the placement of sonic soil borings.
- Advanced 11 sonic soil borings adjacent to the boat slip and collected 37 soil samples for laboratory analyses to characterize soil that may be contributing to sediment contamination.
- Collected 56 sediment samples from 25 sediment borings in the boat slip to characterize the sediment.
- Collected two rounds of vapor samples from 9 vapor pin installations to assess vapor intrusion.

The boat slip sediment data from this investigation and from prior investigations including the 2015 investigation conducted by USEPA has identified sediment containing primarily PAH and to a lesser extent metals concentrations above WDNR’s sediment quality guidelines throughout the boat slip. The highest concentrations of PAH were found nearest to the head of the boat slip. The sediment at the head of the boat slip is a continuing source of contamination to other sediments due to the resuspension and re-deposition of sediments that occurs when the slip is used by coal delivery boats.

Groundwater and the basal clay soil both flow/slope towards the northeast and east-northeasterly. The hydraulic gradient is relatively steep in the southern portion of the Site in the soils with the lowest hydraulic conductivity (clay), and the hydraulic gradient is relatively flat in the northern portion of the Site near Superior Bay (sandy soil). No dense or light non-aqueous phase liquids were measured in the monitoring wells during the groundwater sampling events.

The results of this investigation and previous investigations have delineated the PAH impacts at the Site. Investigations and remedial excavations north of the gas building encountered a clay tile pipe oriented northeast toward the former shoreline that contained tarry material. Wastewater discharged from the clay pipe may have resulted in tarry materials accumulating in the area located between the former shoreline and the railroad track. Using the TarGOST, the extent of the tarry material was delineated and the dimensions were determined to be approximately 1,500-feet by 200-feet, aligned along the historic Superior Bay shoreline. The extent of dissolved PAH in groundwater was also delineated to the ES criteria and appears to be similar to the location of tarry materials delineated by the TarGOST. Isolated areas of the Site near the former gas holders also contain concentrations of PAH above soil and groundwater criteria; however, contaminants do not appear to have migrated laterally very far through the low-permeability clay soil.

The VOC soil and groundwater impacts at the Site were also delineated to ES and RCL criteria. The VOC custom solvent impacts located south of the MGP are isolated and distinct from the VOC contamination located downgradient of the MGP. Analytical results revealed that the custom solvent contamination area does not contain any significant PAH and it has not significantly migrated most likely because it is found in clay soil. The majority of VOC soil and groundwater impacts were found commingled with the tarry material and PAH located northeast, east, and southeast of the former MGP. Benzene was the most frequently detected VOC at the Site. The benzene contamination appears to be migrating towards Superior Bay and the WWTP pond at concentrations above the ES. Benzene migration from groundwater to surface water would be effected by the significant dilution in Superior Bay.

Sub-slab vapor samples did not indicate VOC concentrations above WDNR industrial vapor screening levels in the three storage buildings sampled during this investigation. Vapor intrusion may still be a concern if new buildings are constructed for occupancy on-Site sometime in the future.

The site conceptual site model revealed that the shape and orientation of the tarry MGP material appear to be influenced by orientation of the Superior Bay shoreline prior to 1904 when the MGP was operating, and by historic wave action along the former shoreline, filling along the shoreline, and/or dredging operations. The tarry materials do not appear to be migrating.

Following discussion of this supplemental site investigation with WDNR, a remediation plan will be prepared and submitted.

## 7.0 REFERENCES

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**Tables**

**Table 1. Monitoring Well Information  
Superior MGP Site**

<b>Well ID</b>	<b>Ground Surface Elevation*</b>	<b>Measuring Point Elevation</b>	<b>Screen Bottom Depth**</b>	<b>Top of Screen Elevation</b>	<b>Bottom of Screen Elevation</b>	<b>Comments***</b>
MW-1	616.2	619.11	17	612.11	599.2	Stickup
MW-2	614.2	617.15	17	610.15	597.2	Stickup
MW-3	613.9	617.07	17	610.07	596.9	Riser pipe damaged, unable to sample.
MW-4	614	617.11	17	610.11	597	Stickup
MW-5	610.1	612.4	17	605.4	593.1	Stickup
MW-6	611.4	613.74	17.5	606.24	593.9	Stickup
MW-7	612.3	614.91	17	607.91	595.3	Stickup
MW-8	612	615.17	17	608.17	595	Stickup
MW-9	608.7	611.38	17	604.38	591.7	Stickup
MW-10	606.5	606.08	13	603.08	593.5	Flush mount
MW-11	607	609.89	14	605.89	593	Stickup
MW-12	607.9	607.64	18	599.64	589.9	Flush mount
MW-13	613.56	616.26	15	611.26	598.56	Stickup
MW-14	614.06	617.27	18	609.27	596.06	Stickup
MW-15	609.06	608.95	18	600.95	591.06	Flush mount
MW-16	610.03	613.11	15	608.11	595.03	Stickup
MW-17	608.48	610.93	15	605.93	593.48	Stickup
MW-18	606.4	606.42	12	604.42	594.4	Abandoned 10/8/2010
MW-19	606.82	606.77	12	604.77	594.82	Abandoned 10/8/2010
MW-20	605.91	605.43	15	600.43	590.91	Flush mount
MW-21	609.59	612.57	15	607.57	594.59	Stickup
MW-22	607.5	610.55	15	605.55	592.5	Stickup
MW-23	605.95	605.74	15	600.74	590.95	Flush mount
MW-24	605.55	605.41	30	580.41	575.55	Flush mount
MW-25	605.84	605.45	15	600.45	590.84	Flush mount
MW-26	612.63	614.26	90	534.26	522.63	Stickup, Deep Aquifer

\*All Elevations are recorded in feet above mean sea level.

\*\*All depths are recorded as depth below ground surface.

\*\*\*All wells are constructed with two-inch PVC screens and risers.

**Table 2  
Groundwater Elevations**

<b>Well ID</b>	<b>Q1 Depth to Water** January 2017</b>	<b>Q2 Depth to Water April 2017</b>	<b>Q1 Groundwater Elevation January 2017</b>	<b>Q2 Groundwater Elevation April 2017</b>	<b>Comments***</b>
MW-1	5.78	4.05	613.33	615.06	Stickup
MW-2	6.75	4.44	610.4	612.71	Stickup
MW-3	---	---	---	---	Riser pipe damaged, unable to sample.
MW-4	6.65	5.85	610.46	611.26	Stickup
MW-5	10.08	7.61	602.32	604.79	Stickup
MW-6	9.89	7.66	603.85	606.08	Stickup
MW-7	11.97	10.24	602.94	604.67	Stickup
MW-8	12.05	10.61	603.12	604.56	Stickup
MW-9	8.68	7.63	602.7	603.75	Stickup
MW-10	3.72	2.86	602.36	603.22	Flush mount
MW-11	7.37	7	602.52	602.89	Stickup
MW-12	5.19	4.88	602.45	602.76	Flush mount
MW-13	5.28	4.85	610.98	611.41	Stickup
MW-14	9.33	8.46	607.94	608.81	Stickup
MW-15	6.4	6.2	602.55	602.75	Flush mount
MW-16	10.49	10.31	602.62	602.8	Stickup
MW-17	8.05	7.4	602.88	603.53	Stickup
MW-18	---	---	---	---	Abandoned 10/8/2010
MW-19	---	---	---	---	Abandoned 10/8/2010
MW-20	3	2.71	602.43	602.72	Flush mount
MW-21	9.62	8.81	602.95	603.76	Stickup
MW-22	7.59	5.74	602.96	604.81	Stickup
MW-23	3.4	2.69	602.34	603.05	Flush mount
MW-24	3.08	2.68	602.33	602.73	Flush mount
MW-25	2.87	1.42	602.58	604.03	Flush mount
MW-26	8.82	7.78	605.44	606.48	Stickup, Deep Aquifer

\*All Elevations are recorded in feet above mean sea level.

\*\*All depths are recrded as depth below measureing point.

\*\*\*All wells are constructed with two-inch PVC screens and risers.

**Table 3**  
**Summary of Shallow Soil Analytical Results**

Parameters	ISDC RCL*	Units	Sonic Boring Samples								
			Boring Type	Adjacent to Boat Slip						Deep Boring	
				Boring Location	SB01_1-4	SB04_2.5-5	SB05_2.5-5	SB06_2-4	SB08_2-4	SB08_2-4DUP	SB07_1-1.5
					Sample ID	12/12/16	12/13/16	12/14/16	12/14/16	12/15/16	12/15/16
Sample Date											
<b>PAHs</b>											
Benzo(a)pyrene	211	ug/kg	300	45.9	8.1	58	144	305	20,900		
Acenaphthene	33,000,000	ug/kg	<1.6	<3.0	6.6	11.5	12.3	24.4	91.9		
Acenaphthylene	---	ug/kg	9	<2.1	<0.98	6.7	29.1	35.5	3,730		
Anthracene	100,000,000	ug/kg	44.5	<3.4	<1.6	17.2	35.5	121	1,940		
Benzo(a)anthracene	2,100	ug/kg	368	51.4	6.7	71.3	133	291	24,500		
Benzo(b)fluoranthene	2,110	ug/kg	293	65.5	16.8	84.4	158	355	31,100		
Benzo(g,h,i)perylene	---	ug/kg	136	41.9	11.8	38.5	110	192	12,400		
Benzo(k)fluoranthene	21,100	ug/kg	129	19.9	<1.8	34.7	49.1	132	12,800		
Chrysene	211,000	ug/kg	349	61.8	30.8	74.7	121	258	23,000		
Dibenz(a,h)anthracene	211	ug/kg	48.1	<2.5	<1.2	11.4	30.1	53.7	4,460		
Fluoranthene	22,000,000	ug/kg	439	104	14.2	139	204	583	39,200		
Fluorene	22,000,000	ug/kg	8.9	<2.9	29.2	16.1	14.3	23.1	211		
Indeno(1,2,3-cd)pyrene	2,110	ug/kg	110	25.2	<2.7	28.8	85.8	165	12,600		
Naphthalene	26,000	ug/kg	60.3	94.1	84.8	125	17.4	21.5	402		
Phenanthrene	---	ug/kg	205	144	104	169	137	336	5,590		
Pyrene	16,500,000	ug/kg	837	86.7	15.7	114	212	491	29,500		
<b>VOCs</b>											
1,1,1,2-Tetrachloroethane	12,900	ug/kg	<23.2	<23.5	<22.9	<22.4	<22.4	<21.6	<31.9		
1,1,1-Trichloroethane	640,000	ug/kg	<24.5	<24.8	<24.1	<23.6	<23.6	<22.8	<33.7		
1,1,2-Trichloroethane	7,340	ug/kg	<12.6	<12.8	<12.5	<12.2	<12.2	<11.8	<17.4		
1,1,2-Trichlorotrifluoroethane	910,000	ug/kg	<140	<142	<138	<135	<136	<131	<193		
1,1-Dichloroethane	3,030	ug/kg	<22.7	<23.1	<22.4	<21.9	<21.9	<21.1	<31.3		
1,1-Dichloroethene	1,190,000	ug/kg	<14.9	<15.1	<14.7	<14.3	<14.4	<13.8	<20.5		
1,2,3-Trichlorobenzene	818,000	ug/kg	<16.9	<17.1	<16.6	<16.3	<16.3	<15.7	<23.2		
1,2,4-Trichlorobenzene	98,700	ug/kg	<18.0	<18.3	<17.8	<17.4	<17.4	<16.8	<24.8		
1,2,4-Trimethylbenzene	219,000	ug/kg	85.1	68.1	126	127	25	22.9	59.5		
1,2-Dibromo-3-chloropropane	98.8**	ug/kg	<114	<116	<113	<110	<110	<106	<157		
1,2-Dibromoethane (EDB)	230	ug/kg	<22.0	<22.3	<21.7	<21.2	<21.3	<20.5	<30.3		
1,2-Dichlorobenzene	376,000	ug/kg	<11.3	<11.5	<11.2	<10.9	<10.9	<10.5	<15.6		
1,2-Dichloropropane	6,620	ug/kg	<20.3	<20.6	<20.0	<19.5	<19.6	<18.9	<27.9		
1,3,5-Trimethylbenzene	182,000	ug/kg	<44.8	<45.5	75.3	<43.2	<43.3	<41.7	<61.8		
1,3-Dichlorobenzene	297,000	ug/kg	<17.2	<17.5	<17.0	<16.6	<16.6	<16.0	<23.7		
1,3-Dichloropropane	1,490,000	ug/kg	<69.8	<70.8	<68.8	<67.3	<67.4	<65.0	<96.2		
1,4-Dichlorobenzene	17,500	ug/kg	<56.5	<57.4	<55.8	<54.5	<54.6	<52.6	<77.9		
2,2-Dichloropropane	191,000	ug/kg	<62.0	<62.9	<61.2	<59.8	<59.9	<57.7	<85.4		
2-Butanone (MEK)	28,400,000	ug/kg	<257	<261	<254	<248	<249	<239	<355		
4-Methyl-2-pentanone (MIBK)	3,360,000	ug/kg	<129	<131	<127	<124	<125	<120	<178		
Acetone	100,000,000	ug/kg	<1,280	<1,300	<1,260	<1,230	<1,240	<1,190	<1,760		
Allyl chloride	4,850	ug/kg	<167	<170	<165	<161	<162	<156	<230		
Benzene	7,410	ug/kg	54.3	38.5	90.4	49.8	140	102	27		
Bromodichloromethane	1,960	ug/kg	<54.6	<55.4	<53.8	<52.6	<52.7	<50.8	<75.2		
Bromoform	115,000	ug/kg	<168	<171	<166	<162	<162	<156	<232		
Bromomethane	46,000	ug/kg	<198	<201	<195	<191	<191	<184	<272		
Carbon tetrachloride	4,250	ug/kg	<61.2	<62.1	<60.4	<59.0	<59.1	<57.0	<84.3		

**Table 3**  
**Summary of Shallow Soil Analytical Results**

Parameters	ISDC RCL*	Units	Sonic Boring Samples						
			Adjacent to Boat Slip						Deep Boring
			SB01_1-4	SB04_2.5-5	SB05_2.5-5	SB06_2-4	SB08_2-4	SB08_2-4DUP	SB07_1-1.5
			Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
			12/12/16	12/13/16	12/14/16	12/14/16	12/15/16	12/15/16	12/14/16
Chlorobenzene	761,000	ug/kg	<33.9	<34.4	<33.5	<32.7	<32.8	<31.6	<46.7
Chloroform	2,130	ug/kg	<94.7	<96.2	<93.5	<91.4	<91.5	<88.2	<131
Chloromethane	720,000	ug/kg	<94.3	<95.8	<93.1	<91.0	<91.1	<87.8	<130
cis-1,2-Dichloroethene	2,040,000	ug/kg	<72.5	<73.6	<71.5	<69.9	<70.0	<67.5	<99.9
cis-1,3-Dichloropropene	1,210,000	ug/kg	<88.9	<90.2	<87.7	<85.7	<85.9	<82.7	<122
Dibromochloromethane	34,100	ug/kg	<167	<170	<165	<161	<162	<156	<230
Dibromomethane	154,000	ug/kg	<76.0	<77.2	<75.0	<73.3	<73.4	<70.8	<105
Dichlorodifluoromethane	571,000	ug/kg	<59.6	<60.6	<58.8	<57.5	<57.6	<55.5	<82.2
Diethyl ether (Ethyl ether)	10,100,000	ug/kg	<80.3	<81.5	<79.2	<77.4	<77.6	<74.7	<111
Ethylbenzene	37,000	ug/kg	<62.0	<62.9	101	<59.8	<59.9	<57.7	<85.4
Hexachloro-1,3-butadiene	7,450	ug/kg	<183	<186	<181	<177	<177	<171	<252
Isopropylbenzene (Cumene)	268,000	ug/kg	<69.4	<70.4	<68.5	<66.9	<67.0	<64.6	<95.6
Methylene Chloride	1,070,000	ug/kg	<361	<366	<356	<348	<349	<336	<497
Methyl-tert-butyl ether	293,000	ug/kg	<36.5	<37.0	<36.0	<35.2	<35.2	<34.0	<50.3
Naphthalene	26,000	ug/kg	60.3	94.1	84.8	125	17.4	21.5	402
n-Butylbenzene	108,000	ug/kg	<47.2	<47.9	<46.5	<45.5	<45.6	<43.9	<65.0
p-Isopropyltoluene	162,000	ug/kg	<32.4	<32.8	<31.9	<31.2	<31.3	<30.1	<44.6
sec-Butylbenzene	145,000	ug/kg	<46.0	<46.7	<45.4	<44.4	<44.4	<42.8	<63.4
Styrene	867,000	ug/kg	<50.7	<51.4	<50.0	<48.9	<49.0	<47.2	<69.8
tert-Butylbenzene	183,000	ug/kg	<61.6	<62.5	<60.8	<59.4	<59.5	<57.3	<84.9
Tetrachloroethene	153,000	ug/kg	<74.5	<75.6	<73.5	<71.8	<71.9	<69.3	<103
Tetrahydrofuran	100,000,000	ug/kg	<967	<981	<954	<932	<934	<900	<1,330
Toluene	818,000	ug/kg	204	151	391	231	125	131	<85.4
trans-1,2-Dichloroethene	1,850,000	ug/kg	<93.9	<95.4	<92.7	<90.6	<90.7	<87.4	<129
trans-1,3-Dichloropropene	1,510,000	ug/kg	<66.3	<67.3	<65.4	<63.9	<64.0	<61.7	<91.3
Trichloroethene	8,810	ug/kg	<55.7	<56.6	<55.0	<53.8	<53.8	<51.9	<76.8
Trichlorofluoromethane	1,230,000	ug/kg	<196	<199	<193	<189	<189	<182	<270
Vinyl chloride	2,030	ug/kg	<25.0	<25.4	<24.7	<24.1	<24.2	<23.3	<34.5
Xylene (Total)	260,000	ug/kg	335	233	489	409	<151	<145	<215
<b>Wisconsin DNR Soil Industrial Direct Contact RCL Worksheet Value</b>									
Individual Exceedance	0		2	1	1	1	1	2	6
Hazard Quotient (HQ)	1		0.0286	0.029	0.0285	0.0278	0.0275	0.0265	0.043
Cancer Risk (CR)	1.E-05		3.5E-06	1.8E-06	1.5E-06	1.8E-06	2.4E-06	3.4E-06	1.6E-04

\*Industrial Soils Direct Contact Soil Residual Contaminant Level (DNR)

**Bold**=Exceedance of Industrial Soil Direct Contact RCL

\*\*Detection limit exceeded the direct contact criterion

RCI Values extracted from the Wisconsin DNR Soil RCI Worksheet.

**Table 3**  
**Summary of Shallow Soil Analytical Results**

Parameters	ISDC RCL*	Units	Boring Type		Geoprobe Samples								
			Boring Location		MW-4 Area								
			Sample ID		GP1_3-5	GP2_3-5	GP3_0-4	GP4_3-5	GP6_3-5	GP7_3-5	GP8_3-5	GP9_3-5	GP10_3-5
			Sample Date		12/12/16	12/12/16	12/12/16	12/12/16	12/12/16	12/12/16	12/12/16	12/12/16	12/13/16
<b>PAHs</b>													
Benzo(a)pyrene	211	ug/kg	16.5	<1.6	10.1	403	<1.6	<1.5	24	7.2	48.2		
Acenaphthene	33,000,000	ug/kg	<1.7	<1.8	<1.7	12.6	<1.8	<1.7	<1.8	<1.8	<1.6		
Acenaphthylene	---	ug/kg	<1.2	<1.2	<1.2	76.6	<1.2	<1.2	<1.2	<1.3	6		
Anthracene	100,000,000	ug/kg	7.9	<2.0	<2.0	73.7	<2.1	<2.0	<2.1	<2.1	9.1		
Benzo(a)anthracene	2,100	ug/kg	15.8	<2.1	8.3	419	<2.1	<2.1	27.8	<2.2	46		
Benzo(b)fluoranthene	2,110	ug/kg	16.5	<2.6	13	525	<2.6	<2.5	46.7	8	54.1		
Benzo(g,h,i)perylene	---	ug/kg	12.9	<2.1	9.8	293	<2.1	<2.0	21.8	8	29.2		
Benzo(k)fluoranthene	21,100	ug/kg	10.3	<2.2	7.1	269	<2.2	<2.2	24.1	<2.3	34.2		
Chrysene	211,000	ug/kg	17.1	<2.5	14.2	443	<2.5	<2.5	33.1	7.7	49.4		
Dibenz(a,h)anthracene	211	ug/kg	<1.5	<1.5	<1.4	79	<1.5	<1.5	6.8	<1.5	7.8		
Fluoranthene	22,000,000	ug/kg	34.4	<3.5	16	781	<3.5	<3.5	69	14.1	77.5		
Fluorene	22,000,000	ug/kg	<1.7	<1.7	<1.7	16.9	<1.7	<1.7	<1.7	<1.8	<1.6		
Indeno(1,2,3-cd)pyrene	2,110	ug/kg	7.4	<3.4	<3.2	270	<3.4	<3.3	20.2	<3.5	24.7		
Naphthalene	26,000	ug/kg	<1.6	<1.6	<1.5	32.4	<1.6	<1.6	21.6	<1.7	4.7		
Phenanthrene	---	ug/kg	23.8	<1.8	<1.7	244	<1.8	<1.8	34.3	8.8	26.2		
Pyrene	16,500,000	ug/kg	29.2	<3.7	13.9	694	<3.7	<3.7	54	13.6	76.2		
<b>VOCs</b>													
1,1,1,2-Tetrachloroethane	12,900	ug/kg	<26.7	<26.1	<26.8	<42.7	<27.8	<26.8	<30.7	<31.0	<24.0		
1,1,1-Trichloroethane	640,000	ug/kg	<28.1	<27.6	<28.3	<45.0	<29.3	<28.3	<32.4	<32.7	<25.4		
1,1,2-Trichloroethane	7,340	ug/kg	<14.5	<14.2	<14.6	<23.3	<15.2	<14.6	<16.8	<16.9	<13.1		
1,1,2-Trichlorotrifluoroethane	910,000	ug/kg	<161	<158	<162	<258	<168	<162	<186	<188	<145		
1,1-Dichloroethane	3,030	ug/kg	<26.1	<25.6	<26.2	<41.8	<27.2	<26.3	<30.1	<30.4	<23.5		
1,1-Dichloroethene	1,190,000	ug/kg	<17.1	<16.7	<17.2	<27.4	<17.8	<17.2	<19.7	<19.9	<15.4		
1,2,3-Trichlorobenzene	818,000	ug/kg	<19.4	<19.0	<19.5	<31.0	<20.2	<19.5	<22.4	<22.5	<17.5		
1,2,4-Trichlorobenzene	98,700	ug/kg	<20.7	<20.3	<20.8	<33.2	<21.6	<20.9	<23.9	<24.1	<18.7		
1,2,4-Trimethylbenzene	219,000	ug/kg	<14.8	<14.5	<14.9	<23.7	<15.4	<14.9	597	<17.2	<13.3		
1,2-Dibromo-3-chloropropane	98.8**	ug/kg	<131	<129	<132	<210	<137	<132	<151	<153	<118		
1,2-Dibromoethane (EDB)	230	ug/kg	<25.3	<24.8	<25.4	<40.5	<26.4	<25.5	<29.2	<29.4	<22.8		
1,2-Dichlorobenzene	376,000	ug/kg	<13.0	<12.7	<13.1	<20.8	<13.6	<13.1	<15.0	<15.1	<11.7		
1,2-Dichloropropane	6,620	ug/kg	<23.3	<22.8	<23.4	<37.3	<24.3	<23.4	<26.9	<27.1	<21.0		
1,3,5-Trimethylbenzene	182,000	ug/kg	<51.6	<50.5	<51.8	<82.5	<53.8	<51.9	601	<59.9	<46.5		
1,3-Dichlorobenzene	297,000	ug/kg	<19.8	<19.4	<19.9	<31.7	<20.6	<19.9	<22.8	<23.0	<17.8		
1,3-Dichloropropane	1,490,000	ug/kg	<80.3	<78.6	<80.6	<128	<83.7	<80.8	<92.5	<93.3	<72.3		
1,4-Dichlorobenzene	17,500	ug/kg	<65.0	<63.7	<65.3	<104	<67.8	<65.4	<75.0	<75.6	<58.6		
2,2-Dichloropropane	191,000	ug/kg	<71.3	<69.8	<71.6	<114	<74.3	<71.8	<82.2	<82.9	<64.2		
2-Butanone (MEK)	28,400,000	ug/kg	<296	<290	<297	<474	<309	<298	<341	<344	<267		
4-Methyl-2-pentanone (MIBK)	3,360,000	ug/kg	<148	<145	<149	<238	<155	<149	<171	<173	<134		
Acetone	100,000,000	ug/kg	<1,470	<1,440	<1,480	<2,350	<1,530	<1,480	<1,700	<1,710	<1,320		
Allyl chloride	4,850	ug/kg	<192	<188	<193	<308	<201	<194	<222	<224	<173		
Benzene	7,410	ug/kg	28.2	50.6	21.2	939	214	<19.5	366,000	114	59.9		
Bromodichloromethane	1,960	ug/kg	<62.8	<61.5	<63.0	<100	<65.4	<63.2	<72.4	<73.0	<56.5		
Bromoform	115,000	ug/kg	<193	<189	<194	<309	<201	<194	<223	<225	<174		
Bromomethane	46,000	ug/kg	<227	<223	<228	<364	<237	<229	<262	<264	<205		
Carbon tetrachloride	4,250	ug/kg	<70.4	<68.9	<70.7	<113	<73.4	<70.8	<81.2	<81.8	<63.4		

**Table 3**  
**Summary of Shallow Soil Analytical Results**

Boring Type Boring Location			Geoprobe Samples								
			MW-4 Area								
Parameters	ISDC RCL*	Units	GP1_3-5	GP2_3-5	GP3_0-4	GP4_3-5	GP6_3-5	GP7_3-5	GP8_3-5	GP9_3-5	GP10_3-5
			12/12/16	12/12/16	12/12/16	12/12/16	12/12/16	12/12/16	12/12/16	12/12/16	12/12/16
Chlorobenzene	761,000	ug/kg	<39.0	<38.2	<39.2	<62.4	<40.7	<39.3	<45.0	<45.4	<35.1
Chloroform	2,130	ug/kg	<109	<107	<109	<174	<114	<110	<126	<127	<98.2
Chloromethane	720,000	ug/kg	<109	<106	<109	<174	<113	<109	<125	<126	<97.7
cis-1,2-Dichloroethene	2,040,000	ug/kg	<83.4	<81.7	<83.8	<133	<87.0	<83.9	<96.2	<97.0	<75.1
cis-1,3-Dichloropropene	1,210,000	ug/kg	<102	<100	<103	<164	<107	<103	<118	<119	<92.1
Dibromochloromethane	34,100	ug/kg	<192	<188	<193	<308	<201	<194	<222	<224	<173
Dibromomethane	154,000	ug/kg	<87.4	<85.6	<87.8	<140	<91.2	<88.0	<101	<102	<78.8
Dichlorodifluoromethane	571,000	ug/kg	<68.6	<67.2	<68.9	<110	<71.5	<69.0	<79.1	<79.8	<61.8
Diethyl ether (Ethyl ether)	10,100,000	ug/kg	<92.4	<90.5	<92.8	<148	<96.3	<93.0	<106	<107	<83.2
Ethylbenzene	37,000	ug/kg	<71.3	<69.8	<71.6	<114	<74.3	<71.8	2,540	<82.9	<64.2
Hexachloro-1,3-butadiene	7,450	ug/kg	<211	<206	<212	<337	<220	<212	<243	<245	<190
Isopropylbenzene (Cumene)	268,000	ug/kg	<79.8	<78.2	<80.2	<128	<83.2	<80.3	<92.0	<92.8	<71.9
Methylene Chloride	1,070,000	ug/kg	<415	<407	<417	<664	<433	<418	<479	<483	<374
Methyl-tert-butyl ether	293,000	ug/kg	<42.0	<41.1	<42.2	<67.2	<43.8	<42.2	<48.4	<48.8	<37.8
Naphthalene	26,000	ug/kg	<1.6	<1.6	<1.5	32.4	<1.6	<1.6	21.6	<1.7	4.7
n-Butylbenzene	108,000	ug/kg	<54.3	<53.1	<54.5	<86.8	<56.6	<54.6	<62.6	<63.1	<48.9
p-Isopropyltoluene	162,000	ug/kg	<37.2	<36.5	<37.4	<59.6	<38.8	<37.5	<42.9	<43.3	<33.5
sec-Butylbenzene	145,000	ug/kg	<52.9	<51.8	<53.1	<84.7	<55.2	<53.2	<61.0	<61.5	<47.7
Styrene	867,000	ug/kg	<58.3	<57.1	<58.5	<93.3	<60.8	<58.7	160	<67.8	<52.5
tert-Butylbenzene	183,000	ug/kg	<70.9	<69.4	<71.2	<113	<73.9	<71.3	<81.7	<82.4	<63.8
Tetrachloroethene	153,000	ug/kg	<85.6	<83.9	<86.0	<137	<89.3	<86.2	<98.7	<99.6	<77.1
Tetrahydrofuran	100,000,000	ug/kg	<1,110	<1,090	<1,120	<1,780	<1,160	<1,120	<1,280	<1,290	<1,000
Toluene	818,000	ug/kg	<71.3	<69.8	<71.6	<114	<74.3	<71.8	126,000	<82.9	<64.2
trans-1,2-Dichloroethene	1,850,000	ug/kg	<108	<106	<109	<173	<113	<109	<125	<126	<97.3
trans-1,3-Dichloropropene	1,510,000	ug/kg	<76.2	<74.7	<76.6	<122	<79.5	<76.7	<87.9	<88.6	<68.7
Trichloroethene	8,810	ug/kg	<64.1	<62.8	<64.4	<103	<66.9	<64.5	<73.9	<74.5	<57.8
Trichlorofluoromethane	1,230,000	ug/kg	<225	<220	<226	<360	<235	<227	<260	<262	<203
Vinyl chloride	2,030	ug/kg	<28.8	<28.2	<28.9	<46.1	<30.0	<29.0	<33.2	<33.5	<25.9
Xylene (Total)	260,000	ug/kg	<179	<176	<180	<287	<187	<181	35,000	<209	<162
<b>Wisconsin DNR Soil Industrial Direct Contact RCL Worksheet Value</b>											
Individual Exceedance	0		1	1	1	2	1	1	2	1	1
Hazard Quotient (HQ)	1		0.0324	0.0318	0.0326	0.0535	0.0342	0.0327	0.6467	0.0379	0.0293
Cancer Risk (CR)	1.E-05		1.8E-06	1.7E-06	1.7E-06	5.7E-06	1.8E-06	1.7E-06	5.2E-05	2.0E-06	1.8E-06

\*Industrial Soils Direct Contact Soil Residual Contaminant Level (D)

**Bold**=Exceedance of Industrial Soil Direct Contact RCL

\*\*Detection limit exceeded the direct contact criterion

RCI Values extracted from the Wisconsin DNR Soil RCI Worksheet



**Table 3**  
**Summary of Shallow Soil Analytical Results**

Parameters	ISDC RCL*	Units	Geoprobe Samples						
			MW-3 Area						
			GP12_3-5	GP13_3-5	GP14_3-5	GP15_3-5	GP16_3-5	GP17_3-5	GP18_3-5
			12/13/16	12/13/16	12/13/16	12/13/16	12/13/16	12/13/16	12/13/16
<b>PAHs</b>									
Benzo(a)pyrene	211	ug/kg	34,800	317	<1.5	49.1	10,100	23,200	188,000
Acenaphthene	33,000,000	ug/kg	250	86.8	<1.7	9.3	174	25,100	12,300
Acenaphthylene	---	ug/kg	10,800	122	1.3	77.3	3,820	12,800	92,200
Anthracene	100,000,000	ug/kg	1,610	202	<2.0	77.1	1,110	16,300	33,400
Benzo(a)anthracene	2,100	ug/kg	9,200	372	<2.0	48.7	3,970	19,700	183,000
Benzo(b)fluoranthene	2,110	ug/kg	26,500	236	<2.5	38.9	7,630	18,400	153,000
Benzo(g,h,i)perylene	---	ug/kg	19,800	131	<2.0	23	6,990	14,500	111,000
Benzo(k)fluoranthene	21,100	ug/kg	9,340	112	<2.1	18.8	2,960	5,980	47,900
Chrysene	211,000	ug/kg	13,500	324	<2.4	51.3	5,120	17,600	149,000
Dibenz(a,h)anthracene	211	ug/kg	5,290	36.5	<1.4	4.3	1,780	3,670	31,200
Fluoranthene	22,000,000	ug/kg	1,890	634	<3.4	98.7	3,590	28,100	212,000
Fluorene	22,000,000	ug/kg	1,300	143	<1.7	55.1	544	16,500	24,600
Indeno(1,2,3-cd)pyrene	2,110	ug/kg	15,100	95.9	<3.2	16.7	5,050	10,700	81,800
Naphthalene	26,000	ug/kg	29,600	92.4	3.7	203	983	190,000	223,000
Phenanthrene	---	ug/kg	2,370	530	<1.7	229	1,830	56,500	70,000
Pyrene	16,500,000	ug/kg	6,690	852	<3.6	127	5,700	41,100	426,000
<b>VOCs</b>									
1,1,1,2-Tetrachloroethane	12,900	ug/kg	<25.1	<26.8	<24.8	<25.0	<25.2	<25.0	<24.6
1,1,1-Trichloroethane	640,000	ug/kg	<26.5	<28.3	<26.2	<26.4	<26.6	<26.4	<26.0
1,1,2-Trichloroethane	7,340	ug/kg	<13.7	<14.6	<13.5	<13.7	<13.8	<13.6	<13.4
1,1,2-Trichlorotrifluoroethane	910,000	ug/kg	<152	<162	<150	<152	<153	<151	<149
1,1-Dichloroethane	3,030	ug/kg	<24.6	<26.2	<24.3	<24.5	<24.7	<24.5	<24.1
1,1-Dichloroethene	1,190,000	ug/kg	<16.1	<17.2	<15.9	<16.1	<16.2	<16.0	<15.8
1,2,3-Trichlorobenzene	818,000	ug/kg	<18.2	<19.5	<18.1	<18.2	<18.3	<18.2	<17.9
1,2,4-Trichlorobenzene	98,700	ug/kg	<19.5	<20.8	<19.3	<19.5	<19.6	<19.4	<19.1
1,2,4-Trimethylbenzene	219,000	ug/kg	8,210	<14.9	<13.8	378	295	128	83,600
1,2-Dibromo-3-chloropropane	98.8**	ug/kg	<123	<132	<122	<123	<124	<123	<121
1,2-Dibromoethane (EDB)	230	ug/kg	<23.8	<25.4	<23.6	<23.8	<23.9	<23.7	<23.3
1,2-Dichlorobenzene	376,000	ug/kg	<12.2	<13.1	<12.1	<12.2	<12.3	<12.2	<12.0
1,2-Dichloropropane	6,620	ug/kg	<21.9	<23.4	<21.7	<21.9	<22.0	<21.8	<21.5
1,3,5-Trimethylbenzene	182,000	ug/kg	2,640	<51.8	<48.0	120	113	54.9	27,700
1,3-Dichlorobenzene	297,000	ug/kg	<18.6	<19.9	<18.4	<18.6	<18.7	<18.5	<18.3
1,3-Dichloropropane	1,490,000	ug/kg	<75.5	<80.6	<74.8	<75.4	<75.9	<75.2	<74.0
1,4-Dichlorobenzene	17,500	ug/kg	<61.1	<65.3	<60.6	<61.1	<61.5	<60.9	<60.0
2,2-Dichloropropane	191,000	ug/kg	<67.0	<71.6	<66.4	<66.9	<67.4	<66.8	<65.7
2-Butanone (MEK)	28,400,000	ug/kg	<278	<297	<276	<278	<280	<277	<273
4-Methyl-2-pentanone (MIBK)	3,360,000	ug/kg	<140	<149	<138	<139	<140	<139	<137
Acetone	100,000,000	ug/kg	<1,380	<1,480	<1,370	<1,380	<1,390	<1,380	<1,360
Allyl chloride	4,850	ug/kg	<181	<193	<179	<181	<182	<180	<177
Benzene	7,410	ug/kg	3,460	68	<18.0	5,200	1,850	1,210	61,600
Bromodichloromethane	1,960	ug/kg	<59.0	<63.1	<58.5	<58.9	<59.4	<58.8	<57.9
Bromoform	115,000	ug/kg	<182	<194	<180	<181	<183	<181	<178
Bromomethane	46,000	ug/kg	<214	<228	<212	<213	<215	<213	<210
Carbon tetrachloride	4,250	ug/kg	<66.2	<70.7	<65.6	<66.1	<66.6	<65.9	<64.9

**Table 3**  
**Summary of Shallow Soil Analytical Results**

Parameters	ISDC RCL*	Units	Geoprobe Samples						
			MW-3 Area						
			GP12_3-5	GP13_3-5	GP14_3-5	GP15_3-5	GP16_3-5	GP17_3-5	GP18_3-5
			12/13/16	12/13/16	12/13/16	12/13/16	12/13/16	12/13/16	12/13/16
Chlorobenzene	761,000	ug/kg	<36.7	<39.2	<36.3	<36.6	<36.9	<36.5	<36.0
Chloroform	2,130	ug/kg	<102	<109	<101	<102	<103	<102	<100
Chloromethane	720,000	ug/kg	<102	<109	<101	<102	<103	<102	<100
cis-1,2-Dichloroethene	2,040,000	ug/kg	<78.4	<83.8	<77.7	<78.3	<78.9	<78.1	<76.9
cis-1,3-Dichloropropene	1,210,000	ug/kg	<96.1	<103	<95.2	<96.0	<96.7	<95.8	<94.3
Dibromochloromethane	34,100	ug/kg	<181	<193	<179	<181	<182	<180	<177
Dibromomethane	154,000	ug/kg	<82.2	<87.9	<81.4	<82.1	<82.7	<81.9	<80.6
Dichlorodifluoromethane	571,000	ug/kg	<64.5	<68.9	<63.9	<64.4	<64.9	<64.3	<63.3
Diethyl ether (Ethyl ether)	10,100,000	ug/kg	<86.9	<92.8	<86.0	<86.7	<87.4	<86.5	<85.2
Ethylbenzene	37,000	ug/kg	4,520	<71.6	<66.4	303	1,270	225	<b>40,100</b>
Hexachloro-1,3-butadiene	7,450	ug/kg	<198	<212	<196	<198	<199	<197	<194
Isopropylbenzene (Cumene)	268,000	ug/kg	186	<80.2	<74.3	<74.9	<75.5	<74.8	2,150
Methylene Chloride	1,070,000	ug/kg	<390	<417	<387	<390	<393	<389	<383
Methyl-tert-butyl ether	293,000	ug/kg	<39.5	<42.2	<39.1	<39.4	<39.7	<39.3	<38.7
Naphthalene	26,000	ug/kg	<b>29,600</b>	92.4	3.7	203	983	<b>190,000</b>	<b>223,000</b>
n-Butylbenzene	108,000	ug/kg	222	<54.5	<50.5	<50.9	<51.3	<50.8	3,210
p-Isopropyltoluene	162,000	ug/kg	142	<37.4	<34.7	<34.9	<35.2	<34.9	1,830
sec-Butylbenzene	145,000	ug/kg	68.4	<53.2	<49.3	<49.7	<50.0	<49.6	826
Styrene	867,000	ug/kg	<54.8	<58.6	<54.3	<54.7	67.9	120	75400
tert-Butylbenzene	183,000	ug/kg	1,300	<71.2	<66.0	<66.5	<67.0	<66.4	<65.3
Tetrachloroethene	153,000	ug/kg	<80.5	<86.0	<79.8	<80.4	<81.0	<80.2	<79.0
Tetrahydrofuran	100,000,000	ug/kg	<1,050	<1,120	<1,040	<1,040	<1,050	<1,040	<1,030
Toluene	818,000	ug/kg	3,410	<71.6	<66.4	251	2,030	1,080	140,000
trans-1,2-Dichloroethene	1,850,000	ug/kg	<102	<109	<101	<101	<102	<101	<99.7
trans-1,3-Dichloropropene	1,510,000	ug/kg	<71.7	<76.6	<71.0	<71.6	<72.1	<71.4	<70.3
Trichloroethene	8,810	ug/kg	<60.3	<64.4	<59.7	<60.2	<60.6	<60.1	<59.1
Trichlorofluoromethane	1,230,000	ug/kg	<212	<226	<210	<211	<213	<211	<208
Vinyl chloride	2,030	ug/kg	<27.1	<28.9	<26.8	<27.0	<27.2	<27.0	<26.5
Xylene (Total)	260,000	ug/kg	23,700	<180	<167	1,340	1,540	617	255,000
<b>Wisconsin DNR Soil Industrial Direct Contact RCL Worksheet Value</b>									
Individual Exceedance	0		7	2	1	1	6	7	10
Hazard Quotient (HQ)	1		0.099	0.0328	0.0302	0.0405	0.0365	0.2563	0.7202
Cancer Risk (CR)	1.E-05		<b>2.2E-04</b>	3.7E-06	1.6E-06	2.6E-06	<b>6.6E-05</b>	<b>1.6E-04</b>	<b>1.3E-03</b>

\*Industrial Soils Direct Contact Soil Residual Contaminant Level (D)

**Bold**=Exceedance of Industrial Soil Direct Contact RCL

\*\*Detection limit exceeded the direct contact criterion

RCL Values extracted from the Wisconsin DNR Soil RCL Worksheet

**Table 4**  
**Summary of Deep Soil Analytical Results**

Boring Type Boring Location Sample ID Sample Date			Sonic Boring Samples							
			Adjacent to Boat Slip							
			SB01_12-15 12/12/16	SB01_17.5-20 12/12/16	SB02_8-10 12/13/16	SB02_15-20 12/13/16	SB03_5-7 12/13/16	SB03_10-13 12/13/16	SB04_5-6 12/13/16	SB05_5-6 12/14/16
Parameters	GW RCLs	Units								
<b>PAHs</b>										
Acenaphthene	---	---	6	11.2	<1.8	<1.8	<1.8	<1.7	26	357
Acenaphthylene	---	---	8.6	<1.4	<1.3	<1.3	<1.3	<1.2	13	<1.0
Anthracene	196,949	ug/kg	10.8	9.3	<2.1	<2.1	<2.1	16.2	28	739
Benzo(a)anthracene	---	---	53.8	12.5	<2.2	<2.2	<2.2	103	112	614
Benzo(a)pyrene	470	ug/kg	69.3	20.2	<1.6	<1.6	<1.6	123	66.2	540
Benzo(b)fluoranthene	479	ug/kg	59.9	16.2	<2.6	<2.6	<2.7	101	108	622
Benzo(g,h,i)perylene	---	---	46.6	12.9	<2.1	<2.1	<2.2	73	35.6	271
Benzo(k)fluoranthene	---	---	22.9	7.8	<2.3	<2.3	<2.3	38.1	35	295
Chrysene	145	ug/kg	55.3	15.4	<2.6	<2.6	<2.6	72.6	72.1	610
Dibenz(a,h)anthracene	---	---	10.7	2.1	<1.5	<1.5	<1.5	14.8	12.7	85.2
Fluoranthene	88,878	ug/kg	37	21.4	<3.6	<3.6	<3.7	132	515	1,990
Fluorene	14,830	ug/kg	4.6	<1.9	<1.8	<1.8	<1.8	<1.6	26.8	380
Indeno(1,2,3-cd)pyrene	---	---	30.6	8.8	<3.5	<3.4	<3.5	53.5	30.2	255
Naphthalene	658	ug/kg	3.2	<1.8	<1.7	<1.6	<1.7	<1.5	52.6	403
Phenanthrene	---	---	10.4	21	<1.9	<1.9	<1.9	20.7	105	2,240
Pyrene	54,545	ug/kg	131	29.4	<3.8	<3.8	<3.9	218	349	1,350
<b>VOCs</b>										
1,1,1,2-Tetrachloroethane	53	ug/kg	<27.7	<28.8	<27.5	<26.5	<40.3	<26.1	<23.8	<23.7
1,1,1-Trichloroethane	3.24	ug/kg	<29.3	<30.4	<29.0	<28.0	<42.5	<27.6	<25.1	<25.0
1,1,2,2-Tetrachloroethane	0.16	ug/kg	<15.5	<16.1	<15.4	<14.9	<22.6	<14.7	<13.3	<13.3
1,1,2-Trichloroethane	3.24	ug/kg	<15.1	<15.7	<15.0	<14.5	<22.0	<14.3	<13.0	<12.9
1,1,2-Trichlorotrifluoroethane	---	---	<168	<174	<166	<161	<244	<158	<144	<144
1,1-Dichloroethane	---	---	<27.2	<28.2	<26.9	<26.0	<39.5	<25.6	<23.3	<23.2
1,1-Dichloroethene	---	---	<17.8	<18.5	<17.6	<17.0	<25.8	<16.8	<15.3	<15.2
1,1-Dichloropropene	---	---	<21.2	<21.9	<20.9	<20.2	<30.7	<19.9	<18.1	<18.1
1,2,3-Trichlorobenzene	---	---	<20.2	<20.9	<20.0	<19.3	<29.3	<19.0	<17.3	<17.2
1,2,3-Trichloropropane	---	---	<72.6	<75.3	<71.9	<69.4	<105	<68.4	<62.2	<62.0
1,2,4-Trichlorobenzene	---	---	<21.6	<22.4	<21.4	<20.6	<31.3	<20.3	<18.5	<18.4
1,2,4-Trimethylbenzene	1,382	ug/kg	<15.4	<16.0	<15.3	<14.7	<22.4	<14.5	29.8	93.2
1,2-Dibromo-3-chloropropane	---	---	<137	<142	<135	<131	<198	<129	<117	<117
1,2-Dibromoethane (EDB)	---	---	<26.3	<27.3	<26.1	<25.2	<38.2	<24.8	<22.6	<22.5
1,2-Dichlorobenzene	1,168	ug/kg	<13.5	<14.0	<13.4	<12.9	<19.7	<12.8	<11.6	<11.6
1,2-Dichloroethane	483	ug/kg	<22.1	<23.0	<21.9	<21.2	<32.1	<20.9	<19.0	<18.9
1,2-Dichloropropane	3.32	ug/kg	<24.2	<25.1	<24.0	<23.2	<35.2	<22.8	<20.8	<20.7
1,3,5-Trimethylbenzene	1,382	ug/kg	<53.6	<55.6	<53.1	<51.3	<77.9	<50.5	<46.0	<45.9
1,3-Dichlorobenzene	1,153	ug/kg	<20.6	<21.4	<20.4	<19.7	<29.9	<19.4	<17.7	<17.6
1,3-Dichloropropane	---	---	<83.5	<86.6	<82.7	<79.9	<121	<78.7	<71.6	<71.4
1,4-Dichlorobenzene	144	ug/kg	<67.6	<70.2	<67.0	<64.7	<98.2	<63.7	<58.0	<57.8
2,2-Dichloropropane	---	---	<74.2	<76.9	<73.4	<70.9	<108	<69.9	<63.6	<63.4
2-Butanone (MEK)	1,666	ug/kg	<308	<319	<305	<294	<447	<290	<264	<263
2-Chlorotoluene	---	---	<64.4	<66.8	<63.7	<61.6	<93.5	<60.7	<55.2	<55.0
4-Chlorotoluene	---	---	<61.1	<63.4	<60.5	<58.4	<88.7	<57.6	<52.4	<52.2
4-Methyl-2-pentanone (MIBK)	225	ug/kg	<154	<160	<153	<148	<224	<145	<132	<132
Acetone	3,677	ug/kg	<1,530	<1,590	<1,520	<1,460	<2,220	<1,440	<1,310	<1,310
Allyl chloride	---	---	<200	<208	<198	<191	<291	<189	<172	<171
Benzene	5.12	ug/kg	<20.2	<20.9	27.7	<19.3	<29.3	<19.0	<17.3	38.2

**Table 4**  
**Summary of Deep Soil Analytical Results**

Boring Type Boring Location Sample ID Sample Date			Sonic Boring Samples							
			Adjacent to Boat Slip							
			SB01_12-15 12/12/16	SB01_17.5-20 12/12/16	SB02_8-10 12/13/16	SB02_15-20 12/13/16	SB03_5-7 12/13/16	SB03_10-13 12/13/16	SB04_5-6 12/13/16	SB05_5-6 12/14/16
Parameters	GW RCLs	Units								
Bromobenzene	---	---	<59.7	<61.9	<59.1	<57.1	<86.7	<56.3	<51.2	<51.0
Bromochloromethane	---	---	<69.5	<72.1	<68.8	<66.5	<101	<65.5	<59.6	<59.4
Bromodichloromethane	<b>0.33</b>	ug/kg	<65.3	<67.7	<64.7	<62.5	<94.8	<61.5	<56.0	<55.8
Bromoform	<b>2.33</b>	ug/kg	<201	<209	<199	<192	<292	<189	<172	<172
Bromomethane	<b>5.06</b>	ug/kg	<236	<245	<234	<226	<343	<223	<203	<202
Carbon tetrachloride	<b>3.88</b>	ug/kg	<73.2	<76.0	<72.5	<70.0	<106	<69.0	<62.8	<62.6
Chlorobenzene	---	---	<40.6	<42.1	<40.2	<38.8	<58.9	<38.2	<34.8	<34.7
Chloroethane	<b>227</b>	ug/kg	<368	<382	<365	<352	<535	<347	<316	<315
Chloroform	<b>3.33</b>	ug/kg	<113	<118	<112	<108	<165	<107	<97.2	<96.9
Chloromethane	<b>16</b>	ug/kg	<113	<117	<112	<108	<164	<106	<96.8	<96.5
cis-1,2-Dichloroethene	<b>41</b>	ug/kg	<86.8	<90.0	<85.9	<83.0	<126	<81.8	<74.4	<74.2
cis-1,3-Dichloropropene	<b>0.29</b>	ug/kg	<106	<110	<105	<102	<154	<100	<91.2	<90.9
Dibromochloromethane	<b>32</b>	ug/kg	<200	<208	<198	<191	<291	<189	<172	<171
Dibromomethane	<b>0.29</b>	ug/kg	<91.0	<94.4	<90.1	<87.0	<132	<85.7	<78.0	<77.8
Dichlorodifluoromethane	<b>3,086</b>	ug/kg	<71.4	<74.0	<70.7	<68.3	<104	<67.2	<61.2	<61.0
Dichlorofluoromethane	---	---	<639	<663	<633	<611	<928	<602	<548	<546
Diethyl ether (Ethyl ether)	<b>448</b>	ug/kg	<96.1	<99.7	<95.2	<91.9	<140	<90.5	<82.4	<82.1
Ethylbenzene	<b>1,570</b>	ug/kg	<74.2	<76.9	<73.4	<70.9	<108	<69.9	<63.6	<63.4
Hexachloro-1,3-butadiene	---	---	<219	<227	<217	<210	<318	<207	<188	<187
Isopropylbenzene (Cumene)	---	---	<83.0	<86.1	<82.2	<79.4	<121	<78.2	<71.2	<71.0
Methylene Chloride	<b>2.56</b>	ug/kg	<432	<448	<428	<413	<627	<407	<371	<369
Methyl-tert-butyl ether	<b>27</b>	ug/kg	<43.7	<45.3	<43.2	<41.8	<63.4	<41.1	<37.5	<37.3
Naphthalene (VOC)	<b>658</b>	ug/kg	99	<58.5	<55.9	<54.0	159	<53.2	90.7	427
n-Butylbenzene	---	---	<56.4	<58.5	<55.9	<54.0	<82.0	<53.2	<48.4	<48.2
n-Propylbenzene	---	---	<69.5	<72.1	<68.8	<66.5	<101	<65.5	<59.6	<59.4
p-Isopropyltoluene	---	---	<38.7	<40.2	<38.3	<37.0	<56.2	<36.5	<33.2	<33.1
sec-Butylbenzene	---	---	<55.0	<57.1	<54.5	<52.6	<79.9	<51.9	<47.2	<47.1
Styrene	<b>220</b>	ug/kg	<60.6	<62.9	<60.1	<58.0	<88.1	<57.1	<52.0	<51.8
tert-Butylbenzene	---	---	<73.7	<76.4	<73.0	<70.5	<107	<69.4	<63.2	<63.0
Tetrachloroethene	<b>4.54</b>	ug/kg	<89.1	<92.4	<88.2	<85.2	<129	<84.0	<76.4	<76.2
Tetrahydrofuran	<b>22</b>	ug/kg	<1,160	<1,200	<1,150	<1,110	<1,680	<1,090	<992	<989
Toluene	<b>1,107</b>	ug/kg	<74.2	<76.9	<73.4	<70.9	<108	<69.9	67.1	175
trans-1,2-Dichloroethene	<b>62.6*</b>	ug/kg	<112	<117	<111	<108	<163	<106	<96.4	<96.1
trans-1,3-Dichloropropene	<b>0.29*</b>	ug/kg	<79.3	<82.3	<78.5	<75.8	<115	<74.7	<68.0	<67.8
Trichloroethene	<b>3.58*</b>	ug/kg	<66.7	<69.2	<66.1	<63.8	<96.9	<62.9	<57.2	<57.0
Trichlorofluoromethane		---	<234	<243	<232	<224	<340	<221	<201	<200
Vinyl chloride	<b>0.14*</b>	ug/kg	<29.9	<31.1	<29.7	<28.6	<43.5	<28.2	<25.7	<25.6
Xylene (Total)	<b>3,960</b>	ug/kg	<187	<194	<185	<178	<271	<176	<160	287

**Bold**=Exceedance of Industrial Soil Direct Contact RCL

\*Value of the Standard exceedance the laboratory detection limit.

RCL Values extracted from the Wisconsin DNR Soil RCL Worksheet.

**Table 4**  
**Summary of Deep Soil Analytical Results**

Boring Type Boring Location Sample ID Sample Date			Sonic Boring Samples							
			Adjacent to Boat Slip							
			SB05_6-8 12/14/16	SB05_10-15 12/14/16	SB05_10-15DUP 12/14/16	SB06_8-10 12/14/16	SB06_14-15 12/14/16	SB08_6.5-9 12/15/16	SB08_15-16 12/15/16	SB08_18-20 12/15/16
Parameters	GW RCLs	Units								
<b>PAHs</b>										
Acenaphthene	---	---	<1.8	<1.8	9.4	<1.8	<1.9	1,090	<1.5	<1.9
Acenaphthylene	---	---	<1.2	<1.3	<1.2	<1.2	<1.3	145	<1.1	<1.3
Anthracene	196,949	ug/kg	13.8	8	23.5	<2.1	<2.2	1,930	<1.8	<2.2
Benzo(a)anthracene	---	---	11.1	9.9	18.8	<2.2	<2.2	3,440	<1.8	<2.3
Benzo(a)pyrene	470	ug/kg	9.3	11	18.8	<1.6	<1.7	2,850	<1.4	<1.7
Benzo(b)fluoranthene	479	ug/kg	11.8	11.9	22.9	<2.6	<2.7	3,370	<2.2	<2.8
Benzo(g,h,i)perylene	---	---	<2.1	<2.1	10.5	<2.1	<2.2	1,630	<1.8	<2.2
Benzo(k)fluoranthene	---	---	5.3	<2.3	10.4	<2.3	<2.3	910	<1.9	<2.4
Chrysene	145	ug/kg	10.7	10.4	19.7	<2.5	<2.6	3,050	<2.2	<2.7
Dibenz(a,h)anthracene	---	---	<1.5	<1.5	<1.4	<1.5	<1.6	436	<1.3	<1.6
Fluoranthene	88,878	ug/kg	35.9	23.8	61.7	<3.6	<3.7	8,020	<3.1	<3.8
Fluorene	14,830	ug/kg	<1.7	<1.8	10.8	<1.8	<1.8	1,100	<1.5	<1.8
Indeno(1,2,3-cd)pyrene	---	---	<3.4	<3.5	8.7	<3.4	<3.6	1,410	<2.9	<3.6
Naphthalene	658	ug/kg	7.9	7	13.3	<1.6	<1.7	822	<1.4	<1.7
Phenanthrene	---	---	35.6	20.3	66.2	<1.8	<1.9	8,550	<1.6	<1.9
Pyrene	54,545	ug/kg	23	23.6	42.1	<3.8	<3.9	7,250	<3.2	<4.0
<b>VOCs</b>										
1,1,1,2-Tetrachloroethane	53	ug/kg	<27.8	<41.0	<32.2	<26.1	<47.6	<24.2	<23.8	<29.6
1,1,1-Trichloroethane	3.24	ug/kg	<29.4	<43.2	<34.0	<27.6	<50.3	<25.6	<25.1	<31.2
1,1,2,2-Tetrachloroethane	0.16	ug/kg	<15.6	<23.0	<18.0	<14.6	<26.7	<13.6	<13.3	<16.6
1,1,2-Trichloroethane	3.24	ug/kg	<15.2	<22.3	<17.6	<14.2	<26.0	<13.2	<13.0	<16.1
1,1,2-Trichlorotrifluoroethane	---	---	<169	<248	<195	<158	<288	<147	<144	<179
1,1-Dichloroethane	---	---	<27.3	<40.1	<31.5	<25.6	<46.7	<23.7	<23.3	<29.0
1,1-Dichloroethene	---	---	<17.9	<26.3	<20.7	<16.7	<30.6	<15.5	<15.2	<19.0
1,1-Dichloropropene	---	---	<21.2	<31.2	<24.6	<19.9	<36.3	<18.5	<18.1	<22.5
1,2,3-Trichlorobenzene	---	---	<20.2	<29.8	<23.4	<19.0	<34.6	<17.6	<17.3	<21.5
1,2,3-Trichloropropane	---	---	<72.8	<107	<84.2	<68.3	<125	<63.4	<62.2	<77.3
1,2,4-Trichlorobenzene	---	---	<21.6	<31.9	<25.0	<20.3	<37.0	<18.9	<18.5	<23.0
1,2,4-Trimethylbenzene	1,382	ug/kg	<15.5	<22.8	<17.9	<14.5	<26.5	412	<13.2	<16.4
1,2-Dibromo-3-chloropropane	---	---	<137	<202	<159	<129	<235	<119	<117	<146
1,2-Dibromoethane (EDB)	---	---	<26.4	<38.9	<30.6	<24.8	<45.2	<23.0	<22.6	<28.1
1,2-Dichlorobenzene	1,168	ug/kg	<13.6	<20.0	<15.7	<12.7	<23.2	<11.8	<11.6	<14.4
1,2-Dichloroethane	483	ug/kg	<22.2	<32.7	<25.7	<20.8	<38.0	<19.3	<19.0	<23.6
1,2-Dichloropropane	3.32	ug/kg	<24.3	<35.8	<28.1	<22.8	<41.6	<21.2	<20.8	<25.8
1,3,5-Trimethylbenzene	1,382	ug/kg	<53.8	<79.2	<62.3	<50.5	<92.1	<46.9	<46.0	<57.2
1,3-Dichlorobenzene	1,153	ug/kg	<20.7	<30.4	<23.9	<19.4	<35.4	<18.0	<17.6	<21.9
1,3-Dichloropropane	---	---	<83.8	<123	<96.9	<78.6	<143	<73.0	<71.5	<89.0
1,4-Dichlorobenzene	144	ug/kg	<67.9	<99.9	<78.5	<63.7	<116	<59.1	<58.0	<72.1
2,2-Dichloropropane	---	---	<74.4	<110	<86.1	<69.8	<127	<64.8	<63.5	<79.0
2-Butanone (MEK)	1,666	ug/kg	<309	<455	<357	<290	<529	<269	<264	<328
2-Chlorotoluene	---	---	<64.6	<95.1	<74.7	<60.6	<111	<56.3	<55.2	<68.6
4-Chlorotoluene	---	---	<61.3	<90.2	<70.9	<57.5	<105	<53.4	<52.4	<65.1
4-Methyl-2-pentanone (MIBK)	225	ug/kg	<155	<228	<179	<145	<265	<135	<132	<165
Acetone	3,677	ug/kg	<1,540	<2,260	<1,780	<1,440	<2,630	<1,340	<1,310	<1,630
Allyl chloride	---	---	<201	<296	<232	<188	<344	<175	<171	<213
Benzene	5.12	ug/kg	<20.2	<29.8	<23.4	<19.0	<34.6	13,800	<17.3	<21.5



**Table 4**  
**Summary of Deep Soil Analytical Results**

Boring Type Boring Location Sample ID Sample Date			Sonic Boring Samples							
			Adjacent to Boat Slip							
			SB05_6-8	SB05_10-15	SB05_10-15DUP	SB06_8-10	SB06_14-15	SB08_6.5-9	SB08_15-16	SB08_18-20
			12/14/16	12/14/16	12/14/16	12/14/16	12/14/16	12/15/16	12/15/16	12/15/16
Parameters	GW RCLs	Units								
Bromobenzene	---	---	<59.9	<88.2	<69.3	<56.2	<103	<52.2	<51.2	<63.6
Bromochloromethane	---	---	<69.7	<103	<80.7	<65.4	<119	<60.7	<59.6	<74.1
Bromodichloromethane	<b>0.33</b>	ug/kg	<65.5	<96.4	<75.8	<61.5	<112	<57.1	<56.0	<69.6
Bromoform	<b>2.33</b>	ug/kg	<202	<297	<233	<189	<345	<176	<172	<214
Bromomethane	<b>5.06</b>	ug/kg	<237	<349	<275	<223	<406	<207	<203	<252
Carbon tetrachloride	<b>3.88</b>	ug/kg	<73.5	<108	<85.0	<68.9	<126	<64.0	<62.8	<78.1
Chlorobenzene	---	---	<40.7	<59.9	<47.1	<38.2	<69.7	<35.5	<34.8	<43.3
Chloroethane	<b>227</b>	ug/kg	<370	<544	<428	<347	<633	<322	<316	<393
Chloroform	<b>3.33</b>	ug/kg	<114	<167	<132	<107	<195	<99.1	<97.1	<121
Chloromethane	<b>16</b>	ug/kg	<113	<167	<131	<106	<194	<98.7	<96.7	<120
cis-1,2-Dichloroethene	<b>41</b>	ug/kg	<87.1	<128	<101	<81.7	<149	<75.8	<74.3	<92.5
cis-1,3-Dichloropropene	<b>0.29</b>	ug/kg	<107	<157	<123	<100	<183	<92.9	<91.1	<113
Dibromochloromethane	<b>32</b>	ug/kg	<201	<296	<232	<188	<344	<175	<171	<213
Dibromomethane	<b>0.29</b>	ug/kg	<91.3	<134	<106	<85.6	<156	<79.5	<77.9	<96.9
Dichlorodifluoromethane	<b>3,086</b>	ug/kg	<71.6	<105	<82.8	<67.2	<123	<62.4	<61.2	<76.1
Dichlorofluoromethane	---	---	<641	<944	<742	<602	<1,100	<558	<548	<681
Diethyl ether (Ethyl ether)	<b>448</b>	ug/kg	<96.4	<142	<112	<90.5	<165	<84.0	<82.3	<102
Ethylbenzene	<b>1,570</b>	ug/kg	<74.4	<110	<86.1	<69.8	<127	190	<63.5	<79.0
Hexachloro-1,3-butadiene	---	---	<220	<324	<254	<206	<377	<192	<188	<234
Isopropylbenzene (Cumene)	---	---	<83.3	<123	<96.4	<78.2	<143	83.7	<71.1	<88.5
Methylene Chloride	<b>2.56</b>	ug/kg	<433	<638	<501	<407	<742	<377	<370	<460
Methyl-tert-butyl ether	<b>27</b>	ug/kg	<43.8	<64.5	<50.7	<41.1	<75.0	<38.2	<37.4	<46.5
Naphthalene (VOC)	<b>658</b>	ug/kg	<56.6	85.6	<65.5	<53.1	<96.9	<b>705</b>	<48.4	<60.2
n-Butylbenzene	---	---	<56.6	<83.4	<65.5	<53.1	<96.9	<49.3	<48.4	<60.2
n-Propylbenzene	---	---	<69.7	<103	<80.7	<65.4	<119	<60.7	<59.6	<74.1
p-Isopropyltoluene	---	---	<38.9	<57.2	<44.9	<36.4	<66.5	<33.8	<33.2	<41.3
sec-Butylbenzene	---	---	<55.2	<81.3	<63.9	<51.8	<94.5	<48.1	<47.2	<58.7
Styrene	<b>220</b>	ug/kg	<60.9	<89.6	<70.4	<57.1	<104	<53.0	<52.0	<64.6
tert-Butylbenzene	---	---	<74.0	<109	<85.6	<69.4	<127	<64.4	<63.2	<78.5
Tetrachloroethene	<b>4.54</b>	ug/kg	<89.4	<132	<103	<83.9	<153	<77.9	<76.3	<95.0
Tetrahydrofuran	<b>22</b>	ug/kg	<1,160	<1,710	<1,340	<1,090	<1,990	<1,010	<991	<1,230
Toluene	<b>1,107</b>	ug/kg	<74.4	<110	<86.1	<69.8	<127	131	<63.5	<79.0
trans-1,2-Dichloroethene	<b>62.6*</b>	ug/kg	<113	<166	<130	<106	<193	<98.2	<96.3	<120
trans-1,3-Dichloropropene	<b>0.29*</b>	ug/kg	<79.6	<117	<92.0	<74.7	<136	<69.3	<67.9	<84.5
Trichloroethene	<b>3.58*</b>	ug/kg	<66.9	<98.5	<77.4	<62.8	<115	<58.3	<57.2	<71.1
Trichlorofluoromethane		---	<235	<346	<272	<220	<402	<205	<201	<250
Vinyl chloride	<b>0.14*</b>	ug/kg	<30.1	<44.2	<34.8	<28.2	<51.4	<26.2	<25.7	<31.9
Xylene (Total)	<b>3,960</b>	ug/kg	<187	<276	<217	<176	<320	275	<160	<199

**Bold**=Exceedance of Industrial Soil Direct Contact RCL

\*Value of the Standard exceedance the laboratory detection limit.

RCI Values extracted from the Wisconsin DNR Soil RCI Worksheet.

**Table 4**  
**Summary of Deep Soil Analytical Results**

Parameters	GW RCLs	Units	Boring Type		Sonic Boring Samples							
			Boring Location		Adjacent to Boat Slip				Deep Boring			
			Sample ID	Sample Date	SB09_5-10	SB09_13.5-15.5	SB09_28-29	SB10_5-10	SB10_25-30	SB10_33-35	SB07_7-8	SB07_85-90
					12/15/16	12/15/16	12/15/16	12/16/16	12/16/16	12/16/16	12/14/16	12/15/16
<b>PAHs</b>												
Acenaphthene	---	---	22.3	230	<1.8	6.7	<1.6	<1.8	<1.7	<1.6		
Acenaphthylene	---	---	30.7	34.9	<1.3	7	<1.1	<1.3	<1.2	<1.1		
Anthracene	196,949	ug/kg	30.3	176	<2.1	9.1	<1.8	<2.1	<2.0	<1.8		
Benzo(a)anthracene	---	---	48.9	334	<2.2	37.7	<1.9	<2.2	14.1	<1.9		
Benzo(a)pyrene	470	ug/kg	75.7	298	<1.6	49.1	<1.4	<1.6	13.8	<1.4		
Benzo(b)fluoranthene	479	ug/kg	72.3	315	<2.7	44.1	<2.3	<2.6	19.1	<2.3		
Benzo(g,h,i)perylene	---	---	68.4	173	<2.1	30.8	<1.8	<2.1	7.9	<1.8		
Benzo(k)fluoranthene	---	---	21.2	94.2	<2.3	16.4	<2.0	<2.3	9.2	<2.0		
Chrysene	145	ug/kg	42.6	303	<2.6	35.9	<2.2	<2.6	16.1	<2.2		
Dibenz(a,h)anthracene	---	---	18.9	45.8	<1.5	6.9	<1.3	<1.5	<1.4	<1.3		
Fluoranthene	88,878	ug/kg	72.2	677	<3.6	60.7	<3.1	<3.6	26.7	<3.1		
Fluorene	14,830	ug/kg	14.9	130	<1.8	5.6	<1.5	<1.8	<1.7	<1.5		
Indeno(1,2,3-cd)pyrene	---	---	49.9	139	<3.5	24	<3.0	<3.5	8	<3.0		
Naphthalene	658	ug/kg	38.3	69.7	<1.7	6.4	<1.4	<1.6	<1.6	<1.4		
Phenanthrene	---	---	68.1	727	<1.9	29.3	<1.6	<1.9	<1.8	<1.6		
Pyrene	54,545	ug/kg	77.3	698	<3.8	86	<3.3	<3.8	20.1	<3.3		
<b>VOCs</b>												
1,1,1,2-Tetrachloroethane	53	ug/kg	<23.3	<29.6	<27.9	<22.2	<24.2	<28.3	<26.4	<23.1		
1,1,1-Trichloroethane	3.24	ug/kg	<24.6	<31.2	<29.4	<23.4	<25.5	<29.9	<27.9	<24.4		
1,1,2,2-Tetrachloroethane	0.16	ug/kg	<13.1	<16.6	<15.6	<12.4	<13.5	<15.9	<14.8	<12.9		
1,1,2-Trichloroethane	3.24	ug/kg	<12.7	<16.1	<15.2	<12.1	<13.2	<15.5	<14.4	<12.6		
1,1,2-Trichlorotrifluoroethane	---	---	<141	<179	<169	<134	<146	<172	<160	<140		
1,1-Dichloroethane	---	---	<22.9	<29.0	<27.3	<21.8	<23.7	<27.8	<25.9	<22.6		
1,1-Dichloroethene	---	---	<15.0	<19.0	<17.9	<14.2	<15.5	<18.2	<16.9	<14.8		
1,1-Dichloropropene	---	---	<17.8	<22.5	<21.3	<16.9	<18.4	<21.6	<20.1	<17.6		
1,2,3-Trichlorobenzene	---	---	<17.0	<21.5	<20.3	<16.1	<17.6	<20.6	<19.2	<16.8		
1,2,3-Trichloropropane	---	---	<61.0	<77.3	<72.9	<58.1	<63.2	<74.1	<69.1	<60.4		
1,2,4-Trichlorobenzene	---	---	<18.1	<23.0	<21.7	<17.3	<18.8	<22.0	<20.5	<18.0		
1,2,4-Trimethylbenzene	1,382	ug/kg	16.3	46.4	<15.5	<12.3	<13.4	<15.7	<14.7	<12.8		
1,2-Dibromo-3-chloropropane	---	---	<115	<146	<137	<109	<119	<139	<130	<114		
1,2-Dibromoethane (EDB)	---	---	<22.1	<28.1	<26.5	<21.1	<22.9	<26.9	<25.1	<21.9		
1,2-Dichlorobenzene	1,168	ug/kg	<11.4	<14.4	<13.6	<10.8	<11.8	<13.8	<12.9	<11.3		
1,2-Dichloroethane	483	ug/kg	<18.6	<23.6	<22.2	<17.7	<19.3	<22.6	<21.1	<18.4		
1,2-Dichloropropane	3.32	ug/kg	<20.4	<25.8	<24.4	<19.4	<21.1	<24.7	<23.1	<20.2		
1,3,5-Trimethylbenzene	1,382	ug/kg	<45.1	<57.2	<53.9	<42.9	<46.7	<54.8	<51.1	<44.7		
1,3-Dichlorobenzene	1,153	ug/kg	<17.3	<21.9	<20.7	<16.5	<17.9	<21.0	<19.6	<17.1		
1,3-Dichloropropane	---	---	<70.2	<89.0	<83.9	<66.8	<72.7	<85.3	<79.5	<69.5		
1,4-Dichlorobenzene	144	ug/kg	<56.9	<72.1	<68.0	<54.1	<58.9	<69.1	<64.4	<56.3		
2,2-Dichloropropane	---	---	<62.4	<79.0	<74.5	<59.4	<64.6	<75.7	<70.6	<61.7		
2-Butanone (MEK)	1,666	ug/kg	<259	<328	<309	<246	<268	<314	<293	<256		
2-Chlorotoluene	---	---	<54.1	<68.6	<64.7	<51.5	<56.1	<65.7	<61.3	<53.6		
4-Chlorotoluene	---	---	<51.4	<65.1	<61.4	<48.9	<53.2	<62.4	<58.2	<50.9		
4-Methyl-2-pentanone (MIBK)	225	ug/kg	<130	<165	<155	<124	<134	<158	<147	<129		
Acetone	3,677	ug/kg	<1,290	<1,630	<1,540	<1,220	<1,330	<1,560	<1,460	<1,270		
Allyl chloride	---	---	<168	<213	<201	<160	<174	<204	<191	<167		
Benzene	5.12	ug/kg	17.1	<21.5	<20.2	<16.1	<17.6	<20.6	<19.2	<16.8		



**Table 4**  
**Summary of Deep Soil Analytical Results**

Parameters	Boring Type		Sonic Boring Samples									
	GW RCLs	Units	Boring Location		Adjacent to Boat Slip						Deep Boring	
			Sample ID	Sample Date	SB09_5-10	SB09_13.5-15.5	SB09_28-29	SB10_5-10	SB10_25-30	SB10_33-35	SB07_7-8	SB07_85-90
					12/15/16	12/15/16	12/15/16	12/16/16	12/16/16	12/16/16	12/14/16	12/15/16
Bromobenzene	---	---	<50.2	<63.6	<60.0	<47.8	<52.0	<61.0	<56.9	<49.7		
Bromochloromethane	---	---	<58.4	<74.1	<69.8	<55.6	<60.5	<71.0	<66.2	<57.9		
Bromodichloromethane	<b>0.33</b>	ug/kg	<54.9	<69.6	<65.6	<52.3	<56.9	<66.7	<62.2	<54.4		
Bromoform	<b>2.33</b>	ug/kg	<169	<214	<202	<161	<175	<205	<191	<167		
Bromomethane	<b>5.06</b>	ug/kg	<199	<252	<238	<189	<206	<242	<225	<197		
Carbon tetrachloride	<b>3.88</b>	ug/kg	<61.6	<78.0	<73.6	<58.6	<63.8	<74.8	<69.8	<61.0		
Chlorobenzene	---	---	<34.1	<43.2	<40.8	<32.5	<35.4	<41.4	<38.7	<33.8		
Chloroethane	<b>227</b>	ug/kg	<310	<393	<370	<295	<321	<376	<351	<307		
Chloroform	<b>3.33</b>	ug/kg	<95.3	<121	<114	<90.7	<98.7	<116	<108	<94.4		
Chloromethane	<b>16</b>	ug/kg	<94.9	<120	<113	<90.4	<98.3	<115	<108	<94.0		
cis-1,2-Dichloroethene	<b>41</b>	ug/kg	<73.0	<92.5	<87.2	<69.4	<75.6	<88.6	<82.6	<72.2		
cis-1,3-Dichloropropene	<b>0.29</b>	ug/kg	<89.4	<113	<107	<85.1	<92.6	<109	<101	<88.5		
Dibromochloromethane	<b>32</b>	ug/kg	<168	<213	<201	<160	<174	<204	<191	<167		
Dibromomethane	<b>0.29</b>	ug/kg	<76.5	<96.9	<91.4	<72.8	<79.2	<92.9	<86.6	<75.7		
Dichlorodifluoromethane	<b>3,086</b>	ug/kg	<60.0	<76.1	<71.7	<57.1	<62.2	<72.9	<68.0	<59.4		
Dichlorofluoromethane	---	---	<537	<681	<642	<512	<557	<653	<609	<532		
Diethyl ether (Ethyl ether)	<b>448</b>	ug/kg	<80.8	<102	<96.6	<76.9	<83.7	<98.1	<91.5	<80.0		
Ethylbenzene	<b>1,570</b>	ug/kg	<62.4	<79.0	<74.5	<59.4	<64.6	<75.7	<70.6	<61.7		
Hexachloro-1,3-butadiene	---	---	<184	<234	<220	<175	<191	<224	<209	<183		
Isopropylbenzene (Cumene)	---	---	<69.8	<88.5	<83.4	<66.5	<72.3	<84.8	<79.1	<69.1		
Methylene Chloride	<b>2.56</b>	ug/kg	<363	<460	<434	<346	<376	<441	<411	<360		
Methyl-tert-butyl ether	<b>27</b>	ug/kg	<36.7	<46.5	<43.9	<34.9	<38.0	<44.6	<41.6	<36.3		
Naphthalene (VOC)	<b>658</b>	ug/kg	77.6	163	<56.7	<45.2	<49.2	<57.6	<53.8	<47.0		
n-Butylbenzene	---	---	<47.5	<60.1	<56.7	<45.2	<49.2	<57.6	<53.8	<47.0		
n-Propylbenzene	---	---	<58.4	<74.1	<69.8	<55.6	<60.5	<71.0	<66.2	<57.9		
p-Isopropyltoluene	---	---	<32.6	<41.3	<38.9	<31.0	<33.7	<39.5	<36.9	<32.2		
sec-Butylbenzene	---	---	<46.3	<58.7	<55.3	<44.1	<47.9	<56.2	<52.4	<45.8		
Styrene	<b>220</b>	ug/kg	<51.0	<64.6	<60.9	<48.5	<52.8	<61.9	<57.8	<50.5		
tert-Butylbenzene	---	---	<62.0	<78.5	<74.1	<59.0	<64.2	<75.3	<70.2	<61.4		
Tetrachloroethene	<b>4.54</b>	ug/kg	<74.9	<94.9	<89.5	<71.3	<77.6	<91.0	<84.9	<74.2		
Tetrahydrofuran	<b>22</b>	ug/kg	<973	<1,230	<1,160	<926	<1,010	<1,180	<1,100	<963		
Toluene	<b>1,107</b>	ug/kg	<62.4	110	<74.5	<59.4	<64.6	<75.7	<70.6	<61.7		
trans-1,2-Dichloroethene	<b>62.6*</b>	ug/kg	<94.5	<120	<113	<90.0	<97.9	<115	<107	<93.6		
trans-1,3-Dichloropropene	<b>0.29*</b>	ug/kg	<66.7	<84.5	<79.7	<63.5	<69.1	<81.0	<75.5	<66.0		
Trichloroethene	<b>3.58*</b>	ug/kg	<56.1	<71.1	<67.0	<53.4	<58.1	<68.1	<63.5	<55.5		
Trichlorofluoromethane	---	---	<197	<250	<235	<187	<204	<239	<223	<195		
Vinyl chloride	<b>0.14*</b>	ug/kg	<25.2	<31.9	<30.1	<24.0	<26.1	<30.6	<28.5	<24.9		
Xylene (Total)	<b>3,960</b>	ug/kg	<157	<199	<187	<149	<163	<191	<178	<155		

**Bold**=Exceedance of Industrial Soil Direct Contact RCL

\*Value of the Standard exceedance the laboratory detection limit.

RCI Values extracted from the Wisconsin DNR Soil RCI Worksheet.

**Table 4**  
**Summary of Deep Soil Analytical Results**

Parameters	Boring Type		Sonic Boring Samples					
	Boring Location		City WWTP					
	Sample ID		SB11_8-10	SB11_10-18	SB11_10-18DUP	SB11_18-22	SB11_29-30	SB11_32-34
	Sample Date		12/16/16	12/16/16	12/16/16	12/16/16	12/16/16	12/16/16
GW RCLs	Units							
<b>PAHs</b>								
Acenaphthene	---	---	27.6	42.7	45.3	1,650	6.4	<2.0
Acenaphthylene	---	---	3.8	17.8	17	326	2	<1.4
Anthracene	196,949	ug/kg	59.7	46.4	46.9	2,780	3.5	<2.3
Benzo(a)anthracene	---	---	142	126	152	7,690	10.7	<2.4
Benzo(a)pyrene	470	ug/kg	127	113	146	6,290	16.3	<1.7
Benzo(b)fluoranthene	479	ug/kg	147	140	168	7,150	12.1	<2.9
Benzo(g,h,i)perylene	---	---	75.4	73.1	91.1	3,600	10.2	<2.3
Benzo(k)fluoranthene	---	---	48.7	41.8	61.7	2,290	5.1	<2.5
Chrysene	145	ug/kg	113	142	168	6,720	9.6	<2.8
Dibenz(a,h)anthracene	---	---	20	19.8	24.2	955	1.9	<1.6
Fluoranthene	88,878	ug/kg	276	287	331	15,900	19.5	<3.9
Fluorene	14,830	ug/kg	28	76.8	65.5	1,620	<1.5	<1.9
Indeno(1,2,3-cd)pyrene	---	---	68.4	63.1	79.9	3,240	7.1	<3.8
Naphthalene	658	ug/kg	22	30.1	25.8	913	<1.4	<1.8
Phenanthrene	---	---	218	314	312	14,100	8	2.4
Pyrene	54,545	ug/kg	234	268	298	14,300	28	<4.2
<b>VOCs</b>								
1,1,1,2-Tetrachloroethane	53	ug/kg	<25.0	<34.5	<35.4	<48.3	<24.2	<31.4
1,1,1-Trichloroethane	3.24	ug/kg	<26.4	<36.5	<37.4	<51.0	<25.6	<33.2
1,1,2,2-Tetrachloroethane	0.16	ug/kg	<14.0	<19.4	<19.8	<27.1	<13.6	<17.6
1,1,2-Trichloroethane	3.24	ug/kg	<13.6	<18.8	<19.3	<26.3	<13.2	<17.1
1,1,2-Trichlorotrifluoroethane	---	---	<151	<209	<214	<292	<147	<190
1,1-Dichloroethane	---	---	<24.5	<33.8	<34.7	<47.3	<23.7	<30.8
1,1-Dichloroethene	---	---	<16.0	<22.2	<22.7	<31.0	<15.5	<20.2
1,1-Dichloropropene	---	---	<19.1	<26.3	<27.0	<36.8	<18.5	<24.0
1,2,3-Trichlorobenzene	---	---	<18.2	<25.1	<25.7	<35.1	<17.6	<22.8
1,2,3-Trichloropropane	---	---	<65.4	<90.4	<92.6	<126	<63.4	<82.2
1,2,4-Trichlorobenzene	---	---	<19.4	<26.9	<27.5	<37.5	<18.8	<24.4
1,2,4-Trimethylbenzene	1,382	ug/kg	<13.9	1,230	986	209	<13.5	<17.5
1,2-Dibromo-3-chloropropane	---	---	<123	<170	<174	<238	<119	<155
1,2-Dibromoethane (EDB)	---	---	<23.7	<32.8	<33.6	<45.8	<23.0	<29.8
1,2-Dichlorobenzene	1,168	ug/kg	<12.2	26	19.9	<23.6	<11.8	<15.3
1,2-Dichloroethane	483	ug/kg	<20.0	<27.6	<28.2	<38.5	<19.3	<25.1
1,2-Dichloropropane	3.32	ug/kg	<21.8	<30.2	<30.9	<42.2	<21.2	<27.4
1,3,5-Trimethylbenzene	1,382	ug/kg	<48.4	397	324	143	<46.9	<60.8
1,3-Dichlorobenzene	1,153	ug/kg	<18.6	<25.6	<26.3	<35.8	<18.0	<23.3
1,3-Dichloropropane	---	---	<75.3	<104	<107	<145	<73.0	<94.6
1,4-Dichlorobenzene	144	ug/kg	<61.0	<84.2	<86.3	<118	<59.1	<76.6
2,2-Dichloropropane	---	---	<66.9	<92.4	<94.6	<129	<64.8	<84.0
2-Butanone (MEK)	1,666	ug/kg	<278	<383	<393	<536	<269	<349
2-Chlorotoluene	---	---	<58.0	<80.2	<82.1	<112	<56.2	<72.9
4-Chlorotoluene	---	---	<55.1	<76.1	<78.0	<106	<53.4	<69.2
4-Methyl-2-pentanone (MIBK)	225	ug/kg	<139	<192	<197	<269	<135	<175
Acetone	3,677	ug/kg	<1,380	<1,910	<1,950	<2,660	<1,340	<1,730
Allyl chloride	---	---	<180	<249	<255	<348	<175	<227
Benzene	5.12	ug/kg	22.2	<25.1	<25.7	<35.1	<17.6	<22.8

**Table 4  
Summary of Deep Soil Analytical Results**

Boring Type Boring Location Sample ID Sample Date			Sonic Boring Samples					
			City WWTP					
			SB11_8-10 12/16/16	SB11_10-18 12/16/16	SB11_10-18DUP 12/16/16	SB11_18-22 12/16/16	SB11_29-30 12/16/16	SB11_32-34 12/16/16
Parameters	GW RCLs	Units						
Bromobenzene	---	---	<53.8	<74.4	<76.2	<104	<52.2	<67.6
Bromochloromethane	---	---	<62.7	<86.6	<88.7	<121	<60.7	<78.7
Bromodichloromethane	<b>0.33</b>	ug/kg	<58.9	<81.3	<83.3	<114	<57.1	<74.0
Bromoform	<b>2.33</b>	ug/kg	<181	<250	<256	<350	<176	<228
Bromomethane	<b>5.06</b>	ug/kg	<213	<295	<302	<412	<207	<268
Carbon tetrachloride	<b>3.88</b>	ug/kg	<66.0	<91.2	<93.4	<127	<64.0	<83.0
Chlorobenzene	---	---	<36.6	<50.5	<51.8	<70.6	<35.5	<46.0
Chloroethane	<b>227</b>	ug/kg	<332	<459	<470	<641	<322	<417
Chloroform	<b>3.33</b>	ug/kg	<102	<141	<145	<197	<99.0	<128
Chloromethane	<b>16</b>	ug/kg	<102	<141	<144	<196	<98.6	<128
cis-1,2-Dichloroethene	<b>41</b>	ug/kg	<78.2	<108	<111	<151	<75.8	<98.3
cis-1,3-Dichloropropene	<b>0.29</b>	ug/kg	<95.9	<132	<136	<185	<92.9	<120
Dibromochloromethane	<b>32</b>	ug/kg	<180	<249	<255	<348	<175	<227
Dibromomethane	<b>0.29</b>	ug/kg	<82.0	<113	<116	<158	<79.5	<103
Dichlorodifluoromethane	<b>3,086</b>	ug/kg	<64.3	<88.9	<91.1	<124	<62.4	<80.8
Dichlorofluoromethane	---	---	<576	<796	<815	<1,110	<558	<724
Diethyl ether (Ethyl ether)	<b>448</b>	ug/kg	<86.6	<120	<123	<167	<84.0	<109
Ethylbenzene	<b>1,570</b>	ug/kg	<66.9	<92.4	<94.6	<129	<64.8	<84.0
Hexachloro-1,3-butadiene	---	---	<198	<273	<280	<382	<192	<248
Isopropylbenzene (Cumene)	---	---	<74.9	<103	<106	<145	<72.5	<94.0
Methylene Chloride	<b>2.56</b>	ug/kg	<389	<538	<551	<752	<377	<489
Methyl-tert-butyl ether	<b>27</b>	ug/kg	<39.4	<54.4	<55.7	<76.0	<38.1	<49.5
Naphthalene (VOC)	<b>658</b>	ug/kg	<50.9	151	158	255	<49.3	<63.9
n-Butylbenzene	---	---	<50.9	221	204	<98.2	<49.3	<63.9
n-Propylbenzene	---	---	<62.7	<86.6	<88.7	<121	<60.7	<78.7
p-Isopropyltoluene	---	---	<34.9	275	212	131	<33.8	<43.9
sec-Butylbenzene	---	---	<49.6	157	130	<95.8	<48.1	<62.3
Styrene	<b>220</b>	ug/kg	<54.7	<75.5	<77.4	<106	<53.0	<68.7
tert-Butylbenzene	---	---	<66.4	<91.8	<94.0	<128	<64.4	<83.5
Tetrachloroethene	<b>4.54</b>	ug/kg	<80.3	<111	<114	<155	<77.8	<101
Tetrahydrofuran	<b>22</b>	ug/kg	<1,040	<1,440	<1,480	<2,010	<1,010	<1,310
Toluene	<b>1,107</b>	ug/kg	<66.9	<92.4	<94.6	197	<64.8	<84.0
trans-1,2-Dichloroethene	<b>62.6*</b>	ug/kg	<101	<140	<143	<196	<98.2	<127
trans-1,3-Dichloropropene	<b>0.29*</b>	ug/kg	<71.5	<98.8	<101	<138	<69.3	<89.8
Trichloroethene	<b>3.58*</b>	ug/kg	<60.1	<83.1	<85.1	<116	<58.3	<75.6
Trichlorofluoromethane		---	<211	<292	<299	<408	<205	<265
Vinyl chloride	<b>0.14*</b>	ug/kg	<27.0	<37.3	<38.2	<52.1	<26.2	<33.9
Xylene (Total)	<b>3,960</b>	ug/kg	<168	<232	<238	<325	<163	<211

**Bold**=Exceedance of Industrial Soil Direct Contact RCL

\*Value of the Standard exceedance the laboratory detection limit.

RCL Values extracted from the Wisconsin DNR Soil RCL Worksheet.

**Table 4**  
**Summary of Deep Soil Analytical Results**

Boring Type Boring Location Sample ID Sample Date			Geoprobe Samples								
			MW-4 Area								
			GP1_5-10 12/12/16	GP1_10-12 12/12/16	GP2_8-10 12/12/16	GP2_13-15 12/12/16	GP4_5-7 12/12/16	GP4_10-12 12/12/16	GP4_13-15 12/12/16	GP5_4-5 12/12/16	GP4_5-7DUP 12/12/16
Parameters	GW RCLs	Units									
<b>PAHs</b>											
Acenaphthene	---	---	<1.7	<1.7	<1.7	<1.8	<1.7	<1.8	<1.8	<1.8	
Acenaphthylene	---	---	<1.2	<1.2	<1.2	<1.2	<1.2	<1.3	<1.2	<1.3	
Anthracene	196,949	ug/kg	<2.0	15.7	<2.0	<2.1	<2.0	<2.1	<2.1	<2.1	
Benzo(a)anthracene	---	---	<2.1	14.6	<2.0	<2.1	<2.1	<2.2	<2.1	9.3	
Benzo(a)pyrene	470	ug/kg	<1.5	11.5	<1.5	<1.6	<1.5	<1.6	<1.6	6.1	
Benzo(b)fluoranthene	479	ug/kg	<2.5	14.1	<2.5	<2.6	<2.5	<2.7	<2.6	14.4	
Benzo(g,h,i)perylene	---	---	<2.0	<2.0	<2.0	<2.1	<2.0	<2.1	<2.1	7	
Benzo(k)fluoranthene	---	---	<2.2	7.9	<2.1	<2.2	<2.2	<2.3	<2.3	5.7	
Chrysene	145	ug/kg	<2.4	16.1	<2.4	<2.5	<2.5	<2.6	<2.5	12.4	
Dibenz(a,h)anthracene	---	---	<1.4	<1.4	<1.4	<1.5	<1.4	<1.5	<1.5	<1.5	
Fluoranthene	88,878	ug/kg	<3.5	41.4	<3.4	<3.6	<3.5	<3.7	<3.6	21.9	
Fluorene	14,830	ug/kg	<1.7	7.1	<1.7	<1.7	<1.7	<1.8	<1.8	<1.8	
Indeno(1,2,3-cd)pyrene	---	---	<3.3	<3.2	<3.2	<3.4	<3.3	<3.5	<3.4	<3.5	
Naphthalene	658	ug/kg	<1.6	<1.5	<1.5	<1.6	<1.6	<1.7	<1.6	305	
Phenanthrene	---	---	<1.8	38	<1.7	<1.8	<1.8	<1.9	<1.8	9.7	
Pyrene	54,545	ug/kg	<3.7	32	<3.6	<3.8	<3.7	<3.9	<3.8	20.8	
<b>VOCs</b>											
1,1,1,2-Tetrachloroethane	53	ug/kg	<32.4	<26.2	<26.0	<27.0	<26.8	<33.0	<27.0	<29.1	
1,1,1-Trichloroethane	3.24	ug/kg	<34.2	<27.7	<27.5	<28.5	<28.3	<34.8	<28.5	<30.7	
1,1,2,2-Tetrachloroethane	0.16	ug/kg	<18.1	<14.7	<14.6	<15.1	<15.0	<18.5	<15.1	<16.3	
1,1,2-Trichloroethane	3.24	ug/kg	<17.7	<14.3	<14.2	<14.7	<14.6	<18.0	<14.7	<15.9	
1,1,2-Trichlorotrifluoroethane	---	---	<196	<159	<157	<163	<163	<200	<163	<176	
1,1-Dichloroethane	---	---	<31.7	<25.7	<25.5	<26.4	<26.3	<32.3	<26.4	<28.5	
1,1-Dichloroethene	---	---	<20.8	<16.8	<16.7	<17.3	<17.2	<21.2	<17.3	<18.7	
1,1-Dichloropropene	---	---	<24.7	<20.0	<19.8	<20.6	<20.5	<25.2	<20.6	<22.2	
1,2,3-Trichlorobenzene	---	---	<23.5	<19.1	<18.9	<19.6	<19.5	<24.0	<19.6	<21.2	
1,2,3-Trichloropropane	---	---	<84.7	<68.6	<68.0	<70.5	<70.2	<86.3	<70.6	<76.1	
1,2,4-Trichlorobenzene	---	---	<25.2	<20.4	<20.2	<21.0	<20.9	<25.7	<21.0	<22.6	
1,2,4-Trimethylbenzene	1,382	ug/kg	<18.0	<14.6	<14.4	<15.0	<14.9	<18.3	<15.0	1,940	
1,2-Dibromo-3-chloropropane	---	---	<159	<129	<128	<133	<132	<162	<133	<143	
1,2-Dibromoethane (EDB)	---	---	<30.7	<24.9	<24.7	<25.6	<25.5	<31.3	<25.6	<27.6	
1,2-Dichlorobenzene	1,168	ug/kg	<15.8	<12.8	<12.7	<13.2	<13.1	<16.1	<13.2	<14.2	
1,2-Dichloroethane	483	ug/kg	<25.8	<20.9	<20.8	<21.5	<21.4	<26.3	<21.5	<23.2	
1,2-Dichloropropane	3.32	ug/kg	<28.3	<22.9	<22.7	<23.6	<23.5	<28.8	<23.6	<25.4	
1,3,5-Trimethylbenzene	1,382	ug/kg	<62.6	<50.7	<50.3	<52.1	<51.9	<63.8	<52.2	<b>2,230</b>	
1,3-Dichlorobenzene	1,153	ug/kg	<24.0	<19.5	<19.3	<20.0	<19.9	<24.5	<20.0	<21.6	
1,3-Dichloropropane	---	---	<97.4	<78.9	<78.3	<81.2	<80.8	<99.3	<81.2	<87.6	
1,4-Dichlorobenzene	144	ug/kg	<78.9	<63.9	<63.4	<65.8	<65.5	<80.4	<65.8	<70.9	
2,2-Dichloropropane	---	---	<86.5	<70.1	<69.5	<72.1	<71.8	<88.2	<72.1	<77.8	
2-Butanone (MEK)	1,666	ug/kg	<359	<291	<289	<299	<298	<366	<299	<323	
2-Chlorotoluene	---	---	<75.1	<60.8	<60.4	<62.6	<62.3	<76.6	<62.6	<67.5	
4-Chlorotoluene	---	---	<71.3	<57.7	<57.3	<59.4	<59.1	<72.7	<59.4	<64.1	
4-Methyl-2-pentanone (MIBK)	225	ug/kg	<180	<146	<145	<150	<149	<184	<150	<162	
Acetone	3,677	ug/kg	<1,790	<1,450	<1,430	<1,490	<1,480	<1,820	<1,490	<1,600	
Allyl chloride	---	---	<233	<189	<188	<195	<194	<238	<195	<210	
Benzene	5.12	ug/kg	<23.5	<19.0	<b>67.3</b>	<b>36.5</b>	<b>622</b>	<b>10,700</b>	<b>7,410</b>	<b>105,000</b>	

**Table 4**  
**Summary of Deep Soil Analytical Results**

Boring Type Boring Location Sample ID Sample Date			Geoprobe Samples								
			MW-4 Area								
			GP1_5-10 12/12/16	GP1_10-12 12/12/16	GP2_8-10 12/12/16	GP2_13-15 12/12/16	GP4_5-7 12/12/16	GP4_10-12 12/12/16	GP4_13-15 12/12/16	GP5_4-5 12/12/16	GP4_5-7DUP 12/12/16
Parameters	GW RCLs	Units									
Bromobenzene	---	---	<69.7	<56.4	<56.0	<58.0	<57.8	<71.0	<58.1	<62.6	<57.0
Bromochloromethane	---	---	<81.1	<65.7	<65.2	<67.6	<67.3	<82.7	<67.6	<72.9	<66.3
Bromodichloromethane	<b>0.33</b>	ug/kg	<76.2	<61.7	<61.2	<63.5	<63.2	<77.7	<63.5	<68.5	<62.3
Bromoform	<b>2.33</b>	ug/kg	<235	<190	<189	<195	<195	<239	<195	<211	<192
Bromomethane	<b>5.06</b>	ug/kg	<276	<223	<222	<230	<229	<281	<230	<248	<226
Carbon tetrachloride	<b>3.88</b>	ug/kg	<85.4	<69.2	<68.7	<71.2	<70.9	<87.1	<71.2	<76.8	<69.9
Chlorobenzene	---	---	<47.3	<38.3	<38.1	<39.5	<39.3	<48.3	<39.5	<42.6	<38.7
Chloroethane	<b>227</b>	ug/kg	<430	<348	<346	<358	<357	<438	<358	<387	<352
Chloroform	<b>3.33</b>	ug/kg	<132	<107	<106	<110	<110	<135	<110	<119	<108
Chloromethane	<b>16</b>	ug/kg	<132	<107	<106	<110	<109	<134	<110	<118	<108
cis-1,2-Dichloroethene	<b>41</b>	ug/kg	<101	<82.0	<81.3	<84.3	<84.0	<103	<84.4	<91.0	<82.8
cis-1,3-Dichloropropene	<b>0.29</b>	ug/kg	<124	<100	<99.7	<103	<103	<126	<103	<112	<102
Dibromochloromethane	<b>32</b>	ug/kg	<233	<189	<188	<195	<194	<238	<195	<210	<191
Dibromomethane	<b>0.29</b>	ug/kg	<106	<85.9	<85.3	<88.4	<88.0	<108	<88.4	<95.4	<86.8
Dichlorodifluoromethane	<b>3,086</b>	ug/kg	<83.3	<67.4	<66.9	<69.4	<69.1	<84.9	<69.4	<74.9	<68.1
Dichlorofluoromethane	---	---	<746	<604	<599	<621	<619	<760	<621	<670	<610
Diethyl ether (Ethyl ether)	<b>448</b>	ug/kg	<112	<90.8	<90.1	<93.4	<93.0	<114	<93.4	<101	<91.7
Ethylbenzene	<b>1,570</b>	ug/kg	<86.5	<70.1	<69.5	<72.1	<71.8	<88.2	<72.1	<b>4,170</b>	<70.8
Hexachloro-1,3-butadiene	---	---	<256	<207	<206	<213	<212	<261	<213	<230	<209
Isopropylbenzene (Cumene)	---	---	<96.9	<78.4	<77.9	<80.7	<80.4	<98.7	<80.7	<87.1	<79.3
Methylene Chloride	<b>2.56</b>	ug/kg	<504	<408	<405	<420	<418	<514	<420	<453	<412
Methyl-tert-butyl ether	<b>27</b>	ug/kg	<50.9	<41.2	<40.9	<42.4	<42.3	<51.9	<42.5	<45.8	<41.7
Naphthalene (VOC)	<b>658</b>	ug/kg	<65.9	<53.3	<52.9	<54.9	<54.6	<67.1	<54.9	<b>838</b>	<53.9
n-Butylbenzene	---	---	<65.9	<53.3	<52.9	<54.9	<54.6	<67.1	<54.9	<59.2	<53.9
n-Propylbenzene	---	---	<81.1	<65.7	<65.2	<67.6	<67.3	<82.7	<67.6	<72.9	<66.3
p-Isopropyltoluene	---	---	<45.2	<36.6	<36.3	<37.6	<37.5	<46.0	<37.6	<40.6	<37.0
sec-Butylbenzene	---	---	<64.2	<52.0	<51.6	<53.5	<53.3	<65.5	<53.5	<57.7	<52.5
Styrene	<b>220</b>	ug/kg	<70.7	<57.3	<56.9	<59.0	<58.7	<72.1	<59.0	<63.6	<57.9
tert-Butylbenzene	---	---	<86.0	<69.6	<69.1	<71.6	<71.3	<87.7	<71.7	<77.3	<70.3
Tetrachloroethene	<b>4.54</b>	ug/kg	<104	<84.2	<83.5	<86.6	<86.2	<106	<86.6	<93.4	<85.0
Tetrahydrofuran	<b>22</b>	ug/kg	<1,350	<1,090	<1,080	<1,120	<1,120	<1,380	<1,120	<1,210	<1,100
Toluene	<b>1,107</b>	ug/kg	<86.5	<70.1	<69.5	<72.1	<71.8	<88.2	<72.1	<b>30,200</b>	<70.8
trans-1,2-Dichloroethene	<b>62.6*</b>	ug/kg	<131	<106	<105	<109	<109	<134	<109	<118	<107
trans-1,3-Dichloropropene	<b>0.29*</b>	ug/kg	<92.5	<74.9	<74.4	<77.1	<76.7	<94.3	<77.1	<83.2	<75.7
Trichloroethene	<b>3.58*</b>	ug/kg	<77.8	<63.0	<62.5	<64.8	<64.6	<79.3	<64.9	<70.0	<63.7
Trichlorofluoromethane		---	<273	<221	<220	<228	<227	<278	<228	<246	<224
Vinyl chloride	<b>0.14*</b>	ug/kg	<34.9	<28.3	<28.1	<29.1	<29.0	<35.6	<29.1	<31.4	<28.6
Xylene (Total)	<b>3,960</b>	ug/kg	<218	<176	<175	<181	<181	<222	<181	<b>40,100</b>	<178

**Bold**=Exceedance of Industrial Soil Direct Contact RCL

\*Value of the Standard exceedance the laboratory detection limit.

RCL Values extracted from the Wisconsin DNR Soil RCL Worksheet.



**Table 4**  
**Summary of Deep Soil Analytical Results**

Boring Type Boring Location Sample ID Sample Date			Geoprobe Samples								
			MW-4 Area								
			GP5_5-7 12/12/16	GP5_5-7DUP 12/12/16	GP5_10-12 12/12/16	GP6_8-10 12/12/16	GP6_13-15 12/12/16	GP7_8-10 12/12/16	GP7_10-12 12/12/16	GP8_8-10 12/12/16	GP8_13-15 12/12/16
Parameters	GW RCLs	Units									
<b>PAHs</b>											
Acenaphthene	---	---	<1.7	<1.7	<1.7	<1.8	<1.8	<1.7	<1.7	<1.7	<1.8
Acenaphthylene	---	---	<1.2	<1.2	<1.2	<1.3	<1.3	<1.2	<1.2	<1.2	<1.3
Anthracene	196,949	ug/kg	<2.0	<2.0	<1.9	<2.1	3.3	<2.0	<2.0	<2.0	<2.1
Benzo(a)anthracene	---	---	<2.0	<2.0	<2.0	<2.2	<2.2	<2.1	<2.1	<2.1	<2.2
Benzo(a)pyrene	470	ug/kg	<1.5	<1.5	<1.5	<1.6	<1.6	<1.6	<1.5	<1.5	<1.6
Benzo(b)fluoranthene	479	ug/kg	<2.5	<2.5	<2.4	<2.6	<2.7	<2.6	<2.5	<2.5	<2.7
Benzo(g,h,i)perylene	---	---	<2.0	<2.0	<2.0	<2.1	<2.1	<2.0	<2.0	<2.0	<2.1
Benzo(k)fluoranthene	---	---	<2.1	<2.1	<2.1	<2.3	<2.3	<2.2	<2.2	<2.2	<2.3
Chrysene	145	ug/kg	<2.4	<2.4	<2.4	<2.6	<2.6	<2.5	<2.4	<2.5	<2.6
Dibenz(a,h)anthracene	---	---	<1.4	<1.4	<1.4	<1.5	<1.5	<1.5	<1.4	<1.5	<1.5
Fluoranthene	88,878	ug/kg	<3.4	<3.4	<3.3	12.2	11.1	<3.5	<3.4	<3.5	<3.7
Fluorene	14,830	ug/kg	<1.7	<1.7	<1.6	<1.8	<1.8	<1.7	<1.7	<1.7	<1.8
Indeno(1,2,3-cd)pyrene	---	---	<3.2	<3.3	<3.2	<3.5	<3.5	<3.4	<3.3	<3.3	<3.5
Naphthalene	658	ug/kg	20.8	15.4	<1.5	<1.6	<1.7	<1.6	<1.6	<1.6	<1.7
Phenanthrene	---	---	<1.7	<1.7	<1.7	<1.9	7.8	<1.8	<1.8	<1.8	<1.9
Pyrene	54,545	ug/kg	<3.6	<3.6	<3.5	9.7	7.1	<3.7	<3.6	<3.7	<3.9
<b>VOCs</b>											
1,1,1,2-Tetrachloroethane	53	ug/kg	<24.9	<25.7	<246	<703	<28.4	<27.5	<26.2	<29.0	<26.5
1,1,1-Trichloroethane	3.24	ug/kg	<26.2	<27.1	<260	<742	<30.0	<29.0	<27.6	<30.6	<28.0
1,1,2,2-Tetrachloroethane	0.16	ug/kg	<13.9	<14.4	205	<394	<15.9	<15.4	<14.7	<16.3	<14.9
1,1,2-Trichloroethane	3.24	ug/kg	<13.6	<14.0	<134	<383	<15.5	<15.0	<14.3	<15.8	<14.5
1,1,2-Trichlorotrifluoroethane	---	---	<150	<155	<1,490	<4,250	<172	<166	<159	<176	<161
1,1-Dichloroethane	---	---	<24.4	<25.2	<241	<688	<27.9	<26.9	<25.7	<28.4	<26.0
1,1-Dichloroethene	---	---	<15.9	<16.5	<158	<451	<18.2	<17.6	<16.8	<18.6	<17.0
1,1-Dichloropropene	---	---	<19.0	<19.6	<188	<536	<21.7	<20.9	<20.0	<22.1	<20.2
1,2,3-Trichlorobenzene	---	---	<18.1	<18.7	<179	<511	<20.7	<20.0	<19.0	<21.1	<19.3
1,2,3-Trichloropropane	---	---	<65.0	<67.2	<644	<1,840	<74.4	<71.8	<68.5	<76.0	<69.5
1,2,4-Trichlorobenzene	---	---	<19.3	<20.0	<191	<546	<22.1	<21.4	<20.4	<22.6	<20.6
1,2,4-Trimethylbenzene	1,382	ug/kg	433	569	<137	<390	32.8	<15.3	<14.5	21.6	<14.7
1,2-Dibromo-3-chloropropane	---	---	<122	<126	<1,210	<3,460	<140	<135	<129	<143	<131
1,2-Dibromoethane (EDB)	---	---	<23.6	<24.4	<234	<667	<27.0	<26.1	<24.9	<27.6	<25.2
1,2-Dichlorobenzene	1,168	ug/kg	<12.1	<12.5	<120	<343	<13.9	<13.4	<12.8	<14.2	<13.0
1,2-Dichloroethane	483	ug/kg	<19.8	<20.5	<196	<561	<22.7	<21.9	<20.9	<23.2	<21.2
1,2-Dichloropropane	3.32	ug/kg	<21.7	<22.4	<215	<614	<24.9	<24.0	<22.9	<25.4	<23.2
1,3,5-Trimethylbenzene	1,382	ug/kg	348	460	<476	<1,360	<55.0	<53.1	<50.6	<56.2	<51.3
1,3-Dichlorobenzene	1,153	ug/kg	<18.5	<19.1	<183	<522	<21.1	<20.4	<19.4	<21.6	<19.7
1,3-Dichloropropane	---	---	<74.8	<77.3	<741	<2,120	<85.6	<82.7	<78.8	<87.4	<79.9
1,4-Dichlorobenzene	144	ug/kg	<60.6	<62.6	<600	<1,710	<69.4	<67.0	<63.8	<70.8	<64.7
2,2-Dichloropropane	---	---	<66.5	<68.7	<658	<1,880	<76.1	<73.4	<70.0	<77.6	<71.0
2-Butanone (MEK)	1,666	ug/kg	<276	<285	<2,730	<7,800	<316	<305	<291	<322	<295
2-Chlorotoluene	---	---	<57.7	<59.6	<571	<1,630	<66.0	<63.7	<60.8	<67.4	<61.6
4-Chlorotoluene	---	---	<54.8	<56.6	<542	<1,550	<62.7	<60.5	<57.7	<64.0	<58.5
4-Methyl-2-pentanone (MIBK)	225	ug/kg	<138	<143	<1,370	<3,910	<158	<153	<146	<162	<148
Acetone	3,677	ug/kg	<1,370	<1,420	<13,600	<38,800	<1,570	<1,510	<1,440	<1,600	<1,460
Allyl chloride	---	---	<179	<185	<1,780	<5,070	<205	<198	<189	<209	<192
Benzene	5.12	ug/kg	536,000	672,000	65,500	240,000	67,900	316	23.3	145,000	15,100

**Table 4**  
**Summary of Deep Soil Analytical Results**

Boring Type Boring Location Sample ID Sample Date			Geoprobe Samples								
			MW-4 Area								
			GP5_5-7 12/12/16	GP5_5-7DUP 12/12/16	GP5_10-12 12/12/16	GP6_8-10 12/12/16	GP6_13-15 12/12/16	GP7_8-10 12/12/16	GP7_10-12 12/12/16	GP8_8-10 12/12/16	GP8_13-15 12/12/16
Parameters	GW RCLs	Units									
Bromobenzene	---	---	<53.5	<55.3	<530	<1,510	<61.2	<59.1	<56.4	<62.5	<57.2
Bromochloromethane	---	---	<62.3	<64.4	<617	<1,760	<71.3	<68.8	<65.6	<72.8	<66.5
Bromodichloromethane	<b>0.33</b>	ug/kg	<58.5	<60.5	<579	<1,650	<67.0	<64.6	<61.6	<68.4	<62.5
Bromoform	<b>2.33</b>	ug/kg	<180	<186	<1,780	<5,090	<206	<199	<190	<210	<192
Bromomethane	<b>5.06</b>	ug/kg	<212	<219	<2,100	<5,990	<243	<234	<223	<248	<226
Carbon tetrachloride	<b>3.88</b>	ug/kg	<65.6	<67.8	<650	<1,860	<75.1	<72.5	<69.1	<76.7	<70.1
Chlorobenzene	---	---	<36.4	<37.6	<360	<1,030	<41.6	<40.2	<38.3	<42.5	<38.8
Chloroethane	<b>227</b>	ug/kg	<330	<341	<3,270	<9,340	<378	<365	<348	<386	<353
Chloroform	<b>3.33</b>	ug/kg	<102	<105	<1,010	<2,870	<116	<112	<107	<119	<109
Chloromethane	<b>16</b>	ug/kg	<101	<105	<1,000	<2,860	<116	<112	<107	<118	<108
cis-1,2-Dichloroethene	<b>41</b>	ug/kg	<77.7	<80.3	<770	<2,200	<89.0	<85.9	<81.9	<90.8	<83.0
cis-1,3-Dichloropropene	<b>0.29</b>	ug/kg	<95.3	<98.5	<943	<2,690	<109	<105	<100	<111	<102
Dibromochloromethane	<b>32</b>	ug/kg	<179	<185	<1,780	<5,070	<205	<198	<189	<209	<192
Dibromomethane	<b>0.29</b>	ug/kg	<81.5	<84.2	<807	<2,300	<93.3	<90.0	<85.9	<95.2	<87.1
Dichlorodifluoromethane	<b>3,086</b>	ug/kg	<64.0	<66.1	<633	<1,810	<73.2	<70.6	<67.4	<74.7	<68.3
Dichlorofluoromethane	---	---	<573	<592	<5,670	<16,200	<655	<633	<603	<669	<612
Diethyl ether (Ethyl ether)	<b>448</b>	ug/kg	<86.1	<89.0	<852	<2,430	<98.5	<95.1	<90.7	<101	<92.0
Ethylbenzene	<b>1,570</b>	ug/kg	<b>1,660</b>	<b>2,480</b>	<658	<1,880	115	<73.4	<70.0	235	<71.0
Hexachloro-1,3-butadiene	---	---	<196	<203	<1,940	<5,550	<225	<217	<207	<230	<210
Isopropylbenzene (Cumene)	---	---	<74.4	<76.9	<737	<2,100	<85.1	<82.2	<78.4	<86.9	<79.5
Methylene Chloride	<b>2.56</b>	ug/kg	<387	<400	<3,830	<10,900	<443	<428	<408	<452	<413
Methyl-tert-butyl ether	<b>27</b>	ug/kg	<39.1	<40.4	<387	<1,110	<44.8	<43.2	<41.2	<45.7	<41.8
Naphthalene (VOC)	<b>658</b>	ug/kg	98.8	137	<501	<1,430	<57.9	<55.9	<53.3	<59.1	<54.0
n-Butylbenzene	---	---	<50.6	<52.3	<501	<1,430	<57.9	<55.9	<53.3	<59.1	<54.0
n-Propylbenzene	---	---	<62.3	<64.4	<617	<1,760	<71.3	<68.8	<65.6	<72.8	<66.5
p-Isopropyltoluene	---	---	<34.7	<35.9	<343	<981	<39.7	<38.3	<36.5	<40.5	<37.1
sec-Butylbenzene	---	---	<49.3	<51.0	<488	<1,390	<56.4	<54.5	<52.0	<57.6	<52.7
Styrene	<b>220</b>	ug/kg	<b>3,620</b>	<b>6,060</b>	<538	<1,540	<62.2	<60.0	<57.2	<63.5	<58.0
tert-Butylbenzene	---	---	<66.0	<68.2	<654	<1,870	<75.6	<73.0	<69.6	<77.2	<70.5
Tetrachloroethene	<b>4.54</b>	ug/kg	<79.8	<82.5	<790	<2,260	<91.4	<88.2	<84.1	<93.3	<85.3
Tetrahydrofuran	<b>22</b>	ug/kg	<1040	<1070	<10,300	<29,300	<1,190	<1,150	<1,090	<1,210	<1,110
Toluene	<b>1,107</b>	ug/kg	<b>215,000</b>	<b>298,000</b>	<658	<b>35,100</b>	<76.1	73.5	<70.0	<b>9,430</b>	<71.0
trans-1,2-Dichloroethene	<b>62.6*</b>	ug/kg	<101	<104	<997	<2,850	<115	<111	<106	<118	<108
trans-1,3-Dichloropropene	<b>0.29*</b>	ug/kg	<71.1	<73.4	<703	<2,010	<81.3	<78.5	<74.9	<83.0	<75.9
Trichloroethene	<b>3.58*</b>	ug/kg	<59.8	<61.8	<592	<1,690	<68.4	<66.0	<63.0	<69.8	<63.9
Trichlorofluoromethane		---	<210	<217	<2,080	<5,930	<240	<232	<221	<245	<224
Vinyl chloride	<b>0.14*</b>	ug/kg	<26.8	<27.7	<266	<759	<30.7	<29.6	<28.3	<31.3	<28.7
Xylene (Total)	<b>3,960</b>	ug/kg	<b>32,300</b>	<b>51,500</b>	<1,660	<b>5,570</b>	806	<185	<176	2,370	<179

**Bold**=Exceedance of Industrial Soil Direct Contact RCL

\*Value of the Standard exceedance the laboratory detection limit.

RCL Values extracted from the Wisconsin DNR Soil RCL Worksheet.



**Table 4**  
**Summary of Deep Soil Analytical Results**

Parameters	Boring Type		Geoprobe Samples			
	Boring Location		MW-4 Area			
	Sample ID		GP9_5-7	GP10_5-7	GP10_5-7DUP	GP10_13-15
	Sample Date		12/12/16	12/13/16	12/13/16	12/13/16
GW RCLs	Units					
<b>PAHs</b>						
Acenaphthene	---	---	<1.7	<1.7	<1.7	<1.8
Acenaphthylene	---	---	<1.2	1.4	<1.2	<1.3
Anthracene	196,949	ug/kg	<1.9	<1.9	<1.9	<2.1
Benzo(a)anthracene	---	---	<2.0	2.7	<2.0	<2.2
Benzo(a)pyrene	470	ug/kg	<1.5	2.4	<1.5	<1.6
Benzo(b)fluoranthene	479	ug/kg	<2.4	3.2	<2.4	<2.7
Benzo(g,h,i)perylene	---	---	<1.9	<1.9	<1.9	<2.1
Benzo(k)fluoranthene	---	---	<2.1	2.3	<2.1	<2.3
Chrysene	145	ug/kg	<2.4	3.3	<2.4	<2.6
Dibenz(a,h)anthracene	---	---	<1.4	<1.4	<1.4	<1.5
Fluoranthene	88,878	ug/kg	8	5.3	<3.3	<3.7
Fluorene	14,830	ug/kg	<1.6	<1.6	<1.6	<1.8
Indeno(1,2,3-cd)pyrene	---	---	<3.2	<3.2	<3.2	<3.5
Naphthalene	658	ug/kg	<1.5	2.2	18.7	<1.7
Phenanthrene	---	---	<1.7	<1.7	<1.7	<1.9
Pyrene	54,545	ug/kg	7.3	5	<3.5	<3.9
<b>VOCs</b>						
1,1,1,2-Tetrachloroethane	53	ug/kg	<31.4	<27.9	<32.0	<32.3
1,1,1-Trichloroethane	3.24	ug/kg	<33.1	<29.4	<33.8	<34.1
1,1,2,2-Tetrachloroethane	0.16	ug/kg	<17.6	<15.6	<17.9	<18.1
1,1,2-Trichloroethane	3.24	ug/kg	<17.1	<15.2	<17.5	<17.6
1,1,2-Trichlorotrifluoroethane	---	---	<190	<169	<194	<196
1,1-Dichloroethane	---	---	<30.7	<27.3	<31.4	<31.7
1,1-Dichloroethene	---	---	<20.1	<17.9	<20.5	<20.7
1,1-Dichloropropene	---	---	<23.9	<21.3	<24.4	<24.7
1,2,3-Trichlorobenzene	---	---	<22.8	<20.3	<23.3	<23.5
1,2,3-Trichloropropane	---	---	<82.1	<72.9	<83.7	<84.6
1,2,4-Trichlorobenzene	---	---	<24.4	<21.7	<24.9	<25.2
1,2,4-Trimethylbenzene	1,382	ug/kg	<17.4	<15.5	<17.8	<18.0
1,2-Dibromo-3-chloropropane	---	---	<155	<137	<158	<159
1,2-Dibromoethane (EDB)	---	---	<29.8	<26.5	<30.4	<30.7
1,2-Dichlorobenzene	1,168	ug/kg	<15.3	<13.6	<15.6	<15.8
1,2-Dichloroethane	483	ug/kg	<25.0	<22.2	<25.5	<25.8
1,2-Dichloropropane	3.32	ug/kg	<27.4	<24.4	<28.0	<28.3
1,3,5-Trimethylbenzene	1,382	ug/kg	<60.7	<53.9	<61.9	<62.6
1,3-Dichlorobenzene	1,153	ug/kg	<23.3	<20.7	<23.8	<24.0
1,3-Dichloropropane	---	---	<94.5	<83.9	<96.3	<97.4
1,4-Dichlorobenzene	144	ug/kg	<76.5	<68.0	<78.0	<78.9
2,2-Dichloropropane	---	---	<83.9	<74.5	<85.6	<86.5
2-Butanone (MEK)	1,666	ug/kg	<348	<309	<355	<359
2-Chlorotoluene	---	---	<72.8	<64.7	<74.3	<75.1
4-Chlorotoluene	---	---	<69.1	<61.4	<70.5	<71.3
4-Methyl-2-pentanone (MIBK)	225	ug/kg	<175	<155	<178	<180
Acetone	3,677	ug/kg	<1,730	<1,540	<1,770	<1,780
Allyl chloride	---	---	<226	<201	<231	<233
Benzene	5.12	ug/kg	469	29,800	1,490	29,900

**Table 4**  
**Summary of Deep Soil Analytical Results**

Parameters	GW RCLs	Units	Geoprobe Samples			
			MW-4 Area			
			GP9_5-7	GP10_5-7	GP10_5-7DUP	GP10_13-15
			12/12/16	12/13/16	12/13/16	12/13/16
Bromobenzene	---	---	<67.5	<60.0	<68.9	<69.6
Bromochloromethane	---	---	<78.6	<69.8	<80.2	<81.1
Bromodichloromethane	<b>0.33</b>	ug/kg	<73.9	<65.6	<75.3	<76.2
Bromoform	<b>2.33</b>	ug/kg	<227	<202	<232	<234
Bromomethane	<b>5.06</b>	ug/kg	<268	<238	<273	<276
Carbon tetrachloride	<b>3.88</b>	ug/kg	<82.9	<73.6	<84.5	<85.4
Chlorobenzene	---	---	<45.9	<40.8	<46.8	<47.3
Chloroethane	<b>227</b>	ug/kg	<417	<370	<425	<430
Chloroform	<b>3.33</b>	ug/kg	<128	<114	<131	<132
Chloromethane	<b>16</b>	ug/kg	<128	<113	<130	<132
cis-1,2-Dichloroethene	<b>41</b>	ug/kg	<98.2	<87.2	<100	<101
cis-1,3-Dichloropropene	<b>0.29</b>	ug/kg	<120	<107	<123	<124
Dibromochloromethane	<b>32</b>	ug/kg	<226	<201	<231	<233
Dibromomethane	<b>0.29</b>	ug/kg	<103	<91.4	<105	<106
Dichlorodifluoromethane	<b>3,086</b>	ug/kg	<80.7	<71.7	<82.3	<83.2
Dichlorofluoromethane	---	---	<723	<642	<737	<745
Diethyl ether (Ethyl ether)	<b>448</b>	ug/kg	<109	<96.6	<111	<112
Ethylbenzene	<b>1,570</b>	ug/kg	<83.9	<74.5	<85.6	<86.5
Hexachloro-1,3-butadiene	---	---	<248	<220	<253	<256
Isopropylbenzene (Cumene)	---	---	<93.9	<83.4	<95.8	<96.8
Methylene Chloride	<b>2.56</b>	ug/kg	<489	<434	<498	<504
Methyl-tert-butyl ether	<b>27</b>	ug/kg	<49.4	<43.9	<50.4	<50.9
Naphthalene (VOC)	<b>658</b>	ug/kg	<63.9	<56.7	<65.1	<65.8
n-Butylbenzene	---	---	<63.9	<56.7	<65.1	<65.8
n-Propylbenzene	---	---	<78.6	<69.8	<80.2	<81.1
p-Isopropyltoluene	---	---	<43.8	<38.9	<44.7	<45.2
sec-Butylbenzene	---	---	<62.3	<55.3	<63.5	<64.2
Styrene	<b>220</b>	ug/kg	<68.6	<60.9	<70.0	<70.7
tert-Butylbenzene	---	---	<83.4	<74.1	<85.0	<86.0
Tetrachloroethene	<b>4.54</b>	ug/kg	<101	<89.5	<103	<104
Tetrahydrofuran	<b>22</b>	ug/kg	<1,310	<1,160	<1,330	<1,350
Toluene	<b>1,107</b>	ug/kg	<83.9	76.2	92.4	<86.5
trans-1,2-Dichloroethene	<b>62.6*</b>	ug/kg	<127	<113	<130	<131
trans-1,3-Dichloropropene	<b>0.29*</b>	ug/kg	<89.7	<79.7	<91.5	<92.5
Trichloroethene	<b>3.58*</b>	ug/kg	<75.5	<67.0	<77.0	<77.8
Trichlorofluoromethane	---	---	<265	<235	<270	<273
Vinyl chloride	<b>0.14*</b>	ug/kg	<33.9	<30.1	<34.6	<34.9
Xylene (Total)	<b>3,960</b>	ug/kg	<211	346	<215	<218

**Bold**=Exceedance of Industrial Soil Direct Contact RCL

\*Value of the Standard exceedance the laboratory detection limit.

RCL Values extracted from the Wisconsin DNR Soil RCL Worksheet.

**Table 4**  
**Summary of Deep Soil Analytical Results**

Boring Type Boring Location Sample ID Sample Date			Geoprobe Samples							
			MW-3 Area							
			GP11_8-10 12/13/16	GP12_5-7 12/13/16	GP12_10-12 12/13/16	GP13_5-10 12/13/16	GP13_10-15 12/13/16	GP13_10-15DUP 12/13/16	GP14_9-10 12/13/16	GP14_10-12 12/13/16
Parameters	GW RCLs	Units								
<b>PAHs</b>										
Acenaphthene	---	---	<1.8	38.6	<1.8	98.7	110	12.6	<1.4	<1.8
Acenaphthylene	---	---	<1.3	53	<1.3	79.5	192	30.7	1.3	<1.3
Anthracene	196,949	ug/kg	<2.1	228	<2.1	88.7	796	78.5	<1.6	<2.1
Benzo(a)anthracene	---	---	<2.2	245	<2.2	13.3	514	58	<1.7	<2.2
Benzo(a)pyrene	470	ug/kg	<1.6	227	<1.6	4.8	503	55.3	1.8	<1.6
Benzo(b)fluoranthene	479	ug/kg	<2.7	156	<2.7	5	419	40.6	<2.1	<2.7
Benzo(g,h,i)perylene	---	---	<2.2	104	<2.1	<2.0	286	27.3	1.7	<2.1
Benzo(k)fluoranthene	---	---	<2.3	90.1	<2.3	2.2	179	16.5	<1.8	<2.3
Chrysene	145	ug/kg	<2.6	229	<2.6	10.5	474	45.1	<2.0	<2.6
Dibenz(a,h)anthracene	---	---	<1.5	22.3	<1.5	<1.5	58.6	<1.5	<1.2	<1.5
Fluoranthene	88,878	ug/kg	<3.7	411	<3.6	73	1,020	141	<2.8	<3.7
Fluorene	14,830	ug/kg	<1.8	215	<1.8	133	476	73.3	<1.4	<1.8
Indeno(1,2,3-cd)pyrene	---	---	<3.5	68.8	<3.5	<3.3	188	21.1	<2.7	<3.5
Naphthalene	658	ug/kg	40	1,650	264	1,660	5,110	1,630	2.7	2.4
Phenanthrene	---	---	<1.9	1,020	<1.9	385	2,470	323	2.2	<1.9
Pyrene	54,545	ug/kg	<3.9	474	<3.8	87.9	1,330	167	<3.0	<3.9
<b>VOCs</b>										
1,1,1,2-Tetrachloroethane	53	ug/kg	<29.1	<26.3	<28.1	<26.9	<28.0	<40.9	<31.9	<28.3
1,1,1-Trichloroethane	3.24	ug/kg	<30.7	<27.7	<29.7	<28.4	<29.5	<43.1	<33.6	<29.9
1,1,2,2-Tetrachloroethane	0.16	ug/kg	<16.3	<14.7	<15.8	<15.1	<15.7	<22.9	<17.9	<15.9
1,1,2-Trichloroethane	3.24	ug/kg	<15.9	<14.3	<15.3	<14.7	<15.2	<22.3	<17.4	<15.4
1,1,2-Trichlorotrifluoroethane	---	---	<176	<159	<170	<163	<169	<247	<193	<171
1,1-Dichloroethane	---	---	<28.5	<25.8	<27.6	<26.4	<27.4	<40.0	<31.2	<27.8
1,1-Dichloroethene	---	---	<18.7	<16.9	<18.0	<17.3	<17.9	<26.2	<20.4	<18.2
1,1-Dichloropropene	---	---	<22.2	<20.0	<21.5	<20.5	<21.3	<31.2	<24.3	<21.6
1,2,3-Trichlorobenzene	---	---	<21.2	<19.1	<20.5	<19.6	<20.3	<29.7	<23.2	<20.6
1,2,3-Trichloropropane	---	---	<76.1	<68.8	<73.6	<70.4	<73.1	<107	<83.4	<74.1
1,2,4-Trichlorobenzene	---	---	<22.6	<20.4	<21.9	<20.9	<21.7	<31.8	<24.8	<22.0
1,2,4-Trimethylbenzene	1,382	ug/kg	85.6	1,630	428	652	676	6,300	<17.7	<15.7
1,2-Dibromo-3-chloropropane	---	---	<143	<129	<139	<133	<138	<201	<157	<139
1,2-Dibromoethane (EDB)	---	---	<27.6	<25.0	<26.7	<25.6	<26.5	<38.8	<30.3	<26.9
1,2-Dichlorobenzene	1,168	ug/kg	<14.2	<12.8	<13.7	<13.1	<13.6	<19.9	<15.5	<13.8
1,2-Dichloroethane	483	ug/kg	<23.2	<21.0	<22.4	<21.5	<22.3	<32.6	<25.4	<22.6
1,2-Dichloropropane	3.32	ug/kg	<25.4	<23.0	<24.6	<23.5	<24.4	<35.7	<27.8	<24.7
1,3,5-Trimethylbenzene	1,382	ug/kg	<56.3	509	123	86.9	208	2,060	<61.6	<54.8
1,3-Dichlorobenzene	1,153	ug/kg	<21.6	<19.5	<20.9	<20.0	<20.8	<30.3	<23.7	<21.0
1,3-Dichloropropane	---	---	<87.6	<79.1	<84.7	<81.1	<84.2	<123	<95.9	<85.3
1,4-Dichlorobenzene	144	ug/kg	<71.0	<64.1	<68.6	<65.7	<68.2	<99.7	<77.7	<69.1
2,2-Dichloropropane	---	---	<77.8	<70.3	<75.2	<72.0	<74.8	<109	<85.2	<75.7
2-Butanone (MEK)	1,666	ug/kg	<323	<292	<312	<299	<310	<454	<354	<314
2-Chlorotoluene	---	---	<67.5	<61.0	<65.3	<62.5	<64.9	<94.9	<74.0	<65.7
4-Chlorotoluene	---	---	<64.1	<57.9	<62.0	<59.3	<61.6	<90.0	<70.2	<62.4
4-Methyl-2-pentanone (MIBK)	225	ug/kg	<162	<146	<157	<150	<156	<228	<177	<158
Acetone	3,677	ug/kg	<1,610	<1,450	<1,550	<1,490	<1,540	<2,250	<1,760	<1,560
Allyl chloride	---	---	<210	<190	<203	<194	<202	<295	<230	<204
Benzene	5.12	ug/kg	197	3,930	4,890	890	4,950	8,560	<23.2	998

**Table 4**  
**Summary of Deep Soil Analytical Results**

Boring Type Boring Location Sample ID Sample Date			Geoprobe Samples							
			MW-3 Area							
			GP11_8-10 12/13/16	GP12_5-7 12/13/16	GP12_10-12 12/13/16	GP13_5-10 12/13/16	GP13_10-15 12/13/16	GP13_10-15DUP 12/13/16	GP14_9-10 12/13/16	GP14_10-12 12/13/16
Parameters	GW RCLs	Units								
Bromobenzene	---	---	<62.6	<56.6	<60.6	<58.0	<60.2	<88.0	<68.6	<61.0
Bromochloromethane	---	---	<72.9	<65.9	<70.5	<67.5	<70.1	<102	<79.9	<71.0
Bromodichloromethane	<b>0.33</b>	ug/kg	<68.5	<61.9	<66.2	<63.4	<65.8	<96.2	<75.0	<66.7
Bromoform	<b>2.33</b>	ug/kg	<211	<191	<204	<195	<203	<296	<231	<205
Bromomethane	<b>5.06</b>	ug/kg	<248	<224	<240	<230	<238	<349	<272	<241
Carbon tetrachloride	<b>3.88</b>	ug/kg	<76.8	<69.4	<74.3	<71.1	<73.8	<108	<84.1	<74.8
Chlorobenzene	---	---	<42.6	<38.5	<41.2	<39.4	<40.9	<59.8	<46.6	<41.4
Chloroethane	<b>227</b>	ug/kg	<387	<349	<374	<358	<371	<543	<423	<376
Chloroform	<b>3.33</b>	ug/kg	<119	<107	<115	<110	<114	<167	<130	<116
Chloromethane	<b>16</b>	ug/kg	<118	<107	<114	<110	<114	<166	<130	<115
cis-1,2-Dichloroethene	<b>41</b>	ug/kg	<91.0	<82.2	<88.0	<84.2	<87.4	<128	<99.7	<88.6
cis-1,3-Dichloropropene	<b>0.29</b>	ug/kg	<112	<101	<108	<103	<107	<157	<122	<109
Dibromochloromethane	<b>32</b>	ug/kg	<210	<190	<203	<194	<202	<295	<230	<204
Dibromomethane	<b>0.29</b>	ug/kg	<95.4	<86.2	<92.2	<88.3	<91.7	<134	<105	<92.9
Dichlorodifluoromethane	<b>3,086</b>	ug/kg	<74.9	<67.6	<72.4	<69.3	<71.9	<105	<82.0	<72.9
Dichlorofluoromethane	---	---	<671	<606	<648	<620	<644	<942	<734	<653
Diethyl ether (Ethyl ether)	<b>448</b>	ug/kg	<101	<91.1	<97.5	<93.3	<96.8	<142	<110	<98.1
Ethylbenzene	<b>1,570</b>	ug/kg	<77.8	1,380	1,360	919	689	<b>2,230</b>	<85.2	<75.7
Hexachloro-1,3-butadiene	---	---	<230	<208	<222	<213	<221	<323	<252	<224
Isopropylbenzene (Cumene)	---	---	<87.1	<78.7	<84.2	<80.6	<83.7	<122	<95.4	<84.8
Methylene Chloride	<b>2.56</b>	ug/kg	<453	<409	<438	<419	<435	<637	<496	<441
Methyl-tert-butyl ether	<b>27</b>	ug/kg	<45.8	<41.4	<44.3	<42.4	<44.0	<64.3	<50.2	<44.6
Naphthalene (VOC)	<b>658</b>	ug/kg	438	<b>24,100</b>	<b>5,280</b>	<b>7,290</b>	<b>11,300</b>	<b>94,200</b>	<64.8	<57.6
n-Butylbenzene	---	---	<59.2	<53.5	<57.2	<54.8	<56.9	204	<64.8	<57.6
n-Propylbenzene	---	---	<72.9	186	<70.5	97.6	72.3	633	<79.9	<71.0
p-Isopropyltoluene	---	---	<40.6	<36.7	<39.3	<37.6	<39.0	103	<44.5	<39.5
sec-Butylbenzene	---	---	<57.8	<52.2	<55.8	<53.4	<55.5	<81.1	<63.2	<56.2
Styrene	<b>220</b>	ug/kg	<63.6	<57.5	<61.5	<58.9	84.8	<b>570</b>	<69.7	<61.9
tert-Butylbenzene	---	---	<77.3	<69.8	<74.7	<71.5	<74.3	<109	<84.7	<75.3
Tetrachloroethene	<b>4.54</b>	ug/kg	<93.5	<84.4	<90.4	<86.5	<89.8	<131	<102	<91.0
Tetrahydrofuran	<b>22</b>	ug/kg	<1,210	<1,100	<1,170	<1,120	<1,170	<1700	<1,330	<1180
Toluene	<b>1,107</b>	ug/kg	<77.8	<b>2,600</b>	121	<72.0	905	<b>5,620</b>	<85.2	<75.7
trans-1,2-Dichloroethene	<b>62.6*</b>	ug/kg	<118	<107	<114	<109	<113	<166	<129	<115
trans-1,3-Dichloropropene	<b>0.29*</b>	ug/kg	<83.2	<75.2	<80.4	<77.0	<79.9	<117	<91.1	<81.0
Trichloroethene	<b>3.58*</b>	ug/kg	<70.0	<63.2	<67.6	<64.8	<67.2	<98.3	<76.6	<68.1
Trichlorofluoromethane		---	<246	<222	<237	<227	<236	<345	<269	<239
Vinyl chloride	<b>0.14*</b>	ug/kg	<31.4	<28.4	<30.4	<29.1	<30.2	<44.1	<34.4	<30.6
Xylene (Total)	<b>3,960</b>	ug/kg	<196	<b>5,620</b>	1,750	511	2,320	<b>13,300</b>	<214	<191

**Bold**=Exceedance of Industrial Soil Direct Contact RCL

\*Value of the Standard exceedance the laboratory detection limit.

RCL Values extracted from the Wisconsin DNR Soil RCL Worksheet.

**Table 4**  
**Summary of Deep Soil Analytical Results**

Boring Type Boring Location Sample ID Sample Date			Geoprobe Samples							
			MW-3 Area							
			GP15_5-7 12/13/16	GP15_13-15 12/13/16	GP16_7-8 12/13/16	GP16_10-12 12/13/16	GP17_5-10 12/13/16	GP17_10-15 12/13/16	GP18_5-7 12/13/16	GP18_10-12 12/13/16
Parameters	GW RCLs	Units								
<b>PAHs</b>										
Acenaphthene	---	---	3.9	5.6	43,800	<1.7	5,330	<1.7	217	21.2
Acenaphthylene	---	---	9.3	21.3	22,000	<1.2	14,300	<1.2	295	36.4
Anthracene	196,949	ug/kg	20.8	63.2	31,800	<2.0	10,900	<1.9	1,150	118
Benzo(a)anthracene	---	---	2.5	41.7	20,700	<2.0	8,370	<2.0	1,170	159
Benzo(a)pyrene	470	ug/kg	1.9	39.5	18,900	<1.5	7,760	<1.5	1,060	138
Benzo(b)fluoranthene	479	ug/kg	<2.4	29.1	13,200	<2.5	6,300	<2.4	771	106
Benzo(g,h,i)perylene	---	---	<2.0	18.6	8,200	<2.0	3,870	<2.0	434	67.6
Benzo(k)fluoranthene	---	---	<2.1	13.4	6,920	<2.1	1,640	<2.1	235	37.4
Chrysene	145	ug/kg	3	38	19,500	<2.4	6,620	<2.4	866	128
Dibenz(a,h)anthracene	---	---	<1.4	3.3	1,920	<1.4	895	<1.4	114	16.2
Fluoranthene	88,878	ug/kg	12.5	80	39,400	<3.4	14,800	<3.3	1,680	254
Fluorene	14,830	ug/kg	16.2	33	28,500	<1.7	8,680	<1.6	1,130	135
Indeno(1,2,3-cd)pyrene	---	---	<3.2	12.9	5,920	<3.3	2,750	<3.2	322	51.8
Naphthalene	658	ug/kg	645	421	300,000	688	88,300	29.3	8,090	1,700
Phenanthrene	---	---	62.5	188	80,800	<1.8	29,700	<1.7	4,570	695
Pyrene	54,545	ug/kg	17.2	103	55,700	<3.6	18,800	<3.5	2,180	340
<b>VOCs</b>										
1,1,1,2-Tetrachloroethane	53	ug/kg	<24.6	<27.3	<123	<25.9	<25.6	<24.9	<27.1	<27.0
1,1,1-Trichloroethane	3.24	ug/kg	<26.0	<28.8	<130	<27.3	<27.0	<26.3	<28.6	<28.5
1,1,2,2-Tetrachloroethane	0.16	ug/kg	<13.8	<15.3	<69.2	<14.5	<14.4	<13.9	<15.2	<15.2
1,1,2-Trichloroethane	3.24	ug/kg	<13.4	<14.9	<67.3	<14.1	<14.0	<13.6	<14.8	<14.7
1,1,2-Trichlorotrifluoroethane	---	---	<149	<165	<747	<157	<155	<151	<164	<164
1,1-Dichloroethane	---	---	<24.1	<26.7	<121	<25.3	<25.1	<24.4	<26.6	<26.5
1,1-Dichloroethene	---	---	<15.8	<17.5	<79.1	<16.6	<16.4	<16.0	<17.4	<17.3
1,1-Dichloropropene	---	---	<18.8	<20.8	<94.1	<19.7	<19.5	<19.0	<20.7	<20.6
1,2,3-Trichlorobenzene	---	---	<17.9	<19.8	<89.7	<18.8	<18.6	<18.1	<19.7	<19.7
1,2,3-Trichloropropane	---	---	<64.3	<71.4	<323	<67.7	<67.0	<65.1	<70.9	<70.7
1,2,4-Trichlorobenzene	---	---	<19.1	<21.2	<96.0	<20.1	<19.9	<19.4	<21.1	<21.0
1,2,4-Trimethylbenzene	1,382	ug/kg	1,890	1,750	60,300	233	162	22.1	4,150	1,720
1,2-Dibromo-3-chloropropane	---	---	<121	<134	<608	<127	<126	<123	<134	<133
1,2-Dibromoethane (EDB)	---	---	<23.3	<25.9	<117	<24.6	<24.3	<23.6	<25.7	<25.7
1,2-Dichlorobenzene	1,168	ug/kg	<12.0	<13.3	<60.2	<12.6	<12.5	<12.1	<13.2	<13.2
1,2-Dichloroethane	483	ug/kg	<19.6	<21.8	<98.5	<20.6	<20.4	<19.9	<21.6	<21.6
1,2-Dichloropropane	3.32	ug/kg	<21.5	<23.8	<108	<22.6	<22.4	<21.7	<23.7	<23.6
1,3,5-Trimethylbenzene	1,382	ug/kg	595	518	21,400	57.2	59.4	<48.1	1,330	549
1,3-Dichlorobenzene	1,153	ug/kg	<18.3	<20.3	<91.6	<19.2	<19.0	<18.5	<20.1	<20.1
1,3-Dichloropropane	---	---	<74.0	<82.2	<371	<77.9	<77.1	<74.9	<81.6	<81.4
1,4-Dichlorobenzene	144	ug/kg	<60.0	<66.5	<301	<63.1	<62.4	<60.7	<66.1	<65.9
2,2-Dichloropropane	---	---	<65.8	<73.0	<330	<69.2	<68.5	<66.5	<72.5	<72.3
2-Butanone (MEK)	1,666	ug/kg	<273	<303	<1370	<287	<284	<276	<301	<300
2-Chlorotoluene	---	---	<57.1	<63.3	<286	<60.0	<59.4	<57.7	<62.9	<62.8
4-Chlorotoluene	---	---	<54.2	<60.1	<272	<57.0	<56.4	<54.8	<59.7	<59.6
4-Methyl-2-pentanone (MIBK)	225	ug/kg	<137	<152	<687	<144	<143	<139	<151	<151
Acetone	3,677	ug/kg	<1,360	<1,510	<6,810	<1,430	<1,410	<1,370	<1,500	<1,490
Allyl chloride	---	---	<177	<197	<890	<187	<185	<180	<196	<1,95
Benzene	5.12	ug/kg	4,150	972	7,850	6,350	211	8,630	16,000	16,100



**Table 4**  
**Summary of Deep Soil Analytical Results**

Boring Type Boring Location Sample ID Sample Date			Geoprobe Samples							
			MW-3 Area							
			GP15_5-7 12/13/16	GP15_13-15 12/13/16	GP16_7-8 12/13/16	GP16_10-12 12/13/16	GP17_5-10 12/13/16	GP17_10-15 12/13/16	GP18_5-7 12/13/16	GP18_10-12 12/13/16
Parameters	GW RCLs	Units								
Bromobenzene	---	---	<52.9	<58.7	<266	<55.7	<55.1	<53.6	<58.4	<58.2
Bromochloromethane	---	---	<61.6	<68.4	<309	<64.8	<64.2	<62.3	<67.9	<67.8
Bromodichloromethane	<b>0.33</b>	ug/kg	<57.9	<64.3	<291	<60.9	<60.3	<58.6	<63.8	<63.7
Bromoform	<b>2.33</b>	ug/kg	<178	<198	<894	<188	<186	<180	<197	<196
Bromomethane	<b>5.06</b>	ug/kg	<210	<233	<1,050	<221	<218	<212	<231	<231
Carbon tetrachloride	<b>3.88</b>	ug/kg	<64.9	<72.1	<326	<68.3	<67.6	<65.7	<71.6	<71.4
Chlorobenzene	---	---	<36.0	<39.9	<181	<37.9	<37.5	<36.4	<39.7	<39.6
Chloroethane	<b>227</b>	ug/kg	<327	<363	<1,640	<344	<340	<331	<360	<359
Chloroform	<b>3.33</b>	ug/kg	<100	<112	<504	<106	<105	<102	<111	<110
Chloromethane	<b>16</b>	ug/kg	<100	<111	<502	<105	<104	<101	<110	<110
cis-1,2-Dichloroethene	<b>41</b>	ug/kg	<76.9	<85.4	<386	<80.9	<80.1	<77.8	<84.8	<84.6
cis-1,3-Dichloropropene	<b>0.29</b>	ug/kg	<94.3	<105	<473	<99.2	<98.2	<95.4	<104	<104
Dibromochloromethane	<b>32</b>	ug/kg	<177	<197	<890	<187	<185	<180	<196	<195
Dibromomethane	<b>0.29</b>	ug/kg	<80.6	<89.5	<405	<84.8	<84.0	<81.6	<88.9	<88.7
Dichlorodifluoromethane	<b>3,086</b>	ug/kg	<63.3	<70.2	<317	<66.6	<65.9	<64.0	<69.8	<69.6
Dichlorofluoromethane	---	---	<567	<629	<2,840	<596	<590	<573	<625	<623
Diethyl ether (Ethyl ether)	<b>448</b>	ug/kg	<85.2	<94.5	<427	<89.6	<88.7	<86.2	<93.9	<93.7
Ethylbenzene	<b>1,570</b>	ug/kg	<b>2,120</b>	<b>1,830</b>	<b>74,000</b>	360	452	270	<b>2,200</b>	986
Hexachloro-1,3-butadiene	---	---	<194	<216	<975	<204	<202	<197	<214	<214
Isopropylbenzene (Cumene)	---	---	79.5	126	9,930	<77.4	<76.7	<74.5	88.8	<80.9
Methylene Chloride	<b>2.56</b>	ug/kg	<383	<425	<1,920	<403	<399	<387	<422	<421
Methyl-tert-butyl ether	<b>27</b>	ug/kg	<38.7	<43.0	<194	<40.7	<40.3	<39.2	<42.7	<42.6
Naphthalene (VOC)	<b>658</b>	ug/kg	<b>20,700</b>	<b>17,100</b>	<b>666,000</b>	<b>3,080</b>	<b>2,200</b>	461	<b>52,800</b>	<b>22,600</b>
n-Butylbenzene	---	---	<50.0	<55.5	2,080	<52.6	<52.1	<50.6	107	<55.0
n-Propylbenzene	---	---	211	186	6,730	<64.8	<64.2	<62.3	468	206
p-Isopropyltoluene	---	---	49.8	65.5	3,880	<36.1	<35.7	<34.7	85.7	<37.7
sec-Butylbenzene	---	---	<48.8	<54.2	<245	<51.3	<50.8	<49.4	<53.8	<53.7
Styrene	<b>220</b>	ug/kg	<53.8	<59.7	1,660	<56.6	<56.0	<54.4	<59.3	<59.1
tert-Butylbenzene	---	---	<65.3	<72.5	<328	<68.7	<68.0	<66.1	<72.0	<71.8
Tetrachloroethene	<b>4.54</b>	ug/kg	<79.0	<87.7	<396	<83.1	<82.3	<79.9	<87.1	<86.9
Tetrahydrofuran	<b>22</b>	ug/kg	<1,030	<1,140	<5150	<1,080	<1,070	<1,040	<1,130	<1,130
Toluene	<b>1,107</b>	ug/kg	266	280	<b>36,400</b>	<69.2	417	<66.5	<b>11,500</b>	<b>5,790</b>
trans-1,2-Dichloroethene	<b>62.6*</b>	ug/kg	<99.7	<111	<500	<105	<104	<101	<110	<110
trans-1,3-Dichloropropene	<b>0.29*</b>	ug/kg	<70.3	<78.0	<353	<74.0	<73.2	<71.1	<77.5	<77.3
Trichloroethene	<b>3.58*</b>	ug/kg	<59.1	<65.6	<297	<62.2	<61.6	<59.8	<65.2	<65.0
Trichlorofluoromethane		---	<208	<230	<1,040	<218	<216	<210	<229	<228
Vinyl chloride	<b>0.14*</b>	ug/kg	<26.5	<29.5	<133	<27.9	<27.7	<26.9	<29.3	<29.2
Xylene (Total)	<b>3,960</b>	ug/kg	3,090	2,470	<b>125,000</b>	467	518	338	<b>13,900</b>	<b>6,520</b>

**Bold**=Exceedance of Industrial Soil Direct Contact RCL

\*Value of the Standard exceedance the laboratory detection limit.

RCL Values extracted from the Wisconsin DNR Soil RCL Worksheet.

**Table 5  
Summary of Soil Analytical Results**

			Sample Location		City Garage					
			Sample ID	Sample Date	VP001	VP001	VP002	VP002	VP003	VP003
					1/23/17	4/4/17	1/23/17	4/4/17	1/23/17	4/4/17
Paramater	Industrial VSRL	Units								
<b>T0-15</b>										
1,1,1-Trichloroethane	2,200,000	ug/m3	<1.7	<1.5	<1.5	<1.6	<1.5	<1.7		
1,1,2,2-Tetrachloroethane	---	---	<1.1	<0.94	<0.97	<1.0	<0.97	<1.0		
1,1,2-Trichloroethane	---	---	<0.85	<0.74	<0.76	<0.79	<0.76	<0.82		
1,1,2-Trichlorotrifluoroethane	---	---	<2.5	<2.1	<2.2	<2.3	<2.2	<2.4		
1,1-Dichloroethane	44,000	ug/m3	<1.3	<1.1	<1.1	<1.2	<1.1	<1.2		
1,1-Dichloroethene	470	ug/m3	<1.3	<1.1	<1.1	<1.2	<1.1	<1.2		
1,2,4-Trichlorobenzene	---	---	<5.8	<10.1	<5.2	<10.9	<5.2	<11.2		
1,2,4-Trimethylbenzene	3,100	ug/m3	3.8	5.3	1.9	19.1	3.1	7.8		
1,2-Dibromoethane (EDB)	---	---	<2.4	<2.1	<2.2	<2.2	<2.2	<2.3		
1,2-Dichlorobenzene	---	---	<1.9	<4.1	<1.7	<4.4	<1.7	<4.6		
1,2-Dichloroethane	7,700	ug/m3	<0.64	<0.55	<0.57	<0.59	<0.57	<0.61		
1,2-Dichloropropane	---	---	<1.5	<1.3	<1.3	<1.4	<1.3	<1.4		
1,3,5-Trimethylbenzene	---	---	<1.5	<1.3	<1.4	4.8	<1.4	1.8		
1,3-Butadiene	---	---	<0.70	<0.60	<0.63	<0.65	<0.63	<0.67		
1,3-Dichlorobenzene	---	---	<1.9	<4.1	<1.7	4.9	<1.7	<4.6		
1,4-Dichlorobenzene	---	---	<1.9	<4.1	<1.7	<4.4	<1.7	<4.6		
2-Butanone (MEK)	---	---	<4.6	13.4	<4.2	37.1	<4.2	21.4		
2-Hexanone	---	---	<6.5	<5.6	<5.8	<6.0	<5.8	<6.2		
2-Propanol	---	---	14.7	43.9	7	17.7	16.3	9.1		
4-Ethyltoluene	---	---	<1.6	<3.3	<1.4	3.7	<1.4	<3.7		
4-Methyl-2-pentanone (MIBK)	---	---	<6.5	<5.6	<5.8	<6.0	<5.8	<6.2		
Acetone	---	---	6.3	11	<3.4	4.7	5.4	<3.6		
Benzene	1,600	ug/m3	<0.50	<0.44	<0.45	<0.47	<0.45	<0.48		
Benzyl chloride	---	---	<1.6	<3.5	<1.5	<3.8	<1.5	<3.9		
Bromodichloromethane	---	---	<2.1	<1.8	<1.9	2	<1.9	<2.0		
Bromoform	---	---	<3.3	<7.0	<2.9	<7.6	<2.9	<7.8		
Bromomethane	---	---	<1.2	<1.1	<1.1	<1.1	<1.1	<1.2		
Carbon disulfide	---	---	<0.98	<0.84	<0.88	<0.91	<0.88	<0.94		
Carbon tetrachloride	2,000	ug/m3	<0.99	<0.86	<0.89	<0.92	<0.89	<0.95		
Chlorobenzene	---	---	<1.5	<1.3	<1.3	<1.4	<1.3	<1.4		
Chloroethane	---	---	<0.84	<0.72	<0.75	<0.78	<0.75	<0.80		
Chloroform	530	ug/m3	32.2	47	130	174	<0.69	<0.74		
Chloromethane	39,000	ug/m3	<0.65	<0.56	<0.58	<0.60	<0.58	<0.63		
cis-1,2-Dichloroethene	88,000	ug/m3	<1.3	<1.1	<1.1	<1.2	<1.1	<1.2		

**Table 5  
Summary of Soil Analytical Results**

			Sample Location		City Garage					
			Sample ID		VP001	VP001	VP002	VP002	VP003	VP003
			Sample Date		1/23/17	4/4/17	1/23/17	4/4/17	1/23/17	4/4/17
Paramater	Industrial VSRL	Units								
<b>T0-15</b>										
cis-1,3-Dichloropropene	---	---	<1.4	<1.2	<1.3	<1.3	<1.3	<1.3	<1.4	
Cyclohexane	---	---	<1.1	2.4	<0.97	1.4	<0.97	<1.0	<1.0	
Dibromochloromethane	---	---	<2.7	<2.3	<2.4	<2.5	<2.4	<2.6	<2.6	
Dichlorodifluoromethane	---	---	22.9	26.5	26.5	<1.5	15.6	13.2	13.2	
Dichlorotetrafluoroethane	---	---	<2.2	<1.9	<2.0	<2.0	<2.0	<2.1	<2.1	
Ethanol	---	---	7.2	1.5	2.6	4.9	7.4	2.7	2.7	
Ethyl acetate	---	---	<1.1	<0.98	<1.0	<1.1	<1.0	<1.1	<1.1	
Ethylbenzene	<b>4,900</b>	<b>ug/m3</b>	1.8	<1.2	<1.2	3.3	1.6	1.4	1.4	
Hexachloro-1,3-butadiene	---	---	<8.4	<2.9	<7.5	<3.1	<7.5	<3.2	<3.2	
m&p-Xylene	<b>44,000</b>	<b>ug/m3</b>	7.2	3.9	3.9	14.4	6.3	6.5	6.5	
Methylene Chloride	<b>260,000</b>	<b>ug/m3</b>	<5.5	<4.7	<4.9	<5.1	<4.9	<5.3	<5.3	
Methyl-tert-butyl ether	<b>47,000</b>	<b>ug/m3</b>	<5.7	<4.9	<5.1	<5.3	<5.1	<5.5	<5.5	
Naphthalene	<b>360</b>	<b>ug/m3</b>	<4.1	<7.1	<3.7	13.7	<3.7	<7.9	<7.9	
n-Heptane	---	---	<1.3	<1.1	<1.2	<1.2	<1.2	<1.2	<1.2	
n-Hexane	---	---	<1.1	2.4	<1.0	5.2	<1.0	3	3	
o-Xylene	<b>44,000</b>	<b>ug/m3</b>	1.4	1.5	<1.2	5.5	1.2	2.4	2.4	
Propylene	---	---	<0.54	0.68	0.66	1.8	<0.49	0.85	0.85	
Styrene	---	---	<1.3	1.3	<1.2	2.4	<1.2	1.5	1.5	
Tetrachloroethene	<b>18,000</b>	<b>ug/m3</b>	3	6.8	13	11.6	7.4	9.3	9.3	
Tetrahydrofuran	---	---	2.4	1.5	1.3	<0.86	2.2	<0.89	<0.89	
Toluene	<b>2,200,000</b>	<b>ug/m3</b>	7	2.3	2.8	5.1	5.9	3.6	3.6	
trans-1,2-Dichloroethene	<b>88,000</b>	<b>ug/m3</b>	<1.3	<1.1	<1.1	<1.2	<1.1	<1.2	<1.2	
trans-1,3-Dichloropropene	---	---	<1.4	<3.1	<1.3	<3.3	<1.3	<3.4	<3.4	
Trichloroethene	<b>880</b>	<b>ug/m3</b>	<0.85	<0.74	<0.76	<0.79	<0.76	<0.82	<0.82	
Trichlorofluoromethane	---	---	1.8	<1.5	3.1	2.1	<1.6	<1.7	<1.7	
Vinyl acetate	---	---	<1.1	<0.96	<1.0	<1.0	<1.0	<1.1	<1.1	
Vinyl chloride	<b>2,800</b>	<b>ug/m3</b>	<0.40	<0.35	<0.36	<0.37	<0.36	<0.39	<0.39	

\*--- Indicates no Vapor Regional Screening Level (VRSL) from the May 2016 EPA Worksheet.

**BOLD** indicates values above the Industrial VRSL



**Table 5  
Summary of Soil Analytical Results**

Paramater	Industrial VSRL	Sample Location Sample ID Sample Date	Lakehead Concrete Storage					
			VP004	VP004	VP005	VP005	VP006	VP006
			1/23/17	4/4/17	1/23/17	4/4/17	1/23/17	4/4/17
Units								
<b>T0-15</b>								
1,1,1-Trichloroethane	2,200,000	ug/m3	<1.6	<1.7	<1.6	<1.4	<1.4	<1.4
1,1,2,2-Tetrachloroethane	---	---	<1.0	<1.0	<1.0	<0.88	<0.88	<0.88
1,1,2-Trichloroethane	---	---	<0.79	<0.82	<0.79	<0.69	<0.69	<0.69
1,1,2-Trichlorotrifluoroethane	---	---	<2.3	<2.4	<2.3	<2.0	<2.0	<2.0
1,1-Dichloroethane	44,000	ug/m3	<1.2	<1.2	<1.2	<1.0	<1.0	<1.0
1,1-Dichloroethene	470	ug/m3	<1.2	<1.2	<1.2	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	---	---	<5.4	<11.2	<5.4	<9.5	<4.8	<9.5
1,2,4-Trimethylbenzene	3,100	ug/m3	<1.4	4.6	<1.4	3.8	<1.3	11.2
1,2-Dibromoethane (EDB)	---	---	<2.2	<2.3	<2.2	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	---	---	<1.8	<4.6	<1.8	<3.8	<1.5	<3.8
1,2-Dichloroethane	7,700	ug/m3	<0.59	<0.61	<0.59	<0.52	<0.52	<0.52
1,2-Dichloropropane	---	---	<1.4	<1.4	<1.4	<1.2	<1.2	<1.2
1,3,5-Trimethylbenzene	---	---	<1.4	<1.5	<1.4	<1.3	<1.3	2.1
1,3-Butadiene	---	---	<0.65	<0.67	<0.65	<0.57	<0.57	<0.57
1,3-Dichlorobenzene	---	---	<1.8	<4.6	<1.8	<3.8	<1.5	<3.8
1,4-Dichlorobenzene	---	---	<1.8	<4.6	<1.8	<3.8	<1.5	<3.8
2-Butanone (MEK)	---	---	<4.3	26.9	<4.3	50	<3.8	158
2-Hexanone	---	---	<6.0	<6.2	<6.0	<5.2	<5.2	<5.2
2-Propanol	---	---	5.8	10.6	23.2	21.2	8.3	18
4-Ethyltoluene	---	---	<1.4	<3.7	<1.4	<3.1	<1.3	<3.1
4-Methyl-2-pentanone (MIBK)	---	---	<6.0	<6.2	<6.0	<5.2	<5.2	<5.2
Acetone	---	---	10.2	4.2	18.3	8	11	18.8
Benzene	1,600	ug/m3	<0.47	<0.48	<0.47	<0.41	1.1	0.71
Benzyl chloride	---	---	<1.5	<3.9	<1.5	<3.3	<1.3	<3.3
Bromodichloromethane	---	---	<2.0	<2.0	<2.0	<1.7	<1.7	<1.7
Bromoform	---	---	<3.0	<7.8	<3.0	<6.6	<2.6	<6.6
Bromomethane	---	---	<1.1	<1.2	<1.1	<1.0	<1.0	<1.0
Carbon disulfide	---	---	<0.91	<0.94	<0.91	<0.79	<0.79	3.7
Carbon tetrachloride	2,000	ug/m3	<0.92	<0.95	<0.92	<0.81	<0.81	<0.81
Chlorobenzene	---	---	<1.4	<1.4	<1.4	<1.2	<1.2	<1.2
Chloroethane	---	---	<0.78	<0.80	<0.78	<0.68	<0.68	<0.68
Chloroform	530	ug/m3	<0.71	<0.74	<0.71	<0.62	0.66	<0.62
Chloromethane	39,000	ug/m3	<0.60	<0.63	<0.60	<0.53	<0.53	<0.53
cis-1,2-Dichloroethene	88,000	ug/m3	<1.2	<1.2	<1.2	<1.0	<1.0	<1.0

**Table 5  
Summary of Soil Analytical Results**

			Sample Location		Lakehead Concrete Storage					
			Sample ID		VP004	VP004	VP005	VP005	VP006	VP006
			Sample Date		1/23/17	4/4/17	1/23/17	4/4/17	1/23/17	4/4/17
Paramater	Industrial VSRL	Units								
<b>T0-15</b>										
cis-1,3-Dichloropropene	---	---	<1.3	<1.4	<1.3	<1.2	<1.2	<1.2	<1.2	
Cyclohexane	---	---	<1.0	<1.0	<1.0	<0.88	<0.88	<0.88	<0.88	
Dibromochloromethane	---	---	<2.5	<2.6	<2.5	<2.2	<2.2	<2.2	<2.2	
Dichlorodifluoromethane	---	---	2.5	3	3.1	2.4	19.4	2		
Dichlorotetrafluoroethane	---	---	<2.0	<2.1	<2.0	<1.8	<1.8	<1.8	<1.8	
Ethanol	---	---	13.9	2.6	29.7	5.7	8.3	15.9		
Ethyl acetate	---	---	<1.1	<1.1	<1.1	<0.92	<0.92	<0.92	<0.92	
Ethylbenzene	<b>4,900</b>	<b>ug/m3</b>	<1.3	<1.3	<1.3	<1.1	1.6	2.9		
Hexachloro-1,3-butadiene	---	---	<7.8	<3.2	<7.8	<2.7	<6.8	<2.7		
m&p-Xylene	<b>44,000</b>	<b>ug/m3</b>	3.6	4.8	3.1	4.3	3.9	11.9		
Methylene Chloride	<b>260,000</b>	<b>ug/m3</b>	<5.1	<5.3	<5.1	12.4	<4.4	<4.4		
Methyl-tert-butyl ether	<b>47,000</b>	<b>ug/m3</b>	<5.3	<5.5	<5.3	<4.6	<4.6	<4.6		
Naphthalene	<b>360</b>	<b>ug/m3</b>	<3.8	<7.9	<3.8	<6.7	<3.4	15.9		
n-Heptane	---	---	<1.2	<1.2	<1.2	<1.0	<1.0	1.2		
n-Hexane	---	---	<1.0	3.7	<1.0	12.9	<0.91	21.9		
o-Xylene	<b>44,000</b>	<b>ug/m3</b>	<1.3	1.9	5.1	1.7	<1.1	3.9		
Propylene	---	---	<0.50	2.3	<0.50	8.3	<0.44	41.5		
Styrene	---	---	<1.3	<1.3	<1.3	<1.1	2.8	<1.1		
Tetrachloroethene	<b>18,000</b>	<b>ug/m3</b>	<0.99	<1.0	<0.99	<0.87	<0.87	<0.87		
Tetrahydrofuran	---	---	0.96	<0.89	<0.86	<0.76	0.87	<0.76		
Toluene	<b>2,200,000</b>	<b>ug/m3</b>	3.4	3.1	3.1	5.2	3.7	8.7		
trans-1,2-Dichloroethene	<b>88,000</b>	<b>ug/m3</b>	<1.2	<1.2	<1.2	<1.0	<1.0	<1.0		
trans-1,3-Dichloropropene	---	---	<1.3	<3.4	<1.3	<2.9	<1.2	<2.9		
Trichloroethene	<b>880</b>	<b>ug/m3</b>	<0.79	<0.82	<0.79	<0.69	<0.69	<0.69		
Trichlorofluoromethane	---	---	<1.6	<1.7	<1.6	<1.4	<1.4	<1.4		
Vinyl acetate	---	---	<1.0	<1.1	<1.0	<0.90	<0.90	<0.90		
Vinyl chloride	<b>2,800</b>	<b>ug/m3</b>	<0.37	<0.39	<0.37	<0.33	<0.33	<0.33		

\*--- Indicates no Vapor Regional Screening Level (VRSL) from the May 2016 EPA Worksheet.

**BOLD** indicates values above the Industrial VRSL

**Table 5  
Summary of Soil Analytical Results**

			Sample Location		Gas Building					
			Sample ID		VP007	VP007	VP008	VP008	VP009	VP009
			Sample Date		1/23/17	4/4/17	1/23/17	4/4/17	1/23/17	4/4/17
Paramater	Industrial VSRL	Units								
<b>T0-15</b>										
1,1,1-Trichloroethane	2,200,000	ug/m3	<1.5	<1.4	<1.5	<1.4	<1.5	<1.7		
1,1,2,2-Tetrachloroethane	---	---	<0.94	<0.88	<0.97	<0.88	<0.97	<1.0		
1,1,2-Trichloroethane	---	---	<0.74	<0.69	<0.76	<0.69	<0.76	<0.82		
1,1,2-Trichlorotrifluoroethane	---	---	<2.1	<2.0	<2.2	<2.0	<2.2	<2.4		
1,1-Dichloroethane	44,000	ug/m3	<1.1	<1.0	<1.1	<1.0	<1.1	<1.2		
1,1-Dichloroethene	470	ug/m3	<1.1	<1.0	<1.1	<1.0	<1.1	<1.2		
1,2,4-Trichlorobenzene	---	---	<5.1	<9.5	<5.2	<9.5	<5.2	<11.2		
1,2,4-Trimethylbenzene	3,100	ug/m3	<1.3	<1.3	1.7	1.6	1.6	2.9		
1,2-Dibromoethane (EDB)	---	---	<2.1	<2.0	<2.2	<2.0	<2.2	<2.3		
1,2-Dichlorobenzene	---	---	<1.6	<3.8	<1.7	<3.8	<1.7	<4.6		
1,2-Dichloroethane	7,700	ug/m3	<0.55	<0.52	<0.57	<0.52	<0.57	<0.61		
1,2-Dichloropropane	---	---	<1.3	<1.2	<1.3	<1.2	<1.3	<1.4		
1,3,5-Trimethylbenzene	---	---	<1.3	<1.3	<1.4	<1.3	<1.4	<1.5		
1,3-Butadiene	---	---	<0.60	<0.57	<0.63	<0.57	<0.63	<0.67		
1,3-Dichlorobenzene	---	---	<1.6	<3.8	<1.7	<3.8	<1.7	<4.6		
1,4-Dichlorobenzene	---	---	<1.6	<3.8	<1.7	<3.8	<1.7	<4.6		
2-Butanone (MEK)	---	---	<4.0	61.9	<4.2	14.6	<4.2	16.4		
2-Hexanone	---	---	<5.6	<5.2	<5.8	<5.2	<5.8	<6.2		
2-Propanol	---	---	5.2	7.1	<3.5	<3.2	10.8	9.7		
4-Ethyltoluene	---	---	<1.3	<3.1	<1.4	<3.1	<1.4	<3.7		
4-Methyl-2-pentanone (MIBK)	---	---	<5.6	<5.2	<5.8	<5.2	<5.8	<6.2		
Acetone	---	---	4.5	5.2	21.1	<3.0	7.3	<3.6		
Benzene	1,600	ug/m3	<0.44	1.1	2.2	<0.41	0.46	<0.48		
Benzyl chloride	---	---	<1.4	<3.3	<1.5	<3.3	<1.5	<3.9		
Bromodichloromethane	---	---	<1.8	<1.7	<1.9	<1.7	<1.9	<2.0		
Bromoform	---	---	<2.8	<6.6	<2.9	<6.6	<2.9	<7.8		
Bromomethane	---	---	<1.1	<1.0	<1.1	<1.0	<1.1	<1.2		
Carbon disulfide	---	---	<0.84	<0.79	<0.88	<0.79	<0.88	<0.94		
Carbon tetrachloride	2,000	ug/m3	<0.86	<0.81	<0.89	<0.81	<0.89	<0.95		
Chlorobenzene	---	---	<1.3	<1.2	<1.3	<1.2	<1.3	<1.4		
Chloroethane	---	---	<0.72	<0.68	<0.75	<0.68	<0.75	<0.80		
Chloroform	530	ug/m3	<0.66	<0.62	<0.69	1.4	<0.69	<0.74		
Chloromethane	39,000	ug/m3	<0.56	<0.53	0.72	<0.53	<0.58	0.63		
cis-1,2-Dichloroethene	88,000	ug/m3	<1.1	<1.0	<1.1	<1.0	<1.1	<1.2		

**Table 5  
Summary of Soil Analytical Results**

			Gas Building							
			Sample Location		VP007		VP008		VP009	
			Sample ID	Sample Date	1/23/17	4/4/17	1/23/17	4/4/17	1/23/17	4/4/17
<b>Paramater</b>	<b>Industrial VSRL</b>	<b>Units</b>								
<b>T0-15</b>										
cis-1,3-Dichloropropene	---	---	<1.2	<1.2	<1.3	<1.2	<1.3	<1.4		
Cyclohexane	---	---	<0.94	<0.88	2.9	<0.88	<0.97	<1.0		
Dibromochloromethane	---	---	<2.3	<2.2	<2.4	<2.2	<2.4	<2.6		
Dichlorodifluoromethane	---	---	1.7	2.3	2.5	1.9	2	2.5		
Dichlorotetrafluoroethane	---	---	<1.9	<1.8	<2.0	<1.8	<2.0	<2.1		
Ethanol	---	---	2.5	4.3	10	<1.2	14.5	2.1		
Ethyl acetate	---	---	<0.98	<0.92	<1.0	<0.92	<1.0	<1.1		
Ethylbenzene	<b>4,900</b>	<b>ug/m3</b>	<1.2	1.2	2	<1.1	<1.2	<1.3		
Hexachloro-1,3-butadiene	---	---	<7.3	<2.7	<7.5	<2.7	<7.5	<3.2		
m&p-Xylene	<b>44,000</b>	<b>ug/m3</b>	2.9	4.8	7.4	<2.2	4.8	3.1		
Methylene Chloride	<b>260,000</b>	<b>ug/m3</b>	<4.7	<4.4	133	<4.4	<4.9	<5.3		
Methyl-tert-butyl ether	<b>47,000</b>	<b>ug/m3</b>	<4.9	<4.6	<5.1	<4.6	<5.1	<5.5		
Naphthalene	<b>360</b>	<b>ug/m3</b>	<3.6	<6.7	<3.7	<6.7	<3.7	<7.9		
n-Heptane	---	---	<1.1	<1.0	3	<1.0	<1.2	<1.2		
n-Hexane	---	---	<0.96	8.1	18.3	2	<1.0	2.5		
o-Xylene	<b>44,000</b>	<b>ug/m3</b>	<1.2	1.5	1.7	<1.1	<1.2	<1.3		
Propylene	---	---	<0.47	8.3	0.85	1	<0.49	1.9		
Styrene	---	---	<1.2	<1.1	<1.2	<1.1	<1.2	<1.3		
Tetrachloroethene	<b>18,000</b>	<b>ug/m3</b>	<0.92	2.4	<0.96	<0.87	9.3	1.1		
Tetrahydrofuran	---	---	<0.80	<0.76	<0.83	<0.76	1.3	<0.89		
Toluene	<b>2,200,000</b>	<b>ug/m3</b>	2.6	2.8	11.1	<0.97	4.5	3.2		
trans-1,2-Dichloroethene	<b>88,000</b>	<b>ug/m3</b>	<1.1	<1.0	<1.1	<1.0	<1.1	<1.2		
trans-1,3-Dichloropropene	---	---	<1.2	<2.9	<1.3	<2.9	<1.3	<3.4		
Trichloroethene	<b>880</b>	<b>ug/m3</b>	<0.74	<0.69	<0.76	<0.69	<0.76	<0.82		
Trichlorofluoromethane	---	---	<1.5	<1.4	1.6	<1.4	<1.6	<1.7		
Vinyl acetate	---	---	<0.96	<0.90	3.3	<0.90	1.2	<1.1		
Vinyl chloride	<b>2,800</b>	<b>ug/m3</b>	<0.35	<0.33	<0.36	<0.33	<0.36	<0.39		

\*--- Indicates no Vapor Regional Screening Level (VRSL) from the May 2016 EPA Worksheet.

**BOLD** indicates values above the Industrial VRSL

**Table 6**  
**Summary of Sediment Analytical Results**

Sample ID	Sample ID			S1_24.5-25	S1_30-32	S-2_25-27.5	S2_29.5-32	S2_29-29.5	S2_32-34	S2_34-35	S-3_24.5-25	
	Sample Date			12/5/16	12/5/16	12/6/16	12/5/16	12/5/16	12/5/16	12/5/16	12/6/16	
Paramater	TEC*	MEC*	PEC*	Units								
<b>PAHs</b>												
Acenaphthene	6.7	48	89	ug/kg	<1.9	149	107	31.1	16.8	<1.7	<1.6	9.3
Acenaphthylene	5.9	67	128	ug/kg	<1.3	26.9	41	34.2	23.8	<1.2	<1.1	<1.6
Anthracene	57.2	451	845	ug/kg	31.2	42.4	172	73.6	56	<2.0	<1.9	27.5
Benzo(a)anthracene	108	579	1050	ug/kg	80.4	106	415	185	118	<2.0	<1.9	51.6
Benzo(a)pyrene	150	800	1450	ug/kg	74.7	116	339	166	124	<1.5	<1.4	56.6
Benzo(b)fluoranthene	240	6820	13400	ug/kg	85.2	108	433	170	153	<2.5	<2.3	67.8
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	50.5	71.9	176	103	83.8	<2.0	<1.9	40.2
Benzo(k)fluoranthene	240	6820	13400	ug/kg	27.7	39.8	172	57.8	46.8	<2.1	<2.0	35.4
Chrysene	166	728	1290	ug/kg	102	98.5	546	141	116	<2.4	<2.3	58.7
Dibenzo(a,h)anthracene	33	84	135	ug/kg	<1.6	17.6	42.7	23.9	<2.4	<1.4	<1.3	13.7
Fluoranthene	423	1327	2230	ug/kg	151	160	1130	312	216	<3.4	<3.2	117
Fluorene	77.4	307	536	ug/kg	15.9	64.3	151	46.7	30.8	<1.7	<1.6	11.7
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	37.2	55.6	145	82.1	68.7	<3.3	<3.1	35.6
Naphthalene	176	369	561	ug/kg	22.8	47.1	87.7	50.8	43.9	<1.6	<1.5	13.7
Phenanthrene	204	687	1170	ug/kg	83.8	159	781	208	153	<1.8	<1.7	72.3
Pyrene	195	858	1520	ug/kg	163	178	833	371	204	17.8	<3.4	96.6
<b>Total PAH16</b>	<b>1610</b>	<b>12205</b>	<b>22800</b>	<b>ug/kg</b>	<b>925.4</b>	<b>1440.1</b>	<b>5571.4</b>	<b>2056.2</b>	<b>1454.6</b>	<b>17.8</b>	<b>0</b>	<b>707.7</b>
<b>METALS</b>												
Arsenic	9.8	21.4	33	mg/kg	3.6	4.4	8.1	4.6	5.1	2.7	2.2	4.7
Barium	---	---	---	mg/kg	63.2	40.3	47.5	34.8	92.4	12.8	7.6	61.3
Cadmium	0.99	3	5	mg/kg	0.16	0.39	0.48	0.68	0.23	<0.040	<0.039	0.27
Chromium	43	76.5	110	mg/kg	17.9	14.7	12.5	22	24.9	7.1	5	18.9
Lead	36	83	130	mg/kg	9.2	51.6	32.2	29.1	17	2.5	1.9	16.3
Mercury	0.18	0.64	1.1	mg/kg	0.051	0.16	0.64	0.34	0.15	<0.019	<0.020	0.14
Selenium	---	---	---	mg/kg	<1.3	<1.2	<1.1	<1.2	3.3	<1.2	<1.2	<1.5
Silver	1.6	1.9	2.2	mg/kg	<0.37	<0.34	0.67	<0.34	<0.59	<0.34	<0.32	<0.41

\* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

Bolded = Exceeds TEC

Bolded+Shaded = Exceeds MEC

Red = Exceeds PEC

<= Indicates the analyte was analyzed for but not detected above the reporting limit.

"---"= No standard as set in the Consensus-Based Sediment Quality Guidelines.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

<sup>1</sup>Toluene exceeded PEC at 2,770 ug/kg

<sup>2</sup>Benzene exceeded TEC at 71.2 ug/kg

<sup>3</sup>Benzene exceeded MEC at 97.6 ug/kg

<sup>4</sup>Benzene exceeded PEC at 320 ug/kg

<sup>5</sup>Benzene exceeded TEC at 75.7 ug/kg

**Table 6**  
**Summary of Sediment Analytical Results**

Sample ID	Sample ID			S-4_23.5-24	S-4_24-26.5	S-5_24-24.5	S-5_24.5-25.5	S-6_23-23.5	S-6_23.5-24.5 <sup>1</sup>	S-7_23-23.5	
	Sample Date			12/6/16	12/6/16	12/6/16	12/6/16	12/6/16	12/6/16	12/6/16	
Paramater	TEC*	MEC*	PEC*	Units							
<b>PAHs</b>											
Acenaphthene	6.7	48	89	ug/kg	12.3	11.3	24.1	69.4	18.7	44.2	20.7
Acenaphthylene	5.9	67	128	ug/kg	12.6	10.9	<2.8	18	14.8	54.4	10.3
Anthracene	57.2	451	845	ug/kg	41.4	23	64	125	53.1	87.1	34.6
Benzo(a)anthracene	108	579	1050	ug/kg	75.5	67.4	108	261	94.1	282	81.2
Benzo(a)pyrene	150	800	1450	ug/kg	85.8	74.6	99.5	251	105	305	77
Benzo(b)fluoranthene	240	6820	13400	ug/kg	95.6	83.9	117	295	120	304	95.9
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	58.4	50.9	61.9	147	72.6	190	50.7
Benzo(k)fluoranthene	240	6820	13400	ug/kg	48.4	39.4	61.5	141	58.3	127	36.2
Chrysene	166	728	1290	ug/kg	86.6	68.3	108	253	97.9	264	82.2
Dibenzo(a,h)anthracene	33	84	135	ug/kg	16.4	16.6	21.1	45.1	23.4	51.7	16.8
Fluoranthene	423	1327	2230	ug/kg	155	141	242	665	203	546	169
Fluorene	77.4	307	536	ug/kg	14.3	12.7	24.7	77.9	24.7	50.3	21
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	46.6	40.7	52.8	122	62.2	140	40.4
Naphthalene	176	369	561	ug/kg	17	16.5	20	66.7	26.4	27	29.5
Phenanthrene	204	687	1170	ug/kg	103	82.2	194	513	142	226	136
Pyrene	195	858	1520	ug/kg	130	123	199	502	175	549	144
<b>Total PAH16</b>	<b>1610</b>	<b>12205</b>	<b>22800</b>	<b>ug/kg</b>	<b>998.9</b>	<b>862.4</b>	<b>1397.6</b>	<b>3552.1</b>	<b>1291.2</b>	<b>3247.7</b>	<b>1045.5</b>
<b>METALS</b>											
Arsenic	9.8	21.4	33	mg/kg	3.8	4.3	5.7	3.7	4.3	3.7	2.7
Barium	---	---	---	mg/kg	79.2	64.4	132	58.8	101	99.1	61.8
Cadmium	0.99	3	5	mg/kg	0.27	0.36	0.38	0.58	0.39	0.15	0.17
Chromium	43	76.5	110	mg/kg	24.5	16.7	38	16.5	25.6	22	11.1
Lead	36	83	130	mg/kg	18.1	55.7	30.4	41	31.5	26.2	28.4
Mercury	0.18	0.64	1.1	mg/kg	0.22	0.31	0.25	0.55	0.3	0.75	0.15
Selenium	---	---	---	mg/kg	<1.7	<1.3	<2.5	<1.1	<1.6	<1.2	<1.1
Silver	1.6	1.9	2.2	mg/kg	<0.48	0.44	<0.70	0.51	0.58	0.4	<0.31

\* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application

NOTES:

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"---" = No standard as set in the Consensus-Based Sediment Quality Guidelines.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

<sup>1</sup>Toluene exceeded PEC at 2,770 ug/kg

<sup>2</sup>Benzene exceeded TEC at 71.2 ug/kg

<sup>3</sup>Benzene exceeded MEC at 97.6 ug/kg

<sup>4</sup>Benzene exceeded PEC at 320 ug/kg

<sup>5</sup>Benzene exceeded TEC at 75.7 ug/kg

**Table 6**  
**Summary of Sediment Analytical Results**

Sample ID	Sample ID			S7_23.5-26	S7_23.5-26DUP <sup>2</sup>	S8_23.5-24	S8_23.5-24DUP	S8_24-25	S-9_24-24.5	S-9_24.5-25	
	Sample Date			12/6/16	12/6/16	12/6/16	12/6/16	12/6/16	12/6/16	12/6/16	
Paramater	TEC*	MEC*	PEC*	Units							
<b>PAHs</b>											
Acenaphthene	6.7	48	89	ug/kg	69.9	273	36.3	35.9	76.1	35.5	185
Acenaphthylene	5.9	67	128	ug/kg	67.6	159	16.1	39.7	52.8	20.4	67.4
Anthracene	57.2	451	845	ug/kg	120	324	88.8	73	127	77.3	203
Benzo(a)anthracene	108	579	1050	ug/kg	385	1040	139	170	363	145	472
Benzo(a)pyrene	150	800	1450	ug/kg	421	1030	136	216	386	155	471
Benzo(b)fluoranthene	240	6820	13400	ug/kg	436	1130	159	244	403	182	473
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	268	583	83	157	235	102	280
Benzo(k)fluoranthene	240	6820	13400	ug/kg	212	392	82.3	115	190	88.3	218
Chrysene	166	728	1290	ug/kg	353	929	138	176	322	160	451
Dibenzo(a,h)anthracene	33	84	135	ug/kg	81.8	138	30	33.7	75.3	32.4	82.6
Fluoranthene	423	1327	2230	ug/kg	821	2020	323	340	741	337	1050
Fluorene	77.4	307	536	ug/kg	56.1	151	40.5	41.2	59.7	36.4	106
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	201	463	72.2	118	178	85.1	223
Naphthalene	176	369	561	ug/kg	71.5	185	30.4	70.3	65	47.6	96.8
Phenanthrene	204	687	1170	ug/kg	391	1030	292	223	425	260	699
Pyrene	195	858	1520	ug/kg	719	1910	252	298	622	283	1030
<b>Total PAH16</b>	<b>1610</b>	<b>12205</b>	<b>22800</b>	<b>ug/kg</b>	<b>4673.9</b>	<b>11757</b>	<b>1918.6</b>	<b>2350.8</b>	<b>4320.9</b>	<b>2047</b>	<b>6107.8</b>
<b>METALS</b>											
Arsenic	9.8	21.4	33	mg/kg	4.9	5.5	5.1	5.8	4.4	4.2	4
Barium	---	---	---	mg/kg	129	143	122	115	91.3	89.7	116
Cadmium	0.99	3	5	mg/kg	1.1	1.2	0.52	0.42	0.75	0.51	0.79
Chromium	43	76.5	110	mg/kg	30	34.2	32.3	33.6	22.1	23.7	20.3
Lead	36	83	130	mg/kg	106	145	42.4	46.1	69.3	34.3	113
Mercury	0.18	0.64	1.1	mg/kg	1.8	3.6	0.57	0.5	1.9	0.56	4
Selenium	---	---	---	mg/kg	<1.9	<1.8	<1.8	<2.2	<1.7	<1.7	<1.5
Silver	1.6	1.9	2.2	mg/kg	2.1	2.9	0.58	0.72	1.6	0.64	2.6

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µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram. <sup>1</sup>Toluene exceeded PEC at 2,770 ug/kg

PEC = Probable Effect Concentration. <sup>2</sup>Benzene exceeded TEC at 71.2 ug/kg

MEC = Midpoint Effect Concentration. <sup>3</sup>Benzene exceeded MEC at 97.6 ug/kg

NS = Not sampled. <sup>4</sup>Benzene exceeded PEC at 320 ug/kg

TEC = Threshold Effect Concentration. <sup>5</sup>Benzene exceeded TEC at 75.7 ug/kg

TOC = Total organic carbon



**Table 6**  
**Summary of Sediment Analytical Results**

Sample ID	Sample ID				S-9_25-26	S-10_23.5-24	S-10_24-25 <sup>3</sup>	S11_17.5-18	S11_18-22.5	S11_22.5-25	S12_5-5.5
	Sample Date				12/6/16	12/6/16	12/6/16	12/7/16	12/7/16	12/7/16	12/7/16
Paramater	TEC*	MEC*	PEC*	Units							
<b>PAHs</b>											
Acenaphthene	6.7	48	89	ug/kg	24.9	65.7	326	1230	795	2050	42.2
Acenaphthylene	5.9	67	128	ug/kg	<1.3	33.1	91.1	285	335	280	34.7
Anthracene	57.2	451	845	ug/kg	18	98.1	314	2580	1100	2150	61.7
Benzo(a)anthracene	108	579	1050	ug/kg	48.5	271	788	4110	1940	2800	141
Benzo(a)pyrene	150	800	1450	ug/kg	43.5	287	753	3450	1930	2410	167
Benzo(b)fluoranthene	240	6820	13400	ug/kg	53.5	333	887	4310	2050	2470	220
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	25.3	180	395	1730	1080	1260	116
Benzo(k)fluoranthene	240	6820	13400	ug/kg	20.2	139	270	1610	813	907	70
Chrysene	166	728	1290	ug/kg	56.8	281	812	3690	1970	2630	157
Dibenzo(a,h)anthracene	33	84	135	ug/kg	7.2	56.7	129	<18.5	<22.9	<17.4	<1.6
Fluoranthene	423	1327	2230	ug/kg	111	572	1770	10400	3820	5900	305
Fluorene	77.4	307	536	ug/kg	15.9	62.9	229	1250	410	1210	37.3
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	22.6	151	328	1480	940	1070	105
Naphthalene	176	369	561	ug/kg	<1.7	49	150	662	349	1250	47.7
Phenanthrene	204	687	1170	ug/kg	114	445	1650	10300	3490	8920	242
Pyrene	195	858	1520	ug/kg	105	480	1510	8010	3870	6990	266
Total PAH16	1610	12205	22800	ug/kg	666.4	3504.5	10402.1	55097	24892	42297	2012.6
<b>METALS</b>											
Arsenic	9.8	21.4	33	mg/kg	3.8	3.9	3.4	2.4	6.7	3	2.3
Barium	---	---	---	mg/kg	119	83.8	89.6	44	197	84.2	27.6
Cadmium	0.99	3	5	mg/kg	0.21	0.29	0.68	0.19	1.5	0.45	0.15
Chromium	43	76.5	110	mg/kg	25.9	20.4	14.8	11.6	31.9	15	9.4
Lead	36	83	130	mg/kg	15.9	29.3	76.2	78.8	218	112	21.7
Mercury	0.18	0.64	1.1	mg/kg	0.11	0.63	0.49	0.28	54.3	2.6	0.095
Selenium	---	---	---	mg/kg	<1.0	<1.9	<0.95	<1.5	<1.7	<1.4	<1.3
Silver	1.6	1.9	2.2	mg/kg	<0.29	0.58	2.3	<0.41	7	2.3	<0.36

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<sup>1</sup>Toluene exceeded PEC at 2,770 ug/kg

<sup>2</sup>Benzene exceeded TEC at 71.2 ug/kg

<sup>3</sup>Benzene exceeded MEC at 97.6 ug/kg

<sup>4</sup>Benzene exceeded PEC at 320 ug/kg

<sup>5</sup>Benzene exceeded TEC at 75.7 ug/kg

**Table 6**  
**Summary of Sediment Analytical Results**

Paramater	TEC*	MEC*	PEC*	Units	Sample ID	S12_20-24 <sup>4</sup>	S12_24-25	S13_14-18 <sup>5</sup>	S13_18-19	S13_21-24	S14_23-28	S14_28-30	S15_22-26
					Sample Date	12/7/16	12/7/16	12/7/16	12/7/16	12/7/16	12/7/16	12/7/16	12/7/16
<b>PAHs</b>													
Acenaphthene	6.7	48	89	ug/kg		646	<1.8	668	214	619	1380	4.2	783
Acenaphthylene	5.9	67	128	ug/kg		207	<1.2	95.1	<1.1	18.2	225	5.8	174
Anthracene	57.2	451	845	ug/kg		1110	<2.1	661	21.8	211	1930	8.3	1410
Benzo(a)anthracene	108	579	1050	ug/kg		2050	35.8	1300	41.5	119	2430	22.5	2110
Benzo(a)pyrene	150	800	1450	ug/kg		1910	38.1	1120	41.7	89.7	1750	21	1730
Benzo(b)fluoranthene	240	6820	13400	ug/kg		2290	35.2	1440	42.8	78.7	2100	23.3	2160
Benzo(g,h,i)perylene	170	1685	3200	ug/kg		1120	27.6	637	26.9	48.1	873	11.9	930
Benzo(k)fluoranthene	240	6820	13400	ug/kg		828	16.5	596	17.9	32.1	822	14.3	791
Chrysene	166	728	1290	ug/kg		1960	33.9	1360	41.1	107	2150	20.9	1910
Dibenzo(a,h)anthracene	33	84	135	ug/kg		<16.9	<1.5	155	<1.4	<1.3	<16.1	3.5	<17.4
Fluoranthene	423	1327	2230	ug/kg		4090	66.6	3370	73.1	249	7800	33.6	5070
Fluorene	77.4	307	536	ug/kg		410	<1.8	616	40.4	197	1430	4.1	567
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg		984	17.8	618	23.6	33.4	804	10.2	888
Naphthalene	176	369	561	ug/kg		273	<1.6	355	29.2	837	369	2.5	515
Phenanthrene	204	687	1170	ug/kg		3220	22	3660	67.8	666	8200	19.4	5050
Pyrene	195	858	1520	ug/kg		3700	86.1	2770	83.7	325	6330	35.5	4150
<b>Total PAH16</b>	<b>1610</b>	<b>12205</b>	<b>22800</b>	<b>ug/kg</b>		<b>24798</b>	379.6	<b>19421.1</b>	765.5	<b>3630.2</b>	<b>38593</b>	241	<b>28238</b>
<b>METALS</b>													
Arsenic	9.8	21.4	33	mg/kg		3.3	1.9	3.2	1.3	1.1	2.3	24	3.1
Barium	---	---	---	mg/kg		64.2	29.7	102	15.5	12.9	45.5	134	70
Cadmium	0.99	3	5	mg/kg		0.22	<0.037	1	0.04	<0.034	0.27	0.42	0.37
Chromium	43	76.5	110	mg/kg		15.9	10.5	18.4	7.1	6.8	12.1	28.7	15.9
Lead	36	83	130	mg/kg		35.9	3	150	2.6	1.8	32.3	8.8	52.3
Mercury	0.18	0.64	1.1	mg/kg		0.6	0.026	2.1	<0.022	0.037	0.45	0.023	0.6
Selenium	---	---	---	mg/kg		<1.5	<1.1	<1.3	<1.1	<1.0	<1.2	<1.3	<1.5
Silver	1.6	1.9	2.2	mg/kg		<0.40	<0.31	3.6	<0.30	<0.29	0.37	<0.36	0.68

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MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

<sup>1</sup>Toluene exceeded PEC at 2,770 ug/kg

<sup>2</sup>Benzene exceeded TEC at 71.2 ug/kg

<sup>3</sup>Benzene exceeded MEC at 97.6 ug/kg

<sup>4</sup>Benzene exceeded PEC at 320 ug/kg

<sup>5</sup>Benzene exceeded TEC at 75.7 ug/kg

**Table 6**  
**Summary of Sediment Analytical Results**

Sample ID	Sample ID			S16_21-22	S16_21-22DUP	S17_24-27	S18_20-22.5	S19_20.5-23	S20_22-24	S20_24-25	S21_26-31	
	Sample Date			12/7/16	12/7/16	12/7/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	
<b>Paramater</b>	<b>TEC*</b>	<b>MEC*</b>	<b>PEC*</b>	<b>Units</b>								
<b>PAHs</b>												
Acenaphthene	6.7	48	89	ug/kg	<2.1	<2.1	117	32.1	46.5	14.8	<1.6	<2.4
Acenaphthylene	5.9	67	128	ug/kg	<1.4	<1.5	<6.6	23.3	45.8	28.3	<1.1	<1.7
Anthracene	57.2	451	845	ug/kg	<2.4	<2.5	121	74.5	73.8	46.6	<1.9	<2.8
Benzo(a)anthracene	108	579	1050	ug/kg	<2.5	2.9	377	163	208	146	<1.9	3.7
Benzo(a)pyrene	150	800	1450	ug/kg	<1.8	2.3	417	183	248	164	<1.4	3.5
Benzo(b)fluoranthene	240	6820	13400	ug/kg	<3.0	3.1	485	187	248	158	<2.4	3.8
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	<2.4	<2.5	277	115	163	110	<1.9	<2.9
Benzo(k)fluoranthene	240	6820	13400	ug/kg	<2.6	<2.7	172	97.1	122	75.9	<2.0	<3.1
Chrysene	166	728	1290	ug/kg	<2.9	<3.0	427	177	205	149	<2.3	4.1
Dibenzo(a,h)anthracene	33	84	135	ug/kg	<1.7	<1.8	<7.9	34.4	47.4	29	<1.4	<2.0
Fluoranthene	423	1327	2230	ug/kg	<4.1	6.5	843	319	384	241	<3.2	7.5
Fluorene	77.4	307	536	ug/kg	<2.0	<2.1	79.7	28.7	35	16.8	<1.6	<2.4
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	<3.9	<4.1	216	90	135	80.6	<3.1	<4.7
Naphthalene	176	369	561	ug/kg	<1.9	<2.0	<8.6	21.1	18.9	12.2	<1.5	<2.2
Phenanthrene	204	687	1170	ug/kg	<2.1	2.9	674	229	242	111	<1.7	4.2
Pyrene	195	858	1520	ug/kg	<4.4	5.8	784	290	364	255	3.5	6.1
<b>Total PAH16</b>	<b>1610</b>	<b>12205</b>	<b>22800</b>	<b>ug/kg</b>	0	23.5	4989.7	2064.2	2586.4	1638.2	3.5	32.9
<b>METALS</b>												
Arsenic	9.8	21.4	33	mg/kg	4.9	5.6	3.1	3.7	3.3	1.8	1.4	4.2
Barium	---	---	---	mg/kg	181	205	101	68.5	62.2	15.5	9	138
Cadmium	0.99	3	5	mg/kg	0.16	0.097	0.61	0.41	0.4	0.045	<0.038	0.12
Chromium	43	76.5	110	mg/kg	35.4	41.5	18.5	18.3	20.1	6.5	5.4	30.2
Lead	36	83	130	mg/kg	9	10.5	82.8	46.2	59.1	7.2	1.7	9.7
Mercury	0.18	0.64	1.1	mg/kg	<0.025	0.037	1.5	0.69	0.63	0.049	<0.018	0.034
Selenium	---	---	---	mg/kg	<1.5	<2.6	<1.4	<1.5	<1.3	<0.99	<1.2	<1.2
Silver	1.6	1.9	2.2	mg/kg	<0.41	<0.72	1.4	0.72	0.63	<0.27	<0.32	<0.34

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<sup>1</sup>Toluene exceeded PEC at 2,770 ug/kg

<sup>2</sup>Benzene exceeded TEC at 71.2 ug/kg

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<sup>4</sup>Benzene exceeded PEC at 320 ug/kg

<sup>5</sup>Benzene exceeded TEC at 75.7 ug/kg

**Table 6**  
**Summary of Sediment Analytical Results**

Sample ID	Sample ID			S21_26-31DUP	S22_24-24.5	S22_24.5-28	S23_26.5-28.5	S24_12.5-13	S24_13-15.5	S24_18-19	
	Sample Date			12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	
<b>Paramater</b>	<b>TEC*</b>	<b>MEC*</b>	<b>PEC*</b>	<b>Units</b>							
<b>PAHs</b>											
Acenaphthene	6.7	48	89	ug/kg	<1.8	7.5	7.3	7.4	15.2	4.3	<1.6
Acenaphthylene	5.9	67	128	ug/kg	<1.2	8.2	9.7	2.3	13.4	2	<1.1
Anthracene	57.2	451	845	ug/kg	<2.0	19	15	14.4	44.7	7.5	<1.8
Benzo(a)anthracene	108	579	1050	ug/kg	<2.1	60.1	52.4	20.8	109	14	<1.9
Benzo(a)pyrene	150	800	1450	ug/kg	<1.6	66.2	57.6	18.3	128	15.2	<1.4
Benzo(b)fluoranthene	240	6820	13400	ug/kg	<2.6	74.2	72.6	22.3	145	15.6	<2.3
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	<2.1	40	37.9	12.3	83.4	9.6	<1.9
Benzo(k)fluoranthene	240	6820	13400	ug/kg	<2.2	30.1	26.9	10.4	50.5	8.7	<2.0
Chrysene	166	728	1290	ug/kg	<2.5	62.1	55.6	23.7	110	14.9	<2.2
Dibenzo(a,h)anthracene	33	84	135	ug/kg	<1.5	11.7	9.5	2.2	22.8	1.5	<1.3
Fluoranthene	423	1327	2230	ug/kg	<3.5	102	116	55.5	194	30.7	<3.2
Fluorene	77.4	307	536	ug/kg	<1.7	7.7	8.3	4.4	13.4	3.9	<1.6
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	<3.4	34.5	33.4	10	68.2	7.7	<3.0
Naphthalene	176	369	561	ug/kg	<1.6	7.2	12.8	2.8	16.4	3.4	<1.4
Phenanthrene	204	687	1170	ug/kg	<1.8	57.7	62.8	43.9	124	24.9	<1.6
Pyrene	195	858	1520	ug/kg	<3.7	89	101	54.4	176	30.8	<3.4
<b>Total PAH16</b>	<b>1610</b>	<b>12205</b>	<b>22800</b>	<b>ug/kg</b>	<b>0</b>	<b>677.2</b>	<b>678.8</b>	<b>305.1</b>	<b>1314</b>	<b>194.7</b>	<b>0</b>
<b>METALS</b>											
Arsenic	9.8	21.4	33	mg/kg	4.9	6.9	1.7	1.5	2.3	2.3	1.7
Barium	---	---	---	mg/kg	142	43.9	23.6	16.8	40.2	9.4	7.6
Cadmium	0.99	3	5	mg/kg	0.17	0.17	0.084	<0.037	0.14	<0.038	<0.037
Chromium	43	76.5	110	mg/kg	31	17.6	8.8	5.8	14.6	9.1	5.3
Lead	36	83	130	mg/kg	8.7	15.2	8.6	2.5	9.8	2.8	1.8
Mercury	0.18	0.64	1.1	mg/kg	0.036	0.24	0.18	<0.023	0.068	<0.020	<0.020
Selenium	---	---	---	mg/kg	<1.3	<1.2	<0.94	<1.1	<1.5	<1.2	<1.1
Silver	1.6	1.9	2.2	mg/kg	<0.35	<0.33	<0.26	<0.31	<0.42	<0.32	<0.32

\* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application

NOTES:

Bolded = Exceeds TEC

Bolded+Shaded = Exceeds MEC

Red = Exceeds PEC

<= Indicates the analyte was analyzed for but not detected above the reporting limit.

"---"= No standard as set in the Consensus-Based Sediment Quality Guidelines.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram. <sup>1</sup>Toluene exceeded PEC at 2,770 ug/kg

PEC = Probable Effect Concentration. <sup>2</sup>Benzene exceeded TEC at 71.2 ug/kg

MEC = Midpoint Effect Concentration. <sup>3</sup>Benzene exceeded MEC at 97.6 ug/kg

NS = Not sampled. <sup>4</sup>Benzene exceeded PEC at 320 ug/kg

TEC = Threshold Effect Concentration. <sup>5</sup>Benzene exceeded TEC at 75.7 ug/kg

TOC = Total organic carbon

**Table 6**  
**Summary of Sediment Analytical Results**

Sample ID	Sample Date				S24_20-20.5	S25_13.5-14	S25_14-22	S25_14-22DUP
	TEC*	MEC*	PEC*	Units	12/8/16	12/8/16	12/8/16	12/8/16
<b>Paramater</b>								
<b>PAHs</b>								
Acenaphthene	6.7	48	89	ug/kg	<1.5	41.6	158	37.7
Acenaphthylene	5.9	67	128	ug/kg	<1.1	32.8	32.6	33.2
Anthracene	57.2	451	845	ug/kg	<1.8	93.4	711	60.8
Benzo(a)anthracene	108	579	1050	ug/kg	<1.8	200	748	201
Benzo(a)pyrene	150	800	1450	ug/kg	<1.4	214	624	205
Benzo(b)fluoranthene	240	6820	13400	ug/kg	<2.2	215	742	204
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	<1.8	134	283	126
Benzo(k)fluoranthene	240	6820	13400	ug/kg	<1.9	109	281	96.9
Chrysene	166	728	1290	ug/kg	<2.2	179	626	181
Dibenzo(a,h)anthracene	33	84	135	ug/kg	<1.3	38.3	96.4	37.1
Fluoranthene	423	1327	2230	ug/kg	<3.1	331	1620	347
Fluorene	77.4	307	536	ug/kg	<1.5	40	271	29.2
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	<2.9	113	254	99.1
Naphthalene	176	369	561	ug/kg	<1.4	38.3	49.8	23.3
Phenanthrene	204	687	1170	ug/kg	<1.6	243	1670	226
Pyrene	195	858	1520	ug/kg	<3.3	300	1240	335
<b>Total PAH16</b>	<b>1610</b>	<b>12205</b>	<b>22800</b>	<b>ug/kg</b>	<b>0</b>	<b>2322.4</b>	<b>9406.8</b>	<b>2242.3</b>
<b>METALS</b>								
Arsenic	9.8	21.4	33	mg/kg	2.2	2.5	3.1	2.5
Barium	---	---	---	mg/kg	16.2	40.5	49.5	44.2
Cadmium	0.99	3	5	mg/kg	<0.036	0.23	0.32	0.2
Chromium	43	76.5	110	mg/kg	10.5	13.8	18.2	14.8
Lead	36	83	130	mg/kg	2	23.6	34	33.1
Mercury	0.18	0.64	1.1	mg/kg	<0.020	0.3	0.35	0.35
Selenium	---	---	---	mg/kg	<1.1	<1.3	<1.3	<1.2
Silver	1.6	1.9	2.2	mg/kg	<0.30	0.48	0.39	0.55

\* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application

NOTES:

Bolded = Exceeds TEC

Bolded+Shaded = Exceeds MEC

Red = Exceeds PEC

<= Indicates the analyte was analyzed for but not detected above the reporting limit.

"---"= No standard as set in the Consensus-Based Sediment Quality Guidelines.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

<sup>1</sup>Toluene exceeded PEC at 2,770 ug/kg

<sup>2</sup>Benzene exceeded TEC at 71.2 ug/kg

<sup>3</sup>Benzene exceeded MEC at 97.6 ug/kg

<sup>4</sup>Benzene exceeded PEC at 320 ug/kg

<sup>5</sup>Benzene exceeded TEC at 75.7 ug/kg

**Table 7**  
**Summary of Groundwater Analytical Results**

Parameters	Sample ID Sample Date Units NR 140 Public Health ES	MW-1	MW-1	MW-2	MW-2	MW-4
		1/25/17	4/24/17	1/25/17	4/24/17	1/25/17
		ug/L	ug/L	ug/L	ug/L	ug/L
<b>PAHs</b>	<b>ug/L</b>					
1-Methylnaphthalene	None	<0.0069	<0.040	<0.0069	<0.040	0.073
2-Methylnaphthalene	None	<0.011	0.047	<0.011	0.051	0.14
2-Chloronaphthalene	None	<0.0092	<0.040	<0.0092	<0.040	<0.0092
Acenaphthene	None	<0.0095	<0.040	<0.0095	<0.040	<0.0095
Acenaphthylene	None	<0.0092	<0.040	<0.0092	<0.040	<0.0092
Anthracene	3000	<0.0082	<0.040	<0.0082	<0.040	<0.0082
Benzo(a)anthracene	None	<0.0098	<0.040	<0.0098	<0.040	<0.0098
Benzo(a)pyrene	0.2	<0.0025	<0.040	<0.0025	<0.040	<0.0025
Benzo(b)fluoranthene	0.2	<0.0017	<0.040	<0.0017	<0.040	<0.0017
Benzo(e)pyrene	None	<0.002	<0.040	<0.002	<0.040	<0.002
Benzo(g,h,i)perylene	None	<0.002	<0.040	<0.002	<0.040	<0.002
Benzo(k)fluoranthene	None	<0.0099	<0.040	<0.0099	<0.040	<0.0099
Chrysene	0.2	<0.0024	<0.040	<0.0024	<0.040	<0.0024
Dibenz(a,h)anthracene	None	<0.0079	<0.040	<0.0079	<0.040	<0.0079
Dibenzofuran	None	<0.0095	<0.040	<0.0095	<0.040	<0.0095
Fluoranthene	400	<0.0094	<0.040	<0.0094	<0.040	<0.0094
Fluorene	400	<0.0094	<0.040	<0.0094	<0.040	<0.0094
Indeno(1,2,3-cd)pyrene	None	<0.0014	<0.040	<0.0014	<0.040	<0.0014
Naphthalene	100	<0.2	<4.0	<0.2	<4.0	4.7
Phenanthrene	None	<0.0094	<0.040	<0.0094	<0.040	<0.0094
Pyrene	250	<0.0029	<0.040	<0.0029	<0.040	<0.0029
<b>VOCs</b>						
1,1,1,2-Tetrachloroethane	70	<0.17	<1.0	<0.17	<1.0	<830
1,1,1-Trichloroethane	200	<0.17	<4.0	<0.17	<4.0	<850
1,1,2,2-Tetrachloroethane	0.2	<0.22	<1.0	<0.22	<1.0	<1120
1,1,2-Trichloroethane	5	<0.15	<1.0	<0.15	<1.0	<760
1,1,2-Trichlorotrifluoroethane	None	<0.32	<10.0	<0.32	<10.0	<1600
1,1-Dichloroethane	850	<0.17	<1.0	<0.17	<1.0	<855
1,1-Dichloroethene	7	<0.28	<1.0	<0.28	<1.0	<1380
1,1-Dichloropropene	None	<0.23	<1.0	<0.23	<1.0	<1140
1,2,3-Trichlorobenzene	None	<0.21	<1.0	<0.21	<1.0	<1060
1,2,3-Trichloropropane	60	<0.28	<4.0	<0.28	<4.0	<1420
1,2,4-Trichlorobenzene	70	<0.21	<1.0	<0.21	<1.0	<1060
1,2,4-Trimethylbenzene	480*	<0.18	<1.0	<0.18	<1.0	<890
1,2-Dibromo-3-chloropropane	None	<0.6	<4.0	<0.6	<4.0	<3000
1,2-Dibromoethane (EDB)	0.05	<0.2	<1.0	<0.2	<1.0	<1000
1,2-Dichlorobenzene	600	<0.17	<1.0	<0.17	<1.0	<855
1,2-Dichloroethane	5	<0.17	<1.0	<0.17	<1.0	<850
1,2-Dichloropropane	5	<0.22	<4.0	<0.22	<4.0	<1110
1,3,5-Trimethylbenzene	480*	<0.27	<1.0	<0.27	<1.0	<1340
1,3-Dichlorobenzene	600	<0.12	<1.0	<0.12	<1.0	<575
1,3-Dichloropropane	None	<0.096	<1.0	<0.096	<1.0	<480
1,4-Dichlorobenzene	75	<0.21	<1.0	<0.21	<1.0	<1060
2,2-Dichloropropane	None	<0.13	<4.0	<0.13	<4.0	<640
2-Butanone (MEK)	4	<1.1	<5.0	<1.1	<5.0	<5500
2-Chlorotoluene	None	<0.3	<1.0	<0.3	<1.0	<1480
4-Chlorotoluene	None	<0.26	<1.0	<0.26	<1.0	<1280
4-Methyl-2-pentanone (MIBK)	500	<0.43	<5.0	<0.43	<5.0	<2160

**Table 7**  
**Summary of Groundwater Analytical Results**

	Sample ID Sample Date Units	MW-1	MW-1	MW-2	MW-2	MW-4
		1/25/17	4/24/17	1/25/17	4/24/17	1/25/17
		ug/L	ug/L	ug/L	ug/L	ug/L
<b>Parameters</b>	<b>NR 140 Public Health ES</b>					
Acetone	9	<2	<20.0	<2	<20.0	<10000
Allyl chloride	None	<0.25	<4.0	<0.25	<4.0	<1250
Benzene	5	<0.16	<1.0	<0.16	<1.0	<b>418000</b>
Bromobenzene	None	<0.34	<1.0	<0.34	<1.0	<1680
Bromochloromethane	None	<0.19	<1.0	<0.19	<1.0	<930
Bromodichloromethane	0.6	<0.24	<1.0	<0.24	<1.0	<1200
Bromoform	4.4	<0.27	<4.0	<0.27	<4.0	<1370
Bromomethane	10	<0.44	<10.0	<0.44	<10.0	<2220
Carbon tetrachloride	5	<0.2	<1.0	<0.2	<1.0	<985
Chlorobenzene	None	<0.11	<1.0	<0.11	<1.0	<570
Chloroethane	400	<0.34	<1.0	<0.34	<1.0	<1710
Chloroform	6	<0.21	<1.0	<0.21	<1.0	<1050
Chloromethane	30	<0.25	<4.0	<0.25	<4.0	<1230
cis-1,2-Dichloroethene	70	<0.12	<1.0	<0.12	<1.0	<600
Dibromochloromethane	60	<0.16	<1.0	<0.16	<1.0	<785
Dibromomethane	None	<0.19	<4.0	<0.19	<4.0	<970
Dichlorodifluoromethane	1000	<0.23	<1.0	<0.23	<1.0	<1130
Dichlorofluoromethane	None	<0.21	<1.0	<0.21	<1.0	<1070
Diethyl ether (Ethyl ether)	1000	<0.19	<4.0	<0.19	<4.0	<970
Ethylbenzene	700	<0.15	<1.0	<0.15	<1.0	<760
Hexachloro-1,3-butadiene	None	<0.18	<4.0	<0.18	<4.0	<890
Isopropylbenzene (Cumene)	None	<0.25	<1.0	<0.25	<1.0	<1260
Methylene Chloride	5	<0.29	<4.0	<0.29	<4.0	<1460
Methyl-tert-butyl ether	60	<0.15	<1.0	<0.15	<1.0	<745
n-Butylbenzene	None	<0.16	<1.0	<0.16	<1.0	<800
n-Propylbenzene	None	<0.23	<1.0	<0.23	<1.0	<1160
p-Isopropyltoluene	None	<0.19	<4.0	<0.19	<4.0	<970
sec-Butylbenzene	None	<0.19	<4.0	<0.19	<4.0	<945
Styrene	100	<0.29	<1.0	<0.29	<1.0	<1430
tert-Butylbenzene	None	<0.22	<1.0	<0.22	<1.0	<1120
Tetrachloroethene	5	<0.25	<1.0	<0.25	<1.0	<1260
Tetrahydrofuran	50	<1.5	<10.0	<1.5	<10.0	<7500
Toluene	800	<0.14	<1.0	<0.14	<1.0	<b>32100</b>
trans-1,2-Dichloroethene	100	<0.16	<1.0	<0.16	<1.0	<810
trans-1,3-Dichloropropene	0.4	<0.15	<4.0	<0.15	<4.0	<735
Trichloroethene	5	<0.052	<0.40	<0.052	<0.40	<260
Trichlorofluoromethane	None	<0.33	<1.0	<0.33	<1.0	<1630
Vinyl chloride	0.2	<0.069	<0.20	<0.069	<0.20	<345
Xylene (Total)	2	<0.32	<3.0	<0.32	<3.0	<1580

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

\*The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.



**Table 7**  
**Summary of Groundwater Analytical Results**

Parameters	Sample ID Sample Date Units NR 140 Public Health ES	MW-4	MW-5	MW-5	MW-6	MW-6
		4/24/17	1/24/17	4/25/17	1/24/17	4/25/17
		ug/L	ug/L	ug/L	ug/L	ug/L
<b>PAHs</b>	<b>ug/L</b>					
1-Methylnaphthalene	None	<0.040	0.21	0.14	0.92	0.82
2-Methylnaphthalene	None	<0.040	0.16	0.092	0.5	0.47
2-Chloronaphthalene	None	<0.040	0.069	0.24	<0.0092	<0.040
Acenaphthene	None	<0.040	0.46	0.27	1.3	1.1
Acenaphthylene	None	<0.040	<0.0092	<0.040	0.057	0.07
Anthracene	3000	<0.040	0.045	<0.040	0.11	0.095
Benzo(a)anthracene	None	<0.040	<0.0098	<0.040	<0.0098	<0.040
Benzo(a)pyrene	0.2	<0.040	<0.0025	<0.040	<0.0025	<0.040
Benzo(b)fluoranthene	0.2	<0.040	<0.0017	<0.040	<0.0017	<0.040
Benzo(e)pyrene	None	<0.040	<0.002	<0.040	<0.002	<0.040
Benzo(g,h,i)perylene	None	<0.040	<0.002	<0.040	<0.002	<0.040
Benzo(k)fluoranthene	None	<0.040	<0.0099	<0.040	<0.0099	<0.040
Chrysene	0.2	<0.040	<0.0024	<0.040	<0.0024	<0.040
Dibenz(a,h)anthracene	None	<0.040	<0.0079	<0.040	<0.0079	<0.040
Dibenzofuran	None	<0.040	0.15	0.096	<0.0095	<0.040
Fluoranthene	400	<0.040	<0.0094	0.041	0.26	0.35
Fluorene	400	<0.040	0.22	0.15	0.14	0.083
Indeno(1,2,3-cd)pyrene	None	<0.040	<0.0014	<0.040	<0.0014	<0.040
Naphthalene	100	1.3	1.3	1.2	2.1	2.9
Phenanthrene	None	<0.040	0.12	0.18	0.58	0.77
Pyrene	250	<0.040	<0.0029	<0.040	0.34	0.39
<b>VOCs</b>						
1,1,1,2-Tetrachloroethane	70	<500	<0.17	<1.0	<0.17	<1.0
1,1,1-Trichloroethane	200	<2000	<0.17	<4.0	<0.17	<4.0
1,1,2,2-Tetrachloroethane	0.2	<500	<0.22	<1.0	<0.22	<1.0
1,1,2-Trichloroethane	5	<500	<0.15	<1.0	<0.15	<1.0
1,1,2-Trichlorotrifluoroethane	None	<5000	<0.32	<10.0	<0.32	<10.0
1,1-Dichloroethane	850	<500	<0.17	<1.0	<0.17	<1.0
1,1-Dichloroethene	7	<500	<0.28	<1.0	<0.28	<1.0
1,1-Dichloropropene	None	<500	<0.23	<1.0	<0.23	<1.0
1,2,3-Trichlorobenzene	None	<500	<0.21	<1.0	<0.21	<1.0
1,2,3-Trichloropropane	60	<2000	<0.28	<4.0	<0.28	<4.0
1,2,4-Trichlorobenzene	70	<500	<0.21	<1.0	<0.21	<1.0
1,2,4-Trimethylbenzene	480*	<500	<0.18	<1.0	<0.18	<1.0
1,2-Dibromo-3-chloropropane	None	<2000	<0.6	<4.0	<0.6	<4.0
1,2-Dibromoethane (EDB)	0.05	<500	<0.2	<1.0	<0.2	<1.0
1,2-Dichlorobenzene	600	<500	<0.17	<1.0	<0.17	<1.0
1,2-Dichloroethane	5	<500	<0.17	<1.0	<0.17	<1.0
1,2-Dichloropropane	5	<2000	<0.22	<4.0	<0.22	<4.0
1,3,5-Trimethylbenzene	480*	<500	<0.27	<1.0	<0.27	<1.0
1,3-Dichlorobenzene	600	<500	<0.12	<1.0	<0.12	<1.0
1,3-Dichloropropane	None	<500	<0.096	<1.0	<0.096	<1.0
1,4-Dichlorobenzene	75	<500	<0.21	<1.0	<0.21	<1.0
2,2-Dichloropropane	None	<2000	<0.13	<4.0	<0.13	<4.0
2-Butanone (MEK)	4	<2500	<1.1	<5.0	<1.1	<5.0
2-Chlorotoluene	None	<500	<0.3	<1.0	<0.3	<1.0
4-Chlorotoluene	None	<500	<0.26	<1.0	<0.26	<1.0
4-Methyl-2-pentanone (MIBK)	500	<2500	<0.43	<5.0	<0.43	<5.0

**Table 7**  
**Summary of Groundwater Analytical Results**

Parameters	Sample ID Sample Date Units	MW-4	MW-5	MW-5	MW-6	MW-6
		4/24/17	1/24/17	4/25/17	1/24/17	4/25/17
		ug/L	ug/L	ug/L	ug/L	ug/L
	<b>NR 140 Public Health ES</b>					
Acetone	9	<10000	<2	<20.0	<b>28.4</b>	<b>46.4</b>
Allyl chloride	None	<2000	<0.25	<4.0	<0.25	<4.0
Benzene	5	<b>186000</b>	<0.16	2.2	1.5	<1.0
Bromobenzene	None	<500	<0.34	<1.0	<0.34	<1.0
Bromochloromethane	None	<500	<0.19	<1.0	<0.19	<1.0
Bromodichloromethane	0.6	<500	<0.24	<1.0	<0.24	<1.0
Bromoform	4.4	<2000	<0.27	<4.0	<0.27	<4.0
Bromomethane	10	<5000	<0.44	<10.0	<0.44	<10.0
Carbon tetrachloride	5	<500	<0.2	<1.0	<0.2	<1.0
Chlorobenzene	None	<500	<0.11	<1.0	<0.11	<1.0
Chloroethane	400	<500	<0.34	<1.0	<0.34	<1.0
Chloroform	6	<500	<0.21	<1.0	<0.21	<1.0
Chloromethane	30	<2000	<0.25	<4.0	<0.25	<4.0
cis-1,2-Dichloroethene	70	<500	<0.12	<1.0	<0.12	<1.0
Dibromochloromethane	60	<500	<0.16	<1.0	<0.16	<1.0
Dibromomethane	None	<2000	<0.19	<4.0	<0.19	<4.0
Dichlorodifluoromethane	1000	<500	<0.23	<1.0	<0.23	<1.0
Dichlorofluoromethane	None	<500	<0.21	<1.0	<0.21	<1.0
Diethyl ether (Ethyl ether)	1000	<2000	<0.19	<4.0	<0.19	<4.0
Ethylbenzene	700	<500	<0.15	<1.0	<0.15	<1.0
Hexachloro-1,3-butadiene	None	<2000	<0.18	<4.0	<0.18	<4.0
Isopropylbenzene (Cumene)	None	<500	<0.25	<1.0	<0.25	<1.0
Methylene Chloride	5	<2000	<0.29	<4.0	<0.29	<4.0
Methyl-tert-butyl ether	60	<500	<0.15	<1.0	<0.15	<1.0
n-Butylbenzene	None	<500	<0.16	<1.0	<0.16	<1.0
n-Propylbenzene	None	<500	<0.23	<1.0	<0.23	<1.0
p-Isopropyltoluene	None	<2000	<0.19	<4.0	<0.19	<4.0
sec-Butylbenzene	None	<2000	<0.19	<4.0	<0.19	<4.0
Styrene	100	<500	<0.29	<1.0	<0.29	<1.0
tert-Butylbenzene	None	<500	<0.22	<1.0	<0.22	<1.0
Tetrachloroethene	5	<500	<0.25	<1.0	<0.25	<1.0
Tetrahydrofuran	50	<5000	<1.5	<10.0	<1.5	<10.0
Toluene	800	<b>1250</b>	<0.14	2.4	<0.14	4.7
trans-1,2-Dichloroethene	100	<500	<0.16	<1.0	<0.16	<1.0
trans-1,3-Dichloropropene	0.4	<2000	<0.15	<4.0	<0.15	<4.0
Trichloroethene	5	<200	<0.052	<0.40	<0.052	<0.40
Trichlorofluoromethane	None	<500	<0.33	<1.0	<0.33	<1.0
Vinyl chloride	0.2	<100	<0.069	<0.20	<0.069	<0.20
Xylene (Total)	2	<1500	<0.32	<3.0	<0.32	<3.0

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory report for full list.  
\*The enforcement standard is 480 ug/L for the sum of all trimethyl

**Table 7**  
**Summary of Groundwater Analytical Results**

Parameters	Sample ID Sample Date Units	MW-7	MW-7	MW-8	MW-8
		1/24/17	4/25/17	1/25/17	4/25/17
		ug/L	ug/L	ug/L	ug/L
	NR 140 Public Health ES				
<b>PAHs</b>	<b>ug/L</b>				
1-Methylnaphthalene	None	3.6	1.5	56.5	14.8
2-Methylnaphthalene	None	4.3	1.7	63.8	16.4
2-Chloronaphthalene	None	<0.0092	<0.040	0.13	0.055
Acenaphthene	None	2.2	1.3	44.7	20.2
Acenaphthylene	None	0.77	0.44	6.7	2.5
Anthracene	3000	0.66	0.22	4.2	3.4
Benzo(a)anthracene	None	0.049	<0.040	0.15	0.2
Benzo(a)pyrene	0.2	0.1	0.048	<0.0025	<0.040
Benzo(b)fluoranthene	0.2	0.082	0.043	0.048	0.061
Benzo(e)pyrene	None	0.063	<0.040	<0.002	<0.040
Benzo(g,h,i)perylene	None	0.098	<0.040	<0.002	<0.040
Benzo(k)fluoranthene	None	0.035	<0.040	<0.0099	<0.040
Chrysene	0.2	0.06	<0.040	0.15	0.16
Dibenz(a,h)anthracene	None	<0.0079	<0.040	<0.0079	<0.040
Dibenzofuran	None	0.056	<0.040	0.64	0.23
Fluoranthene	400	0.43	0.24	2.2	4.3
Fluorene	400	1.1	0.62	11.9	4.6
Indeno(1,2,3-cd)pyrene	None	0.066	<0.040	<0.0014	<0.040
Naphthalene	100	216	81.9	439	125
Phenanthrene	None	1.9	0.84	19	9.6
Pyrene	250	0.68	0.27	3.4	3.3
<b>VOCs</b>					
1,1,1,2-Tetrachloroethane	70	<41.5	<250	<83	<200
1,1,1-Trichloroethane	200	<42.5	<1000	<85	<800
1,1,2,2-Tetrachloroethane	0.2	<56.2	<250	<112	<200
1,1,2-Trichloroethane	5	<38	<250	<76	<200
1,1,2-Trichlorotrifluoroethane	None	<80	<2500	<160	<2000
1,1-Dichloroethane	850	<42.8	<250	<85.5	<200
1,1-Dichloroethene	7	<69.2	<250	<138	<200
1,1-Dichloropropene	None	<56.8	<250	<114	<200
1,2,3-Trichlorobenzene	None	<53.2	<250	<106	<200
1,2,3-Trichloropropane	60	<71	<1000	<142	<800
1,2,4-Trichlorobenzene	70	<53.2	<250	<106	<200
1,2,4-Trimethylbenzene	480*	388	<250	657	260
1,2-Dibromo-3-chloropropane	None	<150	<1000	<300	<800
1,2-Dibromoethane (EDB)	0.05	<50	<250	<100	<200
1,2-Dichlorobenzene	600	<42.8	<250	<85.5	<200
1,2-Dichloroethane	5	<42.5	<250	<85	<200
1,2-Dichloropropane	5	<55.5	<1000	<111	<800
1,3,5-Trimethylbenzene	480*	<67.2	<250	<134	<200
1,3-Dichlorobenzene	600	<28.8	<250	<57.5	<200
1,3-Dichloropropane	None	<24	<250	<48	<200
1,4-Dichlorobenzene	75	<52.8	<250	<106	<200
2,2-Dichloropropane	None	<32	<1000	<64	<800
2-Butanone (MEK)	4	<275	<1250	<550	<1000
2-Chlorotoluene	None	<73.8	<250	<148	<200
4-Chlorotoluene	None	<63.8	<250	<128	<200
4-Methyl-2-pentanone (MIBK)	500	<108	<1250	<216	<1000

**Table 7**  
**Summary of Groundwater Analytical Results**

	Sample ID Sample Date Units	MW-7	MW-7	MW-8	MW-8
		1/24/17	4/25/17	1/25/17	4/25/17
		ug/L	ug/L	ug/L	ug/L
Parameters	NR 140 Public Health ES				
Acetone	9	<502	<5000	<1000	<4000
Allyl chloride	None	<62.5	<1000	<125	<800
Benzene	5	<b>59200</b>	<b>32800</b>	<b>63800</b>	<b>22600</b>
Bromobenzene	None	<84.2	<250	<168	<200
Bromochloromethane	None	<46.5	<250	<93	<200
Bromodichloromethane	0.6	<60	<250	<120	<200
Bromoform	4.4	<68.5	<1000	<137	<800
Bromomethane	10	<111	<2500	<222	<2000
Carbon tetrachloride	5	<49.2	<250	<98.5	<200
Chlorobenzene	None	<28.5	<250	<57	<200
Chloroethane	400	<85.5	<250	<171	<200
Chloroform	6	<52.5	<250	<105	<200
Chloromethane	30	<61.5	<1000	<123	<800
cis-1,2-Dichloroethene	70	<30	<250	<60	<200
Dibromochloromethane	60	<39.2	<250	<78.5	<200
Dibromomethane	None	<48.5	<1000	<97	<800
Dichlorodifluoromethane	1000	<56.5	<250	<113	<200
Dichlorofluoromethane	None	<53.5	<250	<107	<200
Diethyl ether (Ethyl ether)	1000	<48.5	<1000	<97	<800
Ethylbenzene	700	<b>2970</b>	<b>1480</b>	<b>1060</b>	263
Hexachloro-1,3-butadiene	None	<44.5	<1000	<89	<800
Isopropylbenzene (Cumene)	None	<63.2	<250	<126	<200
Methylene Chloride	5	<73.2	<1000	<146	<800
Methyl-tert-butyl ether	60	<37.2	<250	<74.5	<200
n-Butylbenzene	None	<40	<250	<80	<200
n-Propylbenzene	None	<58.2	<250	<116	<200
p-Isopropyltoluene	None	<48.5	<1000	<97	<800
sec-Butylbenzene	None	<47.2	<1000	<94.5	<800
Styrene	100	<b>2290</b>	<b>320</b>	<b>4490</b>	<b>955</b>
tert-Butylbenzene	None	<55.8	<250	<112	<200
Tetrachloroethene	5	<63.2	<250	<126	<200
Tetrahydrofuran	50	<375	<2500	<750	<2000
Toluene	800	<b>58900</b>	<b>16200</b>	<b>58500</b>	<b>16000</b>
trans-1,2-Dichloroethene	100	<40.5	<250	<81	<200
trans-1,3-Dichloropropene	0.4	<36.8	<1000	<73.5	<800
Trichloroethene	5	<13	<100	<26	<80.0
Trichlorofluoromethane	None	<81.5	<250	<163	<200
Vinyl chloride	0.2	<17.2	<50.0	<34.5	<40.0
Xylene (Total)	2	<b>19600</b>	<b>6760</b>	<b>17800</b>	<b>4310</b>

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory report for details.  
\*The enforcement standard is 480 ug/L for the sum of all trimethyl

**Table 7**  
**Summary of Groundwater Analytical Results**

Paramters	Sample ID Sample Date Units NR 140 Public Health ES	MW-08 DUP	MW-9	MW-9	MW-10
		4/25/17	1/25/17	4/25/17	1/25/17
		ug/L	ug/L	ug/L	ug/L
<b>PAHs</b>	<b>ug/L</b>				
1-Methylnaphthalene	None	15.9	118	36.4	35.9
2-Methylnaphthalene	None	16.9	142	34.8	6.2
2-Chloronaphthalene	None	0.059	0.2	0.1	0.067
Acenaphthene	None	21.3	93.4	44.3	29.2
Acenaphthylene	None	2.7	2.6	1	0.43
Anthracene	3000	3.7	8.7	5.1	1.5
Benzo(a)anthracene	None	0.22	0.9	0.83	0.15
Benzo(a)pyrene	0.2	<0.040	<b>0.51</b>	<b>0.56</b>	0.16
Benzo(b)fluoranthene	0.2	0.059	<b>0.44</b>	<b>0.5</b>	0.13
Benzo(e)pyrene	None	<0.040	0.31	0.32	0.095
Benzo(g,h,i)perylene	None	<0.040	0.17	0.21	0.081
Benzo(k)fluoranthene	None	<0.040	0.13	0.12	0.038
Chrysene	0.2	0.18	<b>0.95</b>	<b>0.68</b>	0.18
Dibenz(a,h)anthracene	None	<0.040	<0.0079	0.049	<0.0079
Dibenzofuran	None	0.25	1.2	0.5	0.27
Fluoranthene	400	4.7	4.2	4.8	0.75
Fluorene	400	4.7	23.7	12.6	6
Indeno(1,2,3-cd)pyrene	None	<0.040	0.12	0.16	0.06
Naphthalene	100	<b>133</b>	<b>948</b>	<b>136</b>	90.6
Phenanthrene	None	10.2	39.4	29.7	5.9
Pyrene	250	3.4	7.1	4.5	1.2
<b>VOCs</b>					
1,1,1,2-Tetrachloroethane	70	<200	<16.6	<5.0	<8.3
1,1,1-Trichloroethane	200	<800	<17	<20.0	<8.5
1,1,2,2-Tetrachloroethane	0.2	<200	<22.5	<5.0	<11.2
1,1,2-Trichloroethane	5	<200	<15.2	<5.0	<7.6
1,1,2-Trichlorotrifluoroethane	None	<2000	<32	<50.0	<16
1,1-Dichloroethane	850	<200	<17.1	<5.0	<8.6
1,1-Dichloroethene	7	<200	<27.7	<5.0	<13.8
1,1-Dichloropropene	None	<200	<22.7	<5.0	<11.4
1,2,3-Trichlorobenzene	None	<200	<21.3	<5.0	<10.6
1,2,3-Trichloropropane	60	<800	<28.4	<20.0	<14.2
1,2,4-Trichlorobenzene	70	<200	<21.3	<5.0	<10.6
1,2,4-Trimethylbenzene	480*	<200	135	34.8	<8.9
1,2-Dibromo-3-chloropropane	None	<800	<60	<20.0	<30
1,2-Dibromoethane (EDB)	0.05	<200	<20	<5.0	<10
1,2-Dichlorobenzene	600	<200	<17.1	<5.0	<8.6
1,2-Dichloroethane	5	<200	<17	<5.0	<8.5
1,2-Dichloropropane	5	<800	<22.2	<20.0	<11.1
1,3,5-Trimethylbenzene	480*	<200	<26.9	10.4	<13.4
1,3-Dichlorobenzene	600	<200	<11.5	<5.0	<5.8
1,3-Dichloropropane	None	<200	<9.6	<5.0	<4.8
1,4-Dichlorobenzene	75	<200	<21.1	<5.0	<10.6
2,2-Dichloropropane	None	<800	<12.8	<20.0	<6.4
2-Butanone (MEK)	4	<1000	<110	<25.0	<55
2-Chlorotoluene	None	<200	<29.5	<5.0	<14.8
4-Chlorotoluene	None	<200	<25.5	<5.0	<12.8
4-Methyl-2-pentanone (MIBK)	500	<1000	<43.2	<25.0	<21.6

**Table 7**  
**Summary of Groundwater Analytical Results**

Parameters	Sample ID Sample Date Units	MW-08 DUP	MW-9	MW-9	MW-10
		4/25/17	1/25/17	4/25/17	1/25/17
		ug/L	ug/L	ug/L	ug/L
	<b>NR 140 Public Health ES</b>				
Acetone	9	<4000	<201	<100	<100
Allyl chloride	None	<800	<25	<20.0	<12.5
Benzene	5	<b>25000</b>	<b>15100</b>	<b>948</b>	<b>12000</b>
Bromobenzene	None	<200	<33.7	<5.0	<16.8
Bromochloromethane	None	<200	<18.6	<5.0	<9.3
Bromodichloromethane	0.6	<200	<24	<5.0	<12
Bromoform	4.4	<800	<27.4	<20.0	<13.7
Bromomethane	10	<2000	<44.3	<50.0	<22.2
Carbon tetrachloride	5	<200	<19.7	<5.0	<9.8
Chlorobenzene	None	<200	<11.4	<5.0	<5.7
Chloroethane	400	<200	<34.2	<5.0	<17.1
Chloroform	6	<200	<21	<5.0	<10.5
Chloromethane	30	<800	<24.6	<20.0	<12.3
cis-1,2-Dichloroethene	70	<200	<12	<5.0	<6
Dibromochloromethane	60	<200	<15.7	<5.0	<7.8
Dibromomethane	None	<800	<19.4	<20.0	<9.7
Dichlorodifluoromethane	1000	<200	<22.6	<5.0	<11.3
Dichlorofluoromethane	None	<200	<21.4	<5.0	<10.7
Diethyl ether (Ethyl ether)	1000	<800	<19.4	<20.0	<9.7
Ethylbenzene	700	278	<b>874</b>	145	101
Hexachloro-1,3-butadiene	None	<800	<17.8	<20.0	<8.9
Isopropylbenzene (Cumene)	None	<200	<25.3	<5.0	<12.6
Methylene Chloride	5	<800	<29.3	<20.0	<14.6
Methyl-tert-butyl ether	60	<200	<14.9	<5.0	<7.4
n-Butylbenzene	None	<200	<16	<5.0	<8
n-Propylbenzene	None	<200	<23.3	<5.0	<11.6
p-Isopropyltoluene	None	<800	<19.4	<20.0	<9.7
sec-Butylbenzene	None	<800	<18.9	<20.0	<9.4
Styrene	100	<b>1090</b>	<b>286</b>	6.2	<b>105</b>
tert-Butylbenzene	None	<200	<22.3	<5.0	<11.2
Tetrachloroethene	5	<200	<25.3	<5.0	<12.6
Tetrahydrofuran	50	<2000	<150	<50.0	<75
Toluene	800	<b>17900</b>	<b>12200</b>	278	<b>3120</b>
trans-1,2-Dichloroethene	100	<200	<16.2	<5.0	<8.1
trans-1,3-Dichloropropene	0.4	<800	<14.7	<20.0	<7.4
Trichloroethene	5	<80.0	<5.2	<2.0	<2.6
Trichlorofluoromethane	None	<200	<32.6	<5.0	<16.3
Vinyl chloride	0.2	<40.0	<6.9	<1.0	<3.4
Xylene (Total)	2	<b>4730</b>	<b>3070</b>	<b>333</b>	557

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory report for full list.  
\*The enforcement standard is 480 ug/L for the sum of all trimethylbenzenes.

**Table 7**  
**Summary of Groundwater Analytical Results**

Parameters	Sample ID Sample Date Units	MW-10	MW-11	MW-11	MW-12	MW-12
		4/25/17	1/24/17	4/25/17	1/24/17	4/25/17
		ug/L	ug/L	ug/L	ug/L	ug/L
	NR 140 Public Health ES					
<b>PAHs</b>	<b>ug/L</b>					
1-Methylnaphthalene	None	11.7	3.9	3.6	11.2	24.3
2-Methylnaphthalene	None	0.21	0.18	0.65	0.047	<0.040
2-Chloronaphthalene	None	<0.040	<0.0092	<0.040	0.042	0.11
Acenaphthene	None	10.9	6.1	4	24.9	43
Acenaphthylene	None	0.36	0.046	0.041	0.17	0.44
Anthracene	3000	0.62	0.091	0.05	1.2	3.7
Benzo(a)anthracene	None	0.16	<0.0098	<0.040	0.066	0.061
Benzo(a)pyrene	0.2	0.27	<0.0025	<0.040	<0.0025	<0.040
Benzo(b)fluoranthene	0.2	0.21	<0.0017	<0.040	<0.0017	<0.040
Benzo(e)pyrene	None	0.18	<0.002	<0.040	<0.002	<0.040
Benzo(g,h,i)perylene	None	0.18	<0.002	<0.040	<0.002	<0.040
Benzo(k)fluoranthene	None	0.072	<0.0099	<0.040	<0.0099	<0.040
Chrysene	0.2	0.17	<0.0024	<0.040	0.067	0.059
Dibenz(a,h)anthracene	None	<0.040	<0.0079	<0.040	<0.0079	<0.040
Dibenzofuran	None	0.098	<0.0095	<0.040	0.44	0.8
Fluoranthene	400	0.53	<0.0094	<0.040	0.88	1.5
Fluorene	400	2.1	1.2	0.61	6	9.1
Indeno(1,2,3-cd)pyrene	None	0.12	<0.0014	<0.040	<0.0014	<0.040
Naphthalene	100	5.6	0.26	2.5	0.59	1.2
Phenanthrene	None	1.7	0.62	0.3	5.7	14.2
Pyrene	250	0.63	<0.0029	<0.040	1.1	1.5
<b>VOCs</b>						
1,1,1,2-Tetrachloroethane	70	<25.0	<0.17	<1.0	<0.17	<1.0
1,1,1-Trichloroethane	200	<100	<0.17	<4.0	<0.17	<4.0
1,1,2,2-Tetrachloroethane	0.2	<25.0	<0.22	<1.0	<0.22	<1.0
1,1,2-Trichloroethane	5	<25.0	<0.15	<1.0	<0.15	<1.0
1,1,2-Trichlorotrifluoroethane	None	<250	<0.32	<10.0	<0.32	<10.0
1,1-Dichloroethane	850	<25.0	<0.17	<1.0	<0.17	<1.0
1,1-Dichloroethene	7	<25.0	<0.28	<1.0	<0.28	<1.0
1,1-Dichloropropene	None	<25.0	<0.23	<1.0	<0.23	<1.0
1,2,3-Trichlorobenzene	None	<25.0	<0.21	<1.0	<0.21	<1.0
1,2,3-Trichloropropane	60	<100	<0.28	<4.0	<0.28	<4.0
1,2,4-Trichlorobenzene	70	<25.0	<0.21	<1.0	<0.21	<1.0
1,2,4-Trimethylbenzene	480*	<25.0	<0.18	2.1	2.4	9.5
1,2-Dibromo-3-chloropropane	None	<100	<0.6	<4.0	<0.6	<4.0
1,2-Dibromoethane (EDB)	0.05	<25.0	<0.2	<1.0	<0.2	<1.0
1,2-Dichlorobenzene	600	<25.0	<0.17	<1.0	<0.17	<1.0
1,2-Dichloroethane	5	<25.0	<0.17	<1.0	<0.17	<1.0
1,2-Dichloropropane	5	<100	<0.22	<4.0	<0.22	<4.0
1,3,5-Trimethylbenzene	480*	<25.0	<0.27	<1.0	<0.27	<1.0
1,3-Dichlorobenzene	600	<25.0	<0.12	<1.0	<0.12	<1.0
1,3-Dichloropropane	None	<25.0	<0.096	<1.0	<0.096	<1.0
1,4-Dichlorobenzene	75	<25.0	<0.21	<1.0	<0.21	<1.0
2,2-Dichloropropane	None	<100	<0.13	<4.0	<0.13	<4.0
2-Butanone (MEK)	4	<125	<1.1	<5.0	<1.1	<5.0
2-Chlorotoluene	None	<25.0	<0.3	<1.0	<0.3	<1.0
4-Chlorotoluene	None	<25.0	<0.26	<1.0	<0.26	<1.0
4-Methyl-2-pentanone (MIBK)	500	<125	<0.43	<5.0	<0.43	<5.0



**Table 7**  
**Summary of Groundwater Analytical Results**

	Sample ID Sample Date Units	MW-10	MW-11	MW-11	MW-12	MW-12
		4/25/17	1/24/17	4/25/17	1/24/17	4/25/17
		ug/L	ug/L	ug/L	ug/L	ug/L
<b>Parameters</b>	<b>NR 140 Public Health ES</b>					
Acetone	9	<500	<2	<20.0	<2	<20.0
Allyl chloride	None	<100	<0.25	<4.0	<0.25	<4.0
Benzene	5	9800	<0.16	<1.0	255	654
Bromobenzene	None	<25.0	<0.34	<1.0	<0.34	<1.0
Bromochloromethane	None	<25.0	<0.19	<1.0	<0.19	<1.0
Bromodichloromethane	0.6	<25.0	<0.24	<1.0	<0.24	<1.0
Bromoform	4.4	<100	<0.27	<4.0	<0.27	<4.0
Bromomethane	10	<250	<0.44	<10.0	<0.44	<10.0
Carbon tetrachloride	5	<25.0	<0.2	<1.0	<0.2	<1.0
Chlorobenzene	None	<25.0	<0.11	<1.0	<0.11	<1.0
Chloroethane	400	<25.0	<0.34	<1.0	<0.34	<1.0
Chloroform	6	<25.0	<0.21	<1.0	<0.21	<1.0
Chloromethane	30	<100	<0.25	<4.0	<0.25	<4.0
cis-1,2-Dichloroethene	70	<25.0	<0.12	<1.0	<0.12	<1.0
Dibromochloromethane	60	<25.0	<0.16	<1.0	<0.16	<1.0
Dibromomethane	None	<100	<0.19	<4.0	<0.19	<4.0
Dichlorodifluoromethane	1000	<25.0	<0.23	<1.0	<0.23	<1.0
Dichlorofluoromethane	None	<25.0	<0.21	<1.0	<0.21	<1.0
Diethyl ether (Ethyl ether)	1000	<100	<0.19	<4.0	<0.19	<4.0
Ethylbenzene	700	25.9	<0.15	<1.0	<0.15	1.4
Hexachloro-1,3-butadiene	None	<100	<0.18	<4.0	<0.18	<4.0
Isopropylbenzene (Cumene)	None	<25.0	<0.25	<1.0	1.8	3.2
Methylene Chloride	5	<100	<0.29	<4.0	<0.29	<4.0
Methyl-tert-butyl ether	60	<25.0	<0.15	<1.0	<0.15	<1.0
n-Butylbenzene	None	<25.0	<0.16	<1.0	<0.16	<1.0
n-Propylbenzene	None	<25.0	<0.23	<1.0	<0.23	<1.0
p-Isopropyltoluene	None	<100	<0.19	<4.0	<0.19	<4.0
sec-Butylbenzene	None	<100	<0.19	<4.0	<0.19	<4.0
Styrene	100	<25.0	<0.29	<1.0	<0.29	<1.0
tert-Butylbenzene	None	<25.0	<0.22	<1.0	<0.22	<1.0
Tetrachloroethene	5	<25.0	<0.25	<1.0	<0.25	<1.0
Tetrahydrofuran	50	<250	<1.5	<10.0	<1.5	<10.0
Toluene	800	<25.0	<0.14	3.5	<0.14	<1.0
trans-1,2-Dichloroethene	100	<25.0	<0.16	<1.0	<0.16	<1.0
trans-1,3-Dichloropropene	0.4	<100	<0.15	<4.0	<0.15	<4.0
Trichloroethene	5	<10.0	<0.052	<0.40	<0.052	<0.40
Trichlorofluoromethane	None	<25.0	<0.33	<1.0	<0.33	<1.0
Vinyl chloride	0.2	<5.0	<0.069	<0.20	<0.069	<0.20
Xylene (Total)	2	<75.0	<0.32	<3.0	<0.32	7

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory report for full list.  
\*The enforcement standard is 480 ug/L for the sum of all trimethylbenzenes.

**Table 7**  
**Summary of Groundwater Analytical Results**

Parameters	Sample ID Sample Date Units	MW-13	MW-13	MW-14	MW-14 DUP
		1/25/17	4/24/17	1/25/17	1/25/17
		ug/L	ug/L	ug/L	ug/L
	<b>NR 140 Public Health ES</b>				
<b>PAHs</b>	<b>ug/L</b>				
1-Methylnaphthalene	None	<0.0069	<0.040	<0.0069	<0.0069
2-Methylnaphthalene	None	<0.011	<0.040	<0.011	<0.011
2-Chloronaphthalene	None	<0.0092	<0.040	<0.0092	<0.0092
Acenaphthene	None	<0.0095	<0.040	<0.0095	<0.0095
Acenaphthylene	None	<0.0092	<0.040	<0.0092	<0.0092
Anthracene	3000	<0.0082	<0.040	<0.0082	<0.0082
Benzo(a)anthracene	None	<0.0098	<0.040	<0.0098	<0.0098
Benzo(a)pyrene	0.2	<0.0025	<0.040	<0.0025	<0.0025
Benzo(b)fluoranthene	0.2	<0.0017	<0.040	<0.0017	<0.0017
Benzo(e)pyrene	None	<0.002	<0.040	<0.002	<0.002
Benzo(g,h,i)perylene	None	<0.002	<0.040	<0.002	<0.002
Benzo(k)fluoranthene	None	<0.0099	<0.040	<0.0099	<0.0099
Chrysene	0.2	<0.0024	<0.040	<0.0024	<0.0024
Dibenz(a,h)anthracene	None	<0.0079	<0.040	<0.0079	<0.0079
Dibenzofuran	None	<0.0095	<0.040	<0.0095	<0.0095
Fluoranthene	400	<0.0094	<0.040	<0.0094	<0.0094
Fluorene	400	<0.0094	<0.040	<0.0094	<0.0094
Indeno(1,2,3-cd)pyrene	None	<0.0014	<0.040	<0.0014	<0.0014
Naphthalene	100	<0.2	<4.0	<0.2	<0.2
Phenanthrene	None	<0.0094	<0.040	<0.0094	<0.0094
Pyrene	250	<0.0029	<0.040	<0.0029	<0.0029
<b>VOCs</b>					
1,1,1,2-Tetrachloroethane	70	<0.17	<1.0	<0.17	<0.17
1,1,1-Trichloroethane	200	<0.17	<4.0	<0.17	<0.17
1,1,2,2-Tetrachloroethane	0.2	<0.22	<1.0	<0.22	<0.22
1,1,2-Trichloroethane	5	<0.15	<1.0	<0.15	<0.15
1,1,2-Trichlorotrifluoroethane	None	<0.32	<10.0	<0.32	<0.32
1,1-Dichloroethane	850	<0.17	<1.0	<0.17	<0.17
1,1-Dichloroethene	7	<0.28	<1.0	<0.28	<0.28
1,1-Dichloropropene	None	<0.23	<1.0	<0.23	<0.23
1,2,3-Trichlorobenzene	None	<0.21	<1.0	<0.21	<0.21
1,2,3-Trichloropropane	60	<0.28	<4.0	<0.28	<0.28
1,2,4-Trichlorobenzene	70	<0.21	<1.0	<0.21	<0.21
1,2,4-Trimethylbenzene	480*	<0.18	<1.0	<0.18	<0.18
1,2-Dibromo-3-chloropropane	None	<0.6	<4.0	<0.6	<0.6
1,2-Dibromoethane (EDB)	0.05	<0.2	<1.0	<0.2	<0.2
1,2-Dichlorobenzene	600	<0.17	<1.0	<0.17	<0.17
1,2-Dichloroethane	5	<0.17	<1.0	<0.17	<0.17
1,2-Dichloropropane	5	<0.22	<4.0	<0.22	<0.22
1,3,5-Trimethylbenzene	480*	<0.27	<1.0	<0.27	<0.27
1,3-Dichlorobenzene	600	<0.12	<1.0	<0.12	<0.12
1,3-Dichloropropane	None	<0.096	<1.0	<0.096	<0.096
1,4-Dichlorobenzene	75	<0.21	<1.0	<0.21	<0.21
2,2-Dichloropropane	None	<0.13	<4.0	<0.13	<0.13
2-Butanone (MEK)	4	<1.1	<5.0	<1.1	<1.1
2-Chlorotoluene	None	<0.3	<1.0	<0.3	<0.3
4-Chlorotoluene	None	<0.26	<1.0	<0.26	<0.26
4-Methyl-2-pentanone (MIBK)	500	<0.43	<5.0	<0.43	<0.43

**Table 7**  
**Summary of Groundwater Analytical Results**

Parameters	Sample ID Sample Date Units	MW-13	MW-13	MW-14	MW-14 DUP
		1/25/17	4/24/17	1/25/17	1/25/17
		ug/L	ug/L	ug/L	ug/L
	<b>NR 140 Public Health ES</b>				
Acetone	9	<2	<20.0	<2	<2
Allyl chloride	None	<0.25	<4.0	<0.25	<0.25
Benzene	5	<0.16	<1.0	<0.16	<0.16
Bromobenzene	None	<0.34	<1.0	<0.34	<0.34
Bromochloromethane	None	<0.19	<1.0	<0.19	<0.19
Bromodichloromethane	0.6	<0.24	<1.0	<0.24	<0.24
Bromoform	4.4	<0.27	<4.0	<0.27	<0.27
Bromomethane	10	<0.44	<10.0	<0.44	<0.44
Carbon tetrachloride	5	<0.2	<1.0	<0.2	<0.2
Chlorobenzene	None	<0.11	<1.0	<0.11	<0.11
Chloroethane	400	<0.34	<1.0	<0.34	<0.34
Chloroform	6	<0.21	<1.0	<0.21	<0.21
Chloromethane	30	<0.25	<4.0	<0.25	<0.25
cis-1,2-Dichloroethene	70	<0.12	<1.0	<0.12	<0.12
Dibromochloromethane	60	<0.16	<1.0	<0.16	<0.16
Dibromomethane	None	<0.19	<4.0	<0.19	<0.19
Dichlorodifluoromethane	1000	<0.23	<1.0	<0.23	<0.23
Dichlorofluoromethane	None	<0.21	<1.0	<0.21	<0.21
Diethyl ether (Ethyl ether)	1000	<0.19	<4.0	<0.19	<0.19
Ethylbenzene	700	<0.15	<1.0	<0.15	<0.15
Hexachloro-1,3-butadiene	None	<0.18	<4.0	<0.18	<0.18
Isopropylbenzene (Cumene)	None	<0.25	<1.0	<0.25	<0.25
Methylene Chloride	5	<0.29	<4.0	<0.29	<0.29
Methyl-tert-butyl ether	60	<0.15	<1.0	<0.15	<0.15
n-Butylbenzene	None	<0.16	<1.0	<0.16	<0.16
n-Propylbenzene	None	<0.23	<1.0	<0.23	<0.23
p-Isopropyltoluene	None	<0.19	<4.0	<0.19	<0.19
sec-Butylbenzene	None	<0.19	<4.0	<0.19	<0.19
Styrene	100	<0.29	<1.0	<0.29	<0.29
tert-Butylbenzene	None	<0.22	<1.0	<0.22	<0.22
Tetrachloroethene	5	<0.25	<1.0	<0.25	<0.25
Tetrahydrofuran	50	<1.5	<10.0	<1.5	<1.5
Toluene	800	6.4	5.2	<0.14	<0.14
trans-1,2-Dichloroethene	100	<0.16	<1.0	<0.16	<0.16
trans-1,3-Dichloropropene	0.4	<0.15	<4.0	<0.15	<0.15
Trichloroethene	5	<0.052	<0.40	<0.052	<0.052
Trichlorofluoromethane	None	<0.33	<1.0	<0.33	<0.33
Vinyl chloride	0.2	<0.069	<0.20	<0.069	<0.069
Xylene (Total)	2	<0.32	<3.0	<0.32	<0.32

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory report for details.  
\*The enforcement standard is 480 ug/L for the sum of all trimethyl

**Table 7**  
**Summary of Groundwater Analytical Results**

Parameters	Sample ID Sample Date Units	MW-14	MW-15	MW-15	MW-16	MW-16
		4/25/17	1/24/17	4/25/17	1/24/17	4/25/17
		ug/L	ug/L	ug/L	ug/L	ug/L
	NR 140 Public Health ES					
<b>PAHs</b>	<b>ug/L</b>					
1-Methylnaphthalene	None	0.051	2.2	4.6	<0.0069	<0.040
2-Methylnaphthalene	None	0.065	<0.011	<0.040	<0.011	0.049
2-Chloronaphthalene	None	<0.040	0.097	0.093	<0.0092	<0.040
Acenaphthene	None	0.11	23.6	24.1	<0.0095	0.067
Acenaphthylene	None	<0.040	0.42	0.72	<0.0092	<0.040
Anthracene	3000	<0.040	0.55	0.5	<0.0082	<0.040
Benzo(a)anthracene	None	<0.040	0.51	0.44	<0.0098	<0.040
Benzo(a)pyrene	0.2	<0.040	<b>0.37</b>	<b>0.32</b>	<0.0025	<0.040
Benzo(b)fluoranthene	0.2	<0.040	<b>0.29</b>	<b>0.25</b>	<0.0017	<0.040
Benzo(e)pyrene	None	<0.040	0.19	0.17	<0.002	<0.040
Benzo(g,h,i)perylene	None	<0.040	0.13	<0.040	<0.002	<0.040
Benzo(k)fluoranthene	None	<0.040	0.1	0.098	<0.0099	<0.040
Chrysene	0.2	<0.040	<b>0.48</b>	<b>0.41</b>	<0.0024	<0.040
Dibenz(a,h)anthracene	None	<0.040	0.032	<0.040	<0.0079	<0.040
Dibenzofuran	None	<0.040	0.49	0.33	<0.0095	<0.040
Fluoranthene	400	<0.040	2.7	2.5	<0.0094	<0.040
Fluorene	400	<0.040	6.7	4.6	<0.0094	<0.040
Indeno(1,2,3-cd)pyrene	None	<0.040	0.1	0.085	<0.0014	<0.040
Naphthalene	100	<4.0	0.12	0.16	<0.2	<4.0
Phenanthrene	None	0.1	2.8	0.42	<0.0094	<0.040
Pyrene	250	<0.040	3.4	2.7	<0.0029	<0.040
<b>VOCs</b>						
1,1,1,2-Tetrachloroethane	70	<1.0	<0.17	<1.0	<0.17	<1.0
1,1,1-Trichloroethane	200	<4.0	<0.17	<4.0	<0.17	<4.0
1,1,2,2-Tetrachloroethane	0.2	<1.0	<0.22	<1.0	<0.22	<1.0
1,1,2-Trichloroethane	5	<1.0	<0.15	<1.0	<0.15	<1.0
1,1,2-Trichlorotrifluoroethane	None	<10.0	<0.32	<10.0	<0.32	<10.0
1,1-Dichloroethane	850	<1.0	<0.17	<1.0	<0.17	<1.0
1,1-Dichloroethene	7	<1.0	<0.28	<1.0	<0.28	<1.0
1,1-Dichloropropene	None	<1.0	<0.23	<1.0	<0.23	<1.0
1,2,3-Trichlorobenzene	None	<1.0	<0.21	<1.0	<0.21	<1.0
1,2,3-Trichloropropane	60	<4.0	<0.28	<4.0	<0.28	<4.0
1,2,4-Trichlorobenzene	70	<1.0	<0.21	<1.0	<0.21	<1.0
1,2,4-Trimethylbenzene	480*	<1.0	<0.18	<1.0	<0.18	<1.0
1,2-Dibromo-3-chloropropane	None	<4.0	<0.6	<4.0	<0.6	<4.0
1,2-Dibromoethane (EDB)	0.05	<1.0	<0.2	<1.0	<0.2	<1.0
1,2-Dichlorobenzene	600	<1.0	<0.17	<1.0	<0.17	<1.0
1,2-Dichloroethane	5	<1.0	<0.17	<1.0	<0.17	<1.0
1,2-Dichloropropane	5	<4.0	<0.22	<4.0	<0.22	<4.0
1,3,5-Trimethylbenzene	480*	<1.0	<0.27	<1.0	<0.27	<1.0
1,3-Dichlorobenzene	600	<1.0	<0.12	<1.0	<0.12	<1.0
1,3-Dichloropropane	None	<1.0	<0.096	<1.0	<0.096	<1.0
1,4-Dichlorobenzene	75	<1.0	<0.21	<1.0	<0.21	<1.0
2,2-Dichloropropane	None	<4.0	<0.13	<4.0	<0.13	<4.0
2-Butanone (MEK)	4	<5.0	<1.1	<5.0	<1.1	<5.0
2-Chlorotoluene	None	<1.0	<0.3	<1.0	<0.3	<1.0
4-Chlorotoluene	None	<1.0	<0.26	<1.0	<0.26	<1.0
4-Methyl-2-pentanone (MIBK)	500	<5.0	<0.43	<5.0	<0.43	<5.0

**Table 7**  
**Summary of Groundwater Analytical Results**

Parameters	Sample ID Sample Date Units	MW-14	MW-15	MW-15	MW-16	MW-16
		4/25/17	1/24/17	4/25/17	1/24/17	4/25/17
		ug/L	ug/L	ug/L	ug/L	ug/L
	<b>NR 140 Public Health ES</b>					
Acetone	9	<20.0	<2	<20.0	<2	<20.0
Allyl chloride	None	<4.0	<0.25	<4.0	<0.25	<4.0
Benzene	5	<1.0	<0.16	<1.0	<0.16	<1.0
Bromobenzene	None	<1.0	<0.34	<1.0	<0.34	<1.0
Bromochloromethane	None	<1.0	<0.19	<1.0	<0.19	<1.0
Bromodichloromethane	0.6	<1.0	<0.24	<1.0	<0.24	<1.0
Bromoform	4.4	<4.0	<0.27	<4.0	<0.27	<4.0
Bromomethane	10	<10.0	<0.44	<10.0	<0.44	<10.0
Carbon tetrachloride	5	<1.0	<0.2	<1.0	<0.2	<1.0
Chlorobenzene	None	<1.0	<0.11	<1.0	<0.11	<1.0
Chloroethane	400	<1.0	<0.34	<1.0	<0.34	<1.0
Chloroform	6	<1.0	<0.21	<1.0	<0.21	<1.0
Chloromethane	30	<4.0	<0.25	<4.0	<0.25	<4.0
cis-1,2-Dichloroethene	70	<1.0	<0.12	<1.0	<0.12	<1.0
Dibromochloromethane	60	<1.0	<0.16	<1.0	<0.16	<1.0
Dibromomethane	None	<4.0	<0.19	<4.0	<0.19	<4.0
Dichlorodifluoromethane	1000	<1.0	<0.23	<1.0	<0.23	<1.0
Dichlorofluoromethane	None	<1.0	<0.21	<1.0	<0.21	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<0.19	<4.0	<0.19	<4.0
Ethylbenzene	700	<1.0	<0.15	<1.0	<0.15	<1.0
Hexachloro-1,3-butadiene	None	<4.0	<0.18	<4.0	<0.18	<4.0
Isopropylbenzene (Cumene)	None	<1.0	<0.25	<1.0	<0.25	<1.0
Methylene Chloride	5	<4.0	<0.29	<4.0	<0.29	<4.0
Methyl-tert-butyl ether	60	<1.0	<0.15	<1.0	<0.15	<1.0
n-Butylbenzene	None	<1.0	<0.16	<1.0	<0.16	<1.0
n-Propylbenzene	None	<1.0	<0.23	<1.0	<0.23	<1.0
p-Isopropyltoluene	None	<4.0	<0.19	<4.0	<0.19	<4.0
sec-Butylbenzene	None	<4.0	<0.19	<4.0	<0.19	<4.0
Styrene	100	<1.0	<0.29	<1.0	<0.29	<1.0
tert-Butylbenzene	None	<1.0	<0.22	<1.0	<0.22	<1.0
Tetrachloroethene	5	<1.0	<0.25	<1.0	<0.25	<1.0
Tetrahydrofuran	50	<10.0	<1.5	<10.0	<1.5	<10.0
Toluene	800	<1.0	<0.14	<1.0	<0.14	<1.0
trans-1,2-Dichloroethene	100	<1.0	<0.16	<1.0	<0.16	<1.0
trans-1,3-Dichloropropene	0.4	<4.0	<0.15	<4.0	<0.15	<4.0
Trichloroethene	5	<0.40	<0.052	<0.40	<0.052	<0.40
Trichlorofluoromethane	None	<1.0	<0.33	<1.0	<0.33	<1.0
Vinyl chloride	0.2	<0.20	<0.069	<0.20	<0.069	<0.20
Xylene (Total)	2	<3.0	<0.32	<3.0	<0.32	<3.0

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory report for full list.  
\*The enforcement standard is 480 ug/L for the sum of all trimethylbenzenes.

**Table 7**  
**Summary of Groundwater Analytical Results**

Parameters	Sample ID Sample Date Units	MW-17	MW-17	MW-20	MW-20	MW-21
		1/24/17	4/25/17	1/24/17	4/25/17	1/24/17
		ug/L	ug/L	ug/L	ug/L	ug/L
	NR 140 Public Health ES					
<b>PAHs</b>	<b>ug/L</b>					
1-Methylnaphthalene	None	<0.0069	<0.040	56.4	71.7	<0.0069
2-Methylnaphthalene	None	<0.011	0.058	33	38.9	<0.011
2-Chloronaphthalene	None	<0.0092	<0.040	0.084	0.12	<0.0092
Acenaphthene	None	<0.0095	0.041	46.3	48.8	<0.0095
Acenaphthylene	None	<0.0092	<0.040	0.3	0.55	<0.0092
Anthracene	3000	<0.0082	<0.040	0.09	0.16	<0.0082
Benzo(a)anthracene	None	<0.0098	<0.040	<0.0098	<0.040	<0.0098
Benzo(a)pyrene	0.2	<0.0025	<0.040	<0.0025	<0.040	<0.0025
Benzo(b)fluoranthene	0.2	<0.0017	<0.040	<0.0017	<0.040	<0.0017
Benzo(e)pyrene	None	<0.002	<0.040	<0.002	<0.040	<0.002
Benzo(g,h,i)perylene	None	<0.002	<0.040	<0.002	<0.040	<0.002
Benzo(k)fluoranthene	None	<0.0099	<0.040	<0.0099	<0.040	<0.0099
Chrysene	0.2	<0.0024	<0.040	<0.0024	<0.040	<0.0024
Dibenz(a,h)anthracene	None	<0.0079	<0.040	<0.0079	<0.040	<0.0079
Dibenzofuran	None	<0.0095	<0.040	0.3	0.33	<0.0095
Fluoranthene	400	<0.0094	<0.040	0.12	0.2	<0.0094
Fluorene	400	<0.0094	<0.040	6.6	4.9	<0.0094
Indeno(1,2,3-cd)pyrene	None	<0.0014	<0.040	<0.0014	<0.040	<0.0014
Naphthalene	100	<0.2	<4.0	440	904	<0.2
Phenanthrene	None	<0.0094	<0.040	0.29	0.64	<0.0094
Pyrene	250	<0.0029	<0.040	0.11	0.14	<0.0029
<b>VOCs</b>						
1,1,1,2-Tetrachloroethane	70	<0.17	<1.0	<16.6	<100	<0.17
1,1,1-Trichloroethane	200	<0.17	<4.0	<17	<400	<0.17
1,1,2,2-Tetrachloroethane	0.2	<0.22	<1.0	<22.5	<100	<0.22
1,1,2-Trichloroethane	5	<0.15	<1.0	<15.2	<100	<0.15
1,1,2-Trichlorotrifluoroethane	None	<0.32	<10.0	<32	<1000	<0.32
1,1-Dichloroethane	850	<0.17	<1.0	<17.1	<100	<0.17
1,1-Dichloroethene	7	<0.28	<1.0	<27.7	<100	<0.28
1,1-Dichloropropene	None	<0.23	<1.0	<22.7	<100	<0.23
1,2,3-Trichlorobenzene	None	<0.21	<1.0	<21.3	<100	<0.21
1,2,3-Trichloropropane	60	<0.28	<4.0	<28.4	<400	<0.28
1,2,4-Trichlorobenzene	70	<0.21	<1.0	<21.3	<100	<0.21
1,2,4-Trimethylbenzene	480*	<0.18	<1.0	<17.8	<100	<0.18
1,2-Dibromo-3-chloropropane	None	<0.6	<4.0	<60	<400	<0.6
1,2-Dibromoethane (EDB)	0.05	<0.2	<1.0	<20	<100	<0.2
1,2-Dichlorobenzene	600	<0.17	<1.0	<17.1	<100	<0.17
1,2-Dichloroethane	5	<0.17	<1.0	<17	<100	<0.17
1,2-Dichloropropane	5	<0.22	<4.0	<22.2	<400	<0.22
1,3,5-Trimethylbenzene	480*	<0.27	<1.0	<26.9	<100	<0.27
1,3-Dichlorobenzene	600	<0.12	<1.0	<11.5	<100	<0.12
1,3-Dichloropropane	None	<0.096	<1.0	<9.6	<100	<0.096
1,4-Dichlorobenzene	75	<0.21	<1.0	<21.1	<100	<0.21
2,2-Dichloropropane	None	<0.13	<4.0	<12.8	<400	<0.13
2-Butanone (MEK)	4	<1.1	<5.0	<110	<500	<1.1
2-Chlorotoluene	None	<0.3	<1.0	<29.5	<100	<0.3
4-Chlorotoluene	None	<0.26	<1.0	<25.5	<100	<0.26
4-Methyl-2-pentanone (MIBK)	500	<0.43	<5.0	<43.2	<500	<0.43

**Table 7**  
**Summary of Groundwater Analytical Results**

Parameters	Sample ID Sample Date Units	MW-17	MW-17	MW-20	MW-20	MW-21
		1/24/17	4/25/17	1/24/17	4/25/17	1/24/17
		ug/L	ug/L	ug/L	ug/L	ug/L
	<b>NR 140 Public Health ES</b>					
Acetone	9	<2	<20.0	<201	<2000	<2
Allyl chloride	None	<0.25	<4.0	<25	<400	<0.25
Benzene	5	<0.16	<1.0	<b>13300</b>	<b>14700</b>	<0.16
Bromobenzene	None	<0.34	<1.0	<33.7	<100	<0.34
Bromochloromethane	None	<0.19	<1.0	<18.6	<100	<0.19
Bromodichloromethane	0.6	<0.24	<1.0	<24	<100	<0.24
Bromoform	4.4	<0.27	<4.0	<27.4	<400	<0.27
Bromomethane	10	<0.44	<10.0	<44.3	<1000	<0.44
Carbon tetrachloride	5	<0.2	<1.0	<19.7	<100	<0.2
Chlorobenzene	None	<0.11	<1.0	<11.4	<100	<0.11
Chloroethane	400	<0.34	<1.0	<34.2	<100	<0.34
Chloroform	6	<0.21	<1.0	<21	<100	<0.21
Chloromethane	30	<0.25	<4.0	<24.6	<400	<0.25
cis-1,2-Dichloroethene	70	<0.12	<1.0	<12	<100	<0.12
Dibromochloromethane	60	<0.16	<1.0	<15.7	<100	<0.16
Dibromomethane	None	<0.19	<4.0	<19.4	<400	<0.19
Dichlorodifluoromethane	1000	<0.23	<1.0	<22.6	<100	<0.23
Dichlorofluoromethane	None	<0.21	<1.0	<21.4	<100	<0.21
Diethyl ether (Ethyl ether)	1000	<0.19	<4.0	<19.4	<400	<0.19
Ethylbenzene	700	<0.15	<1.0	123	265	<0.15
Hexachloro-1,3-butadiene	None	<0.18	<4.0	<17.8	<400	<0.18
Isopropylbenzene (Cumene)	None	<0.25	<1.0	<25.3	<100	<0.25
Methylene Chloride	5	<0.29	<4.0	<29.3	<400	<0.29
Methyl-tert-butyl ether	60	<0.15	<1.0	<14.9	<100	<0.15
n-Butylbenzene	None	<0.16	<1.0	<16	<100	<0.16
n-Propylbenzene	None	<0.23	<1.0	<23.3	<100	<0.23
p-Isopropyltoluene	None	<0.19	<4.0	<19.4	<400	<0.19
sec-Butylbenzene	None	<0.19	<4.0	<18.9	<400	<0.19
Styrene	100	<0.29	<1.0	<28.6	<100	<0.29
tert-Butylbenzene	None	<0.22	<1.0	<22.3	<100	<0.22
Tetrachloroethene	5	<0.25	<1.0	<25.3	<100	<0.25
Tetrahydrofuran	50	<1.5	<10.0	<150	<1000	<1.5
Toluene	800	<0.14	<1.0	<14.5	<100	1.5
trans-1,2-Dichloroethene	100	<0.16	<1.0	<16.2	<100	<0.16
trans-1,3-Dichloropropene	0.4	<0.15	<4.0	<14.7	<400	<0.15
Trichloroethene	5	<0.052	<0.40	<5.2	<40.0	<0.052
Trichlorofluoromethane	None	<0.33	<1.0	<32.6	<100	<0.33
Vinyl chloride	0.2	<0.069	<0.20	<6.9	<20.0	<0.069
Xylene (Total)	2	<0.32	<3.0	<31.5	<300	<0.32

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory report for full list.  
\*The enforcement standard is 480 ug/L for the sum of all trimethyl



**Table 7**  
**Summary of Groundwater Analytical Results**

Parameters	Sample ID Sample Date Units	MW-21	MW-21D	MW-22	MW-22	MW-23
		4/25/17	4/25/17	1/25/17	4/25/17	1/24/17
		ug/L	ug/L	ug/L	ug/L	ug/L
	<b>NR 140 Public Health ES</b>					
<b>PAHs</b>	<b>ug/L</b>					
1-Methylnaphthalene	None	0.082	0.046	0.19	0.16	<0.0069
2-Methylnaphthalene	None	0.079	0.059	0.13	0.14	<0.011
2-Chloronaphthalene	None	<0.040	<0.040	<0.0092	<0.040	<0.0092
Acenaphthene	None	0.19	0.085	0.079	0.12	<0.0095
Acenaphthylene	None	<0.040	<0.040	<0.0092	<0.040	<0.0092
Anthracene	3000	<0.040	<0.040	0.1	<0.040	<0.0082
Benzo(a)anthracene	None	<0.040	<0.040	<0.0098	<0.040	<0.0098
Benzo(a)pyrene	0.2	<0.040	<0.040	<0.0025	<0.040	<0.0025
Benzo(b)fluoranthene	0.2	<0.040	<0.040	<0.0017	<0.040	<0.0017
Benzo(e)pyrene	None	<0.040	<0.040	<0.002	<0.040	<0.002
Benzo(g,h,i)perylene	None	<0.040	<0.040	<0.002	<0.040	<0.002
Benzo(k)fluoranthene	None	<0.040	<0.040	<0.0099	<0.040	<0.0099
Chrysene	0.2	<0.040	<0.040	<0.0024	<0.040	<0.0024
Dibenz(a,h)anthracene	None	<0.040	<0.040	<0.0079	<0.040	<0.0079
Dibenzofuran	None	<0.040	<0.040	<0.0095	<0.040	<0.0095
Fluoranthene	400	<0.040	<0.040	<0.0094	<0.040	<0.0094
Fluorene	400	<0.040	<0.040	<0.0094	<0.040	<0.0094
Indeno(1,2,3-cd)pyrene	None	<0.040	<0.040	<0.0014	<0.040	<0.0014
Naphthalene	100	0.36	0.2	0.44	0.48	<0.2
Phenanthrene	None	<0.040	<0.040	0.042	0.046	<0.0094
Pyrene	250	<0.040	<0.040	<0.0029	<0.040	0.043
<b>VOCs</b>						
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<0.17	<1.0	<0.17
1,1,1-Trichloroethane	200	<4.0	<4.0	<0.17	<4.0	<0.17
1,1,2,2-Tetrachloroethane	0.2	<1.0	<1.0	<0.22	<1.0	<0.22
1,1,2-Trichloroethane	5	<1.0	<1.0	<0.15	<1.0	<0.15
1,1,2-Trichlorotrifluoroethane	None	<10.0	<10.0	<0.32	<10.0	<0.32
1,1-Dichloroethane	850	<1.0	<1.0	<0.17	<1.0	<0.17
1,1-Dichloroethene	7	<1.0	<1.0	<0.28	<1.0	<0.28
1,1-Dichloropropene	None	<1.0	<1.0	<0.23	<1.0	<0.23
1,2,3-Trichlorobenzene	None	<1.0	<1.0	<0.21	<1.0	<0.21
1,2,3-Trichloropropane	60	<4.0	<4.0	<0.28	<4.0	<0.28
1,2,4-Trichlorobenzene	70	<1.0	<1.0	<0.21	<1.0	<0.21
1,2,4-Trimethylbenzene	480*	<1.0	<1.0	4.4	2.8	<0.18
1,2-Dibromo-3-chloropropane	None	<4.0	<4.0	<0.6	<4.0	<0.6
1,2-Dibromoethane (EDB)	0.05	<1.0	<1.0	<0.2	<1.0	<0.2
1,2-Dichlorobenzene	600	<1.0	<1.0	<0.17	<1.0	<0.17
1,2-Dichloroethane	5	<1.0	<1.0	<0.17	<1.0	<0.17
1,2-Dichloropropane	5	<4.0	<4.0	<0.22	<4.0	<0.22
1,3,5-Trimethylbenzene	480*	<1.0	<1.0	2.6	1.8	<0.27
1,3-Dichlorobenzene	600	<1.0	<1.0	<0.12	<1.0	<0.12
1,3-Dichloropropane	None	<1.0	<1.0	<0.096	<1.0	<0.096
1,4-Dichlorobenzene	75	<1.0	<1.0	<0.21	<1.0	<0.21
2,2-Dichloropropane	None	<4.0	<4.0	<0.13	<4.0	<0.13
2-Butanone (MEK)	4	<5.0	<5.0	13.9	8.2	<1.1
2-Chlorotoluene	None	<1.0	<1.0	<0.3	<1.0	<0.3
4-Chlorotoluene	None	<1.0	<1.0	<0.26	<1.0	<0.26
4-Methyl-2-pentanone (MIBK)	500	<5.0	<5.0	<0.43	<5.0	<0.43

**Table 7**  
**Summary of Groundwater Analytical Results**

Parameters	Sample ID Sample Date Units	MW-21	MW-21D	MW-22	MW-22	MW-23
		4/25/17	4/25/17	1/25/17	4/25/17	1/24/17
		ug/L	ug/L	ug/L	ug/L	ug/L
	<b>NR 140 Public Health ES</b>					
Acetone	9	<20.0	<20.0	150	98.5	<2
Allyl chloride	None	<4.0	<4.0	<0.25	<4.0	<0.25
Benzene	5	<1.0	<1.0	4.6	3.2	<0.16
Bromobenzene	None	<1.0	<1.0	<0.34	<1.0	<0.34
Bromochloromethane	None	<1.0	<1.0	<0.19	<1.0	<0.19
Bromodichloromethane	0.6	<1.0	<1.0	<0.24	<1.0	<0.24
Bromoform	4.4	<4.0	<4.0	<0.27	<4.0	<0.27
Bromomethane	10	<10.0	<10.0	<0.44	<10.0	<0.44
Carbon tetrachloride	5	<1.0	<1.0	<0.2	<1.0	<0.2
Chlorobenzene	None	<1.0	<1.0	<0.11	<1.0	<0.11
Chloroethane	400	<1.0	<1.0	<0.34	<1.0	<0.34
Chloroform	6	<1.0	<1.0	<0.21	<1.0	<0.21
Chloromethane	30	<4.0	<4.0	<0.25	<4.0	<0.25
cis-1,2-Dichloroethene	70	<1.0	<1.0	<0.12	<1.0	<0.12
Dibromochloromethane	60	<1.0	<1.0	<0.16	<1.0	<0.16
Dibromomethane	None	<4.0	<4.0	<0.19	<4.0	<0.19
Dichlorodifluoromethane	1000	<1.0	<1.0	<0.23	<1.0	<0.23
Dichlorofluoromethane	None	<1.0	<1.0	<0.21	<1.0	<0.21
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<0.19	<4.0	<0.19
Ethylbenzene	700	<1.0	<1.0	<0.15	<1.0	<0.15
Hexachloro-1,3-butadiene	None	<4.0	<4.0	<0.18	<4.0	<0.18
Isopropylbenzene (Cumene)	None	<1.0	<1.0	<0.25	<1.0	<0.25
Methylene Chloride	5	<4.0	<4.0	<0.29	<4.0	<0.29
Methyl-tert-butyl ether	60	<1.0	<1.0	<0.15	<1.0	<0.15
n-Butylbenzene	None	<1.0	<1.0	<0.16	<1.0	<0.16
n-Propylbenzene	None	<1.0	<1.0	<0.23	<1.0	<0.23
p-Isopropyltoluene	None	<4.0	<4.0	2.2	<4.0	<0.19
sec-Butylbenzene	None	<4.0	<4.0	<0.19	<4.0	<0.19
Styrene	100	<1.0	<1.0	<0.29	<1.0	<0.29
tert-Butylbenzene	None	<1.0	<1.0	<0.22	<1.0	<0.22
Tetrachloroethene	5	<1.0	<1.0	<0.25	<1.0	<0.25
Tetrahydrofuran	50	<10.0	<10.0	<1.5	<10.0	<1.5
Toluene	800	<1.0	<1.0	2	1.5	<0.14
trans-1,2-Dichloroethene	100	<1.0	<1.0	<0.16	<1.0	<0.16
trans-1,3-Dichloropropene	0.4	<4.0	<4.0	<0.15	<4.0	<0.15
Trichloroethene	5	<0.40	<0.40	<0.052	<0.40	<0.052
Trichlorofluoromethane	None	<1.0	<1.0	<0.33	<1.0	<0.33
Vinyl chloride	0.2	<0.20	<0.20	<0.069	<0.20	<0.069
Xylene (Total)	2	<3.0	<3.0	<0.32	<3.0	<0.32

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory report for full list.  
\*The enforcement standard is 480 ug/L for the sum of all trimethyl

**Table 7**  
**Summary of Groundwater Analytical Results**

Parameters	Sample ID Sample Date Units	MW-23	MW-24	MW-24	MW-25	MW-25
		4/25/17	1/24/17	4/25/17	1/24/17	4/26/17
		ug/L	ug/L	ug/L	ug/L	ug/L
	<b>NR 140 Public Health ES</b>					
<b>PAHs</b>	<b>ug/L</b>					
1-Methylnaphthalene	None	<0.040	<0.0069	<0.040	<0.0069	<0.040
2-Methylnaphthalene	None	<0.040	<0.011	<0.040	<0.011	<0.040
2-Chloronaphthalene	None	<0.040	<0.0092	<0.040	<0.0092	<0.040
Acenaphthene	None	<0.040	<0.0095	<0.040	<0.0095	<0.040
Acenaphthylene	None	<0.040	<0.0092	<0.040	<0.0092	<0.040
Anthracene	3000	<0.040	<0.0082	<0.040	<0.0082	<0.040
Benzo(a)anthracene	None	<0.040	<0.0098	<0.040	<0.0098	<0.040
Benzo(a)pyrene	0.2	<0.040	<0.0025	<0.040	<0.0025	<0.040
Benzo(b)fluoranthene	0.2	<0.040	<0.0017	<0.040	<0.0017	<0.040
Benzo(e)pyrene	None	<0.040	<0.002	<0.040	<0.002	<0.040
Benzo(g,h,i)perylene	None	<0.040	<0.002	<0.040	<0.002	<0.040
Benzo(k)fluoranthene	None	<0.040	<0.0099	<0.040	<0.0099	<0.040
Chrysene	0.2	<0.040	<0.0024	<0.040	<0.0024	<0.040
Dibenz(a,h)anthracene	None	<0.040	<0.0079	<0.040	<0.0079	<0.040
Dibenzofuran	None	<0.040	<0.0095	<0.040	<0.0095	<0.040
Fluoranthene	400	<0.040	<0.0094	<0.040	<0.0094	<0.040
Fluorene	400	<0.040	<0.0094	<0.040	<0.0094	<0.040
Indeno(1,2,3-cd)pyrene	None	<0.040	<0.0014	<0.040	<0.0014	<0.040
Naphthalene	100	<4.0	<0.2	<4.0	<0.2	<4.0
Phenanthrene	None	<0.040	<0.0094	<0.040	<0.0094	<0.040
Pyrene	250	<0.040	<0.0029	<0.040	0.076	0.13
<b>VOCs</b>						
1,1,1,2-Tetrachloroethane	70	<1.0	<0.17	<1.0	<0.17	<1.0
1,1,1-Trichloroethane	200	<4.0	<0.17	<4.0	<0.17	<4.0
1,1,2,2-Tetrachloroethane	0.2	<1.0	<0.22	<1.0	<0.22	<1.0
1,1,2-Trichloroethane	5	<1.0	<0.15	<1.0	<0.15	<1.0
1,1,2-Trichlorotrifluoroethane	None	<10.0	<0.32	<10.0	<0.32	<10.0
1,1-Dichloroethane	850	<1.0	<0.17	<1.0	<0.17	<1.0
1,1-Dichloroethene	7	<1.0	<0.28	<1.0	<0.28	<1.0
1,1-Dichloropropene	None	<1.0	<0.23	<1.0	<0.23	<1.0
1,2,3-Trichlorobenzene	None	<1.0	<0.21	<1.0	<0.21	<1.0
1,2,3-Trichloropropane	60	<4.0	<0.28	<4.0	<0.28	<4.0
1,2,4-Trichlorobenzene	70	<1.0	<0.21	<1.0	<0.21	<1.0
1,2,4-Trimethylbenzene	480*	<1.0	<0.18	<1.0	<0.18	<1.0
1,2-Dibromo-3-chloropropane	None	<4.0	<0.6	<4.0	<0.6	<4.0
1,2-Dibromoethane (EDB)	0.05	<1.0	<0.2	<1.0	<0.2	<1.0
1,2-Dichlorobenzene	600	<1.0	<0.17	<1.0	<0.17	<1.0
1,2-Dichloroethane	5	<1.0	<0.17	<1.0	<0.17	<1.0
1,2-Dichloropropane	5	<4.0	<0.22	<4.0	<0.22	<4.0
1,3,5-Trimethylbenzene	480*	<1.0	<0.27	<1.0	<0.27	<1.0
1,3-Dichlorobenzene	600	<1.0	<0.12	<1.0	<0.12	<1.0
1,3-Dichloropropane	None	<1.0	<0.096	<1.0	<0.096	<1.0
1,4-Dichlorobenzene	75	<1.0	<0.21	<1.0	<0.21	<1.0
2,2-Dichloropropane	None	<4.0	<0.13	<4.0	<0.13	<4.0
2-Butanone (MEK)	4	<5.0	<1.1	<5.0	<1.1	<5.0
2-Chlorotoluene	None	<1.0	<0.3	<1.0	<0.3	<1.0
4-Chlorotoluene	None	<1.0	<0.26	<1.0	<0.26	<1.0
4-Methyl-2-pentanone (MIBK)	500	<5.0	<0.43	<5.0	<0.43	<5.0

**Table 7**  
**Summary of Groundwater Analytical Results**

Parameters	Sample ID Sample Date Units	MW-23	MW-24	MW-24	MW-25	MW-25
		4/25/17	1/24/17	4/25/17	1/24/17	4/26/17
		ug/L	ug/L	ug/L	ug/L	ug/L
	<b>NR 140 Public Health ES</b>					
Acetone	9	<20.0	<2	<20.0	<2	<20.0
Allyl chloride	None	<4.0	<0.25	<4.0	<0.25	<4.0
Benzene	5	<1.0	<0.16	<1.0	<0.16	<1.0
Bromobenzene	None	<1.0	<0.34	<1.0	<0.34	<1.0
Bromochloromethane	None	<1.0	<0.19	<1.0	<0.19	<1.0
Bromodichloromethane	0.6	<1.0	<0.24	<1.0	<0.24	<1.0
Bromoform	4.4	<4.0	<0.27	<4.0	<0.27	<4.0
Bromomethane	10	<10.0	<0.44	<10.0	<0.44	<10.0
Carbon tetrachloride	5	<1.0	<0.2	<1.0	<0.2	<1.0
Chlorobenzene	None	<1.0	<0.11	<1.0	<0.11	<1.0
Chloroethane	400	<1.0	<0.34	<1.0	<0.34	<1.0
Chloroform	6	<1.0	<0.21	<1.0	<0.21	<1.0
Chloromethane	30	<4.0	<0.25	<4.0	<0.25	<4.0
cis-1,2-Dichloroethene	70	<1.0	<0.12	<1.0	<0.12	<1.0
Dibromochloromethane	60	<1.0	<0.16	<1.0	<0.16	<1.0
Dibromomethane	None	<4.0	<0.19	<4.0	<0.19	<4.0
Dichlorodifluoromethane	1000	<1.0	<0.23	<1.0	<0.23	<1.0
Dichlorofluoromethane	None	<1.0	<0.21	<1.0	<0.21	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<0.19	<4.0	<0.19	<4.0
Ethylbenzene	700	<1.0	<0.15	<1.0	<0.15	<1.0
Hexachloro-1,3-butadiene	None	<4.0	<0.18	<4.0	<0.18	<4.0
Isopropylbenzene (Cumene)	None	<1.0	<0.25	<1.0	<0.25	<1.0
Methylene Chloride	5	<4.0	<0.29	<4.0	<0.29	<4.0
Methyl-tert-butyl ether	60	<1.0	<0.15	<1.0	<0.15	<1.0
n-Butylbenzene	None	<1.0	<0.16	<1.0	<0.16	<1.0
n-Propylbenzene	None	<1.0	<0.23	<1.0	<0.23	<1.0
p-Isopropyltoluene	None	<4.0	<0.19	<4.0	<0.19	<4.0
sec-Butylbenzene	None	<4.0	<0.19	<4.0	<0.19	<4.0
Styrene	100	<1.0	<0.29	<1.0	<0.29	<1.0
tert-Butylbenzene	None	<1.0	<0.22	<1.0	<0.22	<1.0
Tetrachloroethene	5	<1.0	<0.25	<1.0	<0.25	<1.0
Tetrahydrofuran	50	<10.0	<1.5	<10.0	<1.5	<10.0
Toluene	800	2.2	2.8	2.5	15.6	<1.0
trans-1,2-Dichloroethene	100	<1.0	<0.16	<1.0	<0.16	<1.0
trans-1,3-Dichloropropene	0.4	<4.0	<0.15	<4.0	<0.15	<4.0
Trichloroethene	5	<0.40	<0.052	<0.40	<0.052	<0.40
Trichlorofluoromethane	None	<1.0	<0.33	<1.0	<0.33	<1.0
Vinyl chloride	0.2	<0.20	<0.069	<0.20	<0.069	<0.20
Xylene (Total)	2	<3.0	<0.32	<3.0	<0.32	<3.0

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory report for details.  
\*The enforcement standard is 480 ug/L for the sum of all trimethyl

**Table 7**  
**Summary of Groundwater Analytical Results**

Parameters	Sample ID Sample Date Units	MW-26	MW-26 DUP	MW-26
		1/25/17	1/25/17	4/25/17
		ug/L	ug/L	ug/L
	<b>NR 140 Public Health ES</b>			
<b>PAHs</b>		<b>ug/L</b>		
1-Methylnaphthalene	None	<0.0069	<0.0069	<0.040
2-Methylnaphthalene	None	<0.011	<0.011	<0.040
2-Chloronaphthalene	None	<0.0092	<0.0092	<0.040
Acenaphthene	None	<0.0095	<0.0095	<0.040
Acenaphthylene	None	<0.0092	<0.0092	<0.040
Anthracene	3000	<0.0082	<0.0082	<0.040
Benzo(a)anthracene	None	<0.0098	<0.0098	<0.040
Benzo(a)pyrene	0.2	<0.0025	<0.0025	<0.040
Benzo(b)fluoranthene	0.2	<0.0017	<0.0017	<0.040
Benzo(e)pyrene	None	<0.002	<0.002	<0.040
Benzo(g,h,i)perylene	None	<0.002	<0.002	<0.040
Benzo(k)fluoranthene	None	<0.0099	<0.0099	<0.040
Chrysene	0.2	<0.0024	<0.0024	<0.040
Dibenz(a,h)anthracene	None	<0.0079	<0.0079	<0.040
Dibenzofuran	None	<0.0095	<0.0095	<0.040
Fluoranthene	400	<0.0094	<0.0094	<0.040
Fluorene	400	<0.0094	<0.0094	<0.040
Indeno(1,2,3-cd)pyrene	None	<0.0014	<0.0014	<0.040
Naphthalene	100	<0.2	<0.2	<4.0
Phenanthrene	None	<0.0094	<0.0094	<0.040
Pyrene	250	<0.0029	<0.0029	<0.040
<b>VOCs</b>				
1,1,1,2-Tetrachloroethane	70	<0.17	<0.17	<1.0
1,1,1-Trichloroethane	200	<0.17	<0.17	<4.0
1,1,2,2-Tetrachloroethane	0.2	<0.22	<0.22	<1.0
1,1,2-Trichloroethane	5	<0.15	<0.15	<1.0
1,1,2-Trichlorotrifluoroethane	None	<0.32	<0.32	<10.0
1,1-Dichloroethane	850	<0.17	<0.17	<1.0
1,1-Dichloroethene	7	<0.28	<0.28	<1.0
1,1-Dichloropropene	None	<0.23	<0.23	<1.0
1,2,3-Trichlorobenzene	None	<0.21	<0.21	<1.0
1,2,3-Trichloropropane	60	<0.28	<0.28	<4.0
1,2,4-Trichlorobenzene	70	<0.21	<0.21	<1.0
1,2,4-Trimethylbenzene	480*	<0.18	<0.18	<1.0
1,2-Dibromo-3-chloropropane	None	<0.6	<0.6	<4.0
1,2-Dibromoethane (EDB)	0.05	<0.2	<0.2	<1.0
1,2-Dichlorobenzene	600	<0.17	<0.17	<1.0
1,2-Dichloroethane	5	<0.17	<0.17	<1.0
1,2-Dichloropropane	5	<0.22	<0.22	<4.0
1,3,5-Trimethylbenzene	480*	<0.27	<0.27	<1.0
1,3-Dichlorobenzene	600	<0.12	<0.12	<1.0
1,3-Dichloropropane	None	<0.096	<0.096	<1.0
1,4-Dichlorobenzene	75	<0.21	<0.21	<1.0
2,2-Dichloropropane	None	<0.13	<0.13	<4.0
2-Butanone (MEK)	4	<1.1	<1.1	<5.0
2-Chlorotoluene	None	<0.3	<0.3	<1.0
4-Chlorotoluene	None	<0.26	<0.26	<1.0
4-Methyl-2-pentanone (MIBK)	500	<0.43	<0.43	<5.0

**Table 7  
Summary of Groundwater Analytical Results**

	Sample ID	MW-26	MW-26 DUP	MW-26
	Sample Date	1/25/17	1/25/17	4/25/17
	Units	ug/L	ug/L	ug/L
Parameters	NR 140 Public Health ES			
Acetone	9	<2	<2	<20.0
Allyl chloride	None	<0.25	<0.25	<4.0
Benzene	5	<0.16	<0.16	<1.0
Bromobenzene	None	<0.34	<0.34	<1.0
Bromochloromethane	None	<0.19	<0.19	<1.0
Bromodichloromethane	0.6	<0.24	<0.24	<1.0
Bromoform	4.4	<0.27	<0.27	<4.0
Bromomethane	10	<0.44	<0.44	<10.0
Carbon tetrachloride	5	<0.2	<0.2	<1.0
Chlorobenzene	None	<0.11	<0.11	<1.0
Chloroethane	400	<0.34	<0.34	<1.0
Chloroform	6	<0.21	<0.21	<1.0
Chloromethane	30	<0.25	<0.25	<4.0
cis-1,2-Dichloroethene	70	<0.12	<0.12	<1.0
Dibromochloromethane	60	<0.16	<0.16	<1.0
Dibromomethane	None	<0.19	<0.19	<4.0
Dichlorodifluoromethane	1000	<0.23	<0.23	<1.0
Dichlorofluoromethane	None	<0.21	<0.21	<1.0
Diethyl ether (Ethyl ether)	1000	<0.19	<0.19	<4.0
Ethylbenzene	700	<0.15	<0.15	<1.0
Hexachloro-1,3-butadiene	None	<0.18	<0.18	<4.0
Isopropylbenzene (Cumene)	None	<0.25	<0.25	<1.0
Methylene Chloride	5	<0.29	<0.29	<4.0
Methyl-tert-butyl ether	60	<0.15	<0.15	<1.0
n-Butylbenzene	None	<0.16	<0.16	<1.0
n-Propylbenzene	None	<0.23	<0.23	<1.0
p-Isopropyltoluene	None	<0.19	<0.19	<4.0
sec-Butylbenzene	None	<0.19	<0.19	<4.0
Styrene	100	<0.29	<0.29	<1.0
tert-Butylbenzene	None	<0.22	<0.22	<1.0
Tetrachloroethene	5	<0.25	<0.25	<1.0
Tetrahydrofuran	50	<1.5	<1.5	<10.0
Toluene	800	1.2	1.2	3.7
trans-1,2-Dichloroethene	100	<0.16	<0.16	<1.0
trans-1,3-Dichloropropene	0.4	<0.15	<0.15	<4.0
Trichloroethene	5	<0.052	<0.052	<0.40
Trichlorofluoromethane	None	<0.33	<0.33	<1.0
Vinyl chloride	0.2	<0.069	<0.069	<0.20
Xylene (Total)	2	<0.32	<0.32	<3.0

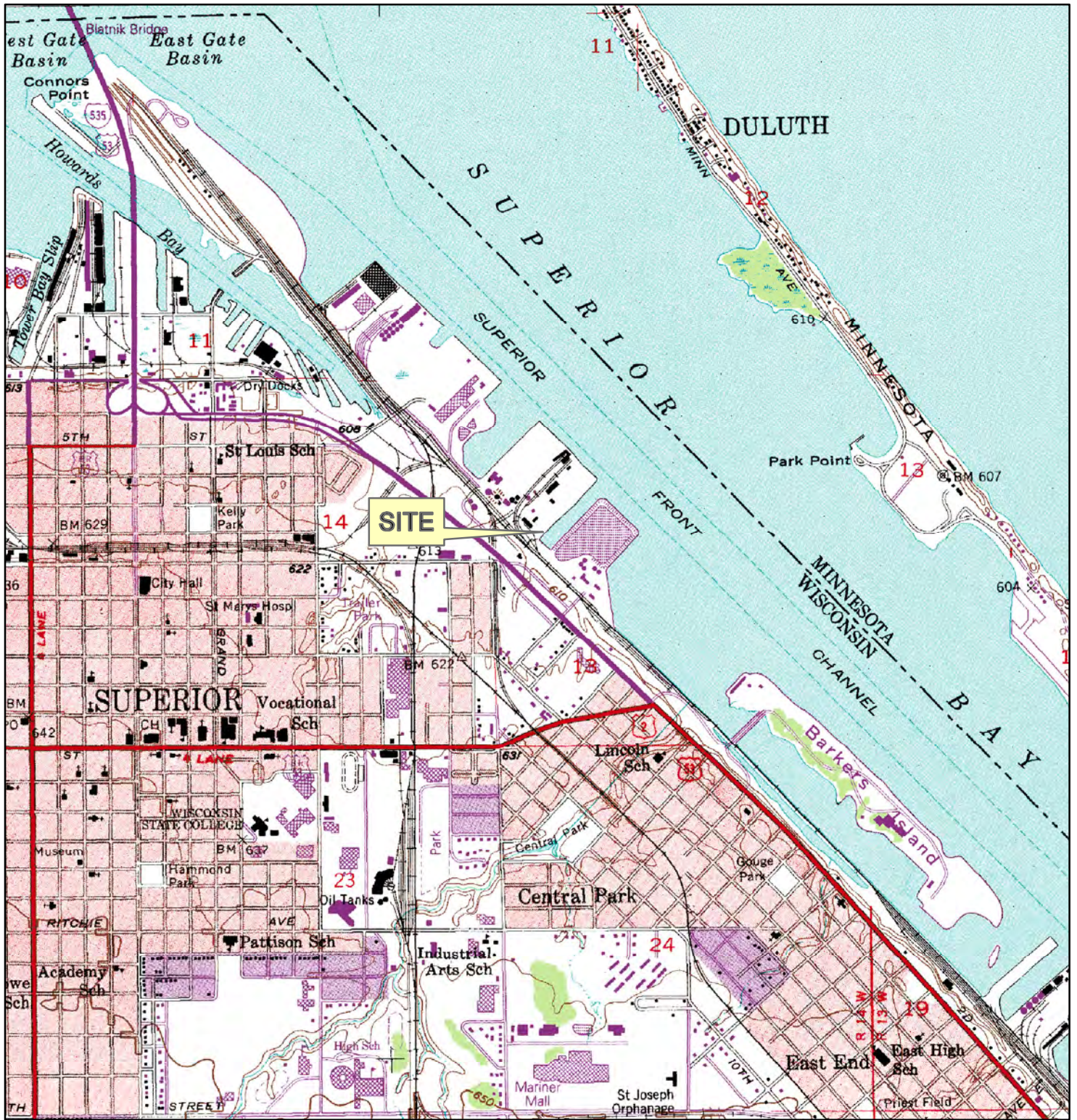
Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory report for details.

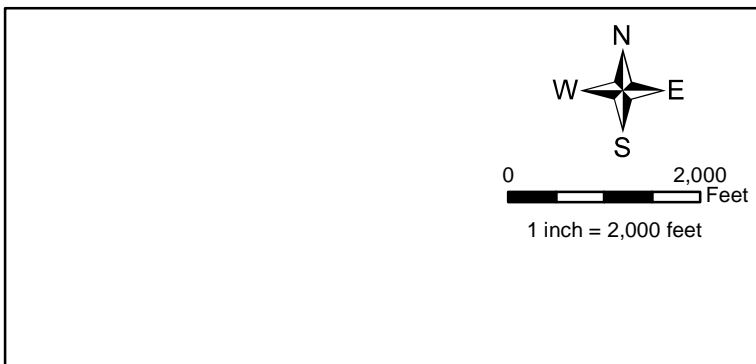
\*The enforcement standard is 480 ug/L for the sum of all trimethylbenzenes.

**Figures**





Map adapted from USGS 7.5 minute topographic map(s): Superior, WI.

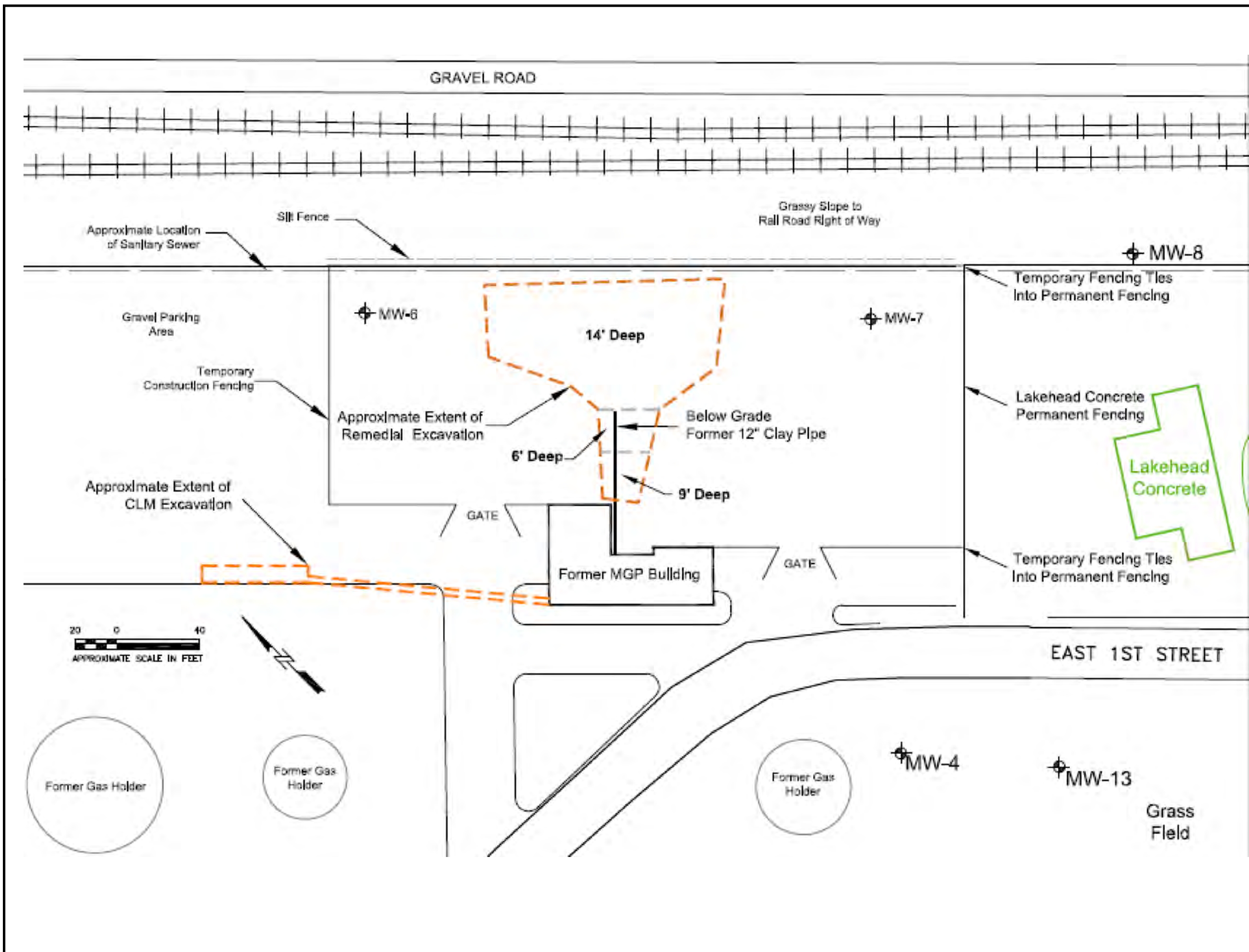


**GENERAL SITE LOCATION MAP**  
 Superior Water Light & Power MGP  
 Superior, Wisconsin



**Figure 1**  
 File: Fig1  
 Summit Proj. No.: 2118-0002  
 Plot Date: 6/23/17  
 Arc Operator: KWR  
 Reviewed by: WMG



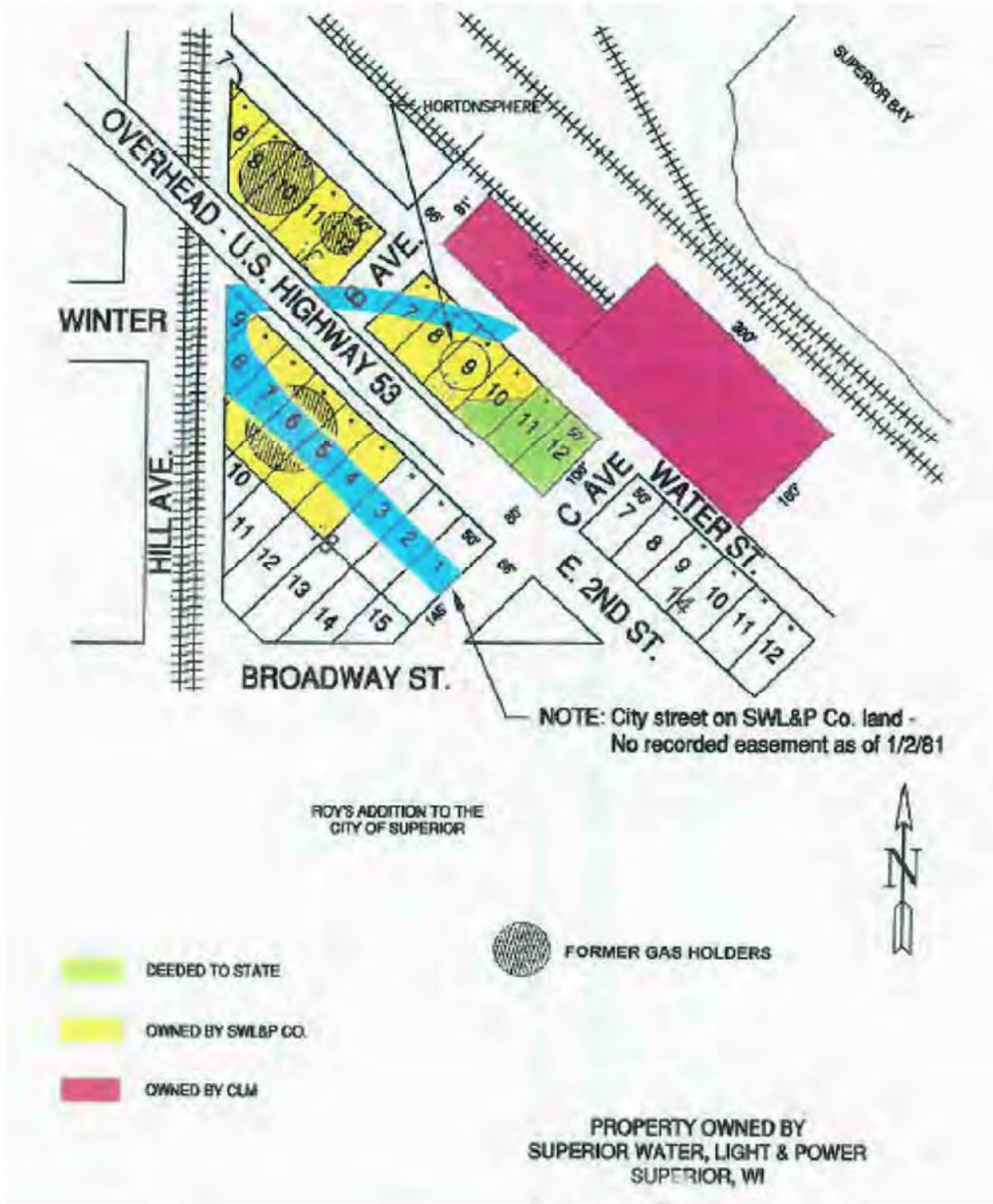


December 2008 Soil Excavation  
 Superior Water Light & Power MGP  
 Superior, Wisconsin

Figure 2  
 File: Fig2\_DecSE  
 Summit Proj. No.: 2 118-0002  
 Plot Date: 6/23/17  
 Arc Operator: KWR  
 Reviewed by: WMG



Map adapted from AECOM



Map adapted from USGS 7.5 minute topographic map(s): Superior, WI.

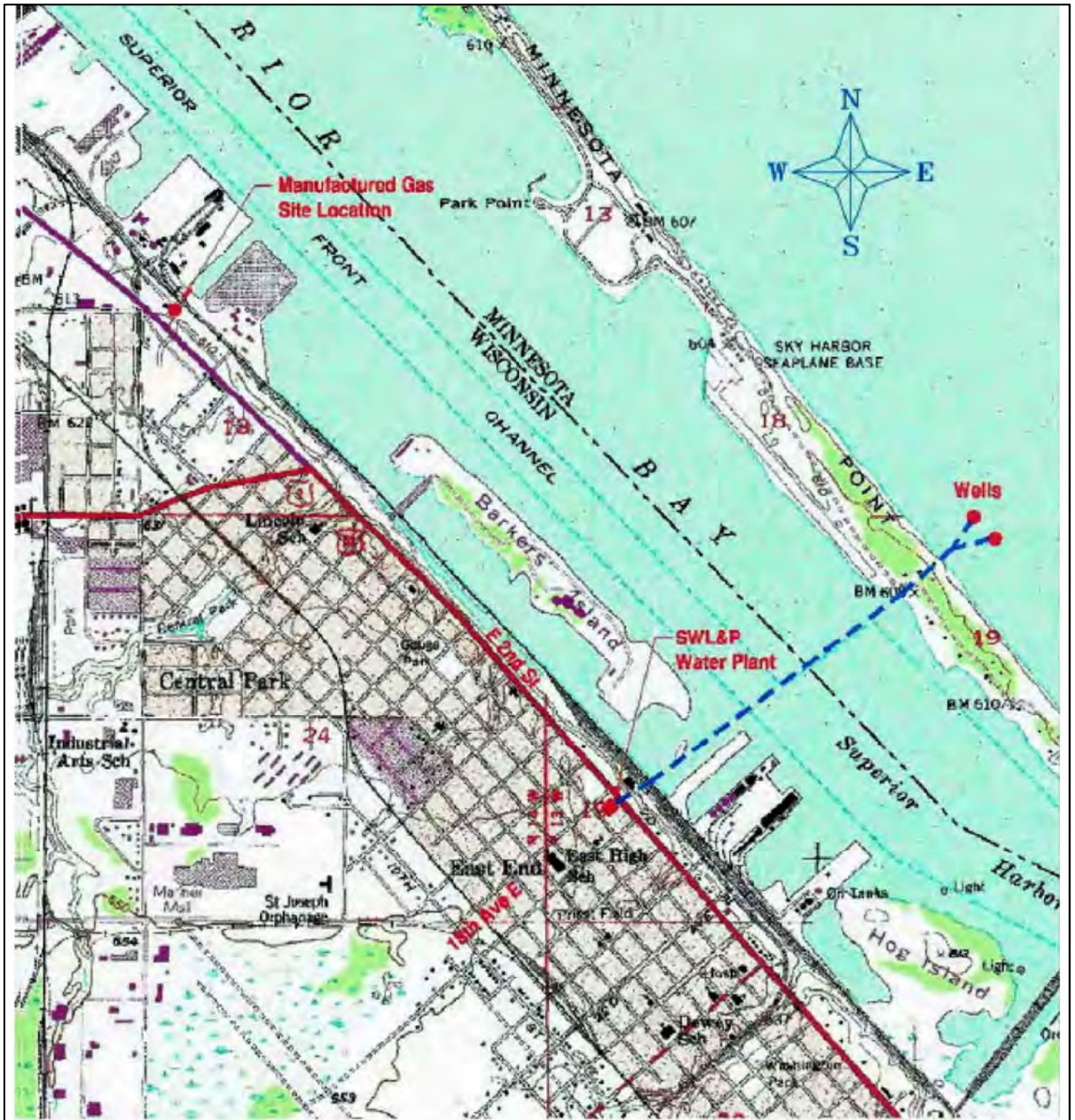
Not drawn to scale

Property Ownership Map  
 Superior Water Light & Power MGP  
 Superior, Wisconsin



Figure 3  
 File: Fig3\_PropertyOwnership  
 Summit Proj. No.: 2118-0002  
 Plot Date: 6/23/17  
 Arc Operator: KWR  
 Reviewed by: WMG





Map adapted from ENSR International

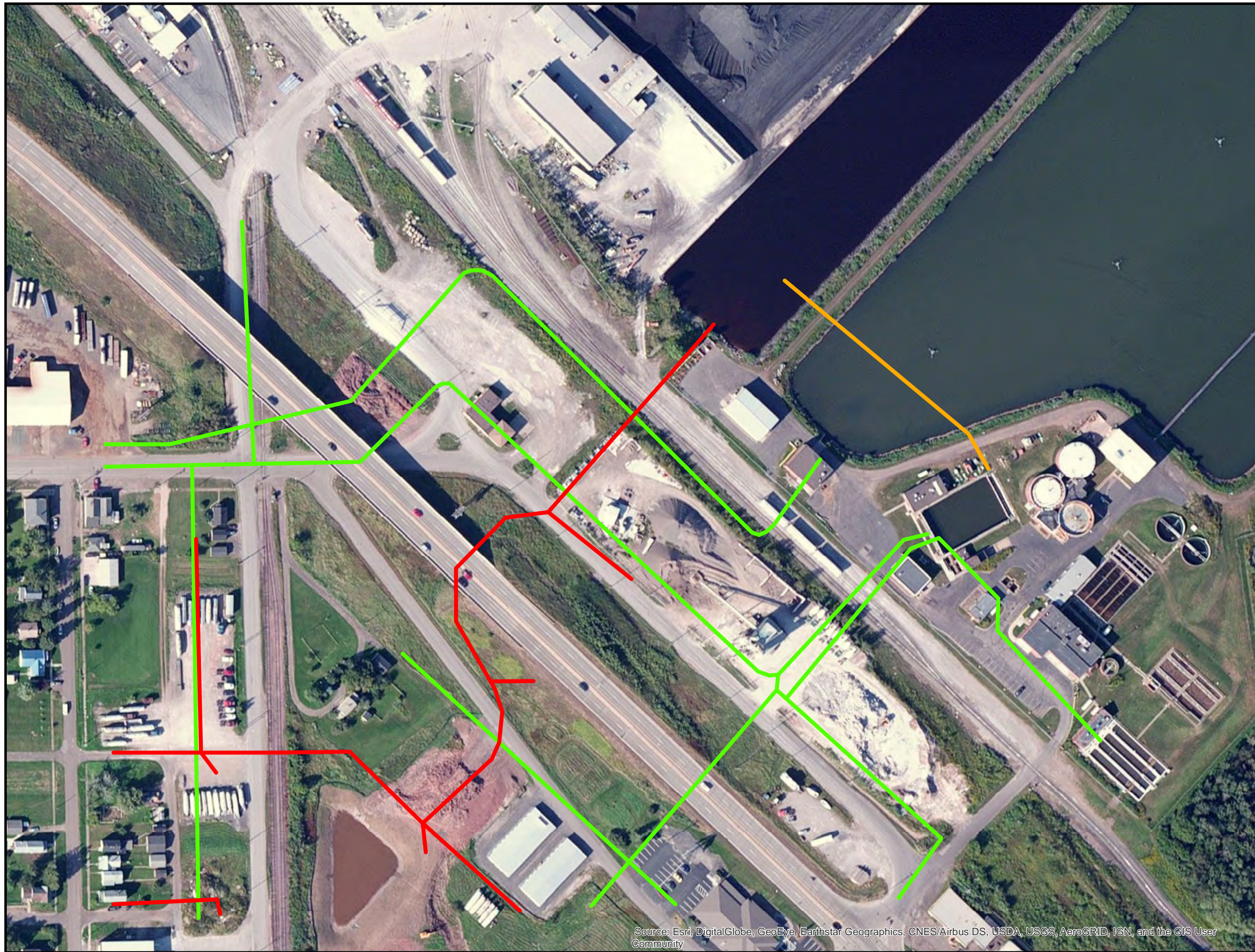
Not drawn to scale

Drinking Water Supply Location  
 Superior Water Light & Power MGP  
 Superior, Wisconsin



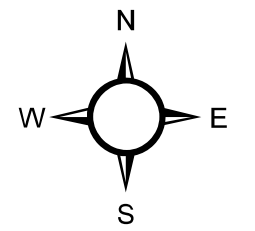
Figure 4  
 File: Fig4\_DWSL  
 Summit Proj. No.: 2118-0002  
 Plot Date: 6/23/17  
 Arc Operator: KWR  
 Reviewed by: WMG





### Explanation

- Over Flow Pipe
- Storm Sewer
- Sanitary Sewer



Feet  
 0 50 100 200  
 Approximate Scale

### Vicinity Sewer Map

Superior Water Light & Power MGP  
 Superior, Wisconsin

### Figure 5

File: Figure5  
 Summit Proj. No.: 2 118-0002  
 Plot Date: 7/25/17  
 Arc Operator: KWR  
 Reviewed by: WMG



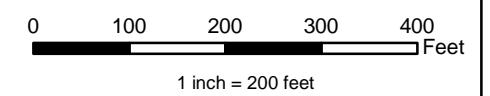
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community





**Explanation**

● LIF Boring Location



**LIF Boring Locations**

Superior Water Light & Power MGP  
Superior, Wisconsin

**Figure 6**

File: Fig6\_LIFBoringLocs.mxd  
Summit Proj. No.: 2118-0002  
Plot Date: 07/14/17  
Arc Operator: RLA  
Reviewed by: WMG

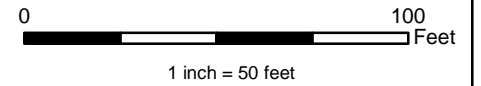
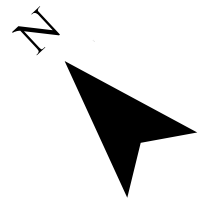






### Explanation

- Vapor Points



Vapor Pin Locations  
 Superior Water Light & Power MGP  
 Superior, Wisconsin

Figure 7

File: Fig7\_VaporPins  
 Summit Proj. No.: 2118-0002  
 Plot Date: 06/19/17  
 Arc Operator: KWR  
 Reviewed by: WMG



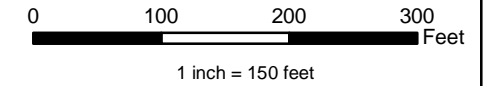
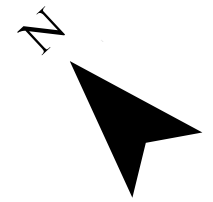
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, Arc





### Explanation

● Sonic Boring



**Sonic Boring Locations**  
 Superior Water Light & Power MGP  
 Superior, Wisconsin

**Figure 8**

File: Fig8\_SonicBorings  
 Summit Proj. No.: 2118-0002  
 Plot Date: 06/19/17  
 Arc Operator: KWR  
 Reviewed by: WMG



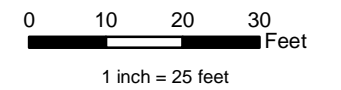
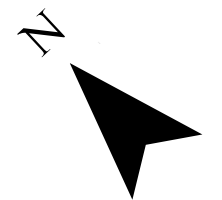
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, Arc





### Explanation

- Geoprobe Boring



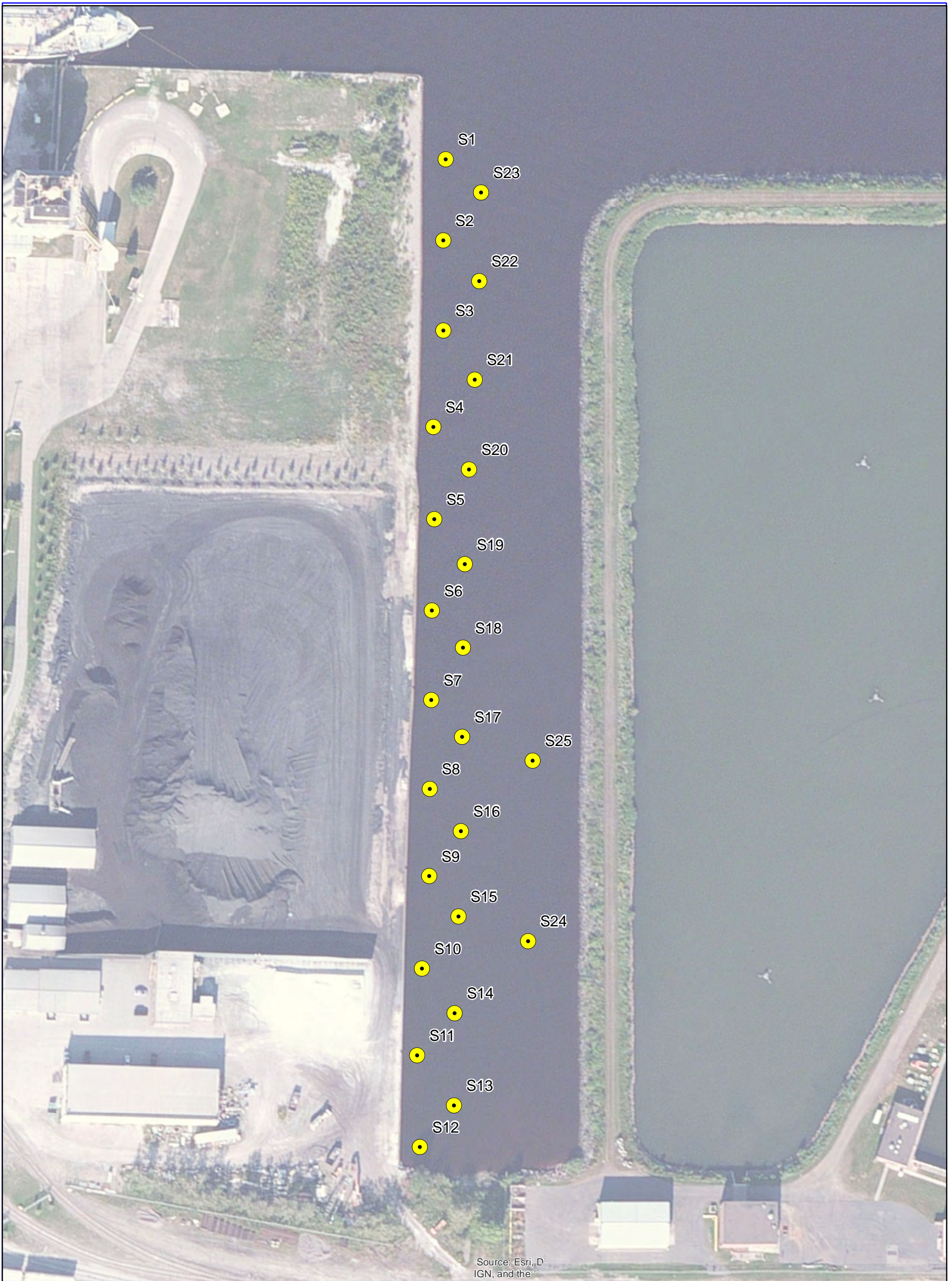
Geoprobe Boring Locations  
 Superior Water Light & Power MGP  
 Superior, Wisconsin

Figure 9

File: Fig9\_GeoprobeLocations  
 Summit Proj. No.: 2118-0002  
 Plot Date: 06/19/17  
 Arc Operator: KWR  
 Reviewed by: WMG

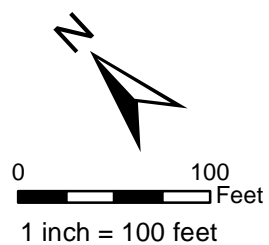






### Explanation

- Sediment Borings



### Sediment Boring Locations

Superior Water Light & Power MGP  
Superior, Wisconsin



Figure 10

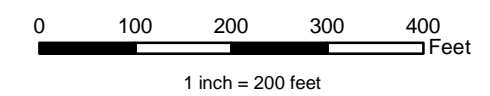
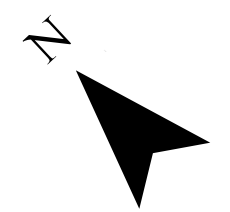
File: Fig10\_SedimentBorings  
Summit Proj. No.:2118-0002  
Plot Date: 7/11/2017  
Arc Operator: KWR  
Reviewed by: WMG





### Explanation

- Monitoring Wells



**Monitoring Well Locations**  
 Superior Water Light & Power MGP  
 Superior, Wisconsin

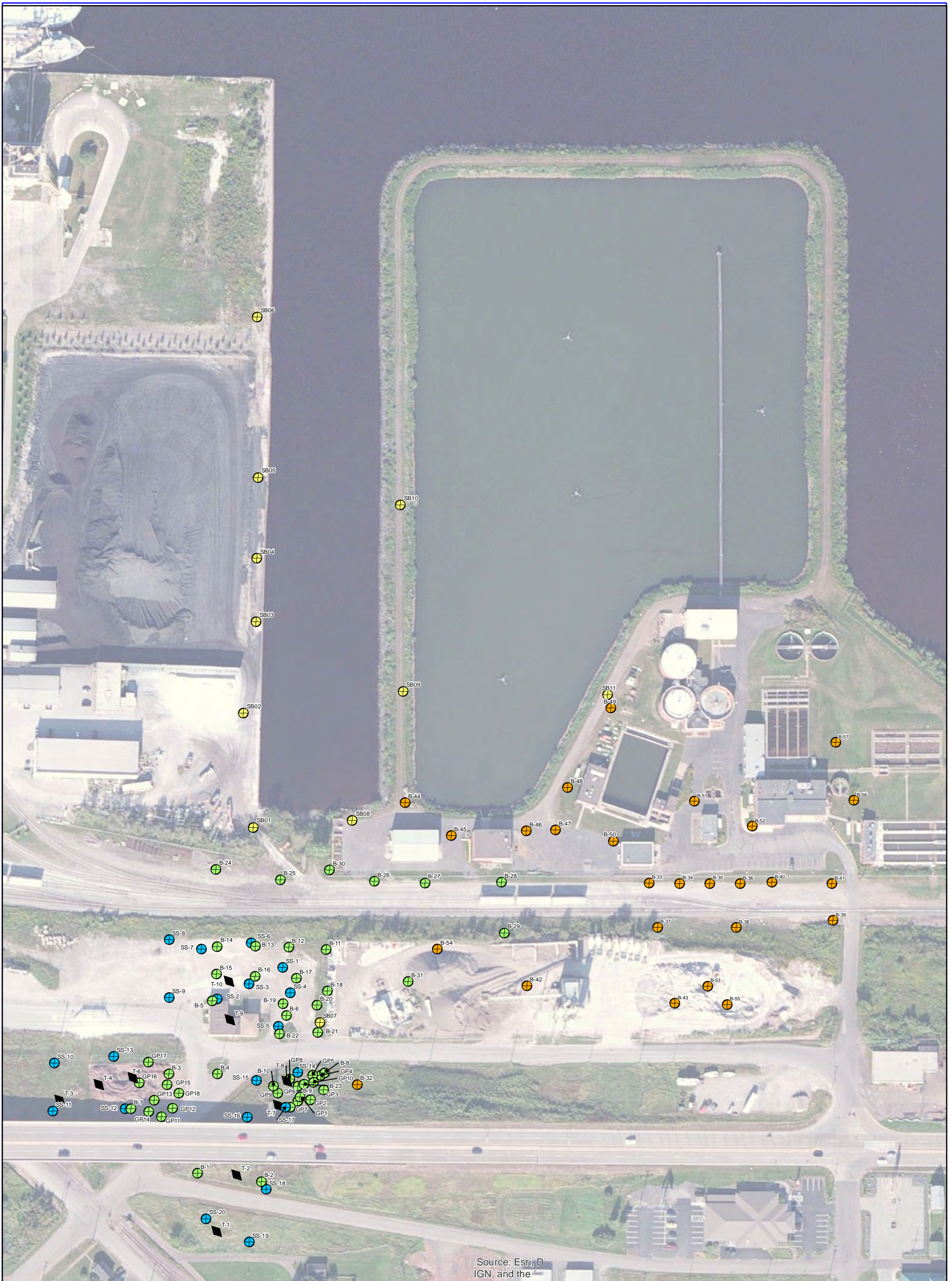
**Figure 11**

File: Fig11\_Monitoring\_Wells  
 Summit Proj. No.: 2118-0002  
 Plot Date: 07/06/17  
 Arc Operator: KWR  
 Reviewed by: WMG








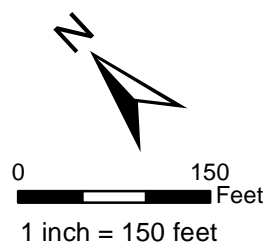
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, Arc





**Explanation**

-  Geoprobe Boring
-  Mobile Laboratory Boring
-  Rotosonic Boring
-  Surface Soil Sample
-  Trench



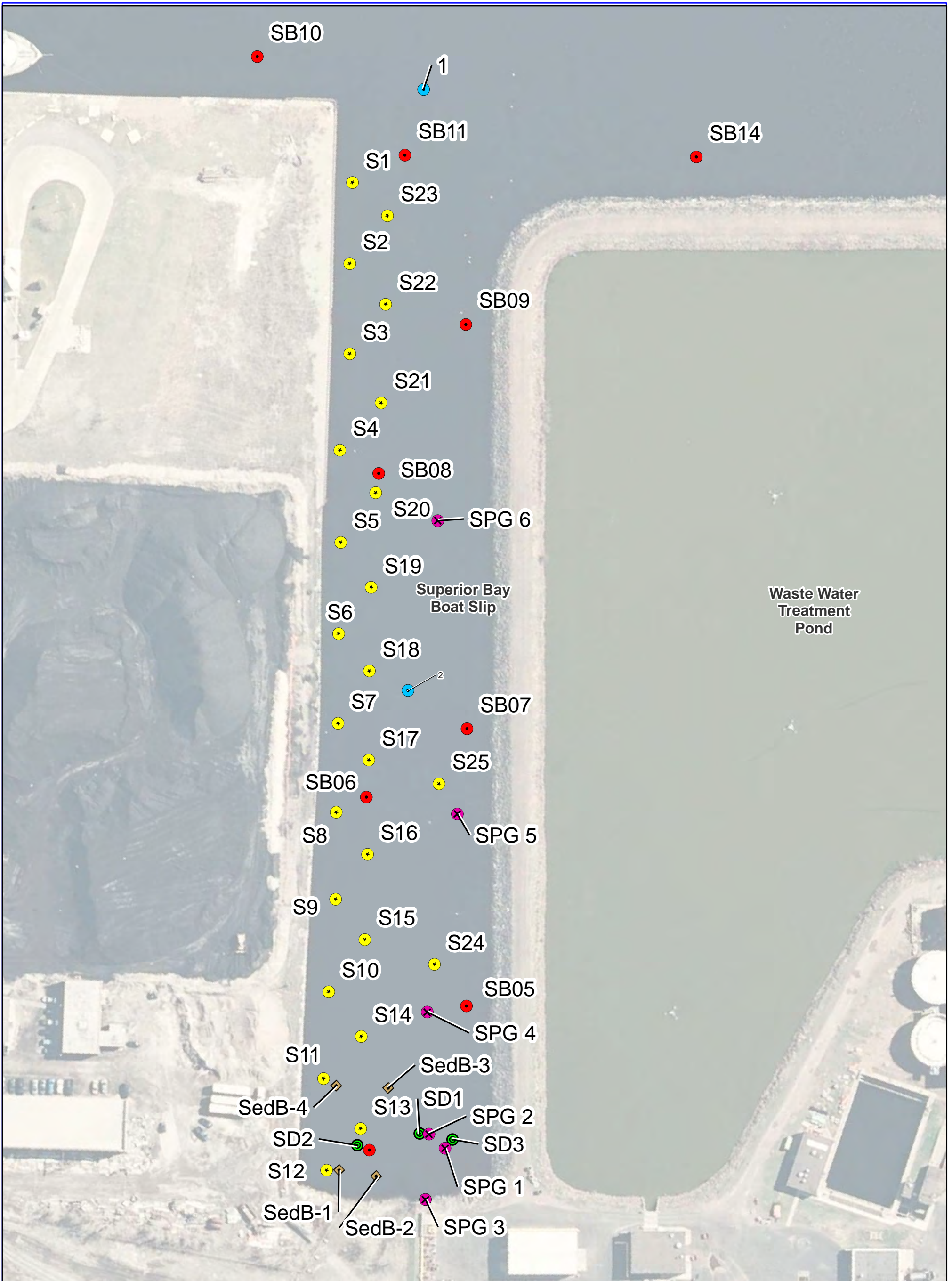
**Complied Soil Investigations**  
Superior Water Light & Power MGP  
Superior, Wisconsin



**Figure 12**

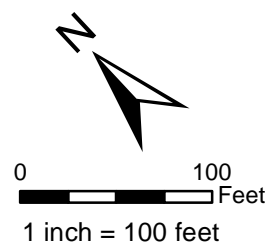
File: Fig12\_CompliedSoil  
Summit Proj. No.:2118-0002  
Plot Date: 7/11/2017  
Arc Operator: KWR  
Reviewed by: WMG





**Explanation**

- \* Summit (2016) Sample Location
- EPA (2015) SCR Sample Location
- EPA (1994) STP Sample Location
- + WDNR (2000) SPG Sample Location
- ⊙ ENSR (2003) Sediment Sample Location
- AECOM (2010) SED Sample Location



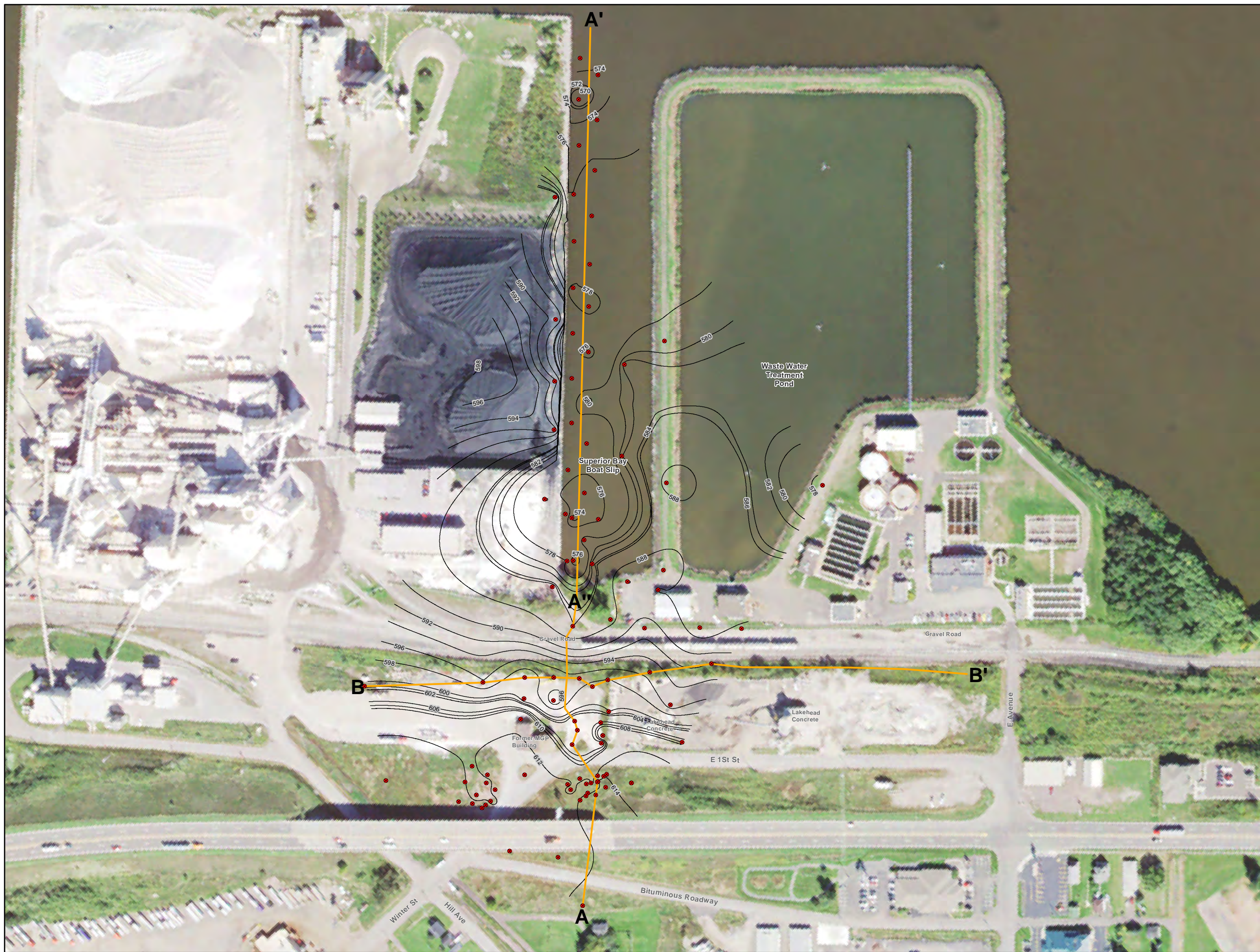
**Compiled Sediment Investigations**  
 Superior Water Light & Power MGP  
 Superior, Wisconsin



**Figure 13**

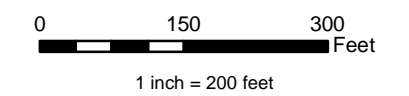
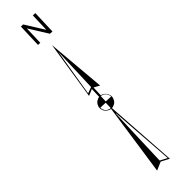
File: Fig13\_Sediment  
 Summit Proj. No.:2118-0002  
 Plot Date: 7/11/2017  
 Arc Operator: KWR  
 Reviewed by: WMG





**Explanation**

- Well or Boring used for Top of Clay Elevation Interpretation
- Top of Clay Elevation Contour Lines C.I. = 2 feet
- Cross-Section Transect



**Top of Clay Elevation Map**  
 Superior Water Light & Power MGP  
 Superior, Wisconsin

**Figure 14**  
 File: Fig14\_TopOfClay  
 Summit Proj. No.: 2118-0002  
 Plot Date: 07-13-2017  
 Arc Operator: RLA  
 Reviewed by: WMG



Map adapted from NAIP 2015 Orthoimagery



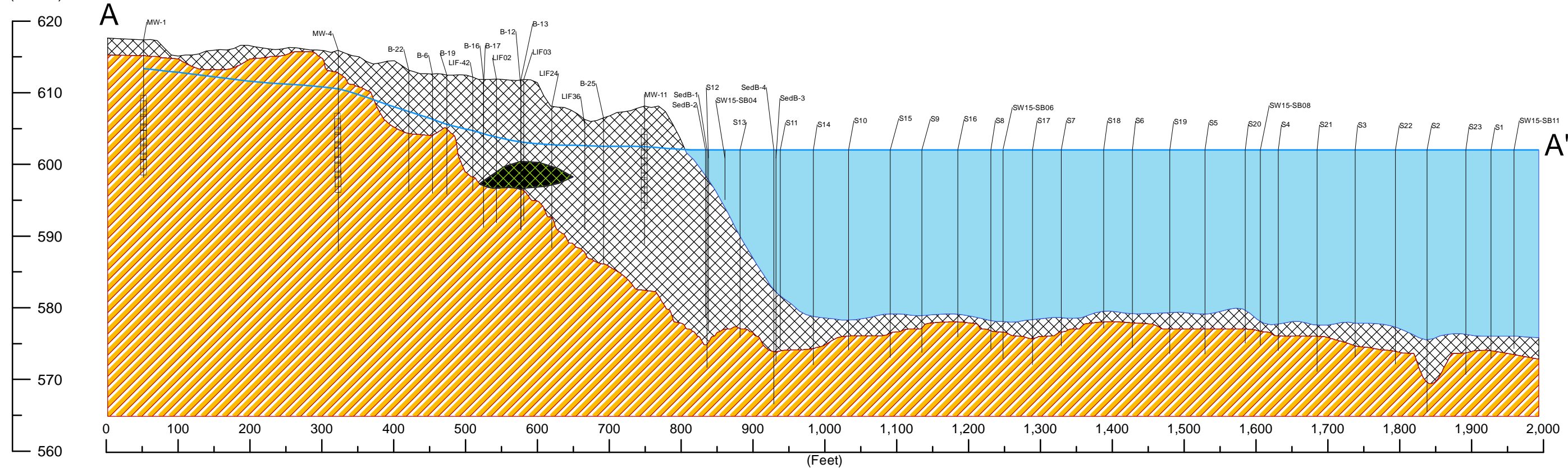
SW



NE



Elevation  
(ft amsl)



**Explanation**

- Mixed Fill
- Tarry Fill
- Lake Superior
- Clay
- Well or Boring
- Well Screen
- Water Table (Jan 2017)

Mixed Fill: May include "lime like material," lake sediment, wood, cinders, bricks, clay, gravel, coal slag, peat, and/or other debris

Tarry Fill: Similar to "Mixed Fill", with the addition of tar-like material

Elevations are based on survey data provided by Salo Engineering, Inc., Douglas County LIDAR Dataset, and lake levels from NOAA station 9099064.

Note: Cross-section is presented as a generalized interpretation of the subsurface based on limited information. Several borings have been projected to the transect. See Figure 12 for the transect line.

Figure 15

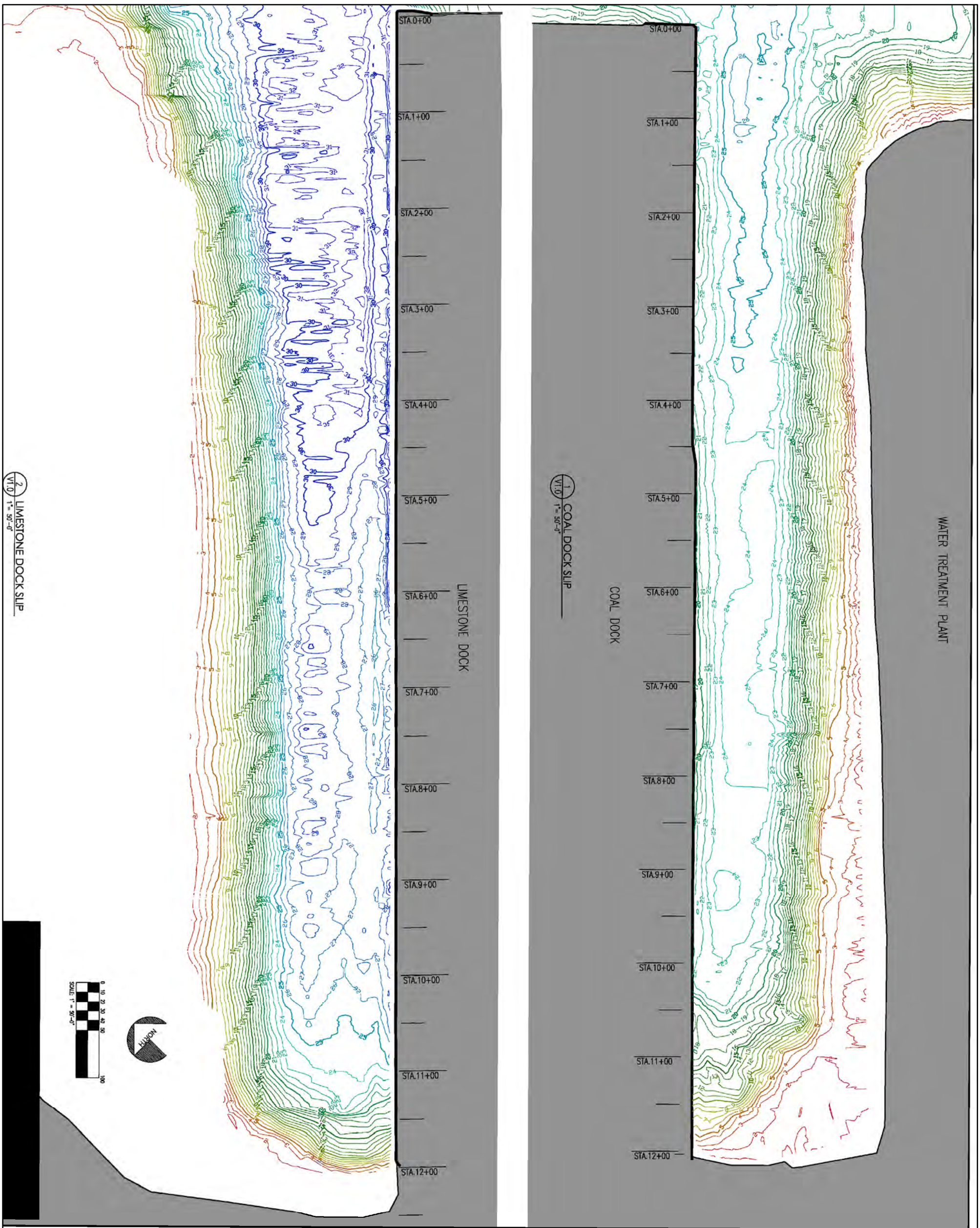


**CROSS-SECTION: A to A'**

Superior Water, Light, and Power  
MGP Site  
Superior, Wisconsin

File: Fig15\_XsecAA  
 Summit Proj. No.: 2118-0002  
 Plot Date: 7/13/2017  
 Arc Operator: RLA  
 Reviewed by: WMG

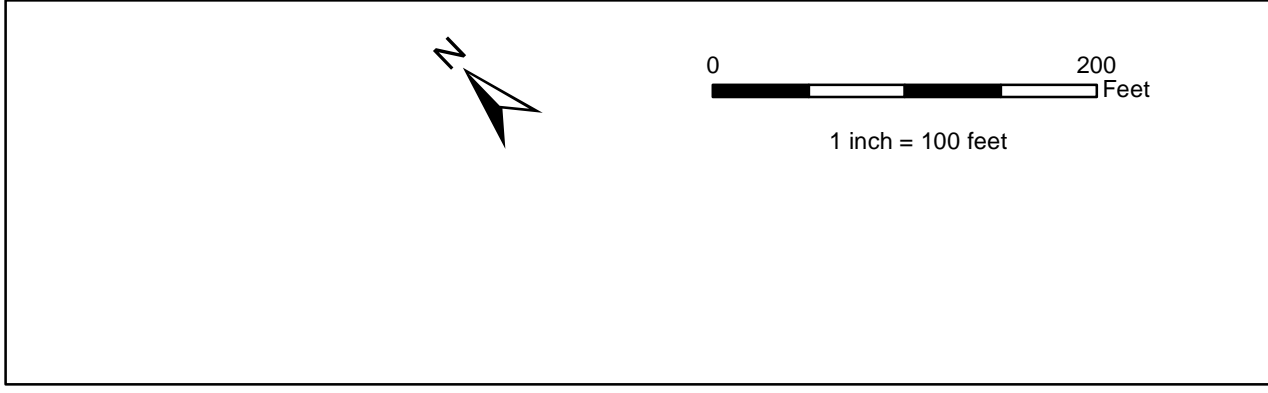




2 Limestone Dock Slip  
 VTD 1" = 50'-0"

1 Coal Dock Slip  
 VTD 1" = 50'-0"

JOB No: 161209 DATE: 10/26/16 DRAWN BY: SAJ DESIGNED BY: SAJ SHEET:	Graymont (WI) LLC Superior Facility Hydrographic Survey Superior, Wisconsin		DATE:	REV:	DESCRIPTION	REV. BY:	 Consulting Engineers P.A. 91 Main Street Superior, WI 54880 PH 715.718.2193 Fax 877.761.7058
	2016 Survey Chart						



**2016 Graymont Bathymetry Map**  
 Superior Water Light & Power MGP  
 Superior, Wisconsin

Summit  
EnviroSolutions

**Figure 16**

File: Fig16\_Graymont\_Bath.mxd  
 Summit Proj. No.: 2118-0002  
 Plot Date: 8/28/2017  
 Arc Operator: RLA  
 Reviewed by: WMG



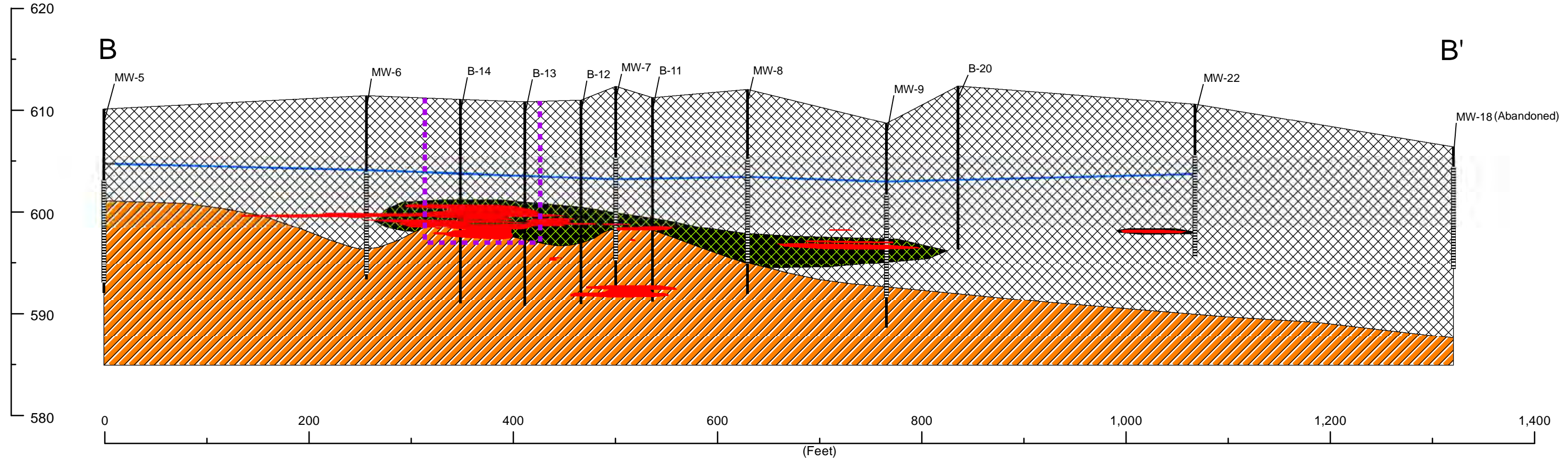
NW



SE



Elevation  
(ft amsl)



1 inch = 100 feet  
Vertical Exaggeration = 10X

**Explanation**

- Mixed Fill
- Tarry Fill
- Clay
- LIF Reflectance >100%
- Boring
- Monitoring Well Screen
- Water Table (Dec 2014)
- Approximate Extent of Remedial Excavation

Mixed Fill: May include "lime like material," wood, cinders, bricks, clay, gravel, coal slag, peat, and/or other debris

Tarry Fill: Similar to "Mixed Fill", with the addition of tar-like material

Elevations are based on survey data provided by Salo Engineering, Inc., Duluth, Minnesota

Note: Cross-section is presented as a generalized interpretation of the subsurface based on limited information. LIF Reflectance information has been projected to the transect from LIF cross-sections B-B', C-C', and D-D'. See Figure 2 for transect locations.

Figure 17



**CROSS-SECTION: B to B'**

Superior Water, Light, and Power  
MGP Site  
Superior, Wisconsin

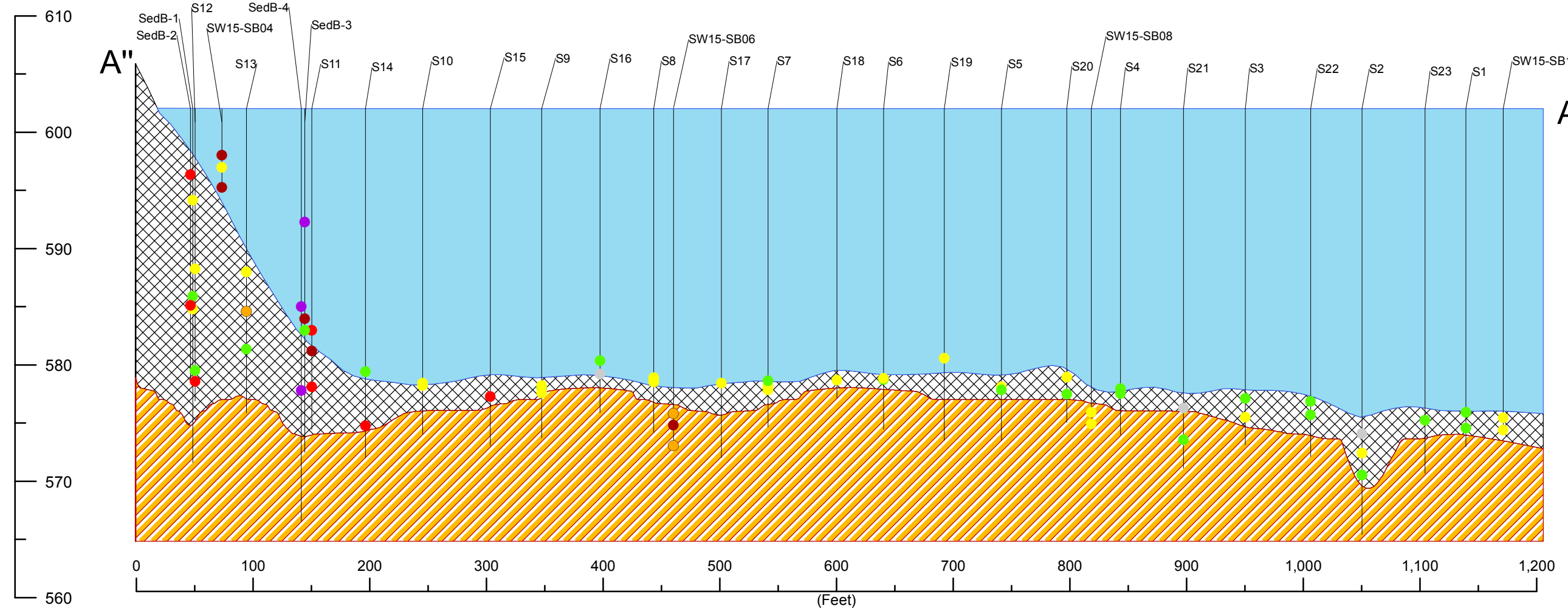
File: Fig17\_Xsec\_BB  
Summit Proj. No.: 2118-0001  
Plot Date: 2/26/2015  
Arc Operator: RLA  
Reviewed by: WMG



SW

NE

Elevation  
(ft amsl)



1 inch = 100 feet  
Vertical Exaggeration = 10X

**Explanation**

- Mixed Fill
- Lake Superior
- Clay
- Well or Boring

**Total Priority Pollutant PAH Result**

- Non-Detect
- ≤ TEC (1,610 µg/kg) Level 1
- > TEC ≤ M EC (1,610 - 12,205 µg/kg) Level 2
- > M EC ≤ PEC (12,205 - 22,800 µg/kg) Level 3
- > PEC (22,800 µg/kg) Level 4
- > 2x PEC (45,600 µg/kg)
- > 5x PEC (114,000 µg/kg)

Elevations are based on survey data provided by Salo Engineering, Inc., Douglas County LIDAR Dataset, and lake levels from NOAA station 9099064.

Note: Cross-section is presented as a generalized interpretation of the subsurface based on limited information. Several borings have been projected to the transect. See Figure 14 for the transect line. Total Priority Pollutant PAH results represent the sum of the 16 priority pollutants at that location and depth, with non-detects summed using zero. For EPA sediment borings (labeled SW15-SBXX), these results represent the sum of the 16 priority pollutants plus 2-Methylnaphthalene, and compounds not detected were summed using half the reporting limit for that compound.

Figure 18



**CROSS-SECTION: A'' to A'**




Superior Water, Light, and Power  
MGP Site  
Superior, Wisconsin

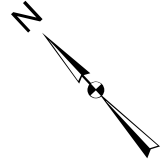
File: Fig18\_XsecAA2  
Summit Proj. No.: 2118-0002  
Plot Date: 7/13/2017  
Arc Operator: RLA  
Reviewed by: WMG

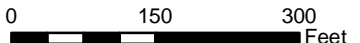




### Explanation

-  Monitoring Well with Measured Groundwater Elevation
-  Groundwater Elevation Contour Lines  
C.I. = 1 foot
-  Intersection of water table with native clay



  
 1 inch = 200 feet

**Groundwater Elevation Map  
(January 2017)**  
 Superior Water Light & Power MGP  
 Superior, Wisconsin

**Figure 19A**

File: Fig19A\_Jan2017\_GWContours  
 Summit Proj. No.: 2118-0002  
 Plot Date: 07-13-2017  
 Arc Operator: RLA  
 Reviewed by: WMG






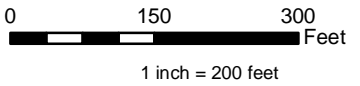
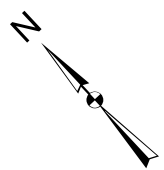
Map adapted from NAIP 2015 Orthoimagery





**Explanation**

-  Monitoring Well with Measured Groundwater Elevation
-  Groundwater Elevation Contour Lines  
C.I. = 1 foot
-  Intersection of water table with native clay



**Groundwater Elevation Map**  
(April 2017)  
Superior Water Light & Power MGP  
Superior, Wisconsin

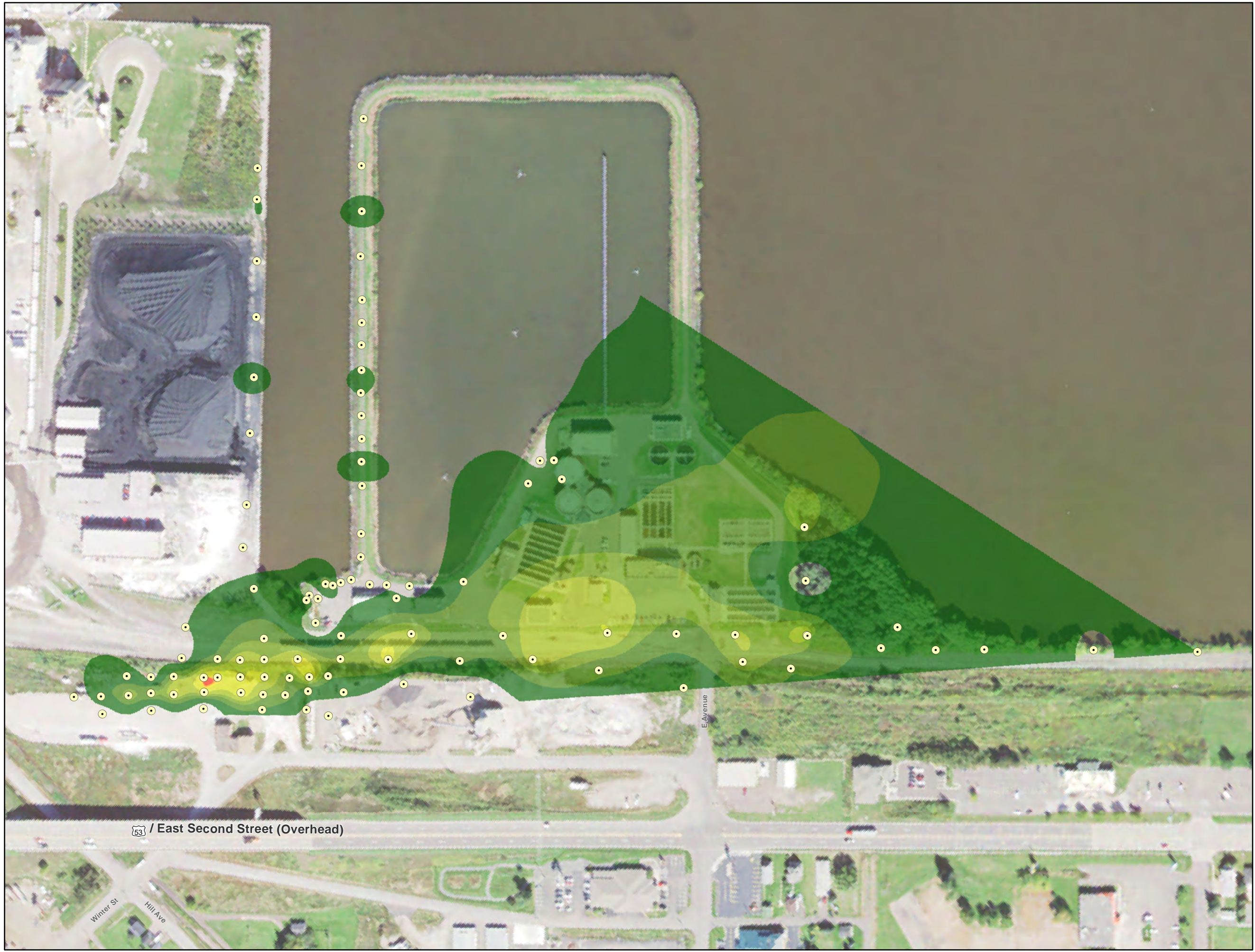
**Figure 19B**

File: Fig19B\_April2017\_GWContours  
Summit Proj. No.: 2118-0002  
Plot Date: 07-13-2017  
Arc Operator: RLA  
Reviewed by: WMG



Map adapted from NAIP 2015 Orthoimagery



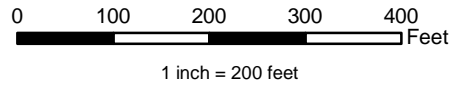


**Explanation**

○ LIF Boring Location

**Maximum LIF Reflectance Interpolation (%)**

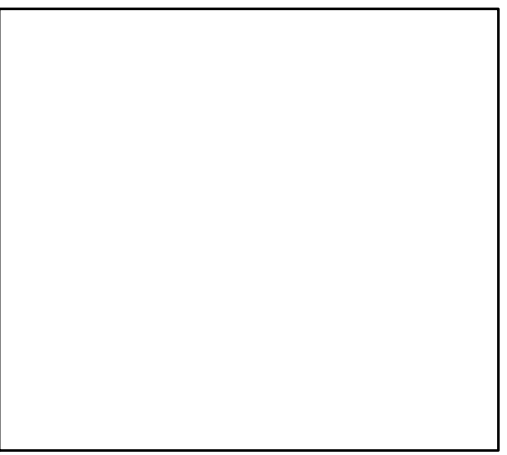
- 25 - 75
- 75 - 125
- 125 - 175
- 175 - 250
- 250 - 350
- 350 - 500
- 500 - 750
- 750 - 1,000
- 1,000 - 1,200
- 1,200 - 1,330



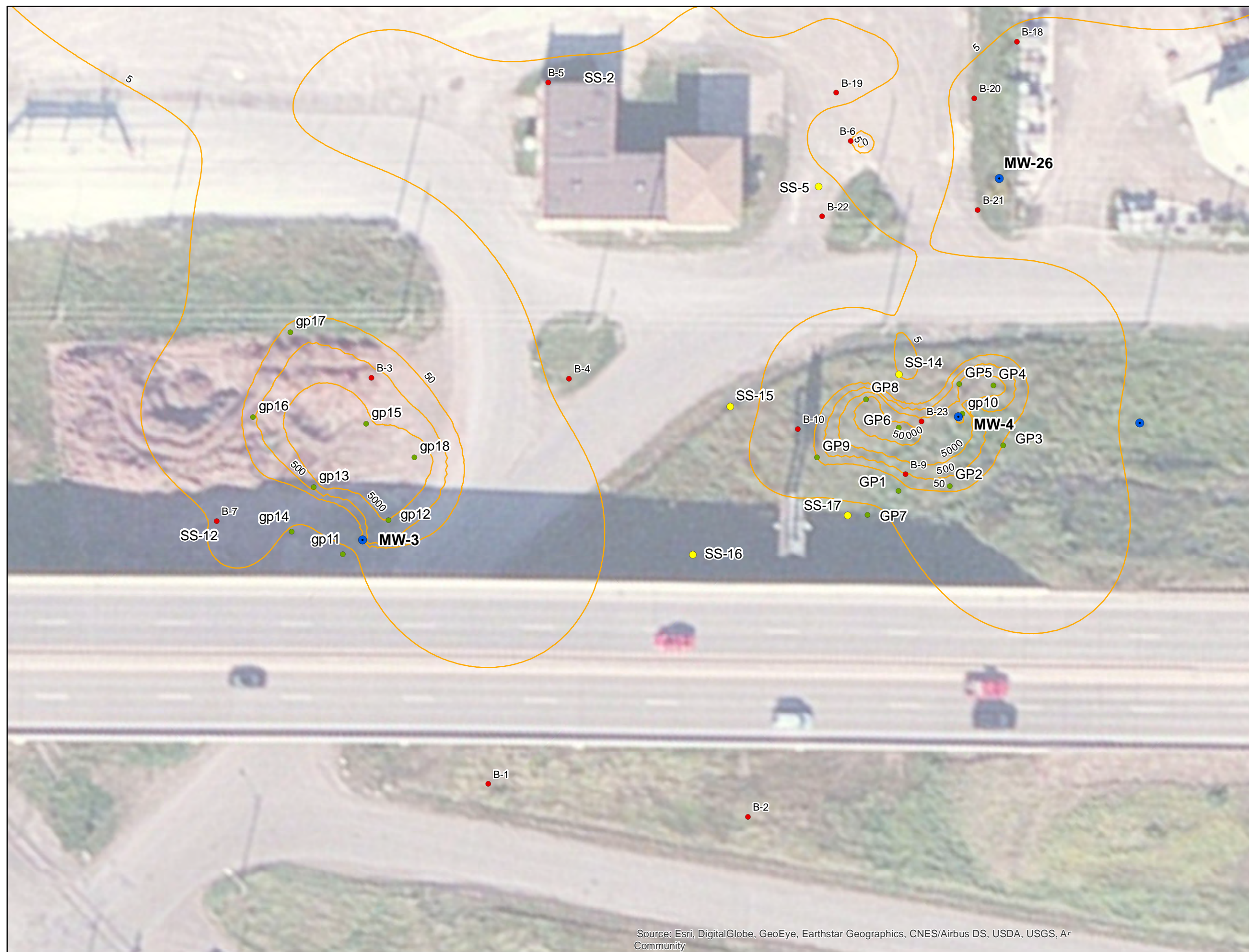
**LIF Investigation**  
 Superior Water Light & Power MGP  
 Superior, Wisconsin

**Figure 20**

File: Fig20\_LIFInvestigation  
 Summit Proj. No.: 2118-0002  
 Plot Date: 07/13/17  
 Arc Operator: RLA  
 Reviewed by: WMG



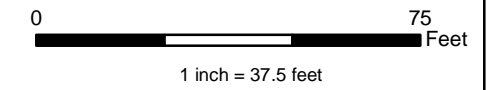
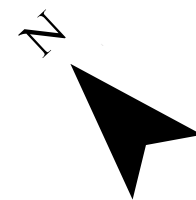




**Explanation**

- Monitoring Wells
- Surface Sample Locations
- Prior Borings
- 2016 Geoprobe Borings

**Benzene Contour**  
 (5, 50, 500, 5,000, 50,000 ug/kg)



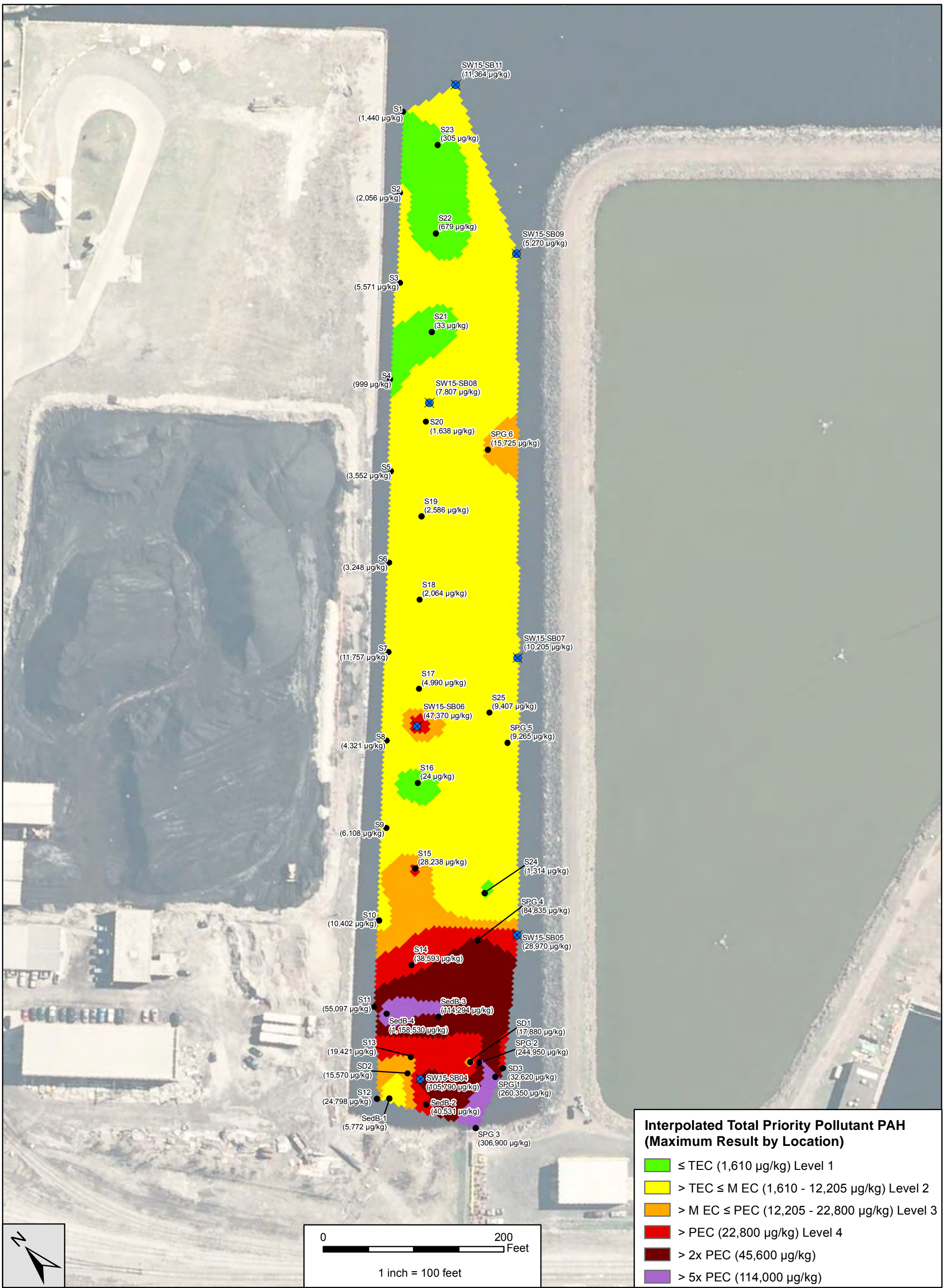
Benzene Contours at MW-3 and MW-4  
 Superior Water Light & Power MGP  
 Superior, Wisconsin

**Figure 21**

File: Fig21\_BenzeneContours  
 Summit Proj. No.: 2118-0002  
 Plot Date: 06/19/17  
 Arc Operator: KWR  
 Reviewed by: WMG







**Explanation**

- Sediment Boring Location
- ⊕ EPA 2015 Sediment Boring Location

Notes: Sediment Boring Locations are labeled with the name of the boring and the maximum total priority pollutant PAH result in soil at that location. For "EPA 2015 Sediment Borings," this total sums the 16 priority pollutants plus 2-Methylnaphthalene, and compounds not detected were summed using half the reporting limit for that compound. For other borings, the total includes the 16 priority pollutants, with non-detects summed using zero.

**Boat Slip Total PAH Results**

Superior Water Light & Power MGP  
Superior, Wisconsin



Figure 22

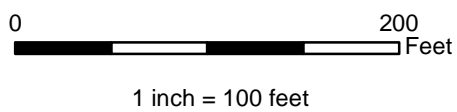
File: Fig22\_BoatSlipTPAH.mxd  
Summit Proj. No.:2118-0002  
Plot Date: 7/13/2017  
Arc Operator: RLA  
Reviewed by: WMG





**Explanation**

- Boring with no PAH or Metal Result >MEC
- Boring with PAH and/or Metal Result >MEC



**Boat Slip PAH & Metals MEC Exceedances**

Superior Water Light & Power MGP  
Superior, Wisconsin



**Figure 23**

File: Fig23\_BoatSlipExceed.mxd  
Summit Proj. No.:2118-0002  
Plot Date: 7/14/2017  
Arc Operator: RLA  
Reviewed by: WMG



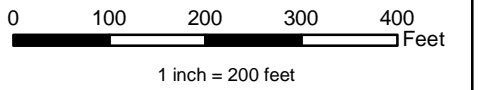
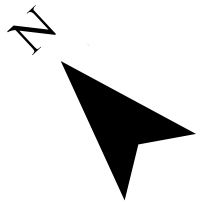


### Explanation

Monitoring Well with Benzene Concentration in Groundwater (ug/L)

Interpreted Benzene Isoconcentration Line

5; 500; 50,000 ug/L



Estimated Extent of Benzene in Groundwater (Jan. 2017)  
 Superior Water Light & Power MGP  
 Superior, Wisconsin

Figure 24A

File: Fig24A\_BenzeneJangw  
 Summit Proj. No.: 2118-0002  
 Plot Date: 07/06/17  
 Arc Operator: KWR  
 Reviewed by: WMG



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, Arc Community



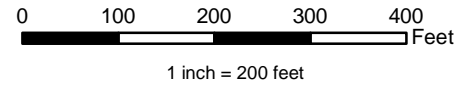
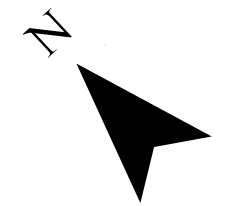


## Explanation

Monitoring Well with Benzene Concentration in Groundwater (ug/L)

Interpreted Benzene Isoconcentration Line

5; 500; 50,000 ug/l



Estimated Extent of Benzene in Groundwater (Apr. 2017)  
Superior Water Light & Power MGP  
Superior, Wisconsin

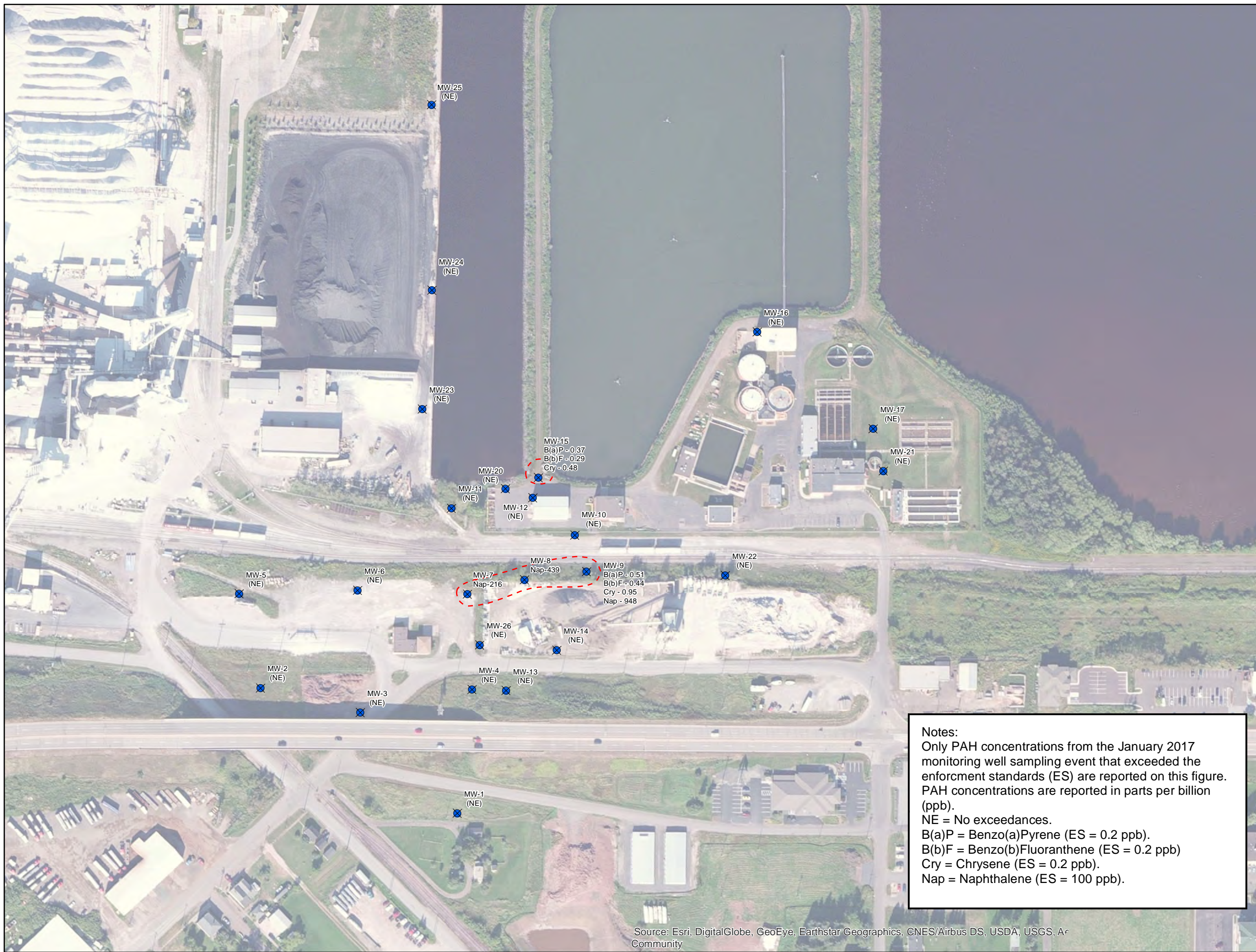
Figure 24B

File: Fig24B\_BenzeneAprgw  
Summit Proj. No.: 2118-0002  
Plot Date: 07/06/17  
Arc Operator: KWR  
Reviewed by: WMG



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, Arc Community





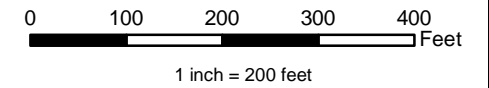
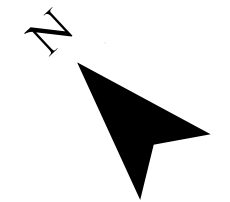
### Explanation

Monitoring Wells

Estimated extent where one or more PAH concentration exceeded the groundwater enforcement standard.

PAH Exceedance Extent

Monitoring well with PAH concentration in groundwater.



### Estimated Extent of PAH in Groundwater - January 2017

Superior Water Light & Power MGP  
Superior, Wisconsin

### Figure 25A

File: Fig25A\_PAHGWJAN  
Summit Proj. No.: 2118-0002  
Plot Date: 07/06/17  
Arc Operator: KWR  
Reviewed by: WMG

**Notes:**  
Only PAH concentrations from the January 2017 monitoring well sampling event that exceeded the enforcement standards (ES) are reported on this figure. PAH concentrations are reported in parts per billion (ppb).  
NE = No exceedances.  
B(a)P = Benzo(a)Pyrene (ES = 0.2 ppb).  
B(b)F = Benzo(b)Fluoranthene (ES = 0.2 ppb)  
Cry = Chrysene (ES = 0.2 ppb).  
Nap = Naphthalene (ES = 100 ppb).







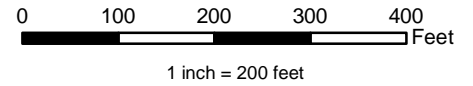
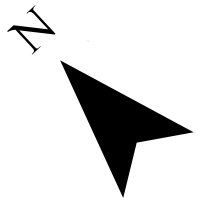
### Explanation

⊕ Monitoring Wells

*Estimated extent where one or more PAH concentration exceeded the groundwater enforcement standard.*

⊔ PAH Exceedance Extent

*Monitoring well with PAH concentration in groundwater.*



### Estimated Extent of PAH in Groundwater - April 2017

Superior Water Light & Power MGP  
Superior, Wisconsin

### Figure 25B

File: Fig25B\_PAHWAPR  
Summit Proj. No.: 2118-0002  
Plot Date: 07/06/17  
Arc Operator: KWR  
Reviewed by: WMG

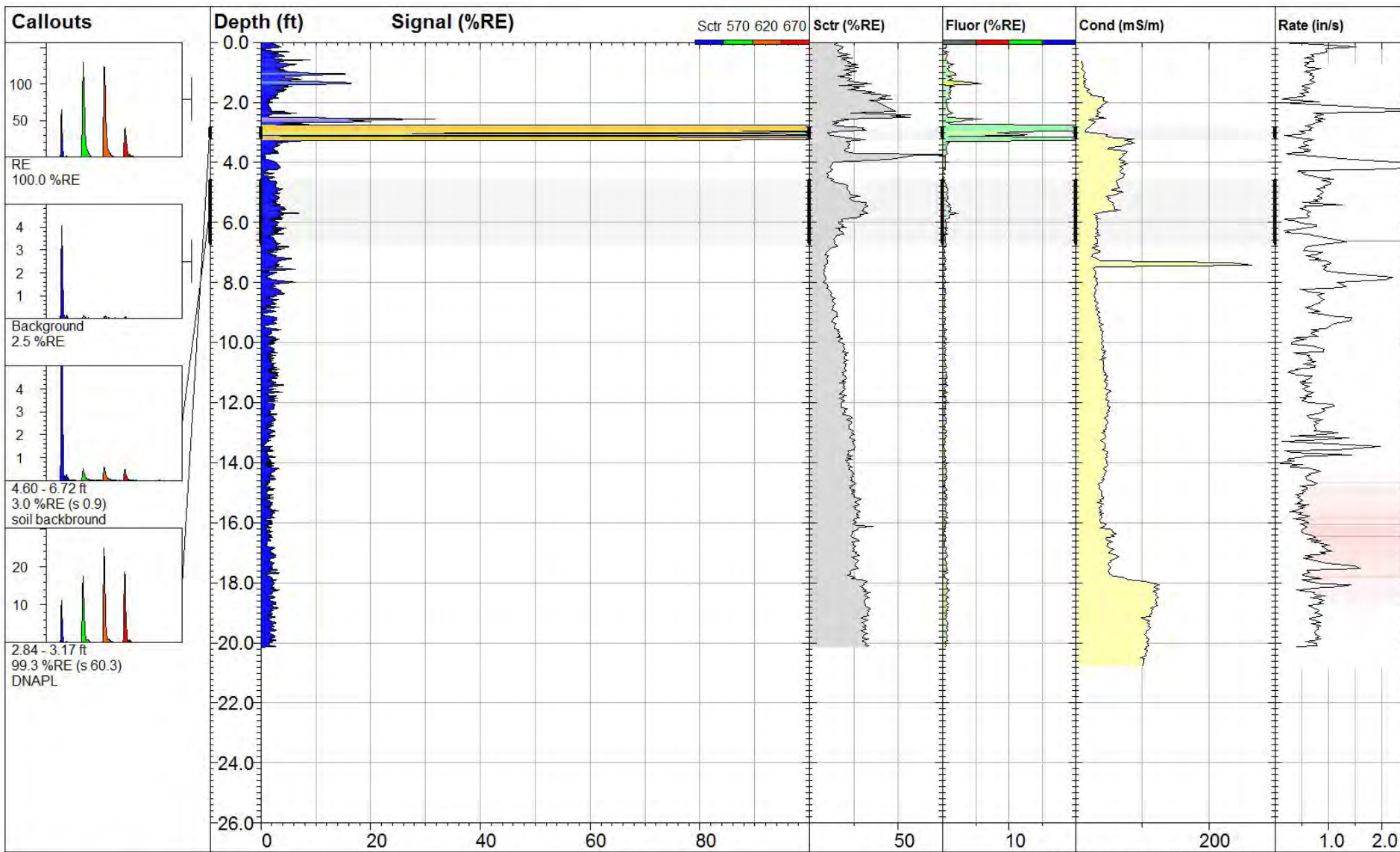
**Notes:**  
Only PAH concentrations from the April 2017 monitoring well sampling event that exceeded the enforcement standards (ES) are reported on this figure. PAH concentrations are reported in parts per billion (ppb).  
NE = No exceedances.  
B(a)P = Benzo(a)Pyrene (ES = 0.2 ppb).  
B(b)F = Benzo(b)Fluoranthene (ES = 0.2 ppb)  
Cry = Chrysene (ES = 0.2 ppb).  
Nap = Naphthalene (ES = 100 ppb).






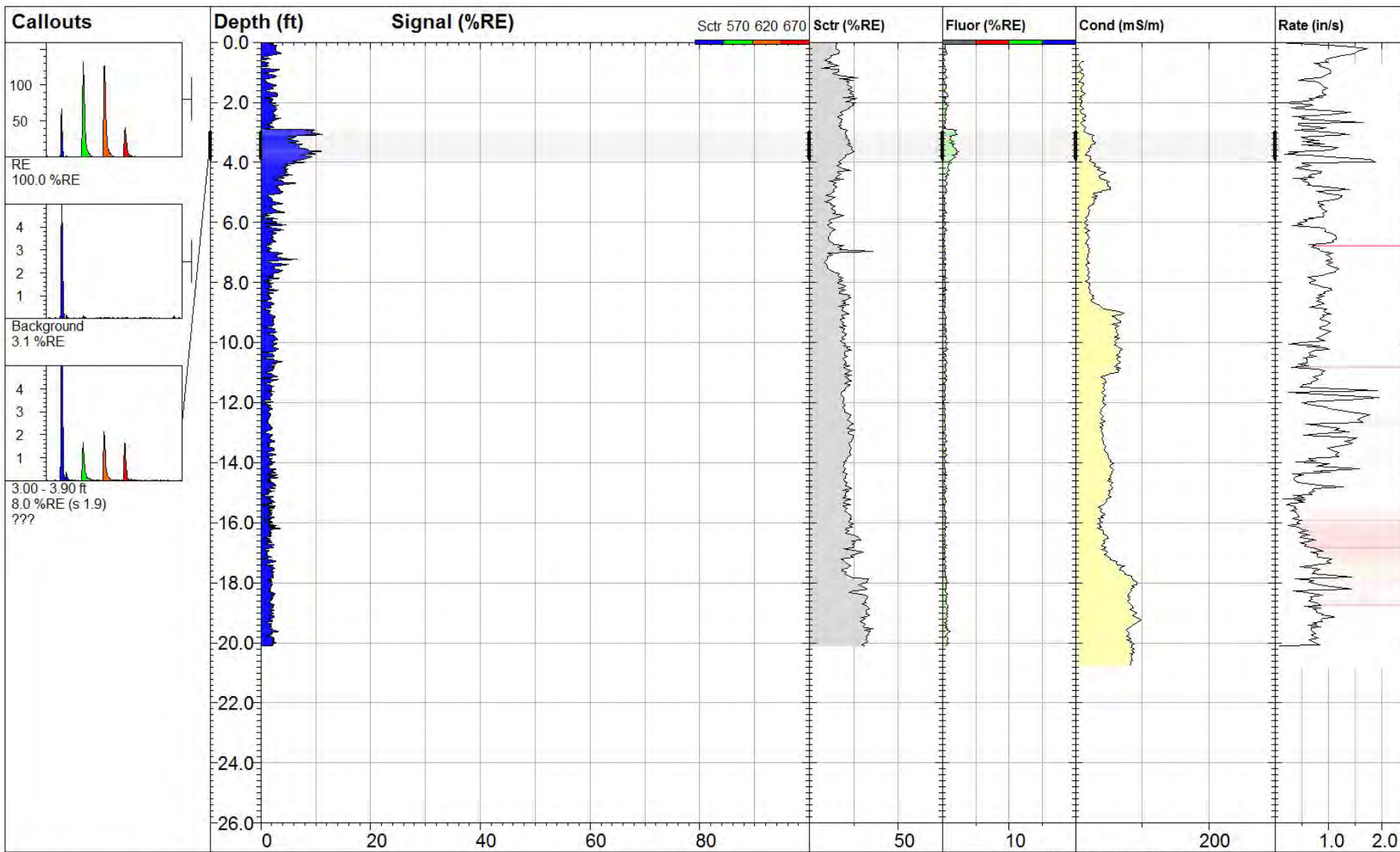
## **Appendix A**


### **LIF Logs**

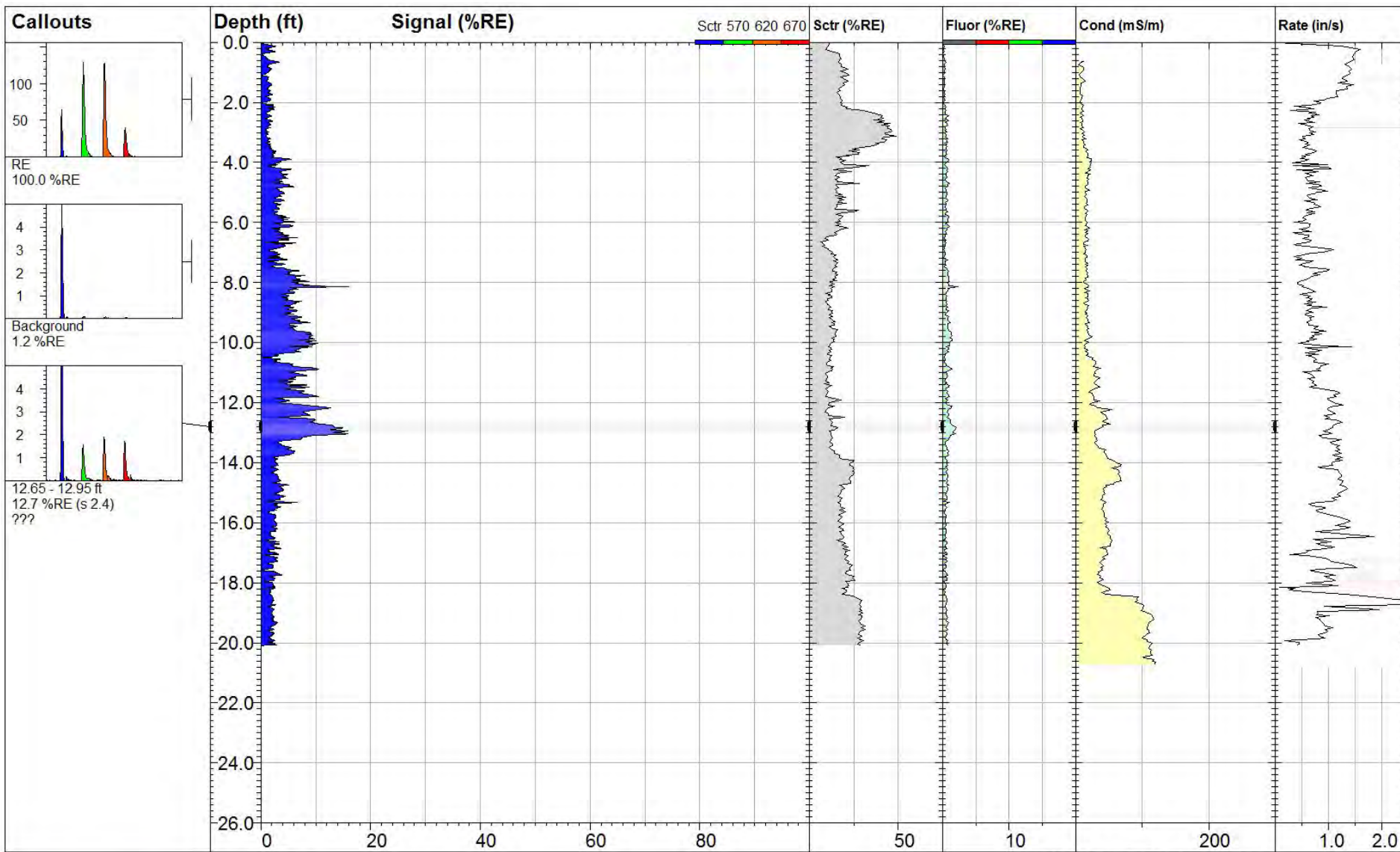



 <b>DAKOTA TECHNOLOGIES</b> <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-01</b>		<b>TargOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord. (Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>20.14 ft</b>
	<i>Client / Job:</i> <b>Summit / 255.16</b>	<i>X Coord. (Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>196.6 %RE @ 3.08 ft</b>
	<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-28 13:07 CST</b>



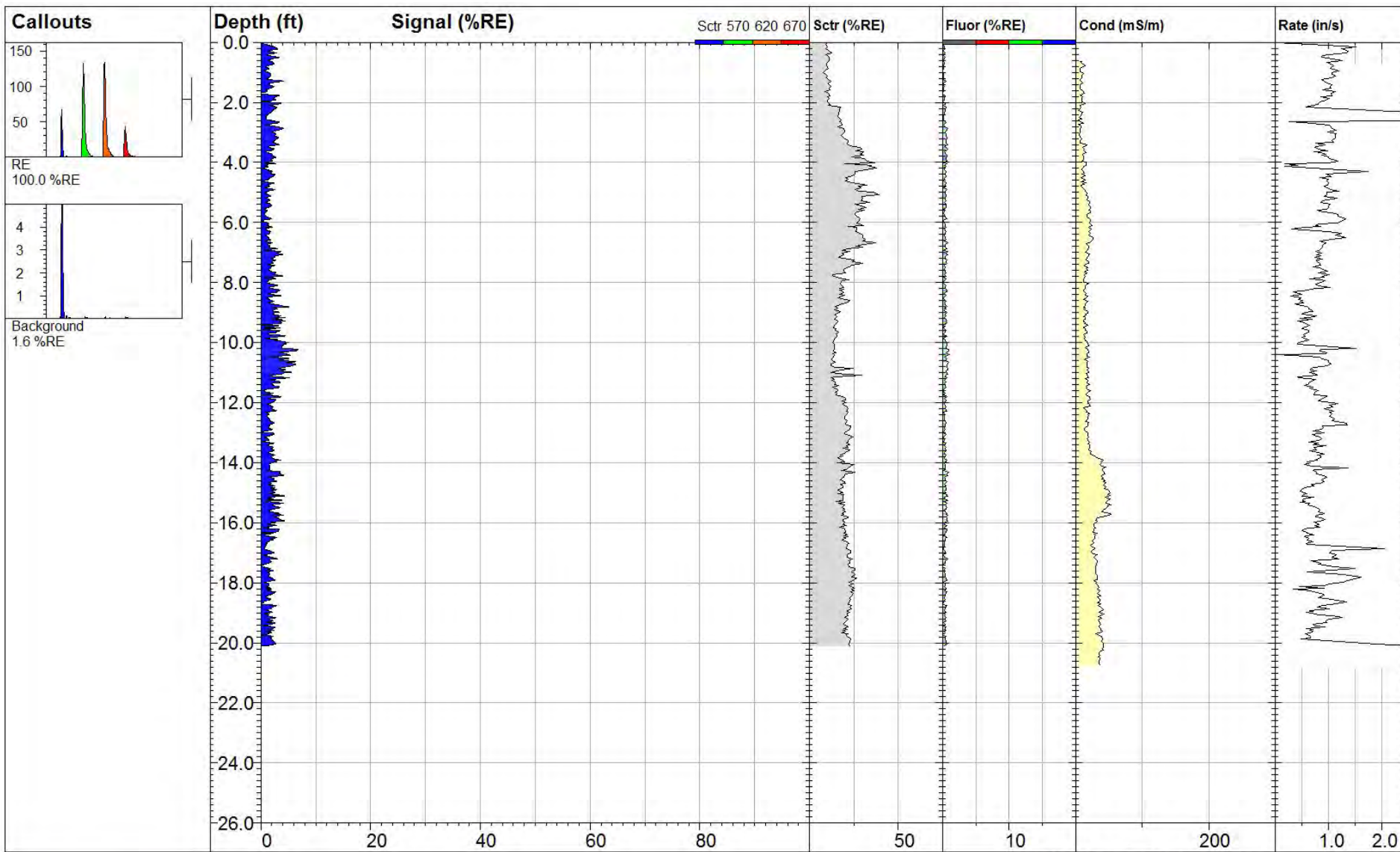



 <b>DAKOTA TECHNOLOGIES</b> <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-02</b>		<b>TARGOST® By Dakota</b> www.DakotaTechnologies.com
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord. (Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>20.10 ft</b>
	<i>Client / Job:</i> <b>Summit / 255.16</b>	<i>X Coord. (Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>11.4 %RE @ 3.08 ft</b>
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-28 13:43 CST</b>	



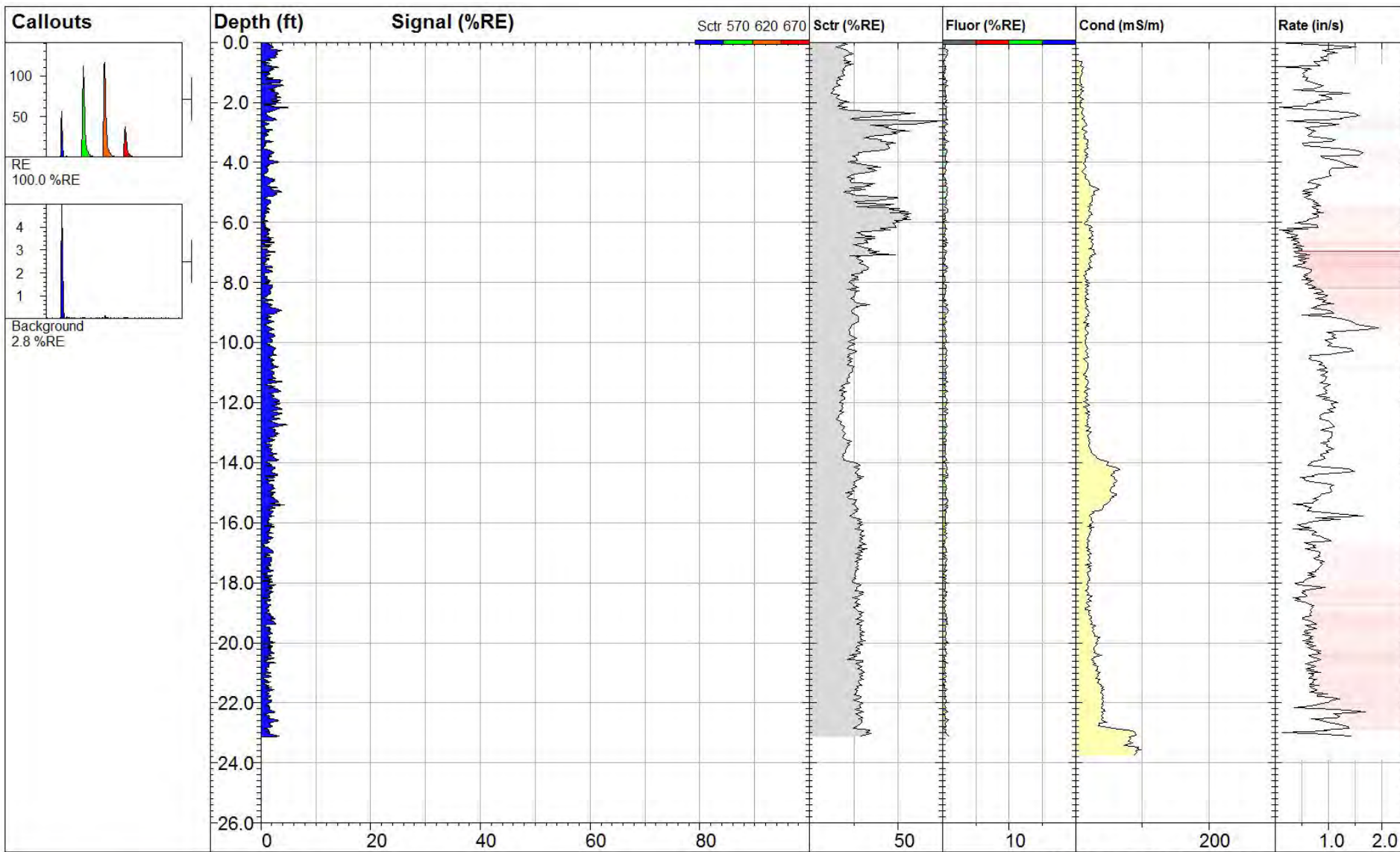
 <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-03</b>		<b>TARGOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord. (Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>20.08 ft</b>
	<i>Client / Job:</i> <b>Summit / 255.16</b>	<i>X Coord. (Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>16.8 %RE @ 8.14 ft</b>
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-28 14:09 CST</b>	




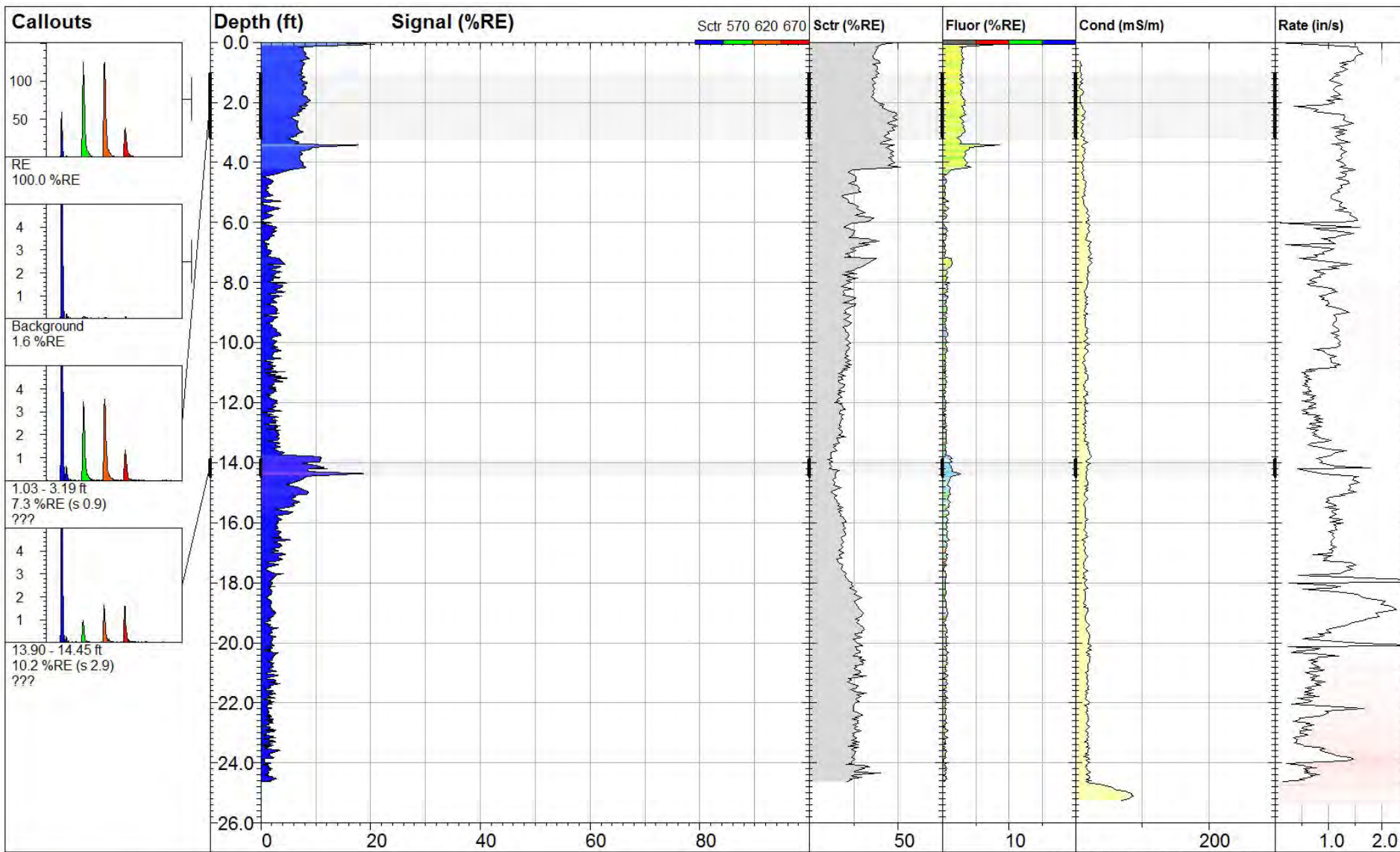



 DAKOTA TECHNOLOGIES <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-04</b>		<b>TARGOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>	
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord. (Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>20.11 ft</b>	
	<i>Client / Job:</i> <b>Summit / 255.16</b>	<i>X Coord. (Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>7.4 %RE @ 10.41 ft</b>	
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-28 14:48 CST</b>		



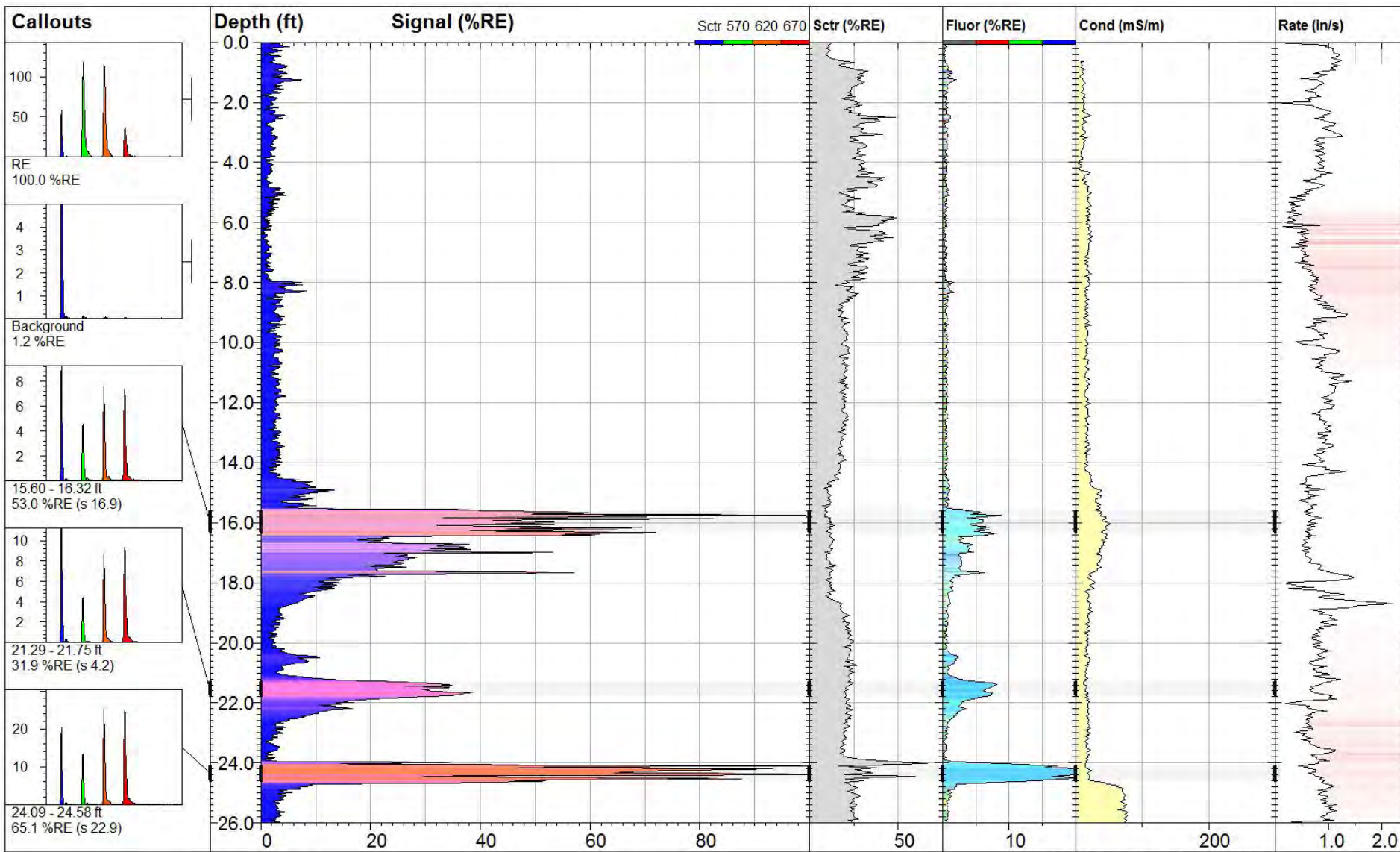



 <p><b>DAKOTA TECHNOLOGIES</b> WWW.DAKOTATECHNOLOGIES.COM</p>	<b>TG-05</b>		<b>TARGOST® By Dakota</b> www.DakotaTechnologies.com
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord.(Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>23.12 ft</b>
	<i>Client / Job:</i> <b>Summit / 255.16</b>	<i>X Coord.(Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>5.1 %RE @ 2.17 ft</b>
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-28 15:17 CST</b>	



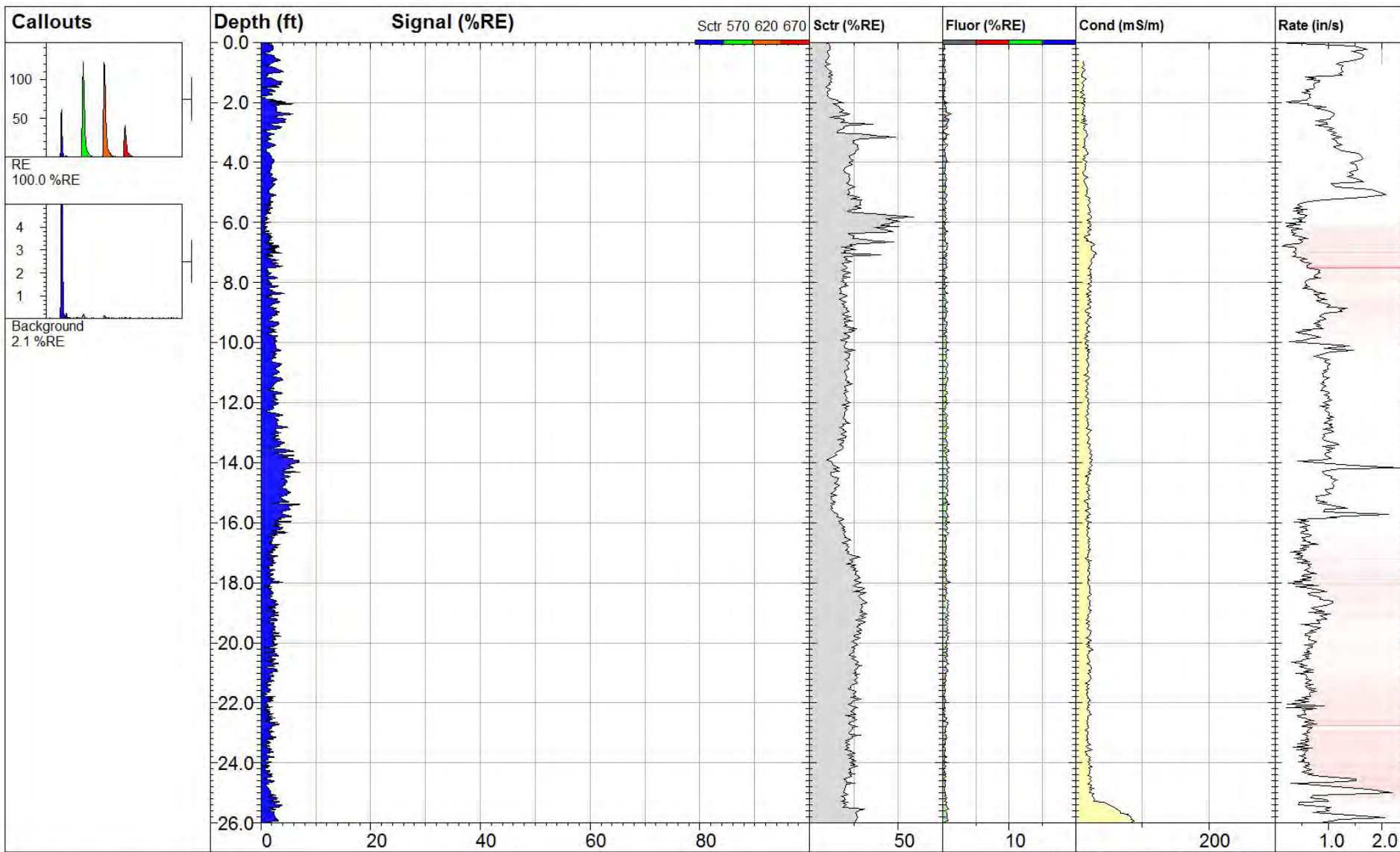
 <b>DAKOTA TECHNOLOGIES</b> <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-06</b>		<b>TARGOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>		
	<i>Site:</i> <b>Superior former MGP</b>		<i>Y Coord. (Lat-N) / System:</i> <b>Unavailable / NA</b>		<i>Final depth:</i> <b>24.62 ft</b>
	<i>Client / Job:</i> <b>Summit / 255.16</b>		<i>X Coord. (Lng-E) / Fix:</i> <b>Unavailable / NA</b>		<i>Max signal:</i> <b>20.9 %RE @ 0.06 ft</b>
	<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>		<i>Elevation:</i> <b>Unavailable</b>		<i>Date &amp; Time:</i> <b>2016-11-28 15:46 CST</b>




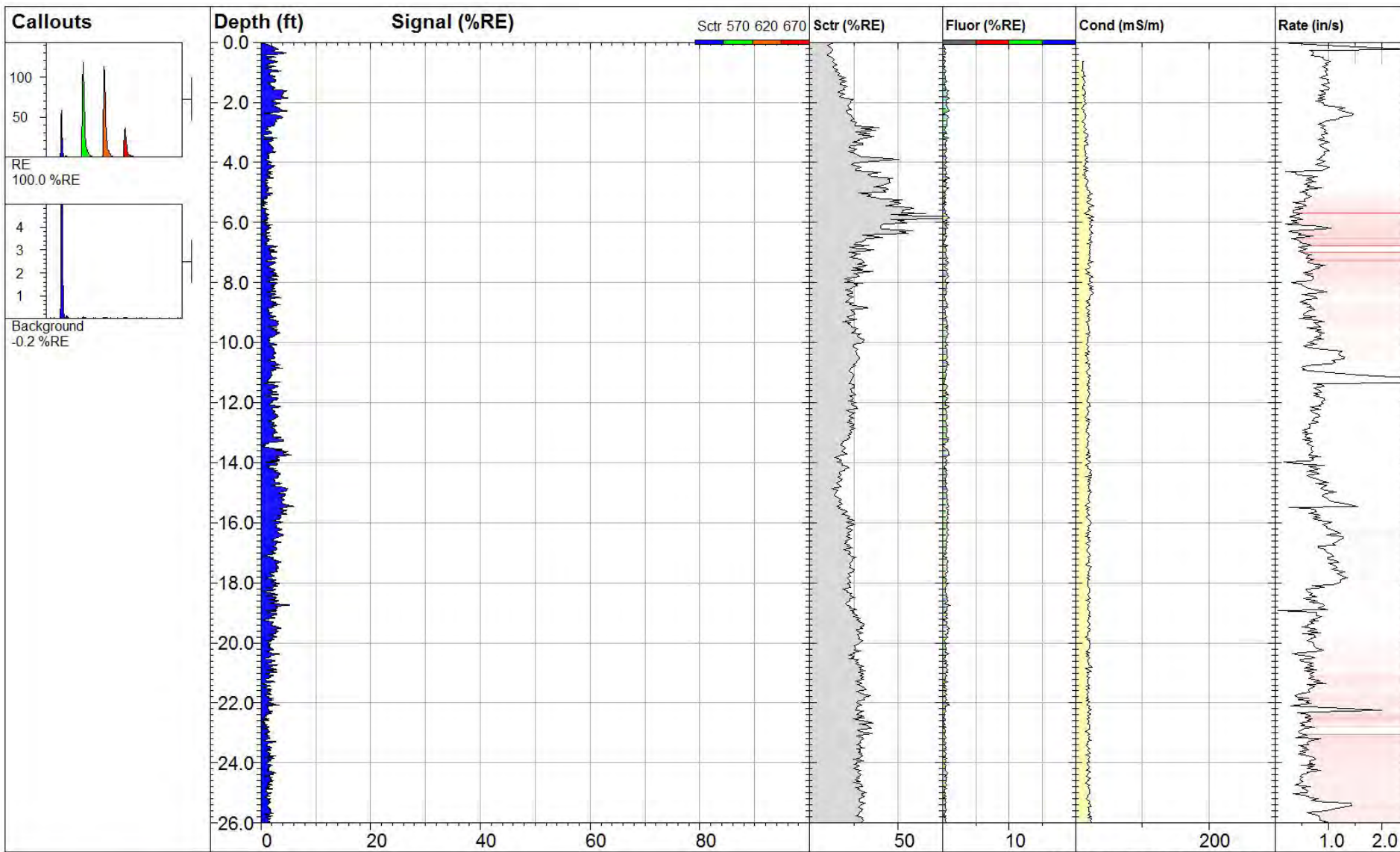



 DAKOTA TECHNOLOGIES <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-07</b>		<b>TARGOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>		
	<i>Site:</i> <b>Superior former MGP</b>		<i>Y Coord. (Lat-N) / System:</i> <b>Unavailable / NA</b>		<i>Final depth:</i> <b>28.09 ft</b>
	<i>Client / Job:</i> <b>Summit / 0255.16</b>		<i>X Coord. (Lng-E) / Fix:</i> <b>Unavailable / NA</b>		<i>Max signal:</i> <b>103.4 %RE @ 24.09 ft</b>
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>		<i>Elevation:</i> <b>Unavailable</b>		<i>Date &amp; Time:</i> <b>2016-11-29 08:00 CST</b>	



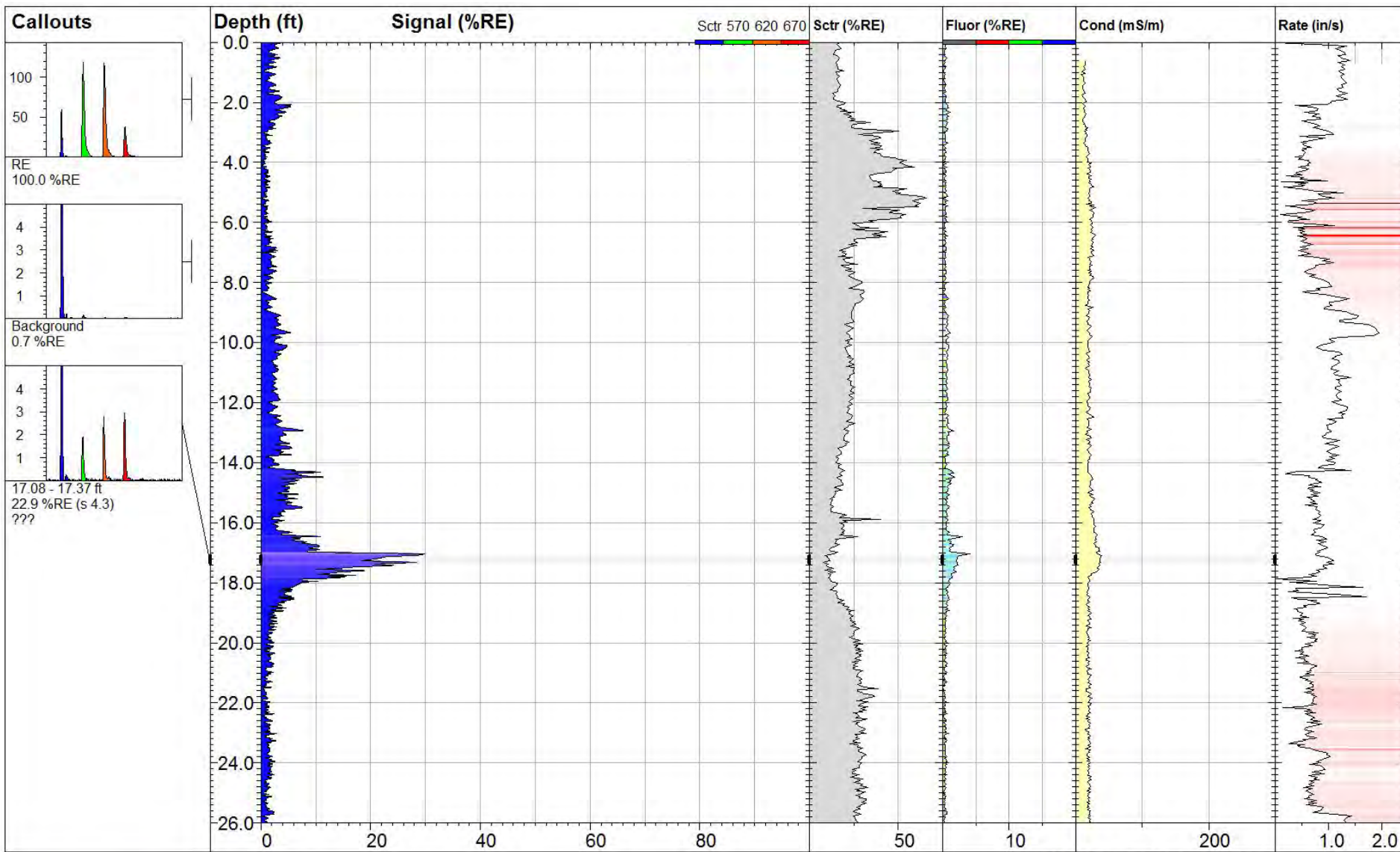



 <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-08</b>		<b>TARGOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord. (Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>28.05 ft</b>
	<i>Client / Job:</i> <b>Summit / 0255.16</b>	<i>X Coord. (Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>7.2 %RE @ 14.32 ft</b>
	<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-29 08:34 CST</b>



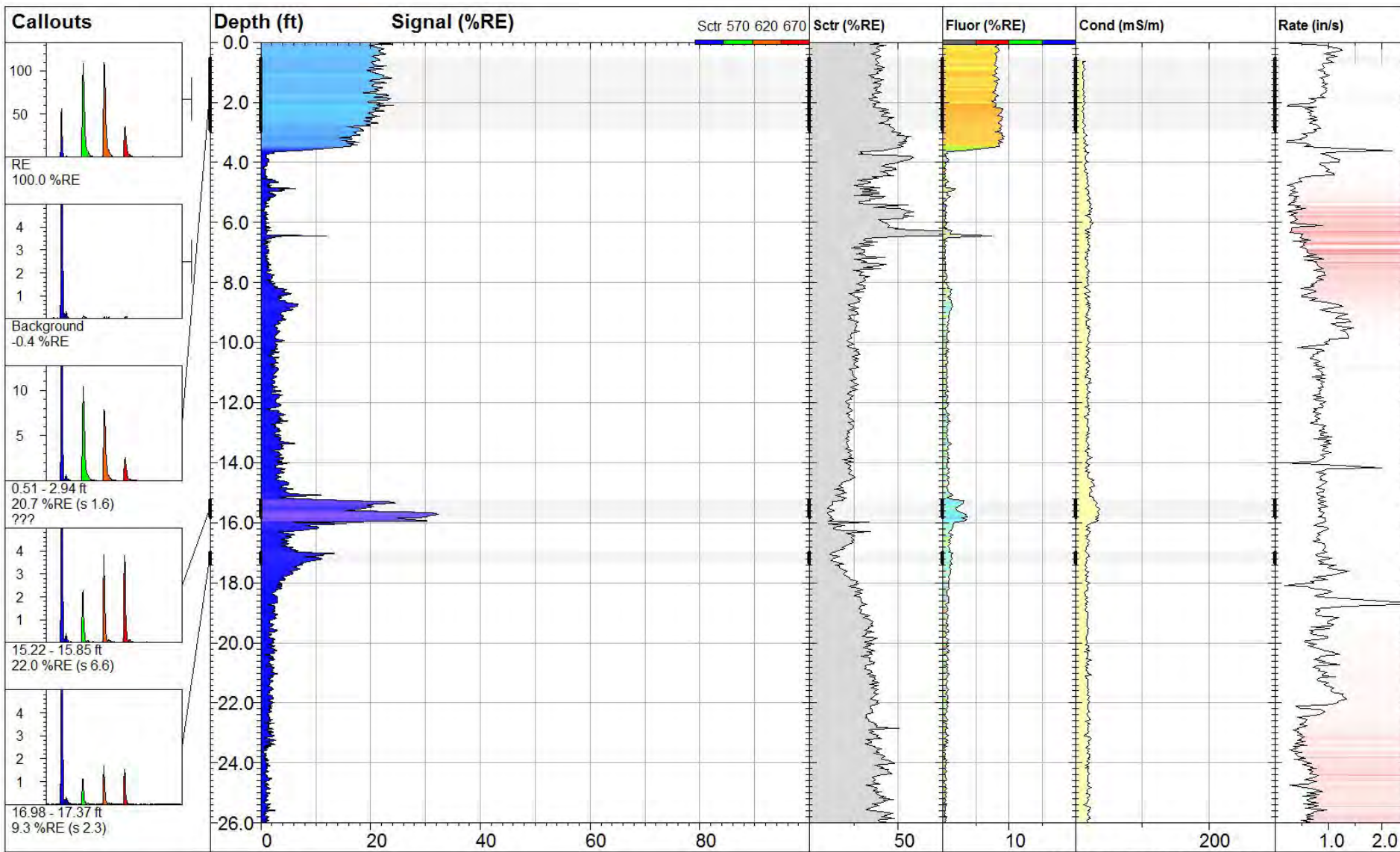
 <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-09</b>		<b>TARGOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord.(Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>28.06 ft</b>
	<i>Client / Job:</i> <b>Summit / 255.16</b>	<i>X Coord.(Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>6.0 %RE @ 15.46 ft</b>
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-29 09:05 CST</b>	



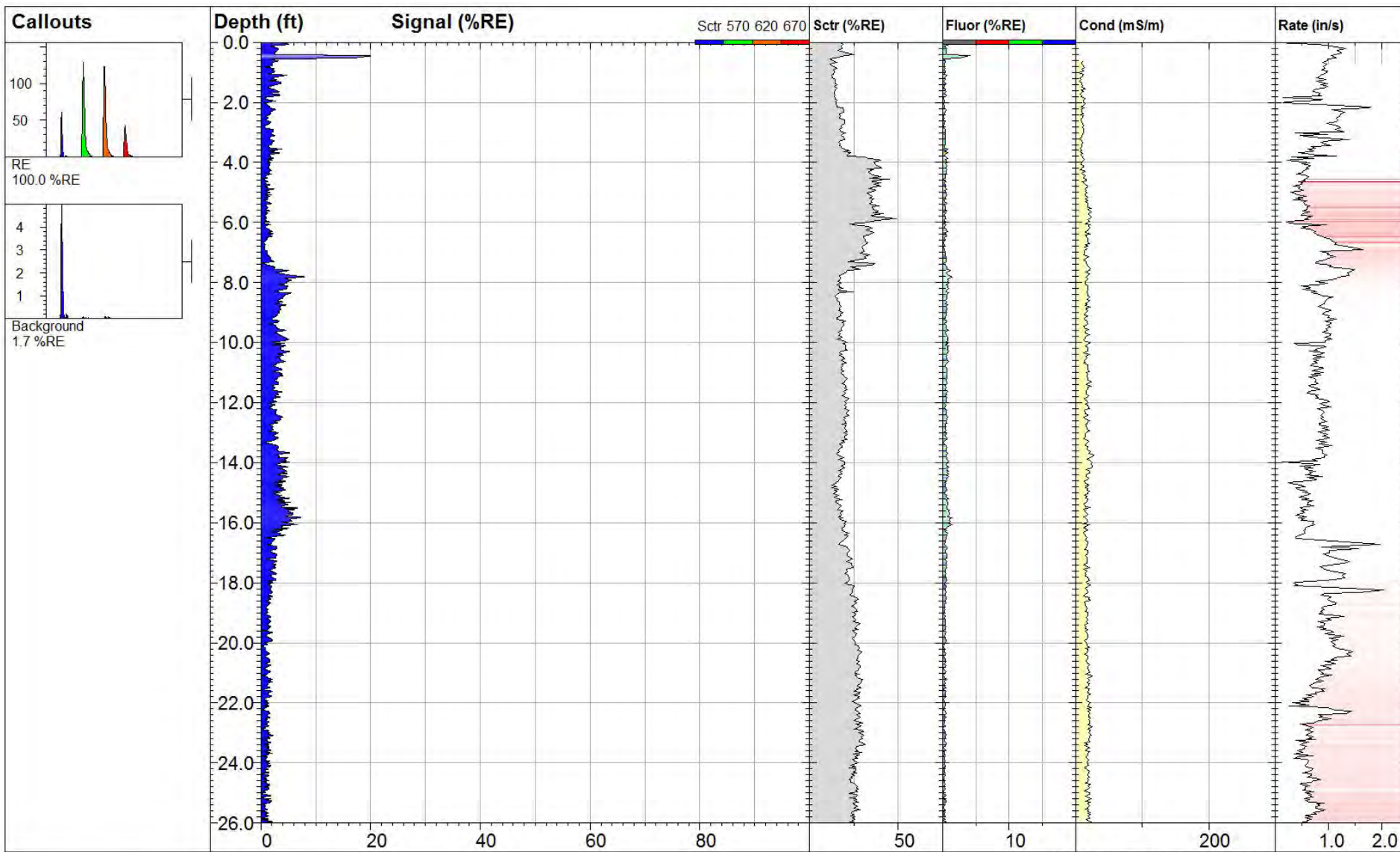



 <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-10</b>		<b>TARGOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord.(Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>28.07 ft</b>
	<i>Client / Job:</i> <b>Summit / 255.16</b>	<i>X Coord.(Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>29.9 %RE @ 17.03 ft</b>
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-29 09:53 CST</b>	



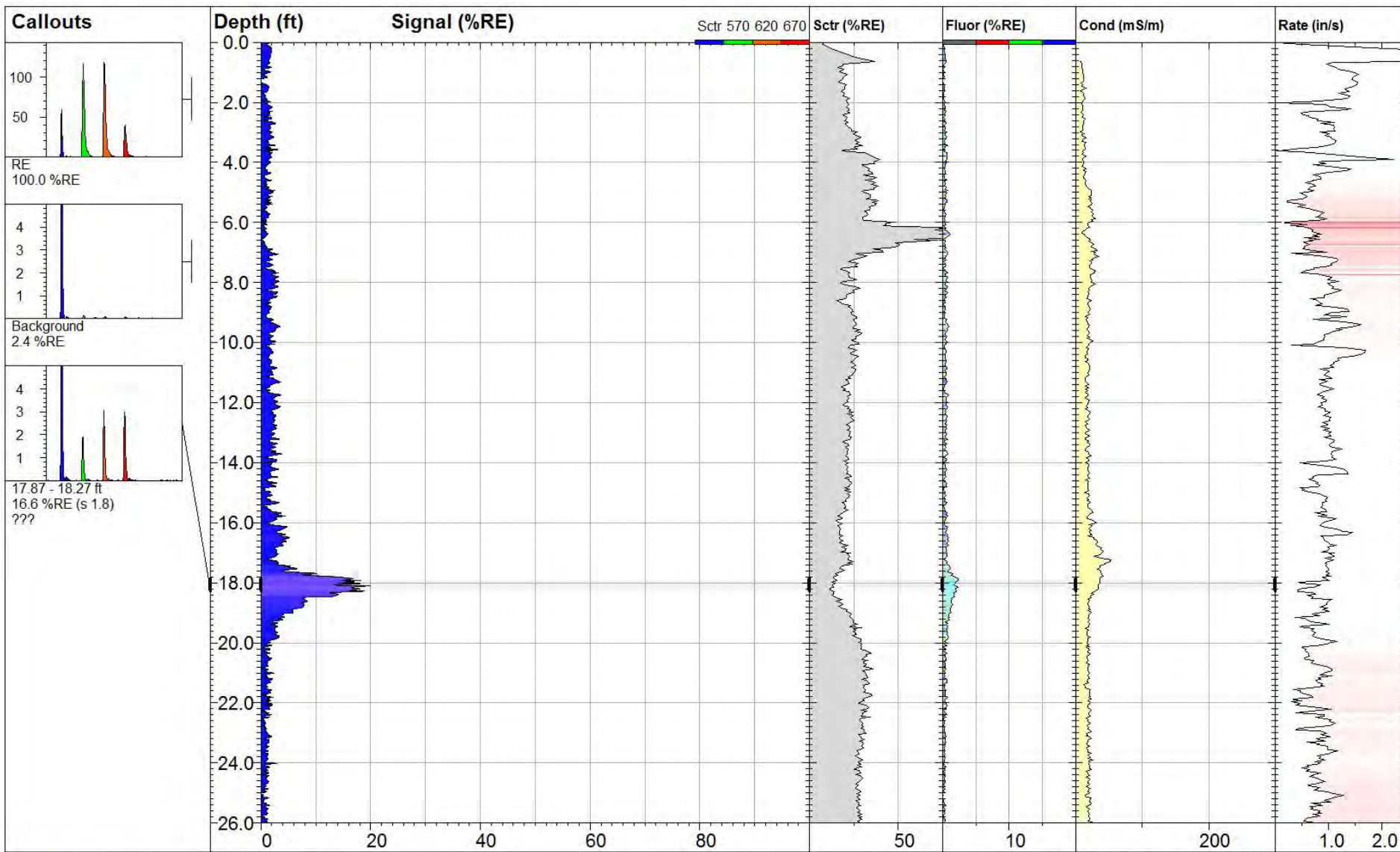



<b>TG-11</b>		<b>TARGOST® By Dakota</b> www.DakotaTechnologies.com	
<i>Site:</i> <b>Superior former MGP</b>		<i>Y Coord. (Lat-N) / System:</i> <b>Unavailable / NA</b>	
<i>Client / Job:</i> <b>Summit / 255.16</b>		<i>X Coord. (Lng-E) / Fix:</i> <b>Unavailable / NA</b>	
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>		<i>Elevation:</i> <b>Unavailable</b>	
		<i>Final depth:</i> <b>29.00 ft</b>	
		<i>Max signal:</i> <b>32.3 %RE @ 15.73 ft</b>	
		<i>Date &amp; Time:</i> <b>2016-11-29 10:25 CST</b>	



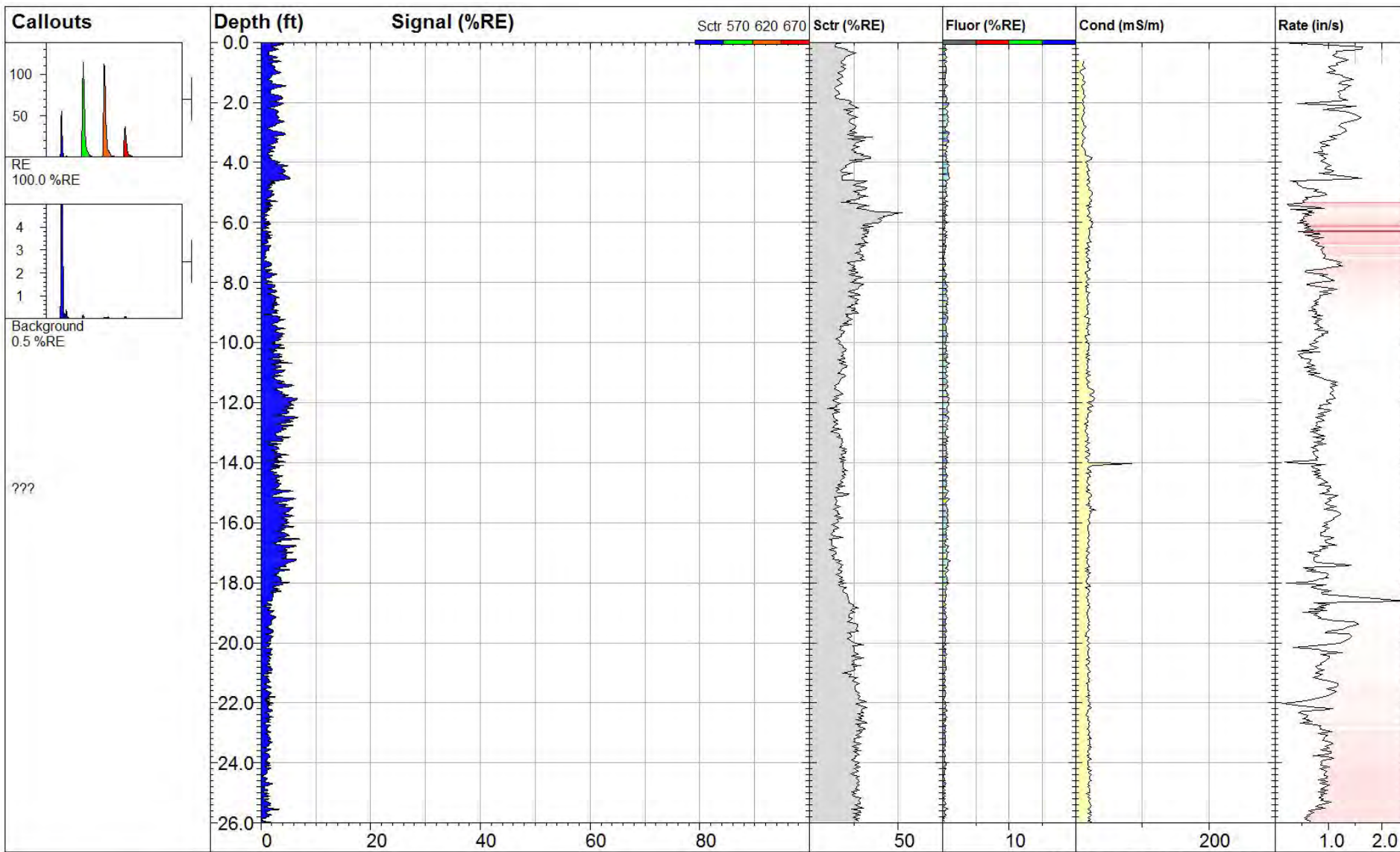
 <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-12</b>		<b>TargOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord. (Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>29.13 ft</b>
	<i>Client / Job:</i> <b>Summit / 255.16</b>	<i>X Coord. (Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>20.1 %RE @ 0.45 ft</b>
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-29 11:59 CST</b>	




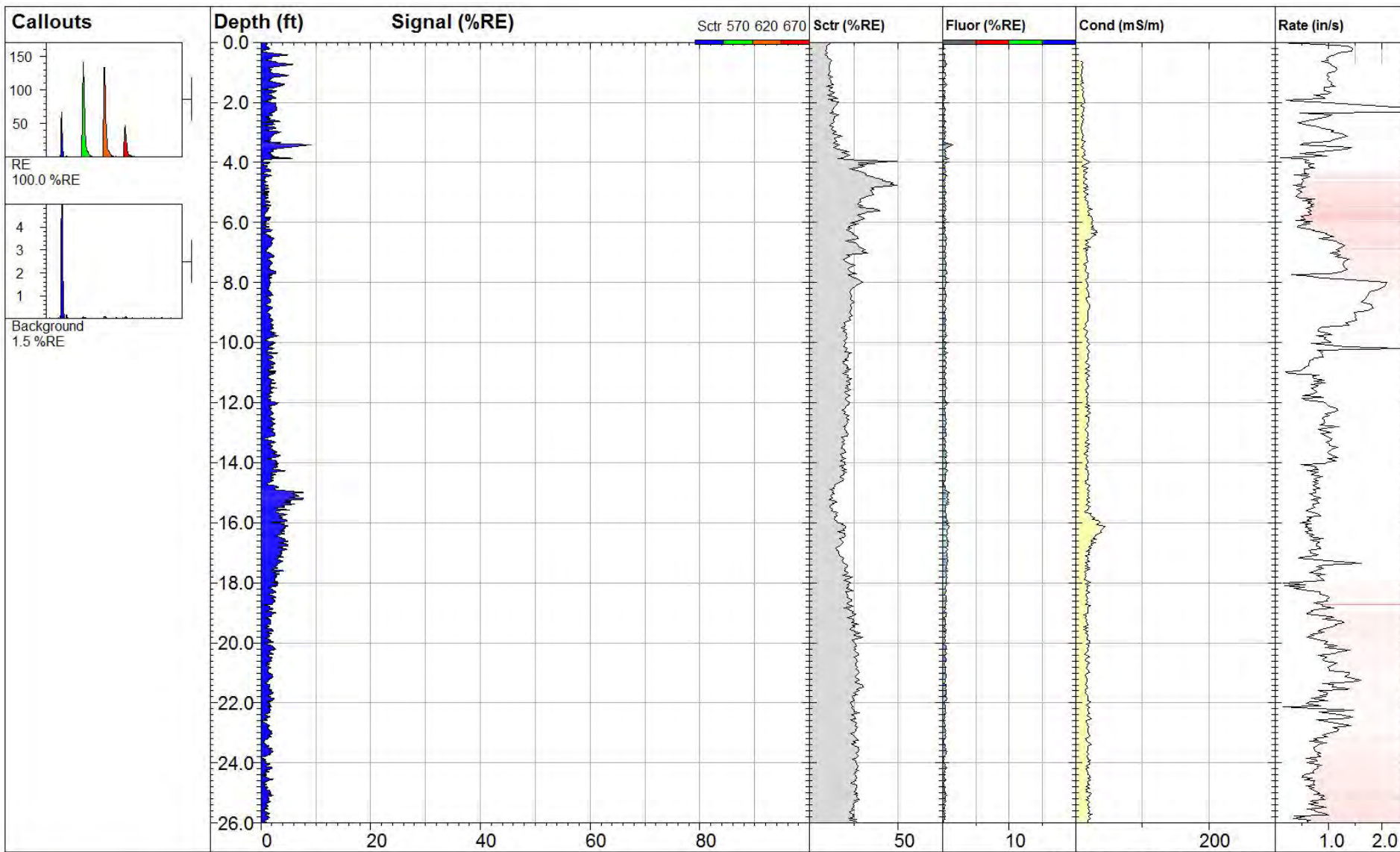



 DAKOTA TECHNOLOGIES <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-13</b>		<b>TARGOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord. (Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>29.09 ft</b>
	<i>Client / Job:</i> <b>Summit / 255.16</b>	<i>X Coord. (Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>20.1 %RE @ 18.09 ft</b>
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-29 12:36 CST</b>	



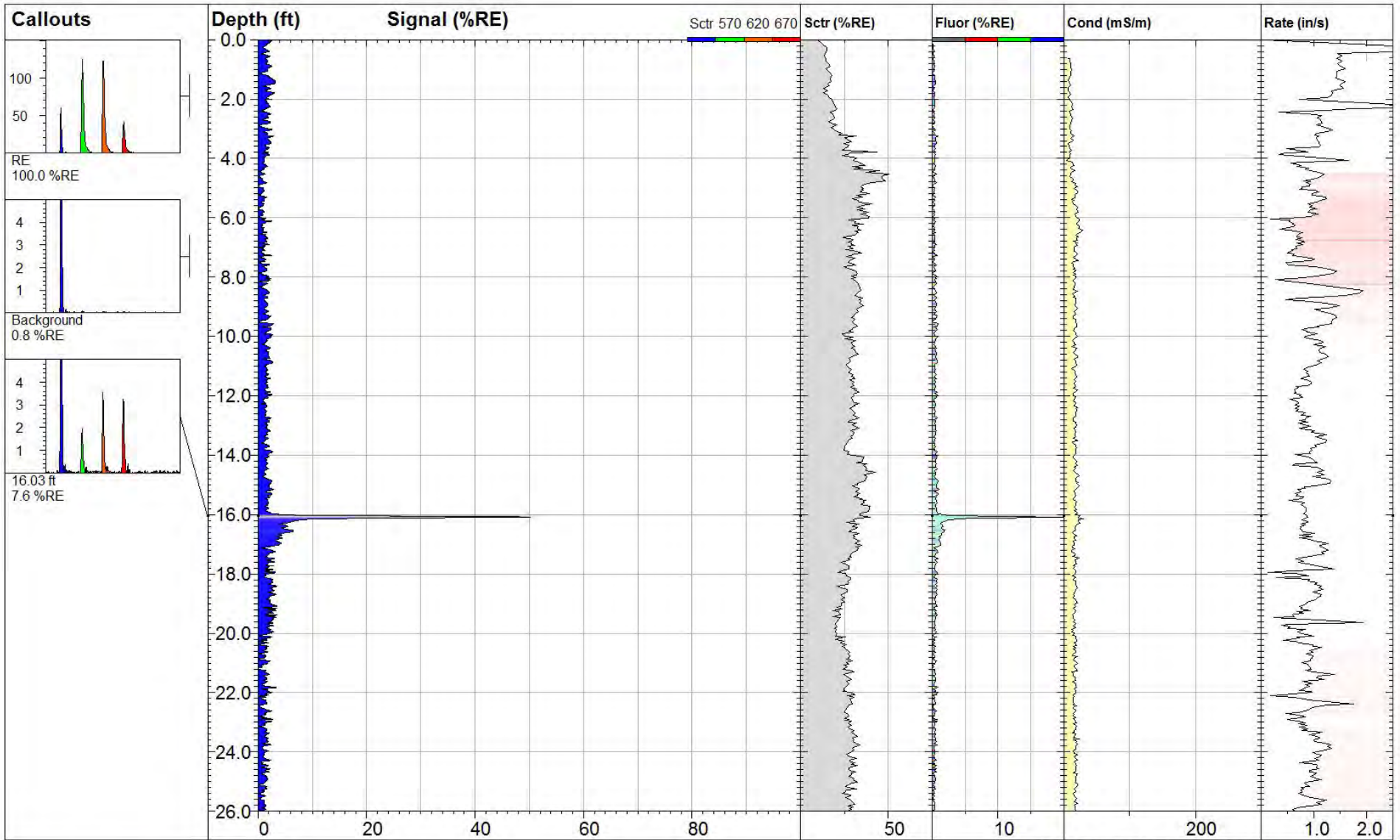



 <p><b>DAKOTA TECHNOLOGIES</b> WWW.DAKOTATECHNOLOGIES.COM</p>	<b>TG-14</b>		<b>TARGOST® By Dakota</b> www.DakotaTechnologies.com
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord. (Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>29.90 ft</b>
	<i>Client / Job:</i> <b>Summit / 255.16</b>	<i>X Coord. (Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>7.2 %RE @ 16.54 ft</b>
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-29 13:04 CST</b>	



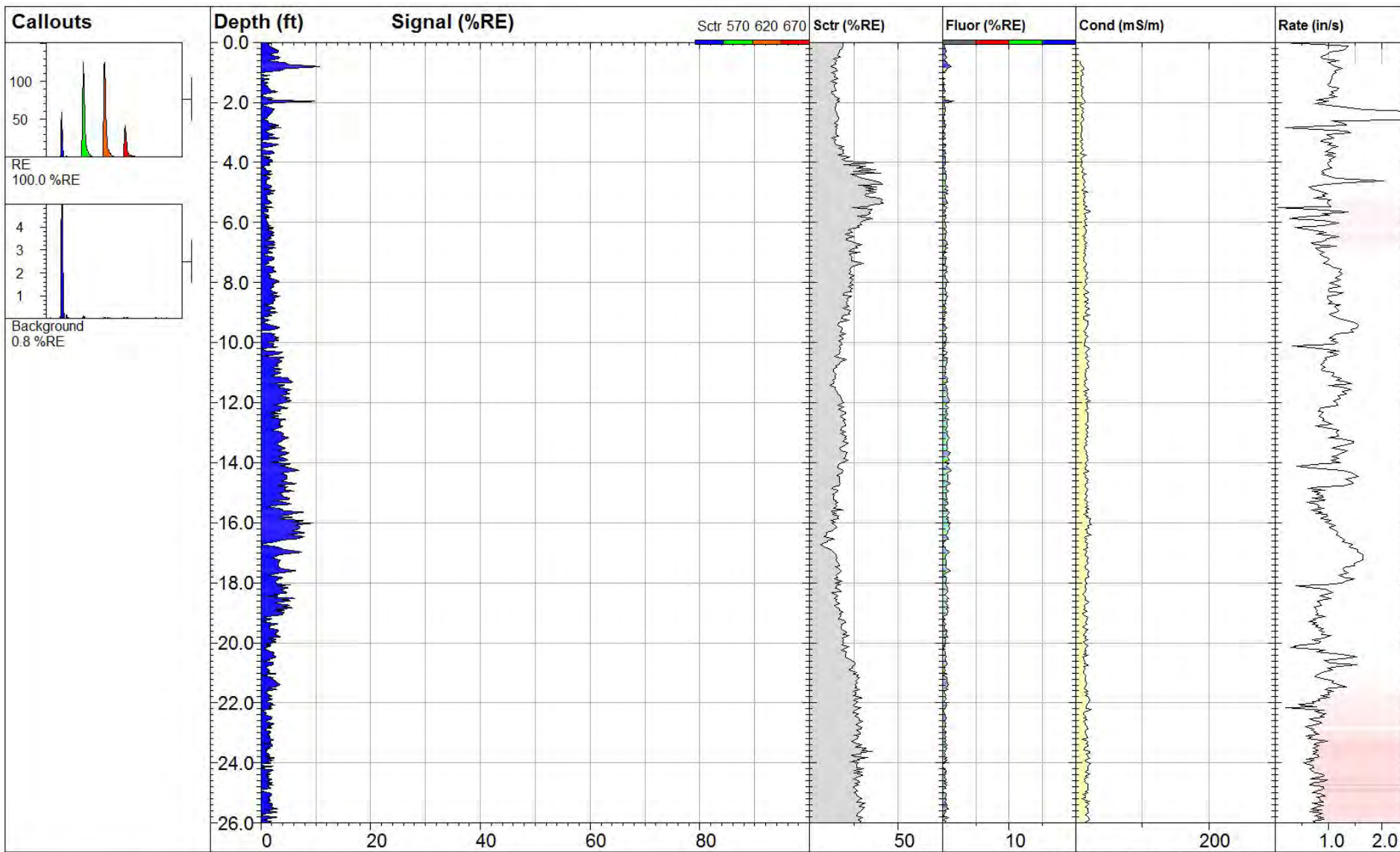
 <b>DAKOTA TECHNOLOGIES</b> <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-15</b>		<b>TARGOST® By Dakota</b> www.DakotaTechnologies.com
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord.(Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>32.05 ft</b>
	<i>Client / Job:</i> <b>Summit / 255.16</b>	<i>X Coord.(Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>9.2 %RE @ 3.41 ft</b>
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-29 13:47 CST</b>	




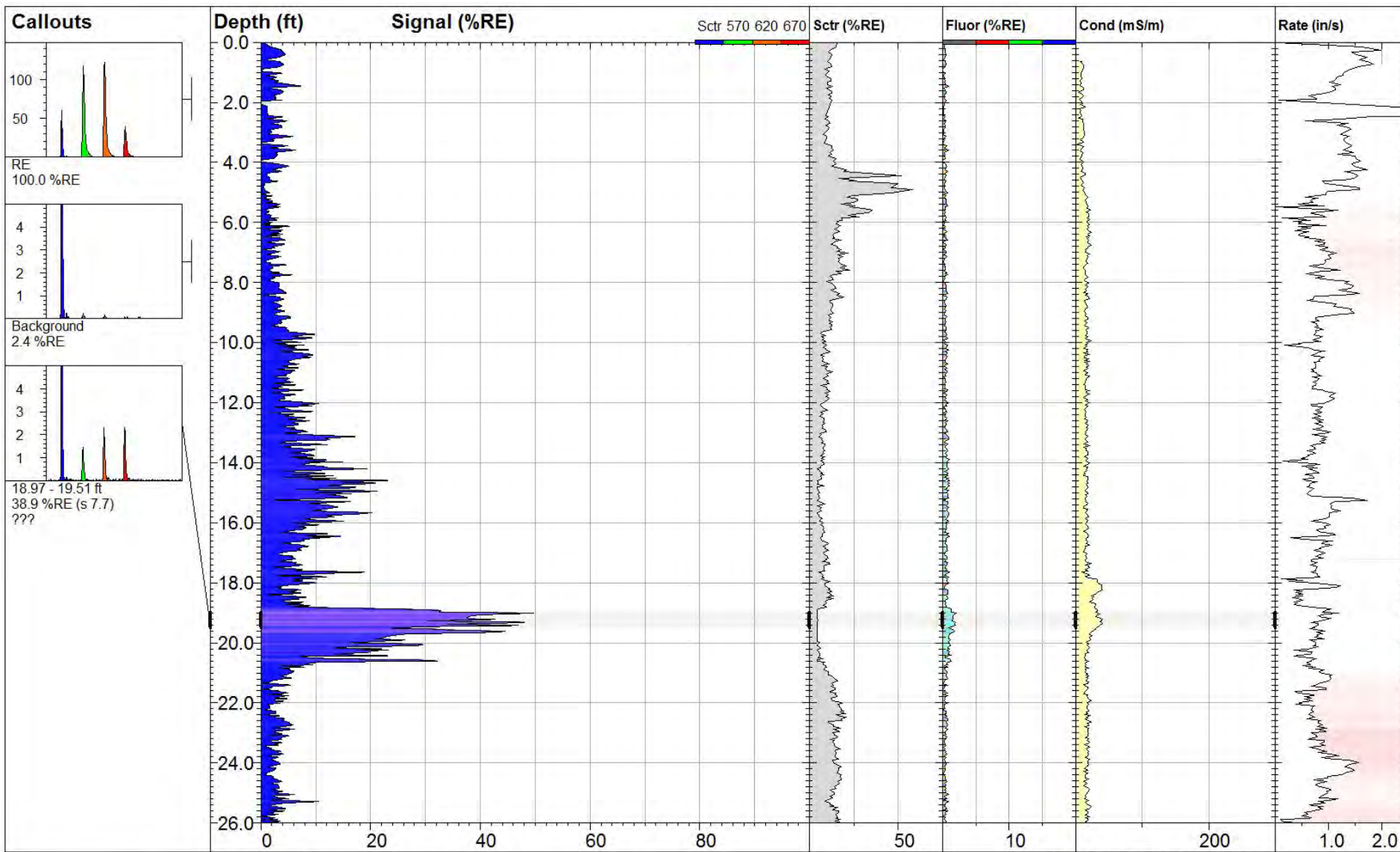



 <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-16</b>		<b>TARGOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord.(Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>32.06 ft</b>
	<i>Client / Job:</i> <b>Summit / 255.16</b>	<i>X Coord.(Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>51.9 %RE @ 16.08 ft</b>
	<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-29 14:29 CST</b>



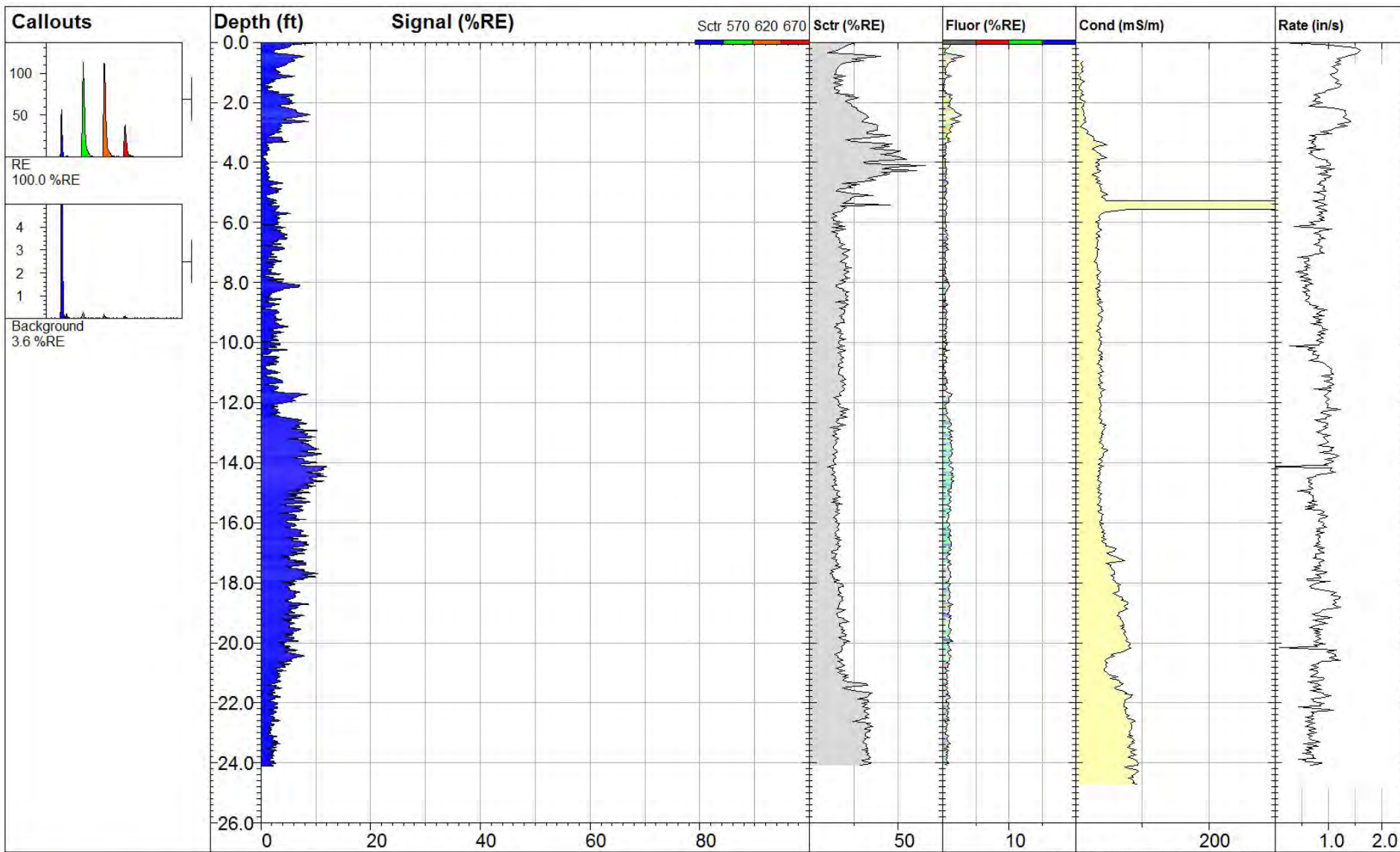



 <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-17</b>		<b>TARGOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord.(Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>32.07 ft</b>
	<i>Client / Job:</i> <b>Summit / 255.16</b>	<i>X Coord.(Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>10.9 %RE @ 0.81 ft</b>
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-29 15:12 CST</b>	



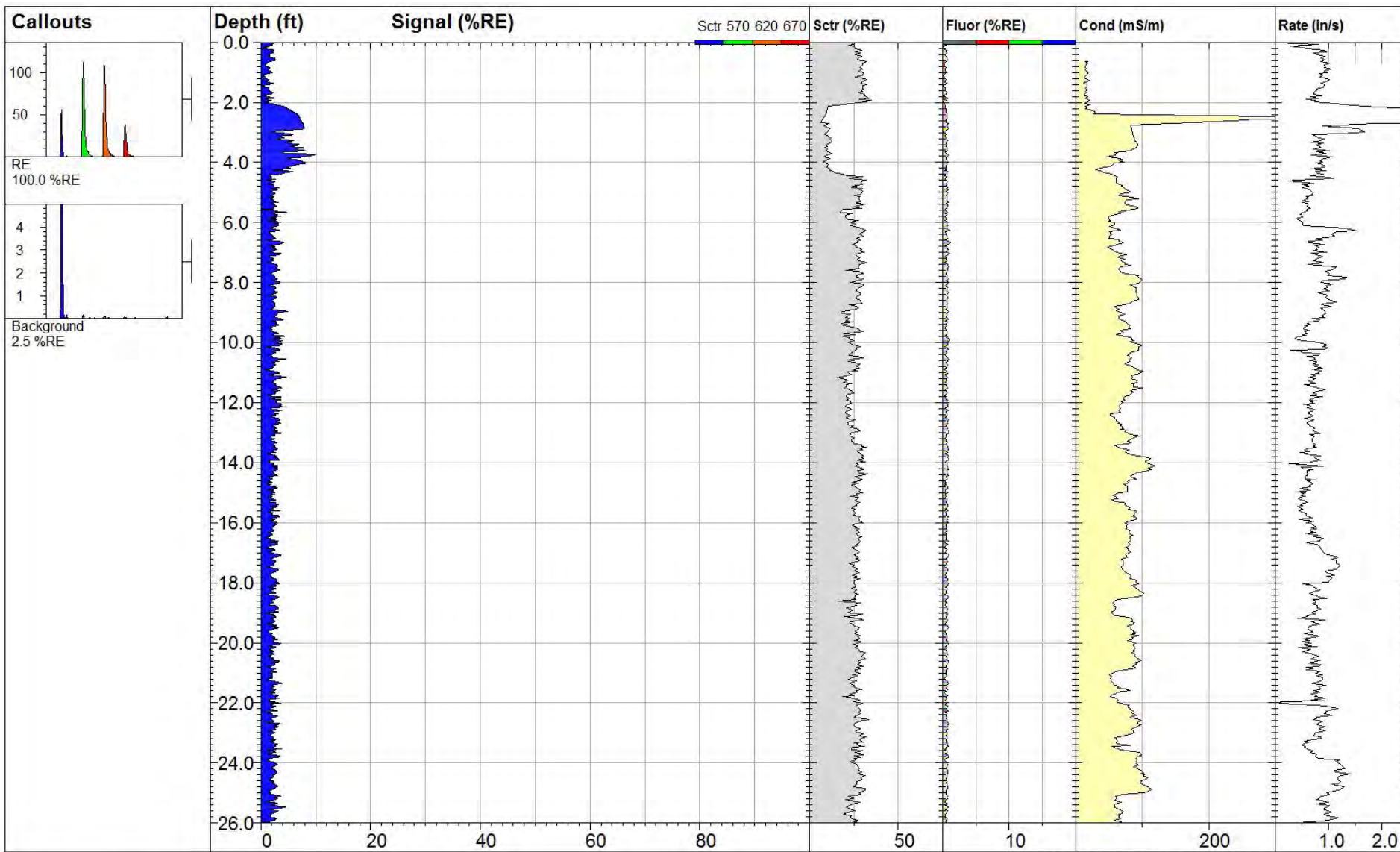
 <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-18</b>		<b>TARGOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord. (Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>34.03 ft</b>
	<i>Client / Job:</i> <b>Summit / 255.16</b>	<i>X Coord. (Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>50.1 %RE @ 19.01 ft</b>
	<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-29 15:44 CST</b>




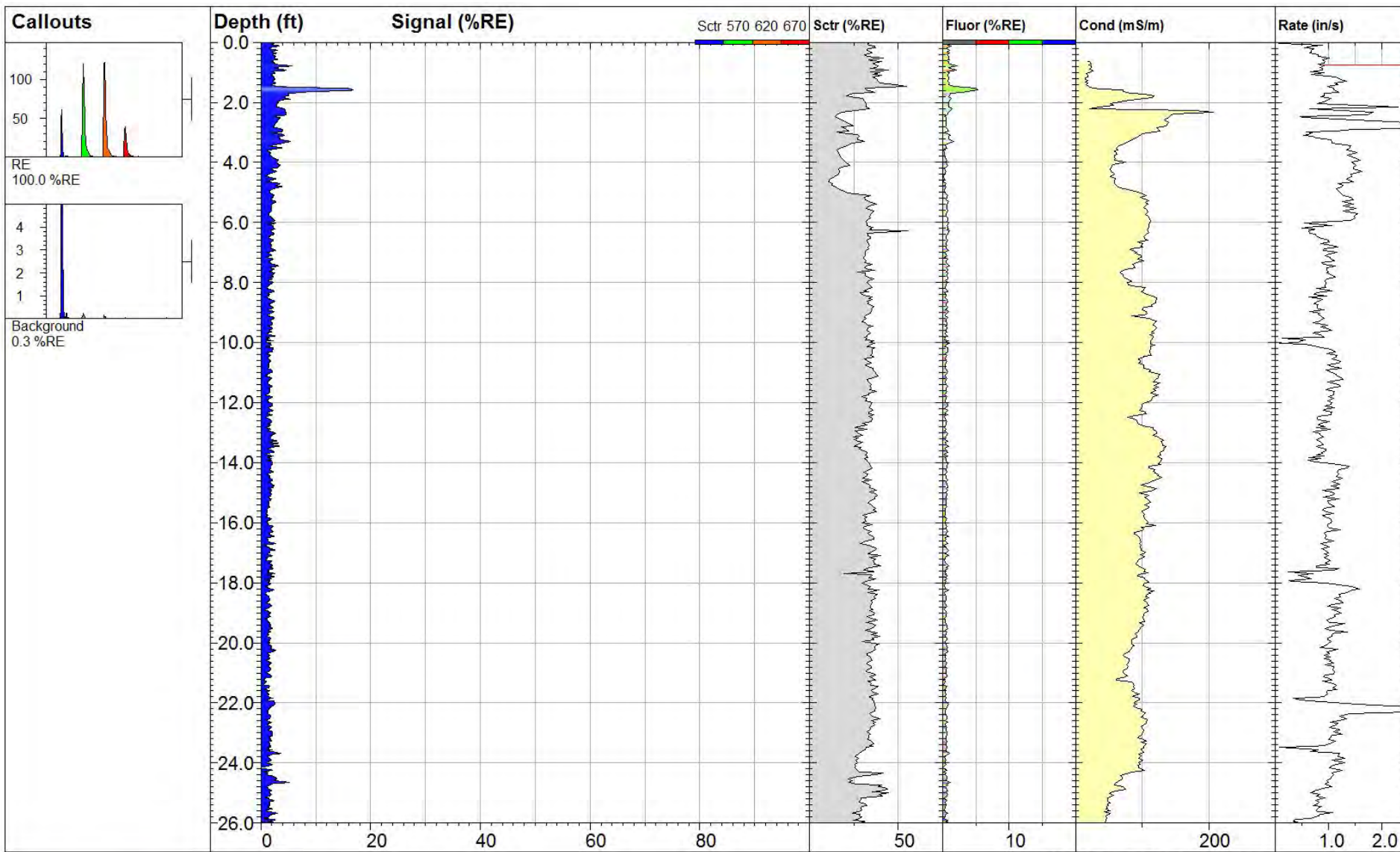



 <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-19</b>		<b>TARGOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord. (Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>24.10 ft</b>
	<i>Client / Job:</i> <b>Summit / 0255.16</b>	<i>X Coord. (Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>12.0 %RE @ 14.13 ft</b>
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-30 08:52 CST</b>	



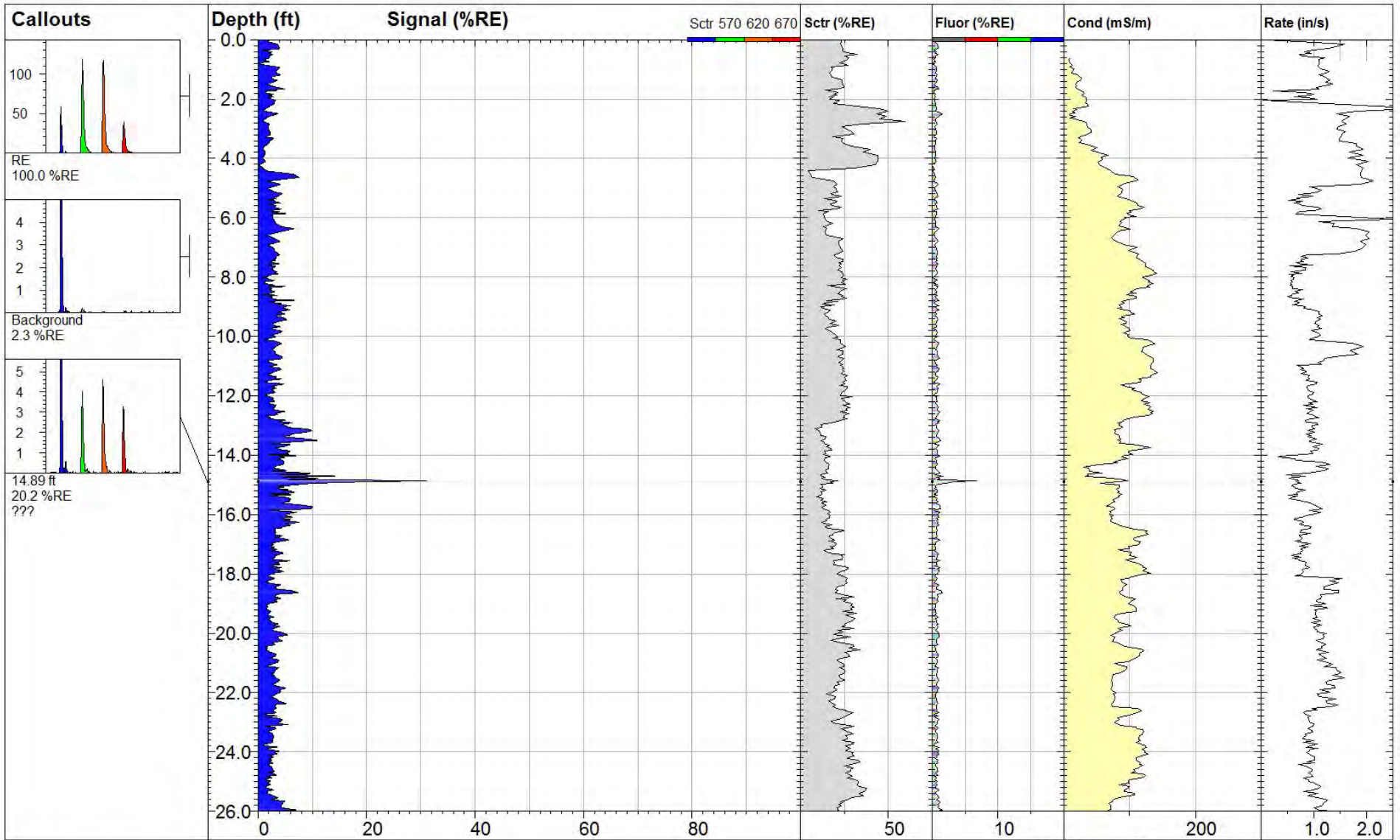



 <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-20</b>		<b>TARGOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord.(Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>32.12 ft</b>
	<i>Client / Job:</i> <b>Summit / 0255.16</b>	<i>X Coord.(Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>10.2 %RE @ 3.72 ft</b>
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-30 09:26 CST</b>	



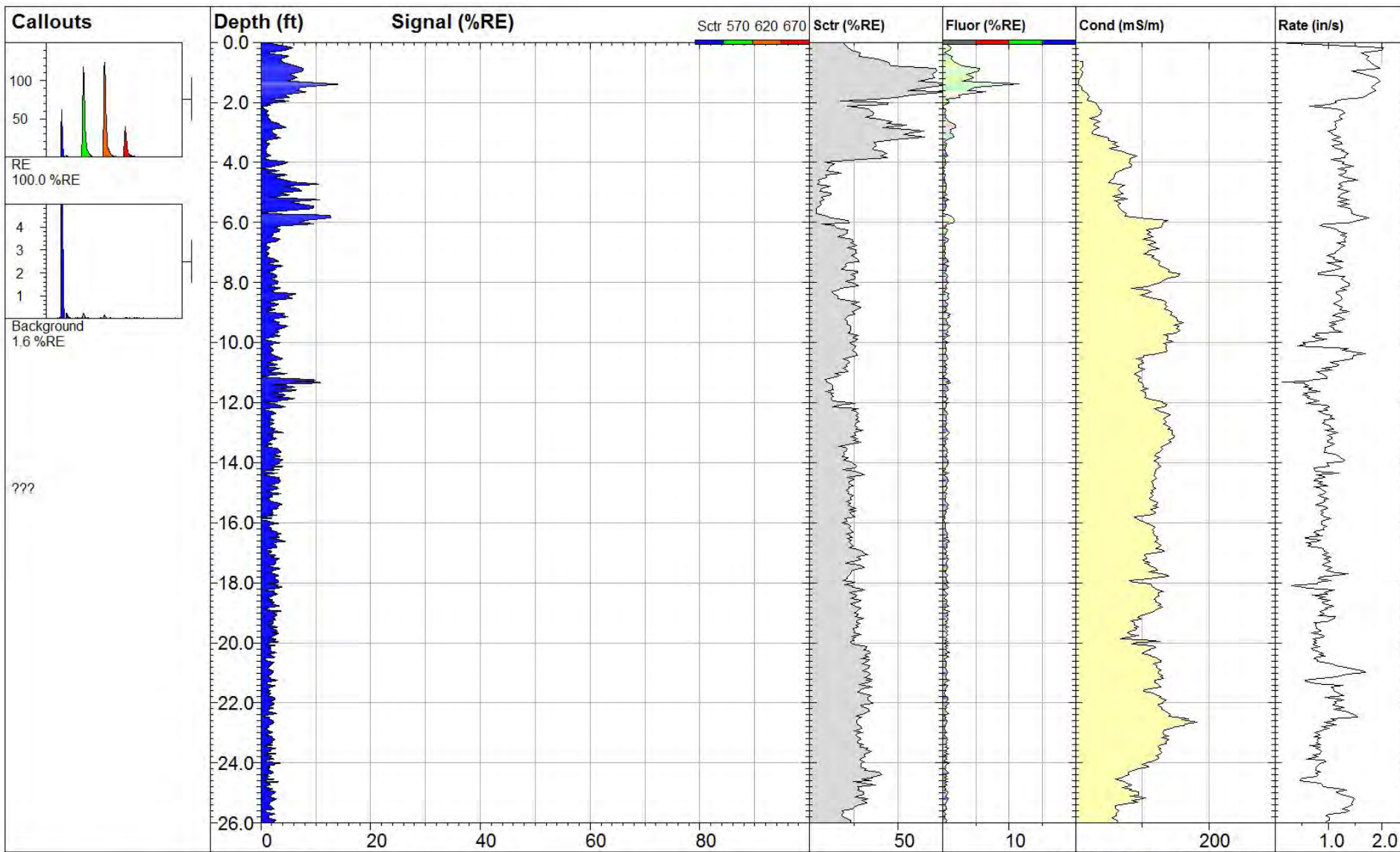
 <p><b>DAKOTA TECHNOLOGIES</b> WWW.DAKOTATECHNOLOGIES.COM</p>	<b>TG-21</b>		<b>TARGOST® By Dakota</b> www.DakotaTechnologies.com
	Site: <b>Superior former MGP</b>	Y Coord.(Lat-N) / System: <b>Unavailable / NA</b>	Final depth: <b>29.86 ft</b>
	Client / Job: <b>Summit / 0255.16</b>	X Coord.(Lng-E) / Fix: <b>Unavailable / NA</b>	Max signal: <b>16.8 %RE @ 1.60 ft</b>
Operator / Unit: <b>MJ/GP / TG1000</b>	Elevation: <b>Unavailable</b>	Date & Time: <b>2016-11-30 10:05 CST</b>	




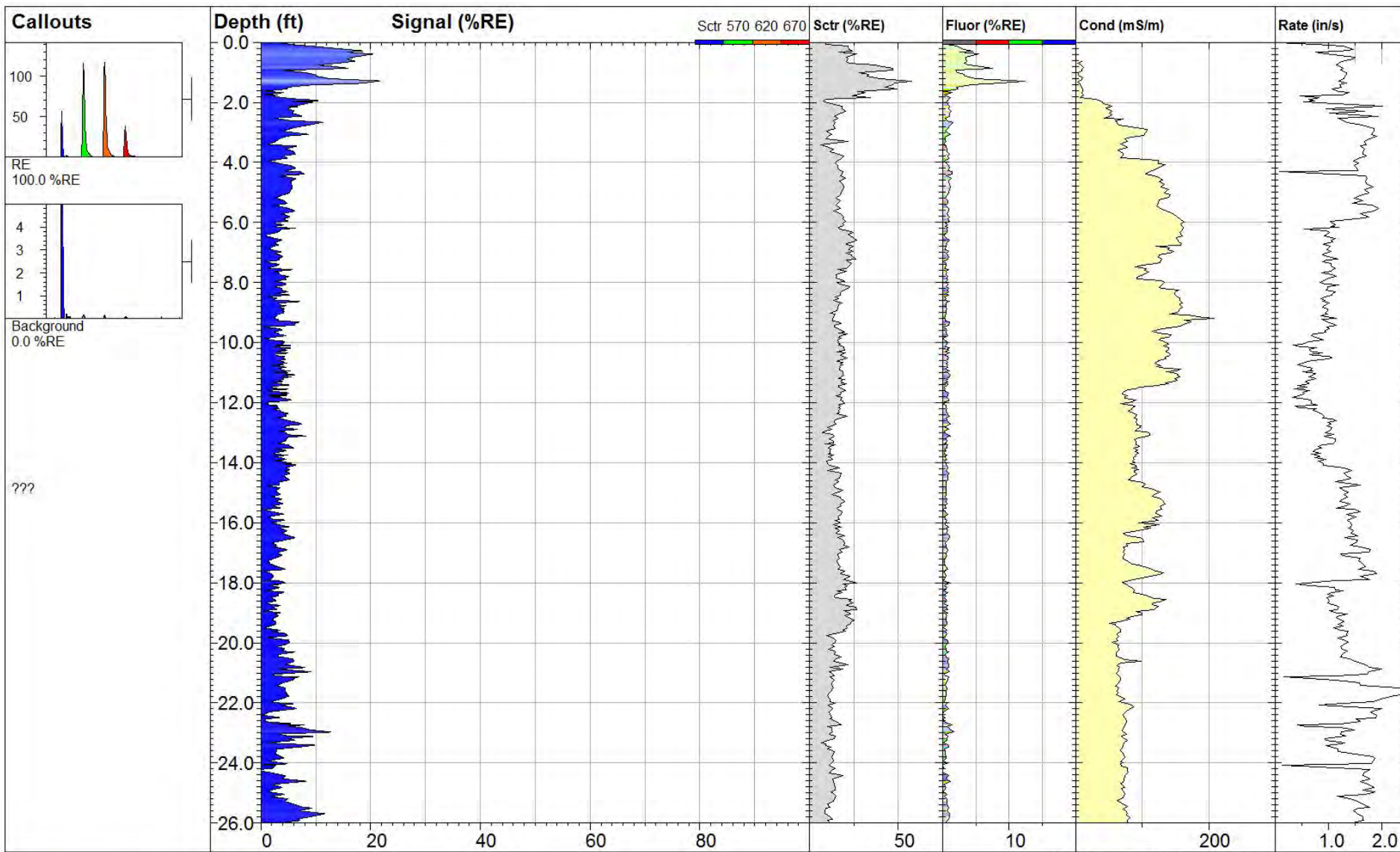



 <p><b>DAKOTA TECHNOLOGIES</b> WWW.DAKOTATECHNOLOGIES.COM</p>	<b>TG-22</b>		<b>TARGOST® By Dakota</b> www.DakotaTechnologies.com
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord.(Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>32.14 ft</b>
	<i>Client / Job:</i> <b>Summit / 0255.16</b>	<i>X Coord.(Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>31.6 %RE @ 14.86 ft</b>
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-30 10:43 CST</b>	



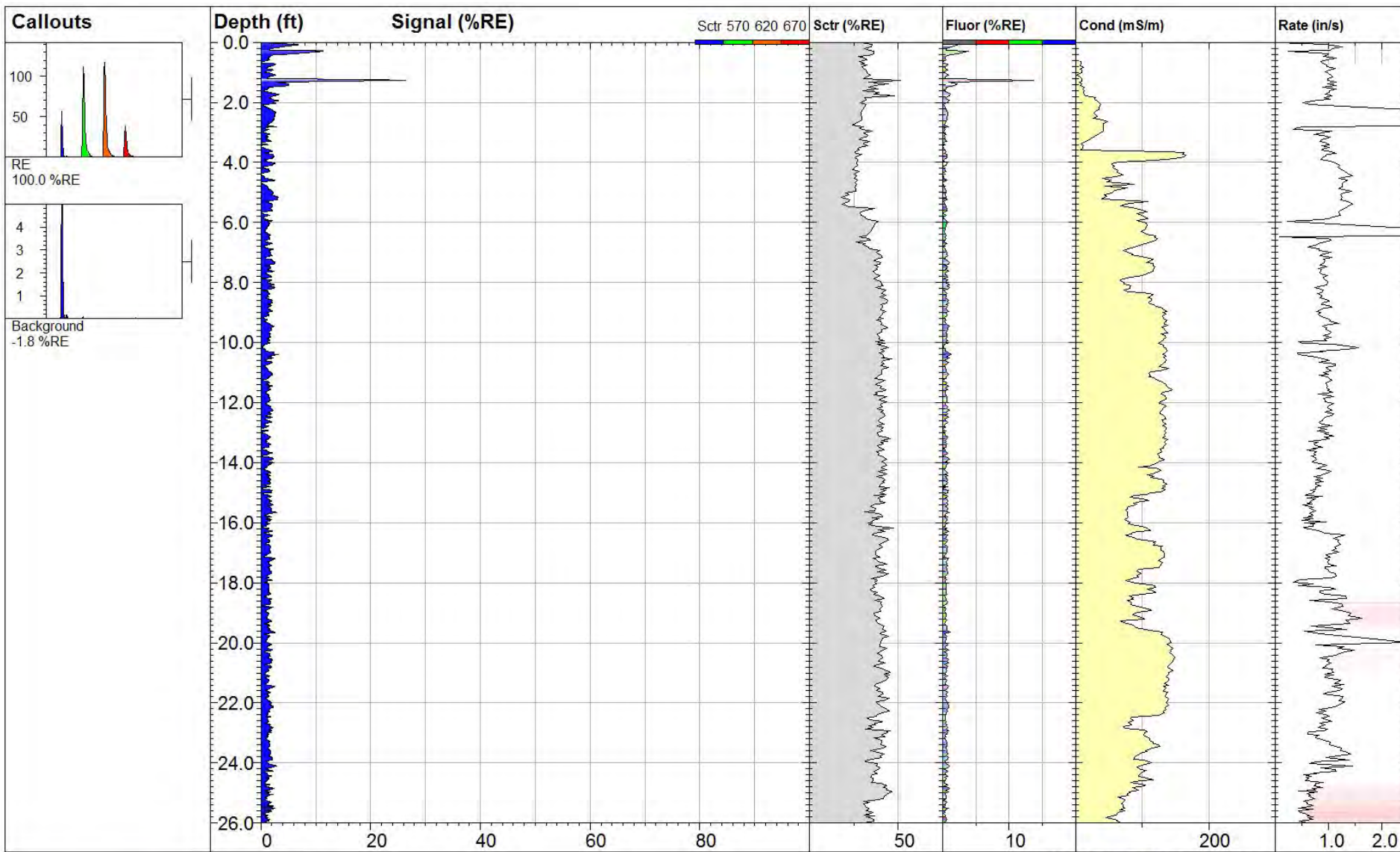



 <p><b>DAKOTA TECHNOLOGIES</b> WWW.DAKOTATECHNOLOGIES.COM</p>	<b>TG-23</b>		<b>TARGOST® By Dakota</b> www.DakotaTechnologies.com
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord. (Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>32.07 ft</b>
	<i>Client / Job:</i> <b>Summit / 0255.16</b>	<i>X Coord. (Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>14.2 %RE @ 1.40 ft</b>
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-30 11:26 CST</b>	



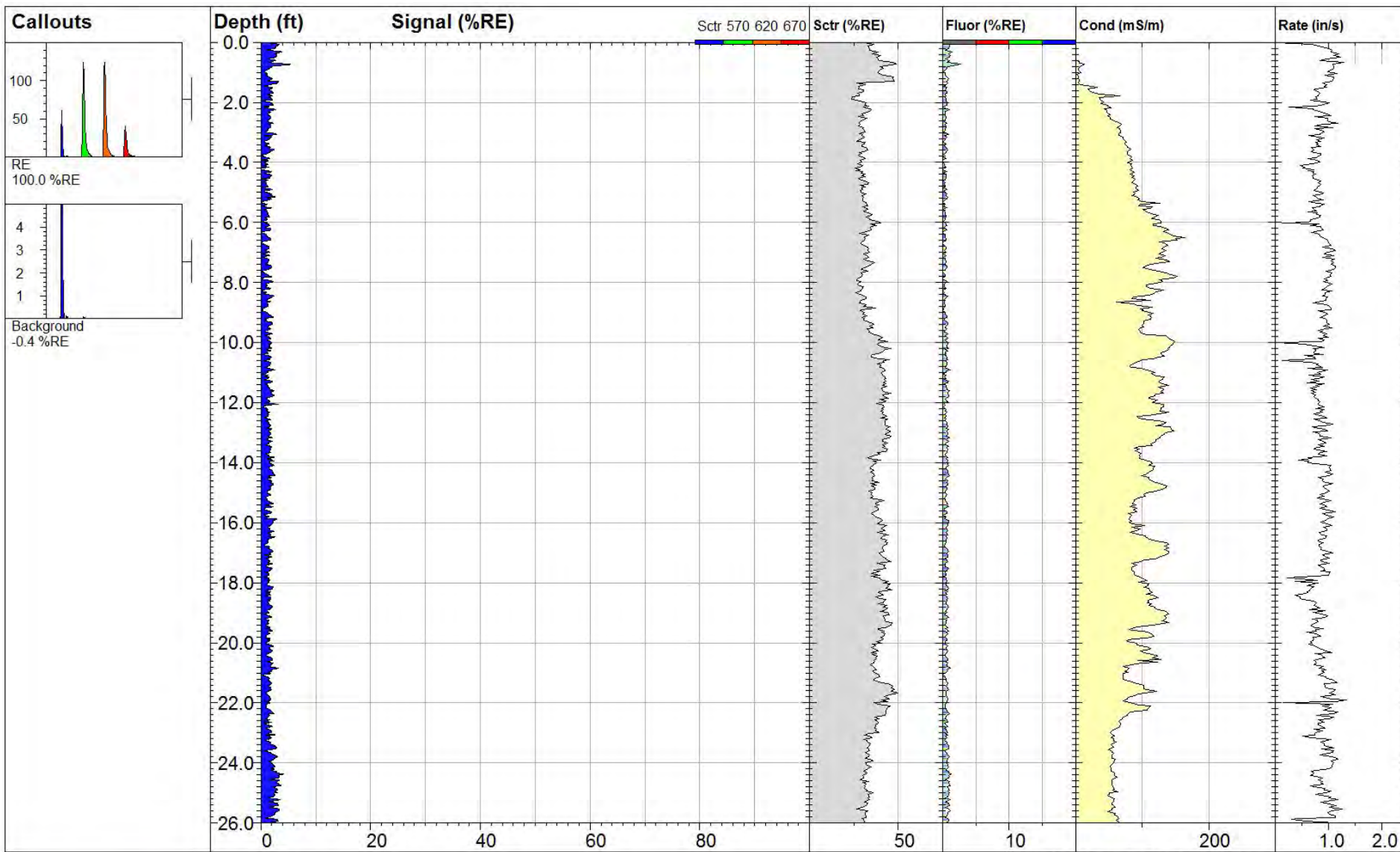
 DAKOTA TECHNOLOGIES <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-24</b>		<b>TARGOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord. (Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>29.16 ft</b>
	<i>Client / Job:</i> <b>Summit / 0255.16</b>	<i>X Coord. (Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>21.7 %RE @ 1.28 ft</b>
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-30 12:14 CST</b>	




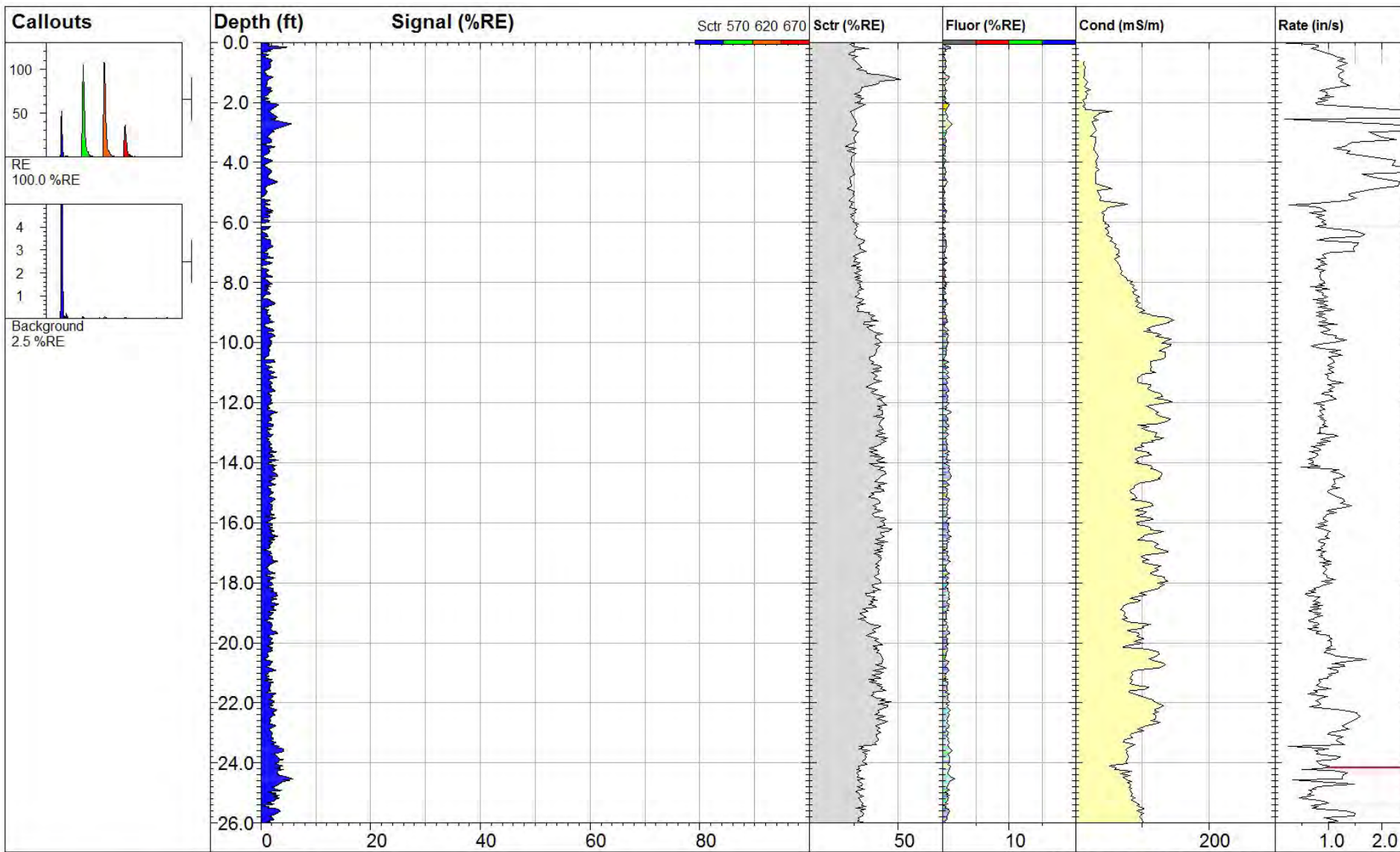



 <b>DAKOTA TECHNOLOGIES</b> <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-25</b>		<b>TARGOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord. (Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>28.04 ft</b>
	<i>Client / Job:</i> <b>Summit / 0255.16</b>	<i>X Coord. (Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>26.6 %RE @ 1.26 ft</b>
	<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-30 15:40 CST</b>



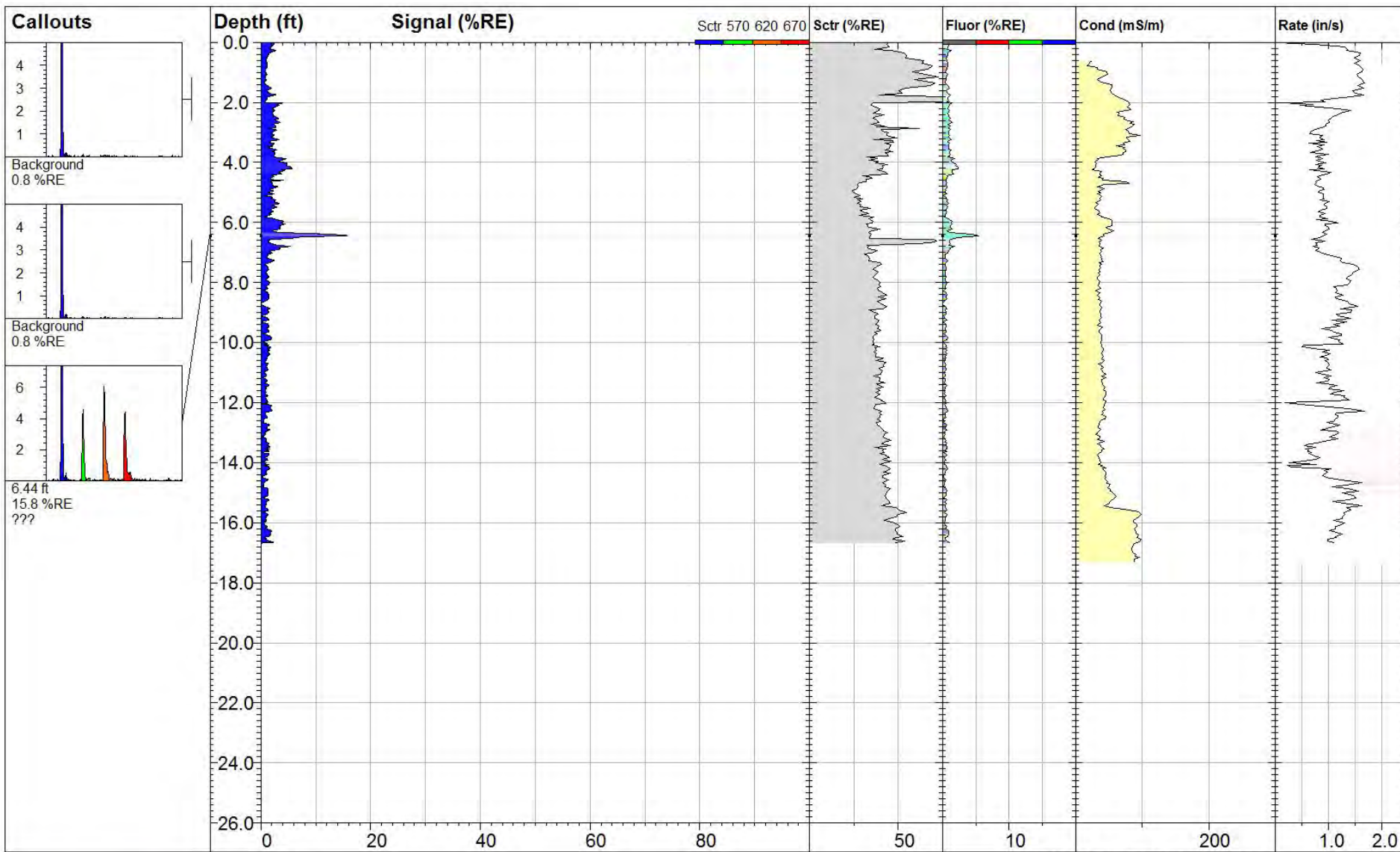



 <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-26</b>		<b>TARGOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord.(Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>29.94 ft</b>
	<i>Client / Job:</i> <b>Summit / 0255.16</b>	<i>X Coord.(Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>5.6 %RE @ 0.73 ft</b>
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-30 15:04 CST</b>	



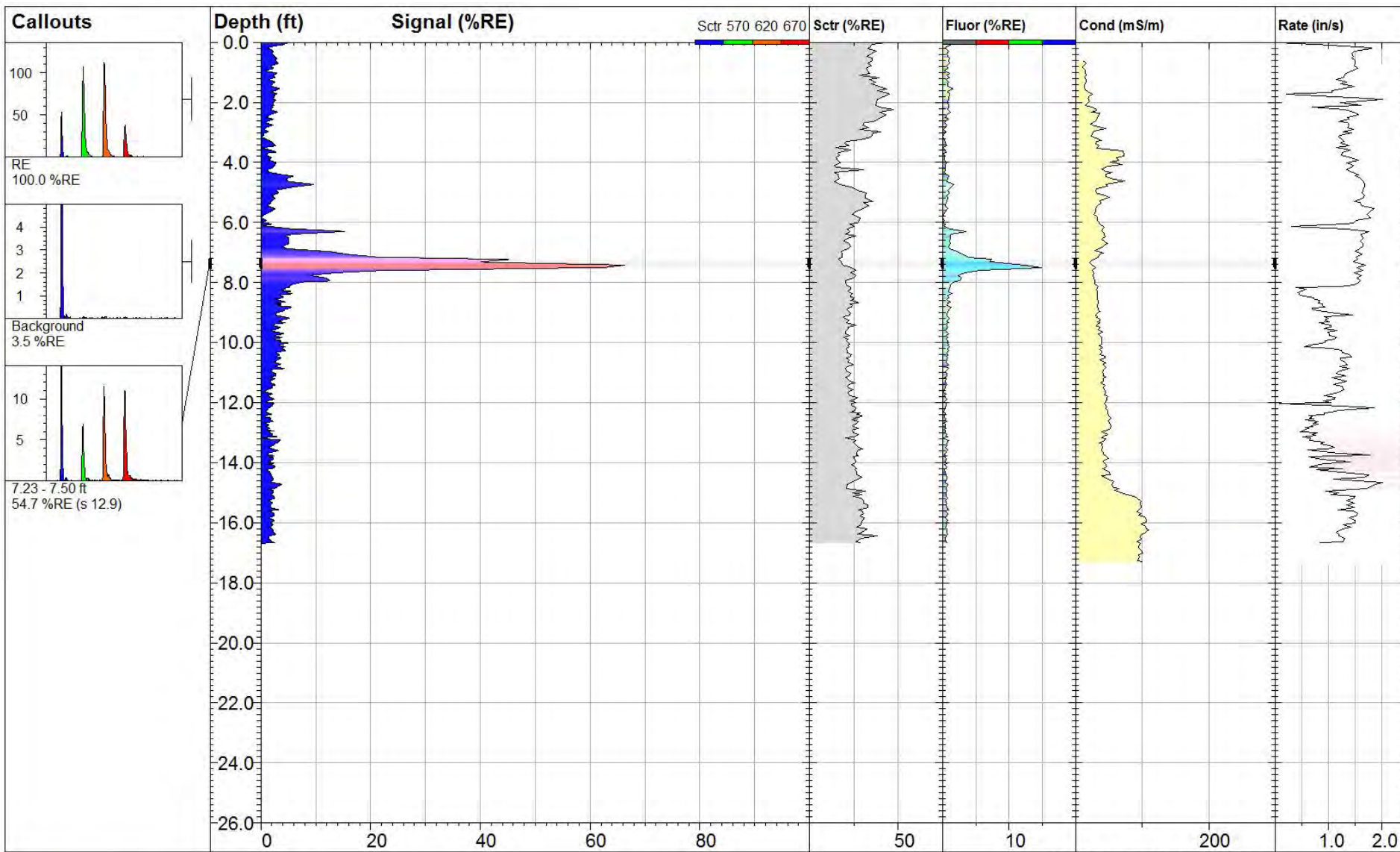
 <b>DAKOTA TECHNOLOGIES</b> <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-27</b>		<b>TargOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord. (Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>28.41 ft</b>
	<i>Client / Job:</i> <b>Summit / 0255.16</b>	<i>X Coord. (Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>5.9 %RE @ 24.54 ft</b>
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-12-01 08:09 CST</b>	




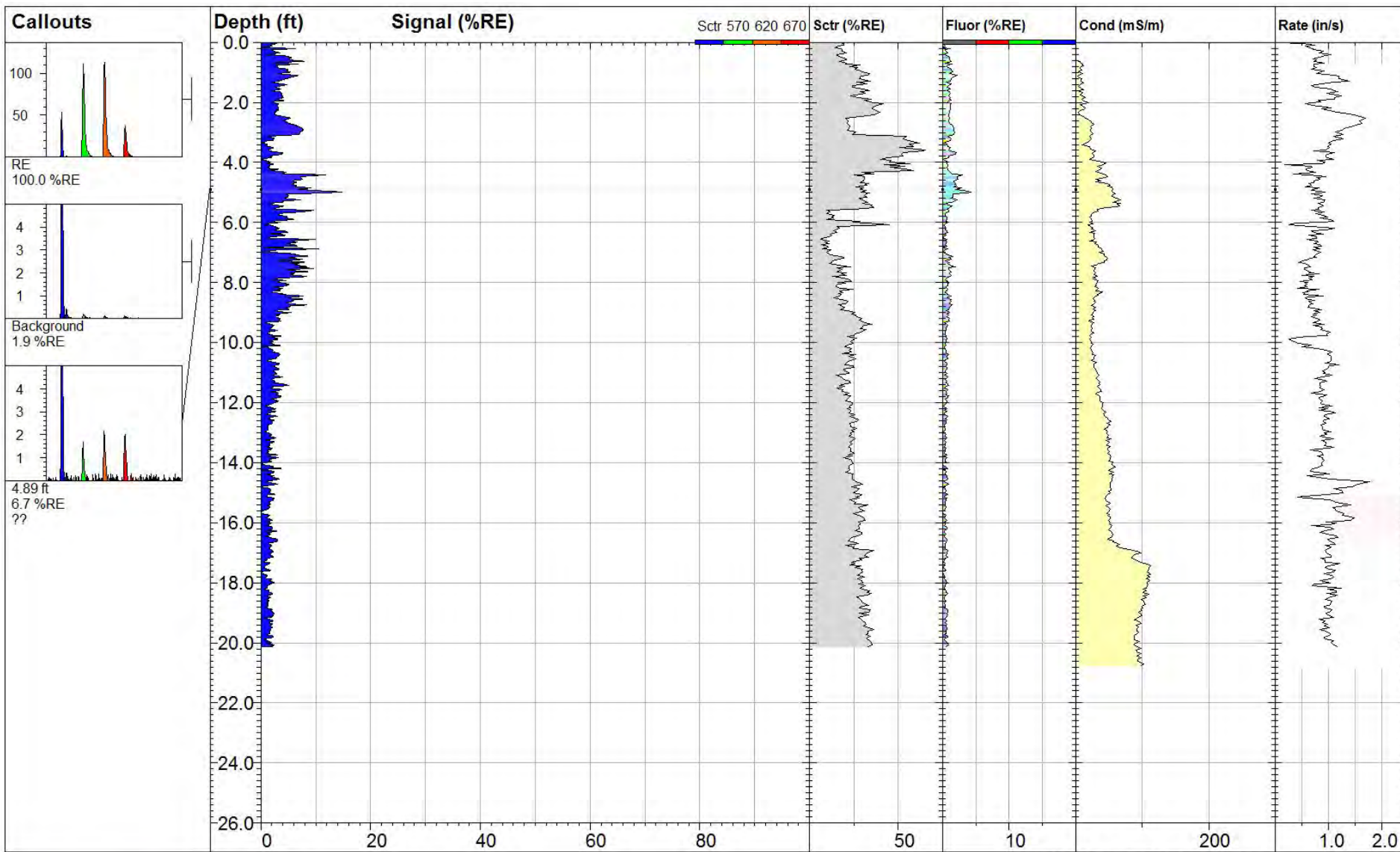



 <b>DAKOTA TECHNOLOGIES</b> <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-28</b>		<b>TARGOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord. (Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>16.68 ft</b>
	<i>Client / Job:</i> <b>Summit / 0255.16</b>	<i>X Coord. (Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>15.8 %RE @ 6.44 ft</b>
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-12-01 09:16 CST</b>	





 <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-29</b>		<b>TARGOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord. (Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>16.68 ft</b>
	<i>Client / Job:</i> <b>Summit / 0255.16</b>	<i>X Coord. (Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>66.4 %RE @ 7.42 ft</b>
	<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-12-01 09:38 CST</b>



 <b>DAKOTA TECHNOLOGIES</b> <small>WWW.DAKOTATECHNOLOGIES.COM</small>	<b>TG-30</b>		<b>TARGOST® By Dakota</b> <small>www.DakotaTechnologies.com</small>
	<i>Site:</i> <b>Superior former MGP</b>	<i>Y Coord. (Lat-N) / System:</i> <b>Unavailable / NA</b>	<i>Final depth:</i> <b>20.14 ft</b>
	<i>Client / Job:</i> <b>Summit / 0255.16</b>	<i>X Coord. (Lng-E) / Fix:</i> <b>Unavailable / NA</b>	<i>Max signal:</i> <b>14.9 %RE @ 4.99 ft</b>
<i>Operator / Unit:</i> <b>MJ/GP / TG1000</b>	<i>Elevation:</i> <b>Unavailable</b>	<i>Date &amp; Time:</i> <b>2016-11-30 16:36 CST</b>	

**Appendix B**  
**Boring Logs**




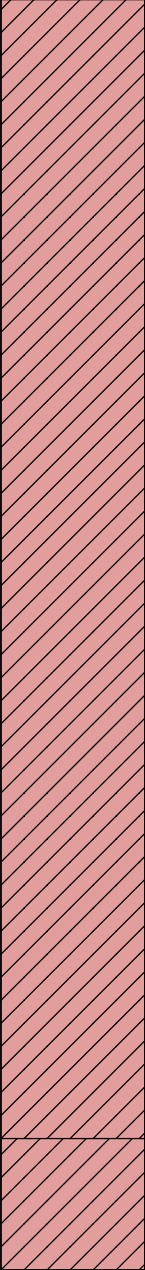
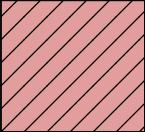


Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Ground Surface Elevation: 615.3 Feet Above AMSL\*

**LOG OF BORING GP1**

Date : 12/12/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core  
Observer(s) : KWR  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0			50		Sand, grey to white, fine to medium grained, some clay, some organics, frozen.
					Clay, red, firm, moist.
	GP1_3-5	0.1			
5			100		
	GP1_5-10	0.2			
10			100		
	GP1_10-12	0.2			
					Clay, red, firm, wet.
15					

End of Boring at 15 feet.

46.727558092762, -92.0759833745537 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset



Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Ground Surface Elevation: 615.3 Feet Above AMSL\*

## LOG OF BORING GP2

Date : 12/12/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core  
Observer(s) : KWR  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0			40		Sand, grey to white, fine to medium grained, some clay, moist. Clay, red, moist, firm, pebbles at 10.5 feet.
5	GP2_3-5	0.1	60		
10	GP2_8-10	0.1	100		
15	GP2_13-15	0.1			

End of Boring at 15 feet.

46.7275225712364, -92.0759175143124 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset



Summit Envirosolutions, Inc.  
 1217 Bandana Boulevard North  
 St. Paul, MN 55180-5114

Project Name : Superior MGP  
 Summit Project No. : 2118-0002  
 Project Location : Superior WI  
 County : Douglas County  
 Form Completed By: Kyle Romens  
 Ground Surface Elevation: 616.9 Feet Above AMSL\*

**LOG OF BORING GP3**

Date : 12/12/16  
 Company/Method : Dakota/Geoprobe  
 Sample Method : Macro Core  
 Observer(s) : KWR  
 Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
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	GP3_0-4	0.1	75		Sand, grey to white, fine to medium grained, frozen.
					Clay, red, moist, obstruction at four feet, concrete debris.

End of Boring at 4 feet.

46.7275187720078, -92.0757916257608 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset




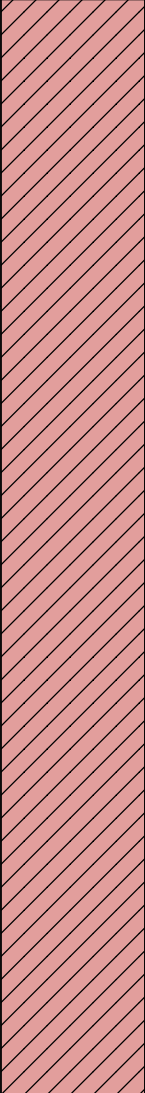
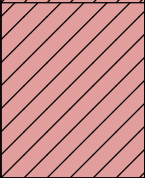


Summit Envirosolutions, Inc.  
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St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Ground Surface Elevation: 615 Feet Above AMSL\*

**LOG OF BORING GP4**

Date : 12/12/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core  
Observer(s) : KWR  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0			75		Sand, grey to white, fine to medium grained, some organics, frozen.
					Clay, red, firm, moist.
5	GP4_3-5	0.1			
	GP4_5-7	1.0			
10					
15	GP4_13-15	21.7			Clay, red, firm, wet.

End of Boring at 15 feet.

46.727570044244, -92.0757537052664 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset



Summit Envirosolutions, Inc.  
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St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Ground Surface Elevation: 615.2 Feet Above AMSL\*

**LOG OF BORING GP5**

Date : 12/12/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core  
Observer(s) : KWR  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0			60		Sand, grey to black, fine to medium grained, organics, frozen.
					No Return
					Clay, red, firm, moist.
5	GP5_4-5	1,875	100		
	GP5_5-7	3,347			
10	GP5_10-12	606	100		
					Clay, red, firm, trace pebbles, wet.
15					

End of Boring at 15 feet.

46.7275972427163, -92.0757920847707 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset



Summit Envirosolutions, Inc.  
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St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Ground Surface Elevation: 615 Feet Above AMSL\*

**LOG OF BORING GP6**

Date : 12/12/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core  
Observer(s) : KWR  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0			75		Sand, grey to black, fine to medium grained, organics, forzen.
					No Return
					Clay, red, firm, moist.
5	GP6_3-5	4.5	100		
10	GP6_8-10	4234	100		
15	GP6_13-15	610			Clay, red, firm, wet.

End of Boring at 15 feet.

46.727608852302, -92.075911925816 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset




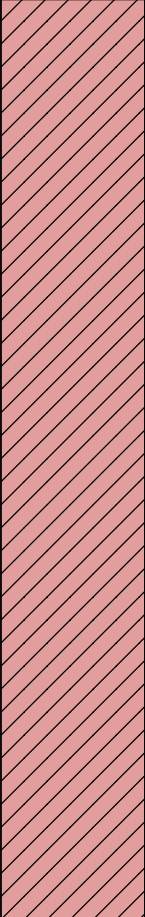
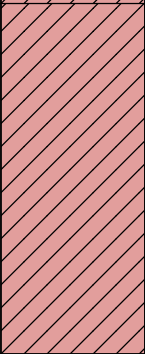


Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Ground Surface Elevation: 615.3 Feet Above AMSL\*

**LOG OF BORING GP7**

Date : 12/12/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core  
Observer(s) : KWR  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0			80		Sand, white to grey, fine to medium grained, frozen.
					Clay, red, firm, moist.
	GP7_3-5	1.0			
5			30		
	GP7_8-10	1.3			
10			40		
	GP7_10-12	1.4			Clay, red, firm, wet.
15					

End of Boring at 15 feet.

46.7275624527893, -92.0760464874288 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset



Summit Envirosolutions, Inc.  
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St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Ground Surface Elevation: 614.2 Feet Above AMSL\*

**LOG OF BORING GP8**

Date : 12/12/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core  
Observer(s) : KWR  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0			60		Sand, white to grey, fine to medium grained, some organics, frozen.
					No Return
	GP8_3-5	4467 Max Read			Clay, red, firm, moist.
5			100		
	GP8_8-10	4200			
10			100		
	GP8_13-15	231			Clay, red, firm, wet.
15					

End of Boring at 15 feet.

46.7276574587954, -92.0759185055604 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset



Summit Envirosolutions, Inc.  
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St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Ground Surface Elevation: 614.7 Feet Above AMSL\*

**LOG OF BORING GP9**

Date : 12/12/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core  
Observer(s) : KWR  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0			30		Sand, white to grey, fine to medium grained, frozen.
					No Retrun
	GP9_3-5	4.7			Clay, red, firm, moist.
5			100		
		8.7			
	GP9_5-7				
10			100		
		101			
	GP9_10-12				Clay, red, firm, wet.
15					

End of Boring at 15 feet.

46.7276480923017, -92.0760415470948 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset





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St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Ground Surface Elevation: 615.4 Feet Above AMSL\*

**LOG OF BORING GP10**

Date : 12/13/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core  
Observer(s) : KWR  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0			40		Sand, white to grey, fine to medium grained, some organics, frozen.
					No Retrun
	GP10_3-5	1.2			Clay, red, firm, moist.
5		452	100		
	GP10_5-7				
10			100		
	GP10_13-15	332			
15					

End of Boring at 15 feet.

46.7275709024055, -92.0758217255122 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset



Summit Envirosolutions, Inc.  
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St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Ground Surface Elevation: 614.6 Feet Above AMSL\*

**LOG OF BORING GP11**

Date : 12/12/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core  
Observer(s) : KWR  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0	GP11_0-2	1.3	40		Fill, sand, gravel, some clay, brown, frozen.
	GP11_3-5	21	100		Clay, red, firm, moist.
5					
	GP11_8-10	25	100		Clay, red, firm, wet.
10					
15					

End of Boring at 15 feet.

46.7279354999532, -92.0767072369239 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset

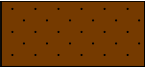
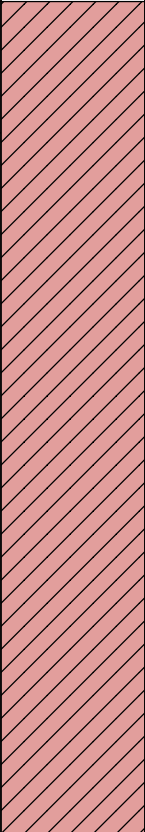
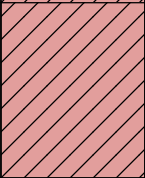


Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Ground Surface Elevation: 614.2 Feet Above AMSL\*

**LOG OF BORING GP12**

Date : 12/13/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core  
Observer(s) : KWR  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0	GP12_3-5	131	50		Sand, white to grey, fine to medium grained, some organics, frozen.
					No Return
	GP12_5-7	1320			Clay, red, firm, moist.
5			100		
	GP12_10-12	1325			Clay, red, firm, wet.
10			100		
15					

End of Boring at 15 feet.

46.7279278821745, -92.0766156445944 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset






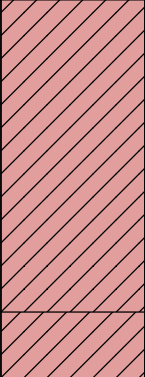
Summit Envirosolutions, Inc.  
 1217 Bandana Boulevard North  
 St. Paul, MN 55180-5114

Project Name : Superior MGP  
 Summit Project No. : 2118-0002  
 Project Location : Superior WI  
 County : Douglas County  
 Form Completed By: Kyle Romens  
 Water Surface Elevation: 613.9 Feet Above AMSL\*

**LOG OF BORING GP13**

Date : 12/13/16  
 Company/Method : Dakota/Geoprobe  
 Sample Method : Macro Core  
 Observer(s) : KWR  
 Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
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0 5 10 15	GP13_3-5	5.3	50		Sand, white to grey, fine to medium grained, some organics, frozen.
					No Return
	GP13_5-10	22	50		Clay, red, moist.
GP13_10-15	224	50	Clay, red, firm, wet, strong odor.		

End of Boring at 15 feet.

46.7280125417377, -92.0766662558445 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset



Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Ground Surface Elevation: 614.7 Feet Above AMSL\*

## LOG OF BORING GP14

Date : 12/13/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core  
Observer(s) : KWR  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0			75		Sand, white to grey, fine to medium grained, some organics, frozen.
					No Return
	GP14_3-5	2.3			Clay, red, firm, moist.
5			90		
					Sand, white to grey, fine to medium grained, dry.
10	GP14_9-10	3.8			Clay, red, firm, wet.
	GP14_10-12	2.0	100		
15					

End of Boring at 15 feet.

46.7279931269713, -92.0767423298615 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset



Summit Envirosolutions, Inc.  
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St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Ground Surface Elevation: 614 Feet Above AMSL\*

### LOG OF BORING GP15

Date : 12/13/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core  
Observer(s) : KWR  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0			60		Sand, white to grey, fine to medium grained, some organics, frozen.
					No Return
	GP15_3-5	104			Clay, red, firm, moist, odor.
5	GP15_5-7	146	100		
10			100		Clay, red, firm, wet.
15	GP15_13-15	157			

End of Boring at 15 feet.

46.7280230001236, -92.0765339779355 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset





Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Ground Surface Elevation: 614.5 Feet Above AMSL\*

**LOG OF BORING GP16**

Date : 12/13/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core  
Observer(s) : KWR  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0	GP16_3-5	1006	50		Sand, white to grey, fine to coarse grained, some organics, frozen.
					No Return
	GP16_7-8	867	50		Clay, red, moist.
					No Return
	GP16_10-12	923	100		Clay, red, wet.
15					

End of Boring at 15 feet.

46.7281156204204, -92.0766592480349 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset



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St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Ground Surface Elevation: 614.2 Feet Above AMSL\*

**LOG OF BORING GP17**

Date : 12/13/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core  
Observer(s) : KWR  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0			50		Sand, white to grey, fine to medium grained, some organics, frozen.
					No Return
					Clay, red, firm, moist.
5	GP17_3-5	89	30		
	GP17_5-10	899	100		
10	GP17_10-15	97			
15					

End of Boring at 15 feet.

46.7281555549337, -92.0765200809229 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset



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Project Name : Superior MGP  
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Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Ground Surface Elevation: 614.3 Feet Above AMSL\*

**LOG OF BORING GP18**

Date : 12/13/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core  
Observer(s) : KWR  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0			75		Sand, white to grey, fine to medium grained, some organics, frozen.
					No Return
					Clay, red, firm, moist.
	GP18_3-5	653			
5			100		
	GP18_5-7	413			
10			100		
	GP18_10-12	210			
					Clay, red, firm, wet.
15					

End of Boring at 15 feet.

46.7279587326187, -92.0765149500412 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset





Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Ryan Anderson  
Ground Surface Elevation: 607.4 Feet Above AMSL\*

**LOG OF BORING SB01**

Date : 12/12/16  
Company/Method : Cascade/Rotosonic  
Sample Method : Grab  
Observer(s) : RLA/WMG  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0	SB01_1-4	31.4	40		Fill, gravel, lime, grey.
					Fill, coal, black, moist.
					Sand, red-brown, with trace silt and clay, moist.
5					No Return
10	SB01_12-15	1.2	100		Sand, red-brown, with trace silt and clay. moist.
					Sand, brown, wet, with mixed organic and wood debris.
15	SB01_17.5-20	1.9	100		Sand, brown, wet, with one inch layer of wood debris/sawdust at 15 feet.
					Silt and clay, brown, varved, very moist.
20			90		Silt, brown, soft, moist, trace very fine sand.
25					Clay, red, firm, moist.
30					

End of Boring at 30 feet.

46.7285992322707, -92.0749444976821 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset



Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Ryan Anderson  
Ground Surface Elevation: 608.9 Feet AMSL\*

### LOG OF BORING SB02

Date : 12/13/16  
Company/Method : Cascade/Rotosonic  
Sample Method : Grab  
Observer(s) : RLA  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0	SB02_8-10	2.4	20		Fill, gravel, lime, wood debris, dark grey to brown, moist.
5			100		Sandy clay, red-brown, trace pebbles, wet.
10	SB02_15-20	1.9	100		Sandy clay, red-brown, trace pebbles, increasing percentage clay, wet, odor.
15			100		
20					
25				Sand, brown, fine to coarse grained, well sorted, wet.	
30			100		Clay, red, firm, trace pebbles, wet.
35					
40					

End of Boring at 40 feet.

46. 729006566002, -92.0744703584329 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset



Summit Envirosolutions, Inc.  
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St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Ryan Anderson  
Ground Surface Elevation: 605.8 Feet Above AMSL\*

### LOG OF BORING SB03

Date : 12/13/16  
Company/Method : Cascade/Rotosonic  
Sample Method : Grab  
Observer(s) : RLA  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0			35		Fill, coal.
					Fill, wood debris.
					No Return
5	SB03_5-7	3.5	100		Fill, wood debris.
					Sandy clay, red-brown, trace pebbles, wet, soft.
10	SB03_10-13	2.4	100		Sand, red-brown, fine to coarse grained, trace silt and clay, wet.
					Clay, red, trace sand, wet, with six inch sand lense at 14 feet.
15					

End of Boring at 15 feet.

46.729266859806, -92.0739923882912 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset





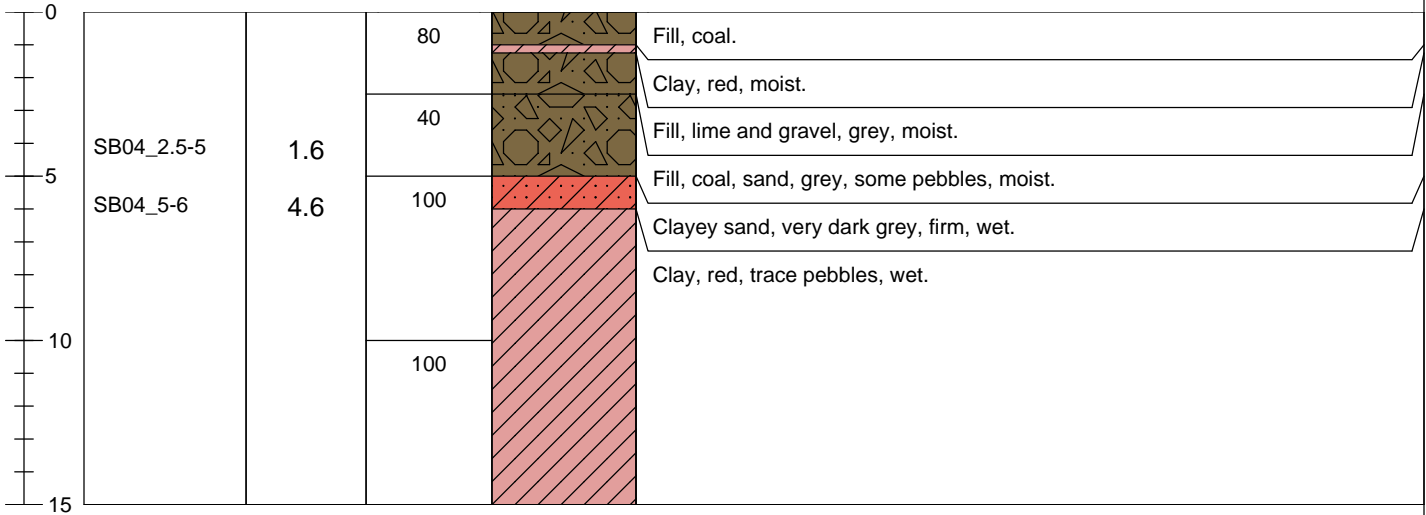
Summit Envirosolutions, Inc.  
 1217 Bandana Boulevard North  
 St. Paul, MN 55180-5114

Project Name : Superior MGP  
 Summit Project No. : 2118-0002  
 Project Location : Superior WI  
 County : Douglas County  
 Form Completed By: Ryan Anderson  
 Ground Surface Elevation: 605.2 Feet Above AMSL\*

**LOG OF BORING SB04**

Date : 12/13/16  
 Company/Method : Cascade/Rotosonic  
 Sample Method : Grab  
 Observer(s) : RLA  
 Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
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End of Boring at 15 feet.

46.7294737730287, -92.0736989567715 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset



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Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Ryan Anderson  
Ground Surface Elevation: 605.8 Feet Above AMSL\*

### LOG OF BORING SB05

Date : 12/14/16  
Company/Method : Cascade/Rotosonic  
Sample Method : Grab  
Observer(s) : RLA  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0	SB05_2.5-5	1.7	30		Fill, gravel, lime, grey.
			30		
5	SB05_5-6	3.0	100		Clay, red, firm, wet.
	SB05_6-8	6.4			
10	SB05_10-15	1.7	100		Sand and clay, red-brown, 1-4 inch interbeds, wet.
15					100
					Clay, red, firm, wet, three inch sand layer at 18 feet.
20					

End of Boring at 20 feet.

46.7297358758627, -92.0733232837842 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset



Summit Envirosolutions, Inc.  
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Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Ryan Anderson  
Ground Surface Elevation: 606.2 Feet Above AMSL\*

### LOG OF BORING SB06

Date : 12/14/16  
Company/Method : Cascade/Rotosonic  
Sample Method : Grab  
Observer(s) : RLA  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0	SB06_2-4	3.4	100		Fill, coal, gravel, lime, grey, moist.
1			100		Sand, very dark brown and grey, trace silt and clay, very moist, slight odor.
2	SB06_8-10	3.6	80		Sand, brown, fine to medium grained, well sorted, very moist, wet at 4.5 feet.
3			80		Sandy clay, red-brown, wet, cobble at 13 feet.
4			100		
5	SB06_14-15	2.2	100		Clay, red, firm, wet.
6					
7					
8					Sandy clay, red-brown, wet.
9					Clay, red, firm, wood fibers, wet.
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

End of Boring at 20 feet.

46.7302672467809, -92.0725946730547 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset





Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Ground Surface Elevation: 612.8 Feet Above AMSL\*

**LOG OF BORING SB07**

Date : 12/14/16  
Company/Method : Cascade/Rotosonic  
Sample Method : Grab  
Observer(s) : RLA  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0	SB07_1-1.5	4.3	50		Topsoil, clayey, red-brown, frozen.
					Fill, gravel, grey to brown, frozen.
					Sandy clay, dark grey, moist.
5	SB07_7-8	7.5	100		Clay, red, firm, moist,
					Clay, red-brown, hard, moist.
					Clay, red, firm, wet, 3 inch sand layer at 18 feet.
10			30		No Return
20			100		Clay, red-brown, firm, moist. Sandy clay, red-brown, wet.
25			100		Clay, red, hard, moist, cobbles at 51 feet.
30			80		
35					
40					

End of Boring at 110 feet.

46.727748519446, -92.0755170505027 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset



Summit Envirosolutions, Inc.  
 1217 Bandana Boulevard North  
 St. Paul, MN 55180-5114

Project Name : Superior MGP  
 Summit Project No. : 2118-0002  
 Project Location : Superior WI  
 County : Douglas County  
 Form Completed By: Kyle Romens  
 Ground Surface Elevation: 612.8 Feet Above AMSL\*

**LOG OF BORING SB07**

Date : 12/14/16  
 Company/Method : Cascade/Rotosonic  
 Sample Method : Grab  
 Observer(s) : RLA  
 Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
			<p>30</p> <p>90</p> <p>100</p> <p>100</p>		

End of Boring at 110 feet.

46.727748519446, -92.0755170505027 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset



Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Ground Surface Elevation: 612.8 Feet Above AMSL\*

**LOG OF BORING SB07**

Date : 12/14/16  
Company/Method : Cascade/Rotosonic  
Sample Method : Grab  
Observer(s) : RLA  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
80 85 90 95 100 105 110	SB07_85-90	1.5			Sand, red-brown, very fine grained, wet.
					Sand, red-brown, fine to coarse grained, well sorted, wet.
					Sand, red-brown, very fine grained, wet.
			100		Sand, red-brown, medium grained, wet.
					Sand, red-brown, very fine grained, wet.
			100		Sand, red-brown, fine to coarse grained, well sorted, wet.
					Sand, red-brown, fine to coarse grained, fining downward, well sorted, wet.
			100		
					Clay, brown, hard, moist, trace pebbles.

End of Boring at 110 feet.

46.727748519446, -92.0755170505027 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset





Summit Envirosolutions, Inc.  
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Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Ryan Anderson  
Ground Surface Elevation: 606.9 Feet Above AMSL\*

### LOG OF BORING SB08

Date : 12/15/16  
Company/Method : Cascade/Rotosonic  
Sample Method : Grab  
Observer(s) : RLA  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0	SB08_2-4	2.8	100		Fill, brown, sand, gravel, clay, trace coal, moist.
5			75		Sandy clay, red-brown, moist.
6.5	SB08_6.5-9	6.4	100		Fill, wood debris.
7.5				Clay, red-brown, firm, wet.	
8.5				Sand, dark grey, wet, odor.	
9.5				Sandy clay, red-brown, soft, wet.	
10.5	SB08_15-16	1.9	100		Sand, dark grey to black, wet, trace coal, odor.
11.5				Sand, brown, fine to coarse grained, fining downward, well sorted, wet.	
12.5				Sand, coarse grained to gravel, well sorted, wet.	
18	SB08_18-20	3.0			Clay, red, firm, moist.

End of Boring at 20 feet.

46.7283112097483, -92.0744406120051 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset



Summit Envirosolutions, Inc.  
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 St. Paul, MN 55180-5114

Project Name : Superior MGP  
 Summit Project No. : 2118-0002  
 Project Location : Superior WI  
 County : Douglas County  
 Form Completed By: Ryan Anderson  
 Ground Surface Elevation: 609.4 Feet Above AMSL\*

**LOG OF BORING SB09**

Date : 12/15/16  
 Company/Method : Cascade/Rotosonic  
 Sample Method : Grab  
 Observer(s) : RLA  
 Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0			100		Topsoil, brown, sandy silt, trace gravel, moist.
0-5			100		Sand, brown, firm, moist.
5-10	SB09_5-10	3.6	75		
10-15			100		Silty sand, dark grey, some wood, wet, odor.
15-20	SB09_13.5-15	9.1			Sand, dark grey, some wood, wet, odor.

End of Boring at 30 feet.

46.7285765468569, -92.0736073699718 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset



Summit Envirosolutions, Inc.  
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St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Ryan Anderson  
Ground Surface Elevation: 609.5 Feet Above AMSL\*

### LOG OF BORING SB10

Date : 12/16/16  
Company/Method : Cascade/Rotosonic  
Sample Method : Grab  
Observer(s) : RLA  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0			100		Topsoil, brown, sandy silt, trace gravel, moist.
			100		Sand, light brown, fine, moist.
			100		Sand, brown, fine to medium grained, moist.
5	SB10_5-10	2.1	100		Sand, brown, fine to medium grained, one inch wood layer at 6.5 feet.
10			100		Sand, red-brown, fine to coarse grained, wet.
15	SB10_25-30	2.4			Silty clay, dark brown.
					Sand, red-brown, fine to coarse grained, wet.
20			100		
25					
30			100		Clay, red, firm, wet.
35	SB10_33-35	1.7			
40					

End of Boring at 40 feet.

46.7291979917708, -92.0727676366679 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset





Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Ryan Anderson  
Ground Surface Elevation: 608.7 Feet Above AMSL\*

### LOG OF BORING SB11

Date : 12/16/16  
Company/Method : Cascade/Rotosonic  
Sample Method : Grab  
Observer(s) : RLA  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0			100		Fill, sand and gravel, brown, moist.
					Sand, red-brown, fine to coarse grained, moist.
5			60		Sand, red-brown, fine to coarse grained, with some gravel and cobbles, moist.
	SB11_8-10	2.4			Silty sand, dark grey, pebbles and debris, moist, odor.
10			100		Silt, brown, moist, slight odor.
	SB11_10-18	31.7			Fill, wood debris, black, moist, strong odor.
15					Silt, brown, wet.
	SB11_18-22	11	100		Sand, red-brown, fine to coarse grained, wet.
20					Clay, red, firm, moist.
25					
30	SB11_29-30	2.1			
	SB11_32-34	2.0			
35					
40					

End of Boring at 40 feet.

46.7279235709633, -92.0726414153043 Lat/Lon NAD83

\*Elevation reported from National Elevation Dataset



Summit Envirosolutions, Inc.  
 1217 Bandana Boulevard North  
 St. Paul, MN 55180-5114

Project Name : Superior MGP  
 Summit Project No. : 2118-0002  
 Project Location : Superior WI  
 County : Douglas County  
 Form Completed By: Kyle Romens  
 Water Surface Elevation: 602 Feet Above AMSL\*

**LOG OF BORING S1**

Date : 12/5/16  
 Company/Method : Dakota/Geoprobe  
 Sample Method : Macro Core/Ponar  
 Observer(s) : KWR/WMG  
 Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0					Water
5					
10					
15					
20					
25	S1_24.5-25	0.1	75		Silt, brown, trace gravel, soft. Ponar Grab Sample
	S1_25-28	0.6			Silt, brown to black, some gravel, soft.
					Clay, red, firm.

End of Boring at 29.5 feet.

46.7307625654736, -92.0716059061611 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.



Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Water Surface Elevation: 602 Feet Above AMSL\*

**LOG OF BORING S2**

Date : 12/5/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core/Ponar  
Observer(s) : KWR/WMG  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0					Water
5					
10					
15					
20					
25					
30	S2_29-29.5	0.0	60		Silt, brown, trace gravel, soft. Ponar Grab Sample
	S2_29.5-32	0.8			Silt, brown to black, some gravel, coal debris, soft, odor.
	S2_32-34	0.5			Sand, brown, fine to medium grained, soft.
35	S2_34-35	0.0	100		Clay, red, firm.

End of Boring at 37 feet.

46.7305903176031, -92.0718611757728 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.





Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Water Surface Elevation: 602 Feet Above AMSL\*

**LOG OF BORING S3**

Date : 12/6/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core/Ponar  
Observer(s) : KWR/WMG  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0					Water
5					
10					
15					
20					
24.5	S1_24.5-25	0.0	75		Silt, brown, trace gravel, soft, slight odor. Ponar Grab Sample
25	S1_25-27.5	0.1			Silt, black, some gravel, soft, slight odor.
27.5					Clay, red, firm.

End of Boring at 29.5 feet.

46.7303919830462, -92.0721358725228 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.



Summit Envirosolutions, Inc.  
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St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Water Surface Elevation: 602 Feet Above AMSL\*

### LOG OF BORING S4

Date : 12/6/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core/Ponar  
Observer(s) : KWR/WMG  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0					Water
5					
10					
15					
20					
23.5-24	S4_23.5-24	0.1	80		Silt, brown, trace gravel, soft, slight odor. Ponar Grab Sample
24-26.5	S4_24-26.5	1.0			Clay, red, firm.

End of Boring at 28.5 feet.

46.7302016619803, -92.0724610023235 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.



Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Water Surface Elevation: 602 Feet Above AMSL\*

### LOG OF BORING S5

Date : 12/6/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core/Ponar  
Observer(s) : KWR/WMG  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0					Water
5					
10					
15					
20					
24.5	S5_24-24.5	0.0	90		Silt, brown, trace gravel, soft. Ponar Grab Sample
25.5	S5_24.5-25.5	0.6			Silt, brown to black, some gravel, soft.
					Clay, red, firm.

End of Boring at 29 feet.

46.7299976132035, -92.072739232653 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.





Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Water Surface Elevation: 602 Feet Above AMSL\*

### LOG OF BORING S6

Date : 12/6/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core/Ponar  
Observer(s) : KWR/WMG  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0					Water
5					
10					
15					
20					
23-23.5	S6_23-23.5	0.1	90		Silt, brown to black , trace gravel, soft. Ponar Grab Sample
23.5-24.5	S6_23.5-24.5	0.7			Silt, black, trace coal debris, soft, slight odor.
					Clay, red, firm.

End of Boring at 29 feet.

46.729801256332, -92.0730249752374 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.



Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Water Surface Elevation: 602 Feet Above AMSL\*

**LOG OF BORING S7**

Date : 12/6/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core/Ponar  
Observer(s) : KWR/WMG  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0					Water
5					
10					
15					
20					
23.5	S7_23-23.5	0.2	80		Silt, black , trace gravel, soft. Ponar Grab Sample
25	S7_23.5-26	1.7			Silt, black, trace coal debris, soft, slight odor.
					Clay, red, firm.

End of Boring at 28 feet.

46.7296064606588, -92.0732994739555 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.



Summit Envirosolutions, Inc.  
 1217 Bandana Boulevard North  
 St. Paul, MN 55180-5114

Project Name : Superior MGP  
 Summit Project No. : 2118-0002  
 Project Location : Superior WI  
 County : Douglas County  
 Form Completed By: Kyle Romens  
 Water Surface Elevation: 602 Feet Above AMSL\*

**LOG OF BORING S8**

Date : 12/6/16  
 Company/Method : Dakota/Geoprobe  
 Sample Method : Macro Core/Ponar  
 Observer(s) : KWR/WMG  
 Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0 5 10 15 20 25	S8_23.5 -24 S8_24-25	0.0 1.6	50		Water             Silt, black , trace gravel, soft. Ponar Grab Sample Silt, black, trace coal debris, soft, slight odor. Clay, red, firm.

End of Boring at 28.5 feet.

46.7294151105568, -92.0735751462028 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.





Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Water Surface Elevation: 602 Feet Above AMSL\*

**LOG OF BORING S9**

Date : 12/6/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core/Ponar  
Observer(s) : KWR/WMG  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0					Water
5					
10					
15					
20					
24.5	S9_24-24.5	0.3	75		Silt, black , trace coal debis, soft. Ponar Grab Sample
25	S9_24.5-25	3.7			Silt, black, trace coal debris, soft, slight odor.
25	S9_25-26	3.			Clay, red, firm.

End of Boring at 29 feet.

46.7292245983324, -92.0738430273683 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.



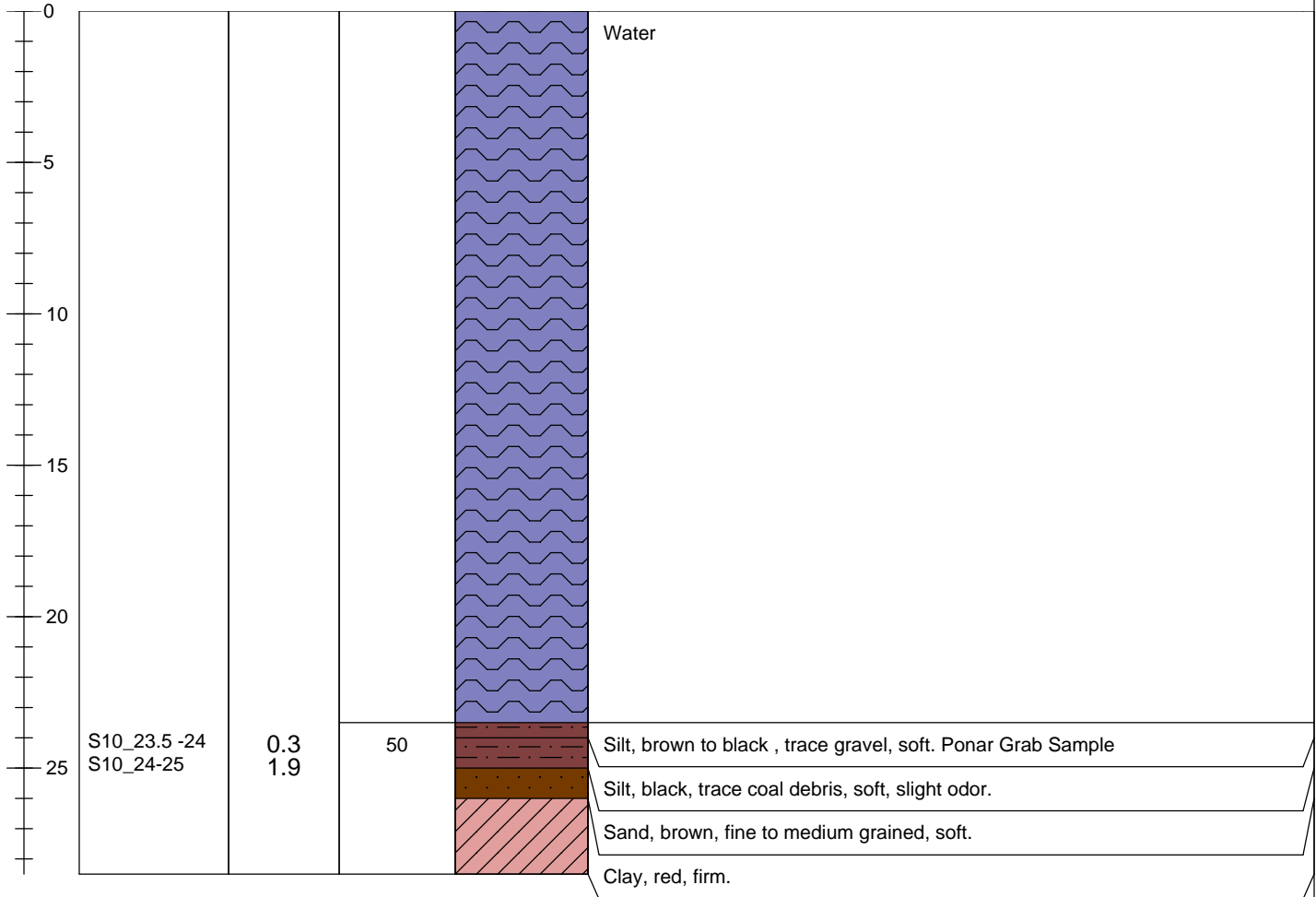
Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Water Surface Elevation: 602 Feet Above AMSL\*

### LOG OF BORING S10

Date : 12/6/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core/Ponar  
Observer(s) : KWR/WMG  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
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End of Boring at 28.5 feet.

46.729036992346, -92.0741471846045 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.



Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Water Surface Elevation: 602 Feet Above AMSL\*

### LOG OF BORING S11

Date : 12/7/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core/Ponar  
Observer(s) : KWR/WMG  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0					Water
17.5-18	S11_17.5-18	0.0	50		Silt, black, trace gravel, soft. Ponar Grab Sample
18-22.5	S11_18-22.5	2.6			Sandy clay, black, wood debris, soft, strong odor.
22.5-25	S11_22.5-25	11.1	80		Silty clay, black, wood debris, soft, strong odor.
					Clay, red, firm.

End of Boring at 27.5 feet.

46.7288569208744, -92.0744270358928 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.





Summit Envirosolutions, Inc.  
 1217 Bandana Boulevard North  
 St. Paul, MN 55180-5114

Project Name : Superior MGP  
 Summit Project No. : 2118-0002  
 Project Location : Superior WI  
 County : Douglas County  
 Form Completed By: Kyle Romens  
 Water Surface Elevation: 602 Feet Above AMSL\*

### LOG OF BORING S12

Date : 12/7/16  
 Company/Method : Dakota/Geoprobe  
 Sample Method : Macro Core/Ponar  
 Observer(s) : KWR/WMG  
 Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0					Water
5	S12_5-5.5	0.0			Sand, brown to black, fine to medium grained. Ponar Grab Sample
5 to 20					No Return
20	S12_20-24	1.0	40		Sand, brown to black, fine to medium grained, soft.
25	S12_24-25	0.3			Clay, red, firm

End of Boring at 25 feet.

46.728649837003, -92.074697653009 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.



Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Water Surface Elevation: 602 Feet Above AMSL\*

**LOG OF BORING S13**

Date : 12/7/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core/Ponar  
Observer(s) : KWR/WMG  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0					Water
15	S13_14-18	13.3	20		Sand, brown, fine to medium grained, soft.
20	S13_18-19	0.6			Sandy clay, black, wood debris, soft, stong odor.
25	S13_21-24	0.0	50		Sand, brown to black, fine to medium grained, soft. Clay, red, firm.

End of Boring at 26 feet.

46.7286696325674, -92.0744623175111 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.



Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Water Surface Elevation: 602 Feet Above AMSL\*

### LOG OF BORING S14

Date : 12/7/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core/Ponar  
Observer(s) : KWR/WMG  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0					Water
5					
10					
15					
20					
25	S14_23-28	2.8	30		Silt, black, soft, debris at 24 feet, odor.
30	S14_28-30	0.5			Clay, red, firm.

End of Boring at 30 feet.

46.7288708308031, -92.0741791272136 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.





Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Water Surface Elevation: 602 Feet Above AMSL\*

### LOG OF BORING S15

Date : 12/7/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core/Ponar  
Observer(s) : KWR/WMG  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0					Water
5					
10					
15					
20					
25	S15_22-26	3.2	30		Silt, black, soft, debris, odor.
					Clay, red, firm.

End of Boring at 29 feet.

46.7290750951759, -92.0738725273799 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.

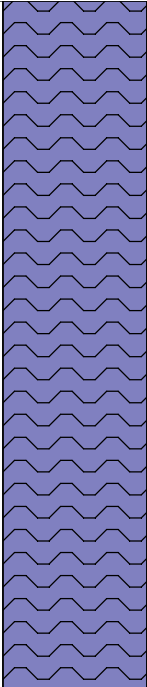
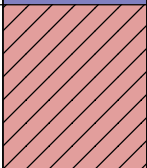


Summit Envirosolutions, Inc.  
 1217 Bandana Boulevard North  
 St. Paul, MN 55180-5114

Project Name : Superior MGP  
 Summit Project No. : 2118-0002  
 Project Location : Superior WI  
 County : Douglas County  
 Form Completed By: Kyle Romens  
 Water Surface Elevation: 602 Feet Above AMSL\*

**LOG OF BORING S16**

Date : 12/7/16  
 Company/Method : Dakota/Geoprobe  
 Sample Method : Macro Core/Ponar  
 Observer(s) : KWR/WMG  
 Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0 5 10 15 20 25					Water
	S16_21-22	0.0	100		Clay, red, firm.

End of Boring at 26 feet.

46.7292571920005, -92.0736043638951 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.



Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Water Surface Elevation: 602 Feet Above AMSL\*

### LOG OF BORING S17

Date : 12/7/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core/Ponar  
Observer(s) : KWR/WMG  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0					Water
5					
10					
15					
20					
25	S17_24-27	1.3	75		Silt, black, 2 inches red clay layer at 26.5, soft, odor.
30					Clay, red, firm.

End of Boring at 30 feet.

46.7294612055971, -92.0733134251884 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.





Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Water Surface Elevation: 602 Feet Above AMSL\*

**LOG OF BORING S18**

Date : 12/8/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core/Ponar  
Observer(s) : KWR/WMG  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0					Water
5					
10					
15					
20	S18_20-22.5	20	60		Silt, black, soft, odor.
25					Clay, red, firm.

End of Boring at 25 feet.

46.7296555127962, -92.0730397909715 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.



Summit Envirosolutions, Inc.  
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 St. Paul, MN 55180-5114

Project Name : Superior MGP  
 Summit Project No. : 2118-0002  
 Project Location : Superior WI  
 County : Douglas County  
 Form Completed By: Kyle Romens  
 Water Surface Elevation: 602 Feet Above AMSL\*

**LOG OF BORING S19**

Date : 12/8/16  
 Company/Method : Dakota/Geoprobe  
 Sample Method : Macro Core/Ponar  
 Observer(s) : KWR/WMG  
 Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0					Water
5					
10					
15					
20	S19_20.5-25	3.1	50		Silt, black, soft, two inch fine to medium grained sand layer at 24.5 feet, odor.
25					Clay, red, firm.

End of Boring at 28.5 feet.

46.7298347900975, -92.0727793640307 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.



Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Water Surface Elevation: 602 Feet Above AMSL\*

**LOG OF BORING S20**

Date : 12/8/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core/Ponar  
Observer(s) : KWR/WMG  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0					Water
5					
10					
15					
20	S20_22-24	0.3	70		Silt, black, trace sand and gravel, soft, odor. Ponar Grab Sample
25	S20_24-25	0.3			Sand, brown, fine to medium grained, well sorted.
					Clay, red, tight, firm.

End of Boring at 27 feet.

46.7300336024318, -92.0724764887463 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.







Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Water Surface Elevation: 602 Feet Above AMSL\*

**LOG OF BORING S22**

Date : 12/8/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core/Ponar  
Observer(s) : KWR/WMG  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0					Water
25	S22_24-24.5	0.0	40		Silt, black, trace sand, fine to medium grained, soft, odor. Ponar Grab Sample
25	S22_24.5-28	0.8			Silt, black, trace sand, fine to medium grained, soft, odor.
30					Clay, red, firm.

End of Boring at 30 feet.

46.7304258387189, -92.0718705504441 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.



Summit Envirosolutions, Inc.  
 1217 Bandana Boulevard North  
 St. Paul, MN 55180-5114

Project Name : Superior MGP  
 Summit Project No. : 2118-0002  
 Project Location : Superior WI  
 County : Douglas County  
 Form Completed By: Kyle Romens  
 Water Surface Elevation: 602 Feet Above AMSL\*

**LOG OF BORING S23**

Date : 12/8/16  
 Company/Method : Dakota/Geoprobe  
 Sample Method : Macro Core/Ponar  
 Observer(s) : KWR/WMG  
 Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0					Water
5					
10					
15					
20					
25					
26.5-28.5	S23_26.5-28.5	0.0	50		Silt, black, trace sand, fine to medium grained, soft, odor.
30					Clay, red, firm.

End of Boring at 31.5 feet.

46.7306161340511, -92.0715948121638, Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.





Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Water Surface Elevation: 602 Feet Above AMSL\*

### LOG OF BORING S24

Date : 12/8/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core/Ponar  
Observer(s) : KWR/WMG  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
0					Water
12.5-13	S24_12.5-13	0.5	20		Silt, black, trace sand and gravel, soft, odor. Ponar Grab Sample
13-15.5	S24_13-15.5	0.0			Sand, brown, fine to medium grained, well sorted, coarse sand six inches above clay.
18-19	S24_18-19	0.1	50		
20-20.5	S24_20-20.5	0.1			Clay, red, firm.

End of Boring at 22 feet.

46.7288752614188, -92.0737260858994 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.



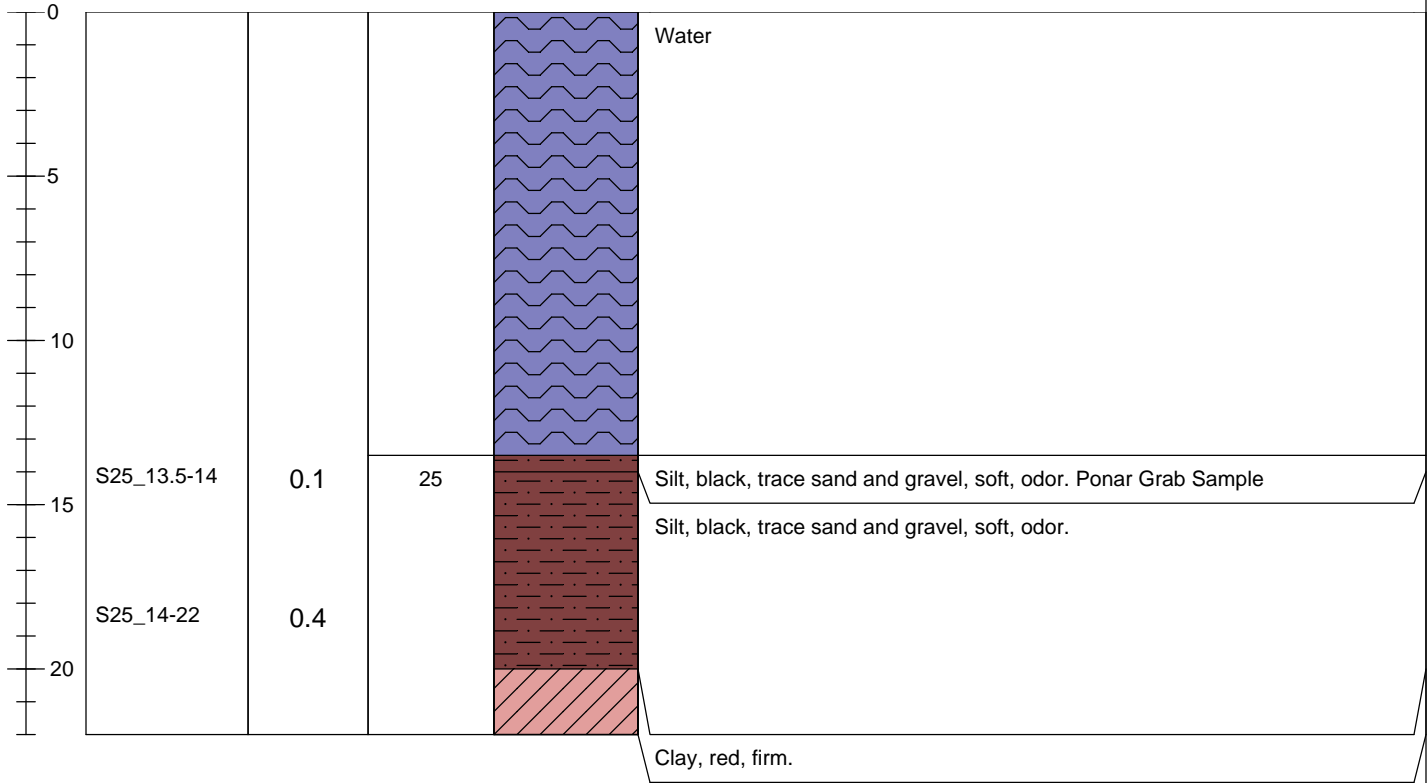
Summit Envirosolutions, Inc.  
1217 Bandana Boulevard North  
St. Paul, MN 55180-5114

Project Name : Superior MGP  
Summit Project No. : 2118-0002  
Project Location : Superior WI  
County : Douglas County  
Form Completed By: Kyle Romens  
Water Surface Elevation: 602 Feet Above AMSL\*

**LOG OF BORING S25**

Date : 12/8/16  
Company/Method : Dakota/Geoprobe  
Sample Method : Macro Core/Ponar  
Observer(s) : KWR/WMG  
Weather : Cold

Depth in Feet Below Grade	Sample ID	PID (ppm)	Recovery %	GRAPHIC LOG	Description
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End of Boring at 22 feet.

46.7292614645847, -92.0731611102251 Lat/Lon NAD83

\*Water Elevation Recorded From The NOAA Dataset For the DULM5 Station.

## **Appendix C**

### **Monitoring Well Logs**



Facility/Project Name: SUPERIOR WATER, Light + Power  
 Facility License, Permit or Monitoring No.: \_\_\_\_\_  
 Facility ID: \_\_\_\_\_  
 Type of Well: \_\_\_\_\_ Well Code: 11 / MW  
 Distance from Waste/Source: N/A ft. Enf. Sids. Apply   
 Local Grid Location of Well: \_\_\_\_\_  
 Local Grid Origin (estimated) or Well location: \_\_\_\_\_  
 Lat. 46° 43' 40" Long. 92° 07' 34.98"  
 St. Plane \_\_\_\_\_ ft. N. \_\_\_\_\_ ft. E. S/C/N \_\_\_\_\_  
 Section Location of Waste/Source: NE 1/4 of NE 1/4 of Sec. 14, T. 49 N., R. 14 E.  
 Location of Well Relative to Waste/Source: u  Upgradient s  Sidegradient d  Downgradient n  Not Known  
 Gov. Lot Number \_\_\_\_\_  
 Well Name: MW-26  
 Wis. Unique Well No.: UR303 DNR Well ID No.: \_\_\_\_\_  
 Date Well Installed: 12/15/2016  
 Well Installed By: Name (first, last) and Firm: ERIC SATHER  
CASCADE DRILLING

- A. Protective pipe, top elevation \_\_\_\_\_ ft. MSL
- B. Well casing, top elevation \_\_\_\_\_ ft. MSL
- C. Land surface elevation \_\_\_\_\_ ft. MSL
- D. Surface seal, bottom \_\_\_\_\_ ft. MSL or 2 ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

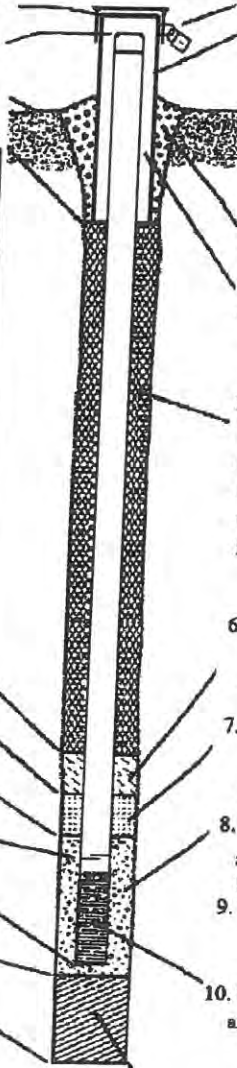
13. Sieve analysis performed?  Yes  No

14. Drilling method used: Rotary  50  
 Hollow Stem Auger  41  
SONIC Other

15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99

16. Drilling additives used?  Yes  No  
 Describe \_\_\_\_\_

17. Source of water (attach analysis, if required):  
CITY WATER



- 1. Cap and lock?  Yes  No
- 2. Protective cover pipe:
  - a. Inside diameter: \_\_\_\_\_ in.
  - b. Length: 4 ft.
  - c. Material: Steel  04  
Other
  - d. Additional protection?  Yes  No  
If yes, describe: 3" Bumper Post
- 3. Surface seal: Bentonite  30  
Concrete  01  
Other
- 4. Material between well casing and protective pipe: Bentonite  30  
Other  CEMENT
- 5. Annular space seal:
  - a. Granular/Chipped Bentonite  33
  - b. \_\_\_\_\_ Lbs/gal mud weight ... Bentonite-sand slurry  35
  - c. \_\_\_\_\_ Lbs/gal mud weight ... Bentonite slurry  31
  - d. 20 % Bentonite ... Bentonite-cement grout  50
  - e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above
  - f. How installed: Tremie  01  
Tremie pumped  02  
Gravity  08
- 6. Bentonite seal:
  - a. Bentonite granules  33
  - b.  1/4 in.  3/8 in.  1/2 in. Bentonite chips  32
  - c. Hotplug Other
- 7. Fine sand material: Manufacturer, product name & mesh size  
 a. Unimin #000  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>
- 8. Filter pack material: Manufacturer, product name & mesh size  
 a. Red Flint #40  
 b. Volume added \_\_\_\_\_ ft<sup>3</sup>
- 9. Well casing: Flush threaded PVC schedule 40  23  
 Flush threaded PVC schedule 80  24  
 Other
- 10. Screen material: Sch 40 PVC
  - a. Screen type: Factory cut  11  
 Continuous slot  01  
 Other
  - b. Manufacturer: Johnson
  - c. Slot size: 0.010 in.
  - d. Slotted length: 10 ft.
- 11. Backfill material (below filter pack): None  14  
 Other

- E. Bentonite seal, top \_\_\_\_\_ ft. MSL or 75 ft.
- F. Fine sand, top \_\_\_\_\_ ft. MSL or 77 ft.
- G. Filter pack, top \_\_\_\_\_ ft. MSL or 78 ft.
- H. Screen joint, top \_\_\_\_\_ ft. MSL or 80 ft.
- I. Well bottom \_\_\_\_\_ ft. MSL or 90 ft.
- J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 90 ft.
- K. Borehole, bottom \_\_\_\_\_ ft. MSL or 90 ft.
- L. Borehole, diameter 6 in.
- M. O.D. well casing 2.375 in.
- N. I.D. well casing 2.067 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.  
 Signature: Eric Sather Firm: CASCADE DRILLING

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelpoment  Other  MONITORING/BORING

Page 1 of 1

Facility/Project Name <u>SUPERIOR WATER, Light + Power</u>		License/Permit/Monitoring Number	Boring Number <u>MW-26</u>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <u>ERIC</u> Last Name: <u>SATHER</u> Firm: <u>CASCADE DRILLING</u>		Date Drilling Started <u>12/15/2016</u> m m d d y y y y	Date Drilling Completed <u>12/15/2016</u> m m d d y y y y
WI Unique Well No. <u>UR303</u>	DNR Well ID No.	Well Name <u>MW-26</u>	Final Static Water Level <u>20</u> Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		Surface Elevation Feet MSL	Borehole Diameter <u>6</u> inches
State Plane <u>NE</u> 1/4 of <u>NE</u> 1/4 of Section <u>14</u> , T <u>49</u> N, R <u>14</u> W		Local Grid Location Lat <u>46° 04' 3"</u> Long <u>92° 04' 34.48"</u>	<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
Facility ID	County <u>Douglas</u>	County Code <u>16</u>	Civil Town/City/ or Village <u>Superior</u>

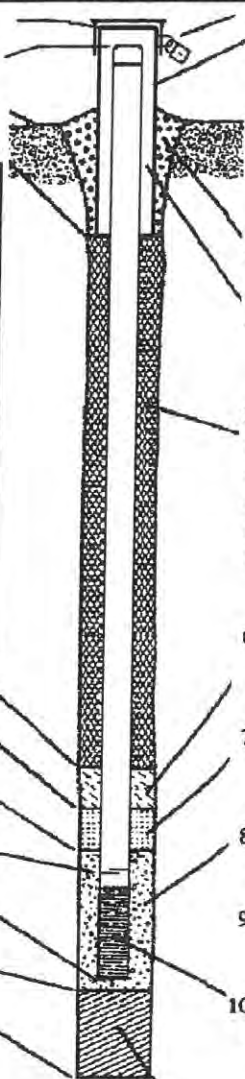
Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			<u>5</u>	<u>FILL - 0-5</u>											
			<u>15</u>	<u>SAND 5-15</u>											
			<u>82</u>	<u>CLAY 15-82</u>											
			<u>90</u>	<u>SAND 82-90</u>											

I hereby certify that the information on this form is true and correct to the best of my knowledge.  
Signature: Eric Sather Firm: CASCADE DRILLING

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Facility/Project Name <u>SUPERIOR WATER, Light + Power</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>WW-25</u>
Facility License, Permit or Monitoring No.	Local Grid Origin (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. <u>46° 43' 40.90" N</u> Long. <u>92° 04' 33.94" W</u>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed <u>12/14/2016</u> m m d d y y y y
Type of Well Well Code <u>11 / MW</u>	Section Location of Waste/Source <u>NE 1/4 of NE 1/4 of Sec. 14, T. 49 N, R. 14 E W</u>	Well Installed By: Name (first, last) and Firm <u>ERIC SATHER</u> <u>CASCADE DRILLING</u>
Distance from Waste/Source <u>N/A</u> ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
C. Land surface elevation _____ ft. MSL	b. Length: _____ ft.
D. Surface seal, bottom _____ ft. MSL or _____ ft.	c. Material: <u>8" Flushmount</u> Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 <u>SONIC</u> Hollow Stem Auger <input type="checkbox"/> 41 Other <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input checked="" type="checkbox"/> 31 d. <u>30</u> % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft <sup>3</sup> volume added for any of the above
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
17. Source of water (attach analysis, if required): _____	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. <u>Holeplug</u> Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>12</u> ft.	7. Fine sand material: Manufacturer, product name & mesh size a. <u>Urimin #100</u>
F. Fine sand, top _____ ft. MSL or <u>3</u> ft.	b. Volume added _____ ft <sup>3</sup>
G. Filter pack, top _____ ft. MSL or <u>4</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <u>RED FLINT #40</u>
H. Screen joint, top _____ ft. MSL or <u>5</u> ft.	b. Volume added _____ ft <sup>3</sup>
I. Well bottom _____ ft. MSL or <u>15</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or <u>15</u> ft.	10. Screen material: <u>PVC</u>
K. Borehole, bottom _____ ft. MSL or <u>15</u> ft.	a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
L. Borehole, diameter <u>6</u> in.	b. Manufacturer <u>Johnson</u>
M. O.D. well casing <u>2.375</u> in.	c. Slot size: <u>0.010</u> in.
N. I.D. well casing <u>2.067</u> in.	d. Slotted length: <u>20</u> ft.
	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>



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Route To:  Watershed/Wastewater  Waste Management   
 Remediation/Revelopment  Other **MONITORING/BORING**

Page 1 of 1

Facility/Project Name <b>Superior Water, Light + Power</b>		License/Permit/Monitoring Number	Boring Number <b>MW-25</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <b>ERIC</b> Last Name: <b>SATHER</b>		Date Drilling Started <b>12/14/2016</b> m m d d y y y y	Date Drilling Completed <b>12/14/2016</b> m m d d y y y y
Firm: <b>CASCADE DRILLING</b>		Drilling Method <b>SONIC</b>	
WI Unique Well No. <b>WR 302</b>	DNR Well ID No.	Well Name <b>MW25</b>	Final Static Water Level <b>10</b> Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		Surface Elevation Feet MSL	
State Plane <u>N</u> <u>E</u>		Borehole Diameter <b>6</b> inches	
Local Grid Location		Local Grid Location	
NE 1/4 of <b>NE</b> 1/4 of Section <b>14</b> , T <b>49</b> N, R <b>14W</b>		Lat <b>46° 43' 40.96</b> <input type="checkbox"/> N <input type="checkbox"/> E Long <b>92° 01' 33.84</b> <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID	County <b>Douglas</b>	County Code <b>16</b>	Civil Town/City/ or Village <b>Superior</b>

Number and Type	Sample Length Av. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			<b>8</b>	<b>F, 11 - 0-8'</b>											
			<b>15</b>	<b>CLAY - 8'-15'</b>											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

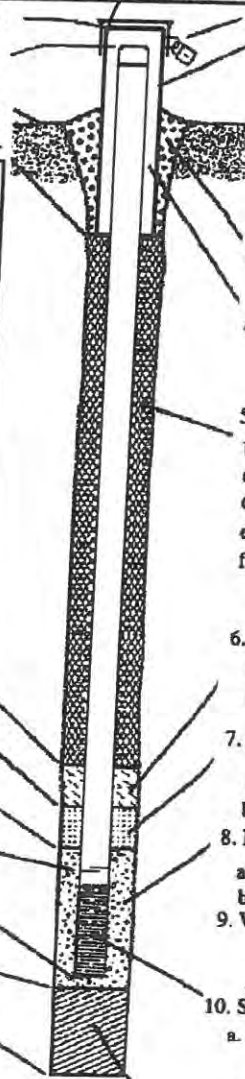
Signature *Eric Sather* Firm CASCADE DRILLING

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Route to:  Watershed/Wastewater  Waste Management   
 Remediation/Redevelopment  Other MONITORING

Facility/Project Name <u>SUPERIOR WATER, Light + Power</u>		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name <u>MW-23</u>	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/>		Wis. Unique Well No. <u>UR 300</u> DNR Well ID No.	
Facility ID		Lat. <u>46° 43' 39.60"</u> Long. <u>92° 04' 31.85"</u> or		Date Well Installed	
Type of Well Well Code <u>11 / MW</u>		St. Plane _____ ft. N. _____ ft. E. S/C/N		Well Installed By: Name (first, last) and Firm <u>ERIC SATHER</u> <u>CASCADE DRILLING</u>	
Distance from Waste/Source <u>N/A</u> ft.		Section Location of Waste/Source <u>NE 14 of NE 14 of Sec. 14, T. 49 N. R. 14</u>		Gov. Lot Number	
Enf. Stds. Apply <input type="checkbox"/>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known			

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
C. Land surface elevation _____ ft. MSL	b. Length: _____ ft.
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	c. Material: <u>8" Flushmount</u> Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 <u>SONIC</u> Hollow Stem Auger <input type="checkbox"/> 41 Other <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: <u>CEMENT</u> Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input checked="" type="checkbox"/> 31 d. <u>30</u> % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. <u>Half plug</u> Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): _____	7. Fine sand material: Manufacturer, product name & mesh size a. <u>Unimin # 600</u> b. Volume added _____ ft <sup>3</sup>
E. Bentonite seal, top _____ ft. MSL or <u>18</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <u>RED FINE # 40</u> b. Volume added _____ ft <sup>3</sup>
F. Fine sand, top _____ ft. MSL or <u>20</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or <u>22</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>25</u> ft.	b. Manufacturer <u>Johnson</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>5</u> ft.
I. Well bottom _____ ft. MSL or <u>30</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or <u>30</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>30</u> ft.	
L. Borehole, diameter <u>6</u> in.	
M. O.D. well casing <u>2.375</u> in.	
N. I.D. well casing <u>2.067</u> in.	



I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Eric Sather

Firm CASCADE DRILLING

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Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelopment  Other  **MONITORING/BORING**

Page 1 of 1

Facility/Project Name <b>Superior Water, Light + Power</b>		License/Permit/Monitoring Number	Boring Number <b>MW-23</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <b>ERIC</b> Last Name: <b>SATHER</b> Firm: <b>CASCADE DRILLING</b>		Date Drilling Started <b>12/13/2016</b> m m d d y y y y	Date Drilling Completed <b>12/13/2016</b> m m d d y y y y
Drilling Method <b>SONIC</b>	WI Unique Well No. <b>UR 300</b>	DNR Well ID No.	Well Name
Final Static Water Level <b>10</b> Feet MSL	Surface Elevation Feet MSL	Borehole Diameter <b>6</b> inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane <u>NE</u> 1/4 of <u>NE</u> 1/4 of Section <u>14</u> , T <u>49</u> N, R <u>14</u> W		Lat <b>46° 43' 39.60"</b>	Long <b>92° 04' 31.85"</b>
Facility ID	County <b>Douglas</b>	County Code <b>16</b>	Civil Town/City/ or Village <b>Superior</b>

Sample Number and Type	Length: Air. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			5	Fill - 0 - 5'											
			27	Clay - 5' - 27'											
			30	Sand - 27' - 30'											

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Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other  MONITORING

Facility/Project Name <u>SUPERIOR WATER, Light + Power</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>MW-24</u>
Facility License, Permit or Monitoring No.	Local Grid Origin (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. <u>46° 43' 40.68"</u> Long. <u>92° 04' 27.93"</u> or	Wis. Unique Well No. <u>UR 301</u> DNR Well ID No.
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed <u>12/13/2016</u> m m d d y y v v
Type of Well Well Code <u>11 / MW</u>	Section Location of Waste/Source <u>NE 1/4 of NE 1/4 of Sec. 14, T. 49 N. R. 14</u> <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>ERIC SATHER</u> <u>CASCADE DRILLING</u>
Distance from Waste/Source <u>N/A</u> ft.	Enf. Stds. Apply <input type="checkbox"/>	Gov. Lot Number
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known	

- A. Protective pipe, top elevation \_\_\_\_\_ ft. MSL  
B. Well casing, top elevation \_\_\_\_\_ ft. MSL  
C. Land surface elevation \_\_\_\_\_ ft. MSL  
D. Surface seal, bottom \_\_\_\_\_ ft. MSL or \_\_\_\_\_ ft.

12. USCS classification of soil near screen:  
GP  GM  GC  GW  SW  SP   
SM  SC  ML  MH  CL  CH   
Bedrock

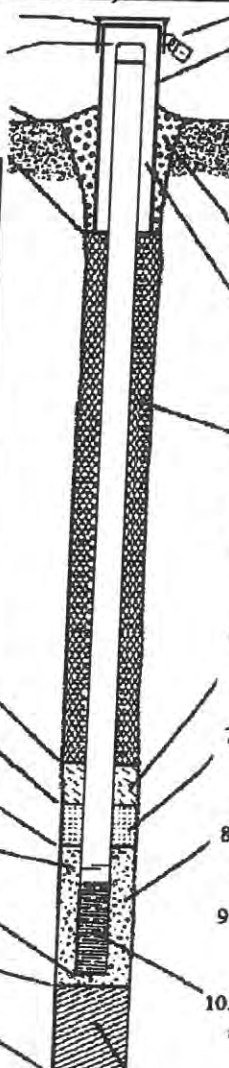
13. Sieve analysis performed?  Yes  No

14. Drilling method used: Rotary  50  
SONIC Hollow Stem Auger  41  
Other

15. Drilling fluid used: Water  02 Air  01  
Drilling Mud  03 None  99

16. Drilling additives used?  Yes  No  
Describe \_\_\_\_\_

17. Source of water (attach analysis, if required): \_\_\_\_\_



1. Cap and lock?  Yes  No
2. Protective cover pipe:  
a. Inside diameter: 8 in.  
b. Length: 1 ft.  
Material: 8" Flushmount Steel  04  
Other
- d. Additional protection?  Yes  No  
If yes, describe: \_\_\_\_\_
3. Surface seal: Bentonite  30  
CEMENT Concrete  01  
Other
4. Material between well casing and protective pipe:  
CEMENT Bentonite  30  
Other
5. Annular space seal:  
a. Granular/Chipped Bentonite  33  
b. \_\_\_\_\_ Lbs/gal mud weight ... Bentonite-sand slurry  35  
c. \_\_\_\_\_ Lbs/gal mud weight ... Bentonite slurry  31  
d. 30 % Bentonite ... Bentonite-cement grout  50  
e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above  
f. How installed: Tremie  01  
Tremie pumped  02  
Gravity  08
6. Bentonite seal:  
a. Bentonite granules  33  
b.  1/4 in.  3/8 in.  1/2 in. Bentonite chips  32  
c. Holeplug Other
7. Fine sand material: Manufacturer, product name & mesh size  
a. Unimin #100  
b. Volume added \_\_\_\_\_ ft<sup>3</sup>
8. Filter pack material: Manufacturer, product name & mesh size  
a. RED FINE #40  
b. Volume added \_\_\_\_\_ ft<sup>3</sup>
9. Well casing: Flush threaded PVC schedule 40  23  
Flush threaded PVC schedule 80  24  
Other
10. Screen material: PVC  
a. Screen type: Factory cut  11  
Continuous slot  01  
Other
- b. Manufacturer Johnson  
c. Slot size: 0.010 in.  
d. Slotted length: 10 ft.
11. Backfill material (below filter pack): None  14  
Other

- E. Bentonite seal, top \_\_\_\_\_ ft. MSL or 2 ft.  
F. Fine sand, top \_\_\_\_\_ ft. MSL or 3 ft.  
G. Filter pack, top \_\_\_\_\_ ft. MSL or 4 ft.  
H. Screen joint, top \_\_\_\_\_ ft. MSL or 5 ft.  
I. Well bottom \_\_\_\_\_ ft. MSL or 15 ft.  
J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 15 ft.  
K. Borehole, bottom \_\_\_\_\_ ft. MSL or 15 ft.  
L. Borehole, diameter 6 in.  
M. O.D. well casing 2.375 in.  
N. I.D. well casing 2.067 in.

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Route To: Watershed/Wastewater  Waste Management   
Remediation/Revopment  Other  MONITORING/BORING

Page 1 of 1

Facility/Project Name <u>SUPERIOR WATER, Light + Power</u>		License/Permit/Monitoring Number	Boring Number <u>MW-24</u>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <u>ERIC</u> Last Name: <u>SATHER</u> Firm: <u>CASCADE DRILLING</u>		Date Drilling Started <u>12.13.2016</u> m m d d y y y y	Date Drilling Completed <u>12.13.2016</u> m m d d y y y y
WI Unique Well No. <u>UR 301</u>	DNR Well ID No.	Well Name <u>MW-24</u>	Final Static Water Level <u>10</u> Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		Surface Elevation Feet MSL	Borehole Diameter <u>6</u> inches
State Plane <u>NE</u> <input type="checkbox"/> N, <input type="checkbox"/> E		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of NE 1/4 of Section <u>14</u> , T <u>47</u> N, R <u>14</u> W		Lat <u>46° 43' 40.6"</u> Long <u>92° 04' 22.9"</u>	
Facility ID	County <u>Douglas</u>	County Code <u>16</u>	Civil Town/City/ or Village <u>Superior</u>

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/PID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			<u>6'</u>	<u>Fill 0-6'</u>											
			<u>15'</u>	<u>Clay 6'-15'</u>											

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## **Appendix D**

### **Groundwater Collection Stabilization Records**



SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-1

Client: SWLP Summit Project Name/No.: 2118-0002

Project Location: Superior WI Collected By: KWR/RIA WMG

Date: 4/24/17 Start Time: 1500 End Time: \_\_\_\_\_ Weather: 37° 39 MPH wind

Sample Point Type: Well/Piezometer/Other \_\_\_\_\_ Well \_\_\_\_\_ Casing Type: PVC

Static DTW (From TOC): 4.05 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2 Inch

Pumping Equipment and Depth Setting: Peristaltic Pump

Stabilization Testing Equipment Used (Flow Cell Y/N?): Horiba

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: Grab Sample

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-1</u>	<u>40 mL Amber</u>	<u>3</u>	<u>None</u>	<u>PAH</u>	<u>1530</u>
	<u>40 mL</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	

Comments well draw down at 100 ml/min - no recharge

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>Criteria</u>										
<u>1500</u>	<u>6.32</u>	<u>7.18</u>	<u>2.55</u>	<u>0.0</u>	<u>6.0</u>	<u>91</u>			<u>1.5</u>	<u>100</u>
<u>1510</u>	<u>6.06</u>	<u>7.20</u>	<u>2.54</u>	<u>0.0</u>	<u>2.34</u>	<u>85</u>			<u>6.45</u>	<u>100</u>
<u>1520</u>	<u>5.91</u>	<u>7.26</u>	<u>2.56</u>	<u>0.0</u>	<u>1.25</u>	<u>76</u>			<u>8.00</u>	<u>100</u>
<u>1530</u>	<u>5.75</u>	<u>7.20</u>	<u>2.56</u>	<u>0.0</u>	<u>0.97</u>	<u>70</u>			<u>9.44</u>	<u>100</u>

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW 2

Client: SWLP Summit Project Name/No.: 2118-0002

Project Location: Superior WI Collected By: KWR/BLA w MG

Date: 4-24-17 Start Time: 1600 End Time: 1700 Weather: Cold drizzle

Sample Point Type: Well/Piezometer/Other Well Casing Type: PVC

<sup>1450</sup> Static DTW (From TOC): 4.44 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2 Inch

Pumping Equipment and Depth Setting: Peristaltic Pump

Stabilization Testing Equipment Used (Flow Cell Y/N?): Horiba

*Calibration data can be found in the project file*

Sample Collection

Sample Collection Method: Grab Sample

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-2</u>	<u>40 mL Amber</u>	<u>3</u>	<u>None</u>	<u>PAH</u>	<u>1640</u>
	<u>40 mL</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	

Comments \_\_\_\_\_

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>Criteria</u>				<u>0</u>						
<u>1610</u>	<u>5.35</u>	<u>7.39</u>	<u>2.15</u>	<u>0.0</u>	<u>6.25</u>	<u>91</u>			<u>4.61</u>	<u>40 ml</u>
<u>1620</u>	<u>5.31</u>	<u>7.33</u>	<u>2.12</u>	<u>0.0</u>	<u>5.10</u>	<u>83</u>			<u>4.95</u>	<u>40</u>
<u>1630</u>	<u>5.28</u>	<u>7.28</u>	<u>2.10</u>	<u>0.6</u>	<u>3.28</u>	<u>80</u>			<u>5.31</u>	<u>40</u>
<u>1640</u>	<u>5.20</u>	<u>7.35</u>	<u>2.06</u>	<u>0.0</u>	<u>2.70</u>	<u>80</u>			<u>5.46</u>	<u>40</u>

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-24  
 Client: SMP Summit Project Name/No.: 2118-0002  
 Project Location: SMP Collected By: KWR  
 Date: 4/27/17 Start Time: 1515 End Time: 1550 Weather: cool  
 Sample Point Type: Well/Piezometer/Other well Casing Type: ster PVC  
 Static DTW (From TOC): 5.85 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2 in  
 Pumping Equipment and Depth Setting: Hocoka  
 Stabilization Testing Equipment Used (Flow Cell Y/N?): Y  
*Calibration data can be found in the project file*

Sample Collection

Sample Collection Method: \_\_\_\_\_

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-24</u>	<u>Amber</u>	<u>2</u>	<u>None</u>	<u>PAH</u>	<u>1545</u>
	<u>40 mL</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	<u>1545</u>

Comments \_\_\_\_\_

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>1520</u>	<u>6.69</u>	<u>7.34</u>	<u>4.50</u>	<u>25.0</u>	<u>0.0</u>	<u>-162</u>			<u>6.98</u>	<u>120</u>
<u>1525</u>	<u>6.41</u>	<u>7.32</u>	<u>4.52</u>	<u>24.1</u>	<u>0.0</u>	<u>-199</u>			<u>8.05</u>	<u>90</u>
<u>1530</u>	<u>6.35</u>	<u>7.31</u>	<u>4.53</u>	<u>24.3</u>	<u>0.0</u>	<u>-210</u>			<u>9.10</u>	<u>90</u>
<u>1535</u>	<u>6.35</u>	<u>7.31</u>	<u>4.53</u>	<u>24.3</u>	<u>0.0</u>	<u>-216</u>			<u>9.65</u>	<u>90</u>
<u>1540</u>	<u>6.44</u>	<u>7.31</u>	<u>4.53</u>	<u>24.3</u>	<u>0.0</u>	<u>-220</u>			<u>10.51</u>	<u>90</u>



SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-5  
 Client: SWLP Summit Project Name/No.: 2118-0002  
 Project Location: Superior WI Collected By: KWR/RLA  
 Date: 4/25/17 Start Time: 1045 End Time: 1050 Weather: cool  
 Sample Point Type: Well/Piezometer/Other Well Casing Type: PVC  
 Static DTW (From TOC): 4.61 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2 Inch  
 Pumping Equipment and Depth Setting: Peristaltic Pump  
 Stabilization Testing Equipment Used (Flow Cell Y/N?): Horiba  
*Calibration data can be found in the project file*

Sample Collection

Sample Collection Method: Grab Sample

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-5-20170425</u>	<u>40 mL Amber</u>	<u>3</u>	<u>None</u>	<u>PAH</u>	<u>1045</u>
<u>4</u>	<u>40 mL</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	<u>1045</u>

Comments 1055 - pump reversed direction

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>Criteria</u>										
<u>1050</u>	<u>9.24</u>	<u>8.43</u>	<u>1.80</u>	<u>22.3</u>	<u>1.458</u>	<u>-231</u>			<u>120</u>	<u>5.52</u>
<u>1100</u>	<u>9.63</u>	<u>8.50</u>	<u>1.55</u>	<u>22.8</u>	<u>0.00</u>	<u>-242</u>			<u>160</u>	<u>5.81</u>
<u>1115</u>	<u>9.85</u>	<u>10.11</u>	<u>1.12</u>	<u>24.0</u>	<u>0.00</u>	<u>-164</u>			<u>160</u>	<u>5.59</u>
<u>1120</u>	<u>9.50</u>	<u>10.17</u>	<u>1.10</u>	<u>21.4</u>	<u>0.00</u>	<u>-193</u>			<u>5.85</u>	<u>160</u>
<u>1125</u>	<u>9.36</u>	<u>10.32</u>	<u>1.07</u>	<u>22.2</u>	<u>0.00</u>	<u>-192</u>			<u>5.9</u>	<u>160</u>



SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-4

Client: SWLP Summit Project Name/No.: 2118-0002

Project Location: Superior WI Collected By: KWR/RLA

Date: 7/28/17 Start Time: 0855 End Time: 0945 Weather: \_\_\_\_\_

Sample Point Type: Well/Piezometer/Other Well Casing Type: PVC

Static DTW (From TOC): 7.66 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2 Inch

Pumping Equipment and Depth Setting: Peristaltic Pump

Stabilization Testing Equipment Used (Flow Cell Y/N?): Horiba

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: Grab Sample

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-4-2070425</u>	<u>40 mL Amber</u>	<u>3</u>	<u>None</u>	<u>PAH</u>	<u>0940</u>
<u>1</u>	<u>40 mL</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	<u>0940</u>

Comments \_\_\_\_\_

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>0900</u>	<u>6.41</u>	<u>13.01</u>	<u>5.56</u>	<u>22.7</u>	<u>2.26</u>	<u>-185</u>			<u>8.01</u>	<u>100</u>
<u>0905</u>	<u>6.11</u>	<u>13.13</u>	<u>5.66</u>	<u>21.8</u>	<u>0.00</u>	<u>-145</u>			<u>8.02</u>	<u>100</u>
<u>0910</u>	<u>6.15</u>	<u>13.14</u>	<u>5.64</u>	<u>20.7</u>	<u>0.00</u>	<u>-162</u>			<u>8.02</u>	<u>100</u>
<u>0915</u>	<u>6.37</u>	<u>13.16</u>	<u>5.64</u>	<u>20.0</u>	<u>0.00</u>	<u>-154</u>				
<u>0920</u>	<u>6.59</u>	<u>13.15</u>	<u>5.62</u>	<u>20.3</u>	<u>0.00</u>	<u>-155</u>				
<u>0930</u>	<u>6.57</u>	<u>13.18</u>	<u>5.60</u>	<u>20.2</u>	<u>0.00</u>	<u>-153</u>				



SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-7  
 Client: SWLP Summit Project Name/No.: 2118-0002  
 Project Location: Superior WI Collected By: KWR/RLA  
 Date: 4/25/17 Start Time: 0745 End Time: \_\_\_\_\_ Weather: Cloudy  
 Sample Point Type: Well/Piezometer/Other \_\_\_\_\_ Well \_\_\_\_\_ Casing Type: PVC  
 Static DTW (From TOC): 1024 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2 Inch  
 Pumping Equipment and Depth Setting: Peristaltic Pump  
 Stabilization Testing Equipment Used (Flow Cell Y/N?): Horiba

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: Grab Sample

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-7-20170425</u>	<u>40 mL Amber</u>	<u>3</u>	<u>None</u>	<u>PAH</u>	<u>0820</u>
<u>11</u>	<u>40 mL</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	<u>0820</u>

Comments \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>Criteria</u>										
<u>750</u>	<u>16.21</u>	<u>6.75</u>	<u>1.35</u>	<u>138</u>	<u>4.46</u>	<u>-125</u>			<u>10.65</u>	<u>100</u>
<u>755</u>	<u>14.29</u>	<u>7.54</u>	<u>1.33</u>	<u>132</u>	<u>0.00</u>	<u>-172</u>			<u>10.65</u>	<u>100</u>
<u>0800</u>	<u>12.79</u>	<u>7.54</u>	<u>1.25</u>	<u>53.8</u>	<u>0.00</u>	<u>-177</u>			<u>10.66</u>	<u>100</u>
<u>0805</u>	<u>11.98</u>	<u>7.53</u>	<u>1.23</u>	<u>43.7</u>	<u>0.00</u>	<u>-180</u>				
<u>0810</u>	<u>11.35</u>	<u>7.49</u>	<u>1.23</u>	<u>41.5</u>	<u>0.00</u>	<u>-182</u>				
<u>0815</u>	<u>10.69</u>	<u>7.53</u>	<u>1.23</u>	<u>42.7</u>	<u>0.00</u>	<u>-184</u>				
<u>0820</u>										

SUMMIT ENVIROSOLUTIONS, INC.

**LOW-FLOW GROUNDWATER SAMPLING INFORMATION**

Sample Point: MW-8

Client: SWLP Summit Project Name/No.: 2118-0002

Project Location: Superior WI Collected By: KWR/RLA

Date: 4/25/17 Start Time: 1620 End Time: 1730 Weather: Cloud

Sample Point Type: Well/Piezometer/Other Well Casing Type: PVC

Static DTW (From TOC): 10.61 Well Depth (From TOC):          Casing Diameter: 2 Inch

Pumping Equipment and Depth Setting: Peristaltic Pump

Stabilization Testing Equipment Used (Flow Cell Y/N?): Horiba

*Calibration data can be found in the project file*

**Sample Collection**

Sample Collection Method: Grab Sample

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW8-20170425</u>	<u>40 mL Amber</u>	<u>3</u>	<u>None</u>	<u>PAH</u>	<u>1520</u>
	<u>40 mL</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	<u>1520</u>

Comments         

**Stabilization Data (continued on reverse)**

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>1630</u>	<u>7.91</u>	<u>7.31</u>	<u>1.90</u>	<u>42.2</u>	<u>0.00</u>	<u>-103</u>			<u>11.19</u>	<u>160</u>
<u>1645</u>	<u>6.64</u>	<u>8.15</u>	<u>1.82</u>	<u>27.1</u>	<u>0.00</u>	<u>-122</u>			<u>11.50</u>	<u>160</u>
<u>1650</u>	<u>6.49</u>	<u>8.64</u>	<u>1.81</u>	<u>28.7</u>	<u>0.00</u>	<u>-155</u>			<u>11.51</u>	<u>160</u>
<u>1835</u>	<u>6.41</u>	<u>9.08</u>	<u>1.71</u>	<u>38.3</u>	<u>0.00</u>	<u>-163</u>				
<u>1700</u>	<u>6.41</u>	<u>8.94</u>	<u>1.71</u>	<u>29.9</u>	<u>0.00</u>	<u>-150</u>				
<u>1705</u>	<u>6.31</u>	<u>8.94</u>	<u>1.71</u>	<u>29.3</u>	<u>0.00</u>	<u>-147</u>				
<u>1710</u>	<u>6.21</u>	<u>8.94</u>	<u>1.70</u>	<u>230.0</u>	<u>0.00</u>	<u>-74</u>				

SUMMIT ENVIROSOLUTIONS, INC.

**LOW-FLOW GROUNDWATER SAMPLING INFORMATION**

Sample Point: MW-9

Client: SWLP Summit Project Name/No.: 2118-0002

Project Location: Superior WI Collected By: KWR/RLA WMLG

Date: 4-25-17 Start Time: \_\_\_\_\_ End Time: \_\_\_\_\_ Weather: \_\_\_\_\_

Sample Point Type: Well/Piezometer/Other Well Casing Type: PVC

Static DTW (From TOC): 7.63 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2 Inch

Pumping Equipment and Depth Setting: Peristaltic Pump

Stabilization Testing Equipment Used (Flow Cell Y/N?): Horiba

*Calibration data can be found in the project file*

**Sample Collection**

Sample Collection Method: Grab Sample

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
	40 mL Amber	<u>3</u>	None	PAH	<u>1430</u>
	40 mL	3	HCL	VOC	

Comments \_\_\_\_\_

**Stabilization Data (continued on reverse)**

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>1400</u>	<u>8.71</u>	<u>6.98</u>	<u>1.13</u>	<u>10.9</u>	<u>10.0</u>	<u>-88</u>			<u>8.25</u>	<u>140</u>
<u>1405</u>	<u>8.72</u>	<u>7.06</u>	<u>1.14</u>	<u>10.9</u>	<u>0</u>	<u>-96</u>			<u>8.08</u>	<u>80</u>
<u>1410</u>	<u>8.72</u>	<u>7.10</u>	<u>1.15</u>	<u>9.3</u>	<u>0</u>	<u>-103</u>			<u>7.96</u>	<u>"</u>
<u>1415</u>	<u>8.73</u>	<u>7.12</u>	<u>1.15</u>	<u>10.2</u>	<u>0</u>	<u>-108</u>				
<u>1420</u>	<u>8.77</u>	<u>7.18</u>	<u>1.15</u>	<u>10.2</u>	<u>0</u>	<u>-125</u>				

SUMMIT ENVIROSOLUTIONS, INC.

**LOW-FLOW GROUNDWATER SAMPLING INFORMATION**

Sample Point: MW-10

Client: SWLP Summit Project Name/No.: 2118-0002

Project Location: Superior WI Collected By: KWR/RLA

Date: 4-25-17 Start Time: \_\_\_\_\_ End Time: \_\_\_\_\_ Weather: \_\_\_\_\_

Sample Point Type: Well/Piezometer/Other Well Casing Type: PVC

Static DTW (From TOC): 2.86 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2 Inch

Pumping Equipment and Depth Setting: Peristaltic Pump

Stabilization Testing Equipment Used (Flow Cell Y/N?): Horiba

*Calibration data can be found in the project file*

**Sample Collection**

Sample Collection Method: Grab Sample

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-10</u>	<u>40 mL Amber</u>	<u>3</u>	<u>None</u>	<u>PAH</u>	<u>1340</u>
	<u>40 mL</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	

Comments black solids in flow

**Stabilization Data (continued on reverse)**

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>120</u>	<u>8.73</u>	<u>6.62</u>	<u>.889</u>	<u>6.1</u>	<u>0</u>	<u>-69</u>	<u>clear</u>		<u>3.71</u>	<u>140</u>
<u>1325</u>	<u>8.60</u>	<u>6.56</u>	<u>.995</u>	<u>7.2</u>	<u>0</u>	<u>-72</u>			<u>3.28</u>	<u>110</u>
<u>1335</u>	<u>8.44</u>	<u>6.55</u>	<u>.897</u>	<u>7.2</u>	<u>0</u>	<u>-79</u>				<u>"</u>
<u>1340</u>	<u>8.42</u>	<u>6.55</u>	<u>.889</u>	<u>9.0</u>	<u>0</u>	<u>-83</u>				<u>"</u>





SUMMIT ENVIROSOLUTIONS, INC.

**LOW-FLOW GROUNDWATER SAMPLING INFORMATION**

Sample Point: MW-12

Client: SWLP Summit Project Name/No.: 2118-0002

Project Location: Superior WI Collected By: KWR/RLA WMG

Date: 4-25-17 Start Time: \_\_\_\_\_ End Time: \_\_\_\_\_ Weather: \_\_\_\_\_

Sample Point Type: Well/Piezometer/Other Well Casing Type: PVC

Static DTW (From TOC): 4.88 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2 Inch

Pumping Equipment and Depth Setting: Peristaltic Pump

Stabilization Testing Equipment Used (Flow Cell Y/N?): Horiba

*Calibration data can be found in the project file*

**Sample Collection**

Sample Collection Method: Grab Sample

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-12</u>	<u>40 mL Amber</u>	<u>2</u>	<u>None</u>	<u>PAH</u>	<u>1040</u>
	<u>40 mL</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	

Comments \_\_\_\_\_

**Stabilization Data (continued on reverse)**

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>1020</u>	<u>7.07</u>	<u>6.76</u>	<u>1.17</u>	<u>23.9</u>	<u>-</u>	<u>-104</u>	<u>clear</u>		<u>5.03</u>	<u>280</u>
<u>1025</u>	<u>6.75</u>	<u>6.72</u>	<u>1.10</u>	<u>32.2</u>	<u>-</u>	<u>-105</u>			<u>5.23</u>	<u>220</u>
<u>1030</u>	<u>6.66</u>	<u>6.72</u>	<u>1.08</u>	<u>40.0</u>	<u>-</u>	<u>-104</u>			<u>5.04</u>	<u>220</u>
<u>1035</u>	<u>6.70</u>	<u>6.71</u>	<u>1.07</u>	<u>39.1</u>	<u>-</u>	<u>-104</u>			<u>5.04</u>	<u>"</u>

SUMMIT ENVIROSOLUTIONS, INC.

**LOW-FLOW GROUNDWATER SAMPLING INFORMATION**

Sample Point: MW13

Client: SWLP Summit Project Name/No.: 2118-0002

Project Location: Superior WI Collected By: KWR/RLA

Date: 4/24/17 Start Time: 1605 End Time: 1715 Weather: \_\_\_\_\_

Sample Point Type: Well/Piezometer/Other Well Casing Type: PVC

Static DTW (From TOC): 4.85 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2 Inch

Pumping Equipment and Depth Setting: Peristaltic Pump

Stabilization Testing Equipment Used (Flow Cell Y/N?): Horiba

*Calibration data can be found in the project file*

**Sample Collection**

Sample Collection Method: Grab Sample

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW13-20170424</u>	<u>40 mL Amber</u>	<u>3</u>	<u>None</u>	<u>PAH</u>	<u>1710</u>
<u>"</u>	<u>40 mL</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	<u>1710</u>

Comments \_\_\_\_\_

**Stabilization Data (continued on reverse)**

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>1605</u>	<u>7.21</u>	<u>7.35</u>	<u>3.78</u>	<u>26.9</u>	<u>0.00</u>	<u>-42</u>			<u>5.01</u>	<u>100</u>
<u>1610</u>	<u>7.00</u>	<u>7.34</u>	<u>3.75</u>	<u>28.2</u>	<u>0.00</u>	<u>-42</u>			<u>5.85</u>	<u>100</u>
<u>1615</u>	<u>6.98</u>	<u>7.30</u>	<u>3.70</u>	<u>28.7</u>	<u>0.00</u>	<u>-42</u>			<u>6.90</u>	<u>100</u>
<u>1620</u>	<u>6.93</u>	<u>7.25</u>	<u>3.67</u>	<u>26.8</u>	<u>0.00</u>	<u>-42</u>			<u>6.95</u>	<u>100</u>
<u>1625</u>	<u>6.63</u>	<u>7.20</u>	<u>3.65</u>	<u>26.4</u>	<u>0.00</u>	<u>-38</u>			<u>7.35</u>	<u>100</u>
<u>1630</u>	<u>6.57</u>	<u>7.14</u>	<u>3.61</u>	<u>26.9</u>	<u>0.00</u>	<u>-27</u>			<u>7.51</u>	<u>100</u>
<u>1635</u>	<u>6.58</u>	<u>7.12</u>	<u>3.57</u>	<u>22.2</u>	<u>0.00</u>	<u>-22</u>			<u>7.91</u>	<u>100</u>





SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-14

Client: SWLP Summit Project Name/No.: 2118-0002

Project Location: Superior WI Collected By: KWR/RLA

Date: 4-25-17 Start Time: 1500 End Time: \_\_\_\_\_ Weather: \_\_\_\_\_

Sample Point Type: Well/Piezometer/Other Well Casing Type: PVC

Static DTW (From TOC): 8.46 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2 Inch

Pumping Equipment and Depth Setting: Peristaltic Pump

Stabilization Testing Equipment Used (Flow Cell Y/N?): Horiba

*Calibration data can be found in the project file*

Sample Collection

Sample Collection Method: Grab Sample

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-14</u>	<u>40 mL Amber</u>	<u>2</u>	<u>None</u>	<u>PAH</u>	<u>1530</u>
	<u>40 mL</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	

Comments \_\_\_\_\_

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>Criteria</u>										
<u>1505</u>	<u>9.69</u>	<u>7.17</u>	<u>3.60</u>	<u>1.3</u>	<u>3.51</u>	<u>-19</u>	<u>clear</u>		<u>9.34</u>	<u>100</u>
<u>1510</u>	<u>7.64</u>	<u>7.14</u>	<u>3.63</u>	<u>1.7</u>	<u>0</u>	<u>-9</u>			<u>10.29</u>	<u>60</u>
<u>1515</u>	<u>9.65</u>	<u>7.14</u>	<u>3.65</u>	<u>1.6</u>	<u>0</u>	<u>-7</u>			<u>10.51</u>	<u>"</u>
<u>1520</u>	<u>9.70</u>	<u>7.15</u>	<u>3.65</u>	<u>2.1</u>	<u>0</u>	<u>-2</u>			<u>10.89</u>	<u>"</u>
<u>1525</u>	<u>9.74</u>	<u>7.11</u>	<u>3.63</u>	<u>2.3</u>	<u>0</u>	<u>-6</u>			<u>11.09</u>	

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-15

Client: SWLP Summit Project Name/No.: 2118-0002

Project Location: Superior WI Collected By: KWR/BA W.M.C.

Date: 4-25-17 Start Time: 1055 End Time: \_\_\_\_\_ Weather: \_\_\_\_\_

Sample Point Type: Well/Piezometer/Other Well Casing Type: PVC

Static DTW (From TOC): 6.20 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2 Inch

Pumping Equipment and Depth Setting: Peristaltic Pump

Stabilization Testing Equipment Used (Flow Cell Y/N?): Horiba

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: Grab Sample

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-15</u>	<u>40 mL Amber</u>	<u>2</u>	<u>None</u>	<u>PAH</u>	<u>1130</u>
	<u>40 mL</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	

Comments \_\_\_\_\_

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>1100</u>									<u>6.57</u>	<u>110</u>
<u>1105</u>	<u>7.87</u>	<u>7.06</u>	<u>0.282</u>	<u>7.3</u>	<u>-</u>	<u>-93</u>	<u>17.6</u>		<u>6.62</u>	<u>110</u>
<u>1110</u>	<u>8.01</u>	<u>7.13</u>	<u>0.280</u>	<u>9.8</u>	<u>-</u>	<u>-102</u>			<u>6.52</u>	<u>110</u>
<u>1115</u>	<u>8.20</u>	<u>7.15</u>	<u>0.275</u>	<u>19.0</u>	<u>-</u>	<u>-104</u>			<u>6.52</u>	<u>110</u>
<u>1120</u>	<u>8.40</u>	<u>7.17</u>	<u>0.274</u>	<u>18.2</u>	<u>-</u>	<u>-105</u>				
<u>1125</u>	<u>8.53</u>	<u>7.18</u>	<u>0.272</u>	<u>17.9</u>	<u>-</u>	<u>-106</u>				

*started higher*

SUMMIT ENVIROSOLUTIONS, INC.

**LOW-FLOW GROUNDWATER SAMPLING INFORMATION**

Sample Point: MW-16

Client: SWLP Summit Project Name/No.: 2118-0002

Project Location: Superior WI Collected By: KWR/RLA WMG

Date: 4-25-17 Start Time: \_\_\_\_\_ End Time: \_\_\_\_\_ Weather: \_\_\_\_\_

Sample Point Type: Well/Piezometer/Other Well Casing Type: PVC

Static DTW (From TOC): 10.31 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2 Inch

Pumping Equipment and Depth Setting: Peristaltic Pump

Stabilization Testing Equipment Used (Flow Cell Y/N?): Horiba

*Calibration data can be found in the project file*

**Sample Collection**

Sample Collection Method: Grab Sample

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-16</u>	40 mL Amber	3	None	PAH	<u>1200</u>
	40 mL	3	HCL	VOC	

Comments \_\_\_\_\_

**Stabilization Data (continued on reverse)**

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>9:30</u>	<u>7.17</u>	<u>6.74</u>	<u>1.31</u>	<u>1.9</u>	<u>0.0</u>	<u>-15</u>	<u>clear</u>		<u>10.43</u>	<u>180</u>
<u>9:35</u>	<u>7.27</u>	<u>6.76</u>	<u>1.31</u>	<u>1.8</u>	<u>0.0</u>	<u>-12</u>			<u>10.43</u>	<u>180</u>
<u>9:40</u>	<u>7.46</u>	<u>6.78</u>	<u>1.31</u>	<u>2.7</u>	<u>0.0</u>	<u>-4</u>			<u>10.44</u>	<u>180</u>
<u>9:45</u>	<u>7.51</u>	<u>6.78</u>	<u>1.32</u>	<u>2.5</u>	<u>0.0</u>	<u>9</u>			<u>10.44</u>	<u>"</u>
<u>9:50</u>	<u>7.60</u>	<u>6.78</u>	<u>1.31</u>	<u>2.0</u>	<u>0</u>	<u>17</u>			<u>10.44</u>	<u>"</u>
<u>7:55</u>	<u>7.62</u>	<u>6.79</u>	<u>1.31</u>	<u>2.0</u>	<u>0</u>	<u>21</u>				

SUMMIT ENVIROSOLUTIONS, INC.

**LOW-FLOW GROUNDWATER SAMPLING INFORMATION**

Sample Point: MW-17

Client: SWLP Summit Project Name/No.: 2118-0002

Project Location: Superior WI Collected By: KWR/RLA

Date: 4-25-17 Start Time: 0830 End Time: \_\_\_\_\_ Weather: \_\_\_\_\_

Sample Point Type: Well/Piezometer/Other Well Casing Type: PVC

Static DTW (From TOC): 7.40 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2 Inch

Pumping Equipment and Depth Setting: Peristaltic Pump

Stabilization Testing Equipment Used (Flow Cell Y/N?): Horiba

*Calibration data can be found in the project file*

**Sample Collection**

Sample Collection Method: Grab Sample

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW 17</u>	40 mL Amber	<u>3</u>	None	PAH	<u>0900</u>
	40 mL	3	HCL	VOC	

Comments \_\_\_\_\_

**Stabilization Data (continued on reverse)**

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria	<u>6.70</u>	<u>6.47</u>								
<u>840</u>	<del>6.25</del>	<del>6.54</del>	<u>1.48</u>	<u>7.5</u>	<u>2.15</u>	<u>-65</u>	<u>clear</u>		<u>7.63</u>	<u>150</u>
<u>845</u>	<u>6.43</u>	<u>6.41</u>	<u>1.49</u>	<u>9.1</u>	<u>0.0</u>	<u>-70</u>			<u>7.58</u>	<u>110</u>
<u>850</u>	<u>6.32</u>	<u>6.41</u>	<u>1.50</u>	<u>8.7</u>	<u>0.0</u>	<u>-73</u>			<u>7.58</u>	<u>110</u>
<u>855</u>	<u>6.27</u>	<u>6.42</u>	<u>1.51</u>	<u>8.7</u>	<u>0.0</u>	<u>-77</u>				



SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-20

Client: SWLP Summit Project Name/No.: 2118-0002

Project Location: Superior WI Collected By: KWR/RLA WPLG

Date: 4-25-17 Start Time: \_\_\_\_\_ End Time: \_\_\_\_\_ Weather: 41° sprinkling rain, windy

Sample Point Type: Well/Piezometer/Other Well Casing Type: PVC

Static DTW (From TOC): 2.71 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2 Inch

Pumping Equipment and Depth Setting: Peristaltic Pump

Stabilization Testing Equipment Used (Flow Cell Y/N?): Horiba

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: Grab Sample

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-20</u>	<u>40 mL Amber</u>	<u>2</u>	<u>None</u>	<u>PAH</u>	<u>1230</u>
	<u>40 mL</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	

Comments water in manifold & was even with TOC - surf. est.

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria					<u>7.4</u>	<u>-80</u>				
<u>1210</u>	<u>8.22</u>	<u>6.97</u>	<u>1.34</u>	<u>3.5</u>	<u>6.4</u>	<u>-88</u>	<u>Clear</u>		<u>2.83</u>	<u>180</u>
<u>1215</u>	<u>7.84</u>	<u>6.85</u>	<u>1.41</u>	<u>3.3</u>	<u>0.0</u>	<u>-101</u>			<u>2.82</u>	<u>180</u>
<u>1220</u>	<u>7.60</u>	<u>6.88</u>	<u>1.42</u>	<u>3.1</u>	<u>0.0</u>	<u>-107</u>				
<u>1225</u>	<u>7.41</u>	<u>6.91</u>	<u>1.42</u>	<u>5.0</u>	<u>0</u>	<u>-111</u>			<u>2.88</u>	<u>180</u>
<u>1230</u>	<u>7.29</u>	<u>6.92</u>	<u>1.43</u>	<u>3.8</u>	<u>0</u>	<u>-115</u>				

SUMMIT ENVIROSOLUTIONS, INC.

**LOW-FLOW GROUNDWATER SAMPLING INFORMATION**

Sample Point: MW-21

Client: SWLP Summit Project Name/No.: 2118-0002

Project Location: Superior WI Collected By: KWR/RLA

Date: 4/25/17 Start Time: 0730 End Time: \_\_\_\_\_ Weather: cold rainy windy CAW

Sample Point Type: Well/Piezometer/Other \_\_\_\_\_ Well \_\_\_\_\_ Casing Type: PVC

Static DTW (From TOC): 8.51 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2 Inch

Pumping Equipment and Depth Setting: Peristaltic Pump

Stabilization Testing Equipment Used (Flow Cell Y/N?): Horiba

*Calibration data can be found in the project file*

**Sample Collection**

Sample Collection Method: Grab Sample

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-21</u>	<u>40 mL Amber</u>	<u>2</u>	<u>None</u>	<u>PAH</u>	<u>0800</u>
	<u>40 mL</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	
<u>MW-21 D</u>	<u>same</u>	<u>same</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>

Comments \_\_\_\_\_

**Stabilization Data (continued on reverse)**

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>Criteria</u>										
<u>735</u>	<u>12.10</u>	<u>6.72</u>	<u>1.31</u>	<u>0.50 ↓</u>	<u>2.01 ↓</u>	<u>-66</u>	<u>lt. brown haze</u>		<u>8.94</u>	<u>110</u>
<u>740</u>	<u>11.21</u>	<u>6.54</u>	<u>1.38</u>	<u>32.2 ↓</u>	<u>1.15</u>	<u>-72</u>			<u>8.75</u>	<u>110</u>
<u>745</u>	<u>10.10</u>	<u>6.52</u>	<u>1.40</u>	<u>28.3</u>	<u>0.92</u>	<u>-72</u>			<u>8.94</u>	
<u>750</u>	<u>9.20</u>	<u>6.50</u>	<u>1.41</u>	<u>23.1</u>	<u>0.79</u>	<u>-73</u>			<u>8.94</u>	
<u>755</u>	<u>8.96</u>	<u>6.51</u>	<u>1.44</u>	<u>22.3</u>	<u>0.76</u>	<u>-73</u>			<u>8.94</u>	
<u>800</u>	<u>8.98</u>	<u>6.50</u>	<u>1.46</u>	<u>22.2</u>	<u>0.74</u>	<u>-73</u>			<u>8.74</u>	<u>↓</u>

SUMMIT ENVIROSOLUTIONS, INC.

**LOW-FLOW GROUNDWATER SAMPLING INFORMATION**

Sample Point: MW-22

Client: SWLP Summit Project Name/No.: 2118-0002

Project Location: Superior WI Collected By: KWR/RLA WRLG

Date: 4-25-17 Start Time: \_\_\_\_\_ End Time: \_\_\_\_\_ Weather: \_\_\_\_\_

Sample Point Type: Well/Piezometer/Other \_\_\_\_\_ Well \_\_\_\_\_ Casing Type: PVC

Static DTW (From TOC): 5.74 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2 Inch

Pumping Equipment and Depth Setting: Peristaltic Pump

Stabilization Testing Equipment Used (Flow Cell Y/N?): Horiba

*Calibration data can be found in the project file*

**Sample Collection**

Sample Collection Method: Grab Sample

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-22</u>	<u>40 mL Amber</u>	<u>3/2</u>	<u>None</u>	<u>PAH</u>	<u>1655</u>
	<u>40 mL</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	

Comments Horiba: sp35iny (1.65)

**Stabilization Data (continued on reverse)**

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>Criteria</u>										
<u>1615</u>	<u>9.15</u>	<u>12.98</u>	<u>9.35</u>	<u>1.3</u>	<u>3.3</u>	<u>-176</u>	<u>clear</u>		<u>5.76</u>	<u>120</u>
<u>1620</u>	<u>9.18</u>	<u>13.01</u>	<u>9.36</u>	<u>1.1</u>	<u>2.9</u>	<u>-174</u>			<u>5.77</u>	<u>120</u>
<u>1625</u>	<u>9.22</u>	<u>13.05</u>	<u>9.40</u>	<u>1.0</u>	<u>2.25</u>	<u>-170</u>			<u>5.72</u>	<u>"</u>
<u>1630</u>	<u>7.32</u>	<u>13.16</u>	<u>9.96</u>	<u>0.9</u>	<u>2.10</u>	<u>-164</u>			<u>5.73</u>	<u>"</u>
<u>1640</u>	<u>6.17</u>	<u>13.25</u>	<u>10.3</u>	<u>0.7</u>	<u>4.6</u>	<u>-158</u>				<u>"</u>
<u>1645</u>	<u>6.05</u>	<u>13.28</u>	<u>10.3</u>	<u>0.7</u>		<u>-145</u>			<u>5.73</u>	<u>"</u>





SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: Mw-23

Client: SWLP Summit Project Name/No.: 2118-0002

Project Location: Superior WI Collected By: KWR/RLA

Date: 4/25/17 Start Time: 1405 End Time: 1445 Weather: cool

Sample Point Type: Well/Piezometer/Other Well Casing Type: PVC

Static DTW (From TOC): 2.69 Well Depth (From TOC):          Casing Diameter: 2 Inch

Pumping Equipment and Depth Setting: Peristaltic Pump

Stabilization Testing Equipment Used (Flow Cell Y/N?): Horiba

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: Grab Sample

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>Mw-27, 20170423</u>	<u>40 mL Amber</u>	<u>3</u>	<u>None</u>	<u>PAH</u>	<u>1440</u>
	<u>40 mL</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	<u><del>1440</del> 1440</u>

Comments         

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>Criteria</u>										
<u>1415</u>	<u>7.13</u>	<u>6.94</u>	<u>2.00</u>	<u>33.8</u>	<u>0.00</u>	<u>-49</u>			<u>2.85</u>	<u>160</u>
<u>1420</u>	<u>7.10</u>	<u>6.93</u>	<u>2.01</u>	<u>29.2</u>	<u>0.00</u>	<u>-51</u>			<u>2.83</u>	<u>160</u>
<u>1425</u>	<u>7.11</u>	<u>6.93</u>	<u>2.02</u>	<u>27.7</u>	<u>0.00</u>	<u>-52</u>			<u>2.83</u>	<u>160</u>
<u>1430</u>	<u>7.15</u>	<u>6.92</u>	<u>2.02</u>	<u>27.4</u>	<u>0.00</u>	<u>-53</u>				
<u>1435</u>	<u>7.16</u>	<u>6.92</u>	<u>2.02</u>	<u>27.4</u>	<u>0.00</u>	<u>-54</u>				



SUMMIT ENVIROSOLUTIONS, INC.

**LOW-FLOW GROUNDWATER SAMPLING INFORMATION**

Sample Point: MW-25  
 Client: SWLP Summit Project Name/No.: 2118-0002  
 Project Location: Superior WI Collected By: KWR/RLA  
 Date: 4/24/17 Start Time: 0750 End Time: 0830 Weather: Cold  
 Sample Point Type: Well/Piezometer/Other Well Casing Type: PVC  
 Static DTW (From TOC): 1.42 Well Depth (From TOC):          Casing Diameter: 2 Inch  
 Pumping Equipment and Depth Setting: Peristaltic Pump  
 Stabilization Testing Equipment Used (Flow Cell Y/N?): Horiba  
*Calibration data can be found in the project file*

**Sample Collection**

Sample Collection Method: Grab Sample

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-25.20170426</u>	<u>40 mL Amber</u>	<u>3</u>	<u>None</u>	<u>PAH</u>	<u>0820</u>
<u>«</u>	<u>40 mL</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	<u>0820</u>

Comments \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Stabilization Data (continued on reverse)**

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>Criteria</u>				<u>38.4</u>						
<u>0800</u>	<u>3.01</u>	<u>6.50</u>	<u>3.89</u>	<u>38.4</u>	<u>0.00</u>	<u>-140</u>			<u>1.42</u>	<u>120</u>
<u>0805</u>	<u>3.00</u>	<u>6.55</u>	<u>3.78</u>	<u>38.7</u>	<u>0.00</u>	<u>-144</u>				
<u>0810</u>	<u>2.98</u>	<u>6.54</u>	<u>3.80</u>	<u>38.4</u>	<u>0.00</u>	<u>-143</u>				
<u>0815</u>	<u>2.98</u>	<u>6.52</u>	<u>3.82</u>	<u>39.3</u>	<u>0.00</u>	<u>-142</u>				





SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-1  
 Client: Superior SWLP Summit Project Name/No.: Stat 2118-0002  
 Project Location: Superior Collected By: KWR  
 Date: 1/25/16 Start Time: 11:15 S End Time: \_\_\_\_\_ Weather: Cold

Sample Point Type: Well/Piezometer/Other well Casing Type: Plastic  
 Static DTW (From TOC): 5.78 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2

Purging Method: Low flow  
 Field Testing Equipment Used: Horiba

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: Grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-1-20170125	40ml vial	2	-	PEH	1300
"	"	3	170L	VOC	1300

Duplicate collected Duplicate ID# \_\_\_\_\_

Comments \_\_\_\_\_

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria					0.00					
1200	50.2	7.31	2.35	2.3	3.40	38	-	-	120	6.55
1205	50.9	7.30	2.35	2.7	2.35	39	-	-		7.32
1210	50.7	7.32	2.35	2.5	2.35	36	-	-		8.01
1215	50.9	7.33	2.34	1.9	0.00	35				9.24



SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-2  
 Client: SWLP Summit Project Name/No.: 2118-0008  
 Project Location: Superior Collected By: Kurr  
 Date: 11/25/17 Start Time: 1035 End Time: \_\_\_\_\_ Weather: cold  
 Sample Point Type: Well/Piezometer/Other well Casing Type: plastic  
 Static DTW (From TOC): 2.675 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2.1

Purging Method: low flow  
 Field Testing Equipment Used: Horiba  
 Calibration data can be found in the project file

Sample Collection

Sample Collection Method: Grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-2 20170125	40mL Vial	2	-	PAH	1145
" "	" "	3	HCL	VOC	1145

Duplicate collected Duplicate ID# \_\_\_\_\_

Comments \_\_\_\_\_

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria	<del>7.4</del>									
1045	6.70	7.45	1.81	0.0	1.93	21	clr	-	7.45	180
1050	6.71	7.35	1.80	0.1	0.51	26	clr	-	9.25	180
1055	6.51	7.34	1.80	0.3	0.00	20	clcc	-	10.21	170
1100	6.26	7.32	1.40	4.6	0.00	27	clcc	-	10.91	170





SUMMIT ENVIROSOLUTIONS, INC.

**LOW-FLOW GROUNDWATER SAMPLING INFORMATION**

Sample Point: MW-4  
 Client: SWLP Summit Project Name/No.: 2118-0002  
 Project Location: Superior Collected By: KWR  
 Date: 1/25/17 Start Time: 0925 End Time: \_\_\_\_\_ Weather: cold

Sample Point Type: Well/Piezometer/Other well Casing Type: plastic  
 Static DTW (From TOC): 6.65 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2.1

Purging Method: Low flow  
 Field Testing Equipment Used: Horba

*Calibration data can be found in the project file*

**Sample Collection**

Sample Collection Method: Low flow Cold

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-4-20170125	40ML VOLT	2	-	PAH	0945
" "	" "	3	HCL	VOC	0945

Duplicate collected Duplicate ID# \_\_\_\_\_

Comments \_\_\_\_\_

**Stabilization Data (continued on reverse)**

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										
0930	4.87	7.31	3.96	143	0.00	-74			8.65	180
0935	4.84	7.31	3.94	141	0.00	-77			9.71	180
0940	4.79	7.30	3.92	140	0.00	-81			10.3	180



SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: Mw-5  
 Client: SWLP Summit Project Name/No.: 2118-0002  
 Project Location: Superior Collected By: Kmr  
 Date: 1/24/17 Start Time: 1025 End Time: \_\_\_\_\_ Weather: cloud  
 Sample Point Type: Well/Piezometer/Other well Casing Type: plastic  
 Static DTW (From TOC): 10.08 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2

Purging Method: Low flow  
 Field Testing Equipment Used: Horiba

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: Grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
Mw-5-20170124	4UMVVDH	2	-	<del>VOC</del> PAH	1125
11	11	5	HCL	VOC	1125

Duplicate collected Duplicate ID# \_\_\_\_\_

Comments \_\_\_\_\_

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										
1030	7.60	7.75	1.71	0.00	0.00	-151	clear	slight	10.10	250
1035	7.43	7.65	1.72	0.0	0.00	-179	-	-	10.31	180
1040	7.34	7.55	1.72	0.0	0.00	-171	clear	-	10.45	180
1045	7.41	7.47	1.67	0.0	0.00	-177			10.65	150





**LOW-FLOW GROUNDWATER SAMPLING INFORMATION**

Sample Point: MW-C  
 Client: ESLP Summit Project Name/No.: 2118-0002  
 Project Location: Superior WI Collected By: KWR  
 Date: 1/24/17 Start Time: 0945 End Time: \_\_\_\_\_ Weather: cloud

Sample Point Type: Well Piezometer/Other \_\_\_\_\_ Casing Type: Plastic  
 Static DTW (From TOC): 9.89 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2 in

Purging Method: Low Flow  
 Field Testing Equipment Used: Horiba

*Calibration data can be found in the project file*

**Sample Collection**

Sample Collection Method: grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>RWMW-6-20170124</u>	<u>40ml VOA</u>	<u>2</u>	<u>-</u>	<u>PAH</u>	<u>1005</u>
<u>4</u>	<u>11</u>	<u>3</u>	<u>Hel</u>	<u>VOA</u>	<u>1005</u>

Duplicate collected Duplicate ID# \_\_\_\_\_

Comments \_\_\_\_\_

**Stabilization Data (continued on reverse)**

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>Criteria</u>										
<u>0950</u>	<u>5.70</u>	<u>12.12</u>	<u>4.33</u>	<u>0.0</u>	<u>0.00</u>	<u>-221</u>		<u>slight</u>	<u>200</u>	<u>10.50</u>
<u>0955</u>	<u>5.60</u>	<u>12.16</u>	<u>4.36</u>	<u>0.0</u>	<u>0.00</u>	<u>-221</u>		<u>slight</u>	<u>200</u>	<u>10.82</u>
<u>1000</u>	<u>5.34</u>	<u>12.22</u>	<u>4.42</u>	<u>0.0</u>	<u>0.00</u>	<u>-221</u>		<u>slight</u>	<u>200</u>	<u>10.91</u>
<u>1005</u>	<u>5.11</u>	<u>12.27</u>	<u>4.44</u>	<u>0.0</u>	<u>0.00</u>	<u>-220</u>		<u>-</u>	<u>200</u>	<u>10.08</u>



SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: Mw-7  
 Client: SWLP Summit Project Name/No.: 2118-0002  
 Project Location: Superior Collected By: KWR  
 Date: 1/24/17 Start Time: 0745 End Time: \_\_\_\_\_ Weather: cloud

Sample Point Type: Well/Piezometer/Other well Casing Type: p/195  
 Static DTW (From TOC): 12 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2.4  
11.97

Purging Method: low flow  
 Field Testing Equipment Used: Horiba

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: \_\_\_\_\_

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
RW7_20170124	40ML Vials	2	-	PAH	0915
" "	" "	3	HCL	VOC	0915

Duplicate collected Duplicate ID# \_\_\_\_\_

Comments \_\_\_\_\_

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
0815	11.07	7.18	1.41	20.9	1.09	-101	clear	None	12.65	200
0820	10.41	7.12	1.41	8.0	0.24	-128			12.65	200
0825	9.89	7.15	1.31	1.4	0.00	-139			12.65	200
0830	9.38	7.19	1.24	0.0	0.00	-145			12.65	200





SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: Mw10  
 Client: SWLF Summit Project Name/No.: 2118-0002  
 Project Location: Superior Collected By: KWR  
 Date: 1/25/17 Start Time: 1355 End Time: \_\_\_\_\_ Weather: cold

Sample Point Type: Well/Piezometer/Other well Casing Type: plastic  
 Static DTW (From TOC): 2.72 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2 in

Purging Method: Low flow  
 Field Testing Equipment Used: Horiba

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: Grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
Mw10 20170125	40mL Vial	2	<del>ICE</del>	PAH	
"	"	3	HCL	VOC	

Duplicate collected Duplicate ID# \_\_\_\_\_

Comments \_\_\_\_\_

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										140
1400	10.30	7.05	1.23	42.0	0.00	-128			4.75	140
1405	9.67	6.09	1.23	42.3	0.00	-60				200
1410	8.83	5.99	1.25	45.3	0.00	-44			4.85	200
1415	8.40	6.05	1.24	23.3	0.00	-53				



SUMMIT ENVIROSOLUTIONS, INC.

**LOW-FLOW GROUNDWATER SAMPLING INFORMATION**

Sample Point: well  
 Client: SULP Summit Project Name/No.: 2118-0002  
 Project Location: Superior Collected By: KWR  
 Date: 1/24/18 Start Time: 1145 End Time: \_\_\_\_\_ Weather: \_\_\_\_\_

Sample Point Type: Well/Piezometer/Other well Casing Type: plastic  
 Static DTW (From TOC): 7.37 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2.3

Purging Method: low flow  
 Field Testing Equipment Used: Horiba

*Calibration data can be found in the project file*

**Sample Collection**

Sample Collection Method: Grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-11-20170124	40mL VOB	2	-	PAT	1300
11	11	3	HeL	VOC	1300

Duplicate collected Duplicate ID# \_\_\_\_\_

Comments \_\_\_\_\_

**Stabilization Data (continued on reverse)**

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria	-									
1150	7.77	6.91	0.988	211	0.00	-157	clear	slight	7.45	200
1155	7.42	6.56	0.993	158	0.00	-120	-	-	7.43	200
1200	7.37	6.53	0.995	129	0.00	-116	-	-	7.44	
1205	7.37	6.51	0.944	123	0.0	-113	-	-	7.43	

950





SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-13  
 Client: SWIP Summit Project Name/No.: 2118-0002  
 Project Location: Superior WI Collected By: Kwon  
 Date: 1/25/17 Start Time: 0845 End Time: \_\_\_\_\_ Weather: Cold

Sample Point Type: Well/Piezometer/Other well Casing Type: plastic  
 Static DTW (From TOC): 528 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2.7

Purging Method: low flow  
 Field Testing Equipment Used: Horby

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: Grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-13 20170125	40 mL VOA	2	-	PHA	0910
		3	HC	VOC	0910

Duplicate collected Duplicate ID# \_\_\_\_\_

Comments \_\_\_\_\_

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										
0850	5.56	7.09	3.59	0.0	0.00	-29	clear	-	6.59	<del>200</del> 280
0855	5.43	6.99	3.68	0.0	0.00	-26	clear	-	7.34	120
0900	5.46	7.01	3.60	0.0	0.00	-23	clear	-	7.62	120
0905	5.45	6.98	3.55	0.0	0.00	-20	clear	-	7.98	120



SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: Mw-23  
 Client: SWLP Summit Project Name/No.: 2118-0002  
 Project Location: Superior Collected By: Kur  
 Date: 11/24/17 Start Time: 1310 End Time: \_\_\_\_\_ Weather: cloud

Sample Point Type: Well/Piezometer/Other well Casing Type: plastic  
 Static DTW (From TOC) 13.40 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2.4

Purging Method: low flow  
 Field Testing Equipment Used: Horiba

Calibration data can be found in the project file

Co-cap Sample Collection

Sample Collection Method: \_\_\_\_\_

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
Mw-23-2017024	40ML VOA	2		PAH	1345
11	" "	3	ICL	VOC	1345

Duplicate collected Duplicate ID# \_\_\_\_\_

Comments \_\_\_\_\_

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										
1320	7.79	6.57	1.93	30.4	0.00	-73			3.71	280
1325	8.26	6.56	1.92	0.0	0.00	-89			3.71	280
1330	8.34	6.57	1.91	0.0	0.00	-86			3.71	280
1335	8.38	6.57	1.90	0.0	0.00	-90			-	-





SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-24  
 Client: Sulf Summit Project Name/No.: 2118-0002  
 Project Location: Superior Collected By: Kurt  
 Date: 1/24/16 Start Time: 1400 End Time: 1520 Weather: cold  
 Sample Point Type: Well/Piezometer/Other well ~~well~~ Casing Type: plastic  
 Static DTW (From TOC): 308 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2.5

Purging Method: low flow  
 Field Testing Equipment Used: Horiba

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: Grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-24-20170124	40mL VOA	2	-	PAH	1515
"	40mL VOA	3	HCL	VOC	1515

Duplicate collected Duplicate ID# \_\_\_\_\_

Comments \_\_\_\_\_

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria			3.69							
1405	7.70	6.36	4.4	52.9	0.00	-44			3.22	200
1410	7.59	6.36	3.69	49.8	0.00	-44			3.70	200
1415	7.48	6.36	3.70	45.9	0.00	-45			3.72	200
1420	7.33	6.35	3.71	40.2	0.00	-47			3.72	200



**LOW-FLOW GROUNDWATER SAMPLING INFORMATION**

Sample Point: MW-85  
 Client: ESWLP Summit Project Name/No.: 2118-0002  
 Project Location: Superior WT Collected By: Kur  
 Date: 1/24/17 Start Time: 1520 End Time: 1655 Weather: cloud

Sample Point Type: Well/Piezometer/Other well Casing Type: 8 plastic  
 Static DTW (From TOC): 32.87 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2

Purging Method: low flow  
 Field Testing Equipment Used: Horiba

Calibration data can be found in the project file

**Sample Collection**

Sample Collection Method: Grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-85-20170124	40mL VOA	2	<del>REF</del>	PFA	1655
	40mL VOA	3	HCL	VOL	1655

Duplicate collected Duplicate ID# \_\_\_\_\_

Comments \_\_\_\_\_

**Stabilization Data (continued on reverse)**

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										100
1530	6.52	6.08	3.80	7.00	0.00	-70			31.01	100
1535	6.38	6.08	3.83	0.0	0.00	-86			31.81	100
1540	6.84	6.06	3.84	0.0	0.00	-88			31.95	100
1545	6.06	6.12	3.73	0.00	0.00	-85			31.95	





SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: Mw-24  
 Client: SWP Summit Project Name/No.: 2118-0002  
 Project Location: Superior Collected By: kwn  
 Date: 1/25/17 Start Time: 0735 End Time: \_\_\_\_\_ Weather: Cloud

Sample Point Type: Well/Piezometer/Other well Casing Type: 8" plastic  
 Static DTW (From TOC): ~~8.82~~ 8.82 Well Depth (From TOC): \_\_\_\_\_ Casing Diameter: 2.7

Purging Method: low flow  
 Field Testing Equipment Used: hanna

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: Coiled

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
Mw-24-20170125	240ml vial	2	☉ -	PAH	0830
4	11	3	☉ Hcl	VOC	0830

Duplicate collected Duplicate ID# \_\_\_\_\_

Comments \_\_\_\_\_

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
0745	11.37	7.77	0.532	24.5	0.00	-65	clear	-	8.82	400
0750	10.09	7.92	0.543	17.3	0.00	-99	clear	-	8.83	400
0755	9.03	8.02	0.545	1.5	0.00	-125	clear	-	8.83	400
0800	8.25	8.04	0.535	0.6	0.00	-140	-	-	8.85	400



## **Appendix E**

### **Soil Analytical Reports**

January 12, 2017

Bill Gregg  
Summit Envirosolutions  
1217 Bandana Blvd  
Saint Paul, MN 55108

RE: Project: 2118-0002 Superior MGP\_REV  
Pace Project No.: 10373134

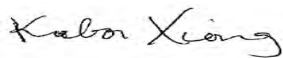
Dear Bill Gregg:

Enclosed are the analytical results for sample(s) received by the laboratory on December 13, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised on January 12, 2017 to change report format per client's request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kabor Xiong  
kabor.xiong@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

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### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

525 N 8th Street, Salina, KS 67401

Alaska Certification UST-107

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN\_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10373134001	GP5_10-12	Solid	12/12/16 14:10	12/13/16 17:25
10373134002	GP6_3-5	Solid	12/12/16 14:30	12/13/16 17:25
10373134003	GP6_8-10	Solid	12/12/16 14:35	12/13/16 17:25
10373134004	GP6_13-15	Solid	12/12/16 14:40	12/13/16 17:25
10373134005	GP7_3-5	Solid	12/12/16 15:00	12/13/16 17:25
10373134006	GP7_8-10	Solid	12/12/16 15:05	12/13/16 17:25
10373134007	GP7_10-12	Solid	12/12/16 15:10	12/13/16 17:25
10373134008	GP8_3-5	Solid	12/12/16 18:20	12/13/16 17:25
10373134009	GP8_8-10	Solid	12/12/16 15:25	12/13/16 17:25
10373134010	GP8_13-15	Solid	12/12/16 15:30	12/13/16 17:25
10373134011	GP9_3-5	Solid	12/12/16 16:00	12/13/16 17:25
10373134012	GP9_5-7	Solid	12/12/16 16:05	12/13/16 17:25
10373134013	GP1_3-5	Solid	12/12/16 12:00	12/13/16 17:25
10373134014	GP1_5-10	Solid	12/12/16 12:05	12/13/16 17:25
10373134015	GP1_10-12	Solid	12/12/16 12:10	12/13/16 17:25
10373134016	GP2_3-5	Solid	12/12/16 12:30	12/13/16 17:25
10373134017	GP2_8-10	Solid	12/12/16 12:35	12/13/16 17:25
10373134018	GP2_13-15	Solid	12/12/16 12:40	12/13/16 17:25
10373134019	GP3_0-4	Solid	12/12/16 13:00	12/13/16 17:25
10373134020	GP4_3-5	Solid	12/12/16 13:15	12/13/16 17:25
10373134021	GP4_5-7	Solid	12/12/16 13:20	12/13/16 17:25
10373134022	GP4_13-15	Solid	12/12/16 13:25	12/13/16 17:25
10373134023	GP5_4-5	Solid	12/12/16 14:00	12/13/16 17:25
10373134024	GP5_5-7	Solid	12/12/16 14:05	12/13/16 17:25
10373134025	GP4_10-12	Solid	12/12/16 16:10	12/13/16 17:25
10373134026	GP4_5-7D	Solid	12/12/16 15:20	12/13/16 17:25
10373134027	GP5_5-7D	Solid	12/12/16 14:05	12/13/16 17:25
10373134028	SB001_1-4	Solid	12/12/16 16:00	12/13/16 17:25
10373134029	SB001_12-15	Solid	12/12/16 16:15	12/13/16 17:25
10373134030	SB001_17.5-20	Solid	12/12/16 00:00	12/13/16 17:25
10373134031	Trip Blank	Solid	12/12/16 00:00	12/13/16 17:25

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10373134001	GP5_10-12	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373134002	GP6_3-5	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373134003	GP6_8-10	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373134004	GP6_13-15	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373134005	GP7_3-5	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373134006	GP7_8-10	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373134007	GP7_10-12	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373134008	GP8_3-5	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373134009	GP8_8-10	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373134010	GP8_13-15	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373134011	GP9_3-5	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373134012	GP9_5-7	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373134013	GP1_3-5	ASTM D2974	JDL	1	PASI-M

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### SAMPLE ANALYTE COUNT

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10373134014	GP1_5-10	EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373134015	GP1_10-12	EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373134016	GP2_3-5	EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373134017	GP2_8-10	EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373134018	GP2_13-15	EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373134019	GP3_0-4	EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373134020	GP4_3-5	EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373134021	GP4_5-7	EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373134022	GP4_13-15	EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373134023	GP5_4-5	EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373134024	GP5_5-7	EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373134025	GP4_10-12	EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M

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### SAMPLE ANALYTE COUNT

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10373134026	GP4_5-7D	EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373134027	GP5_5-7D	EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373134028	SB001_1-4	EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373134029	SB001_12-15	EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
10373134030	SB001_17.5-20	EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373134031	Trip Blank	EPA 8260B	MRB	70	PASI-M
		EPA 8260B	MRB	70	PASI-M

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP5\_10-12** Lab ID: **10373134001** Collected: 12/12/16 14:10 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	22.5	%	0.10	0.10	1		12/27/16 12:09		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.50	1	12/14/16 11:14	12/20/16 13:01	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.35	1	12/14/16 11:14	12/20/16 13:01	208-96-8	
Anthracene	<1.9	ug/kg	1.9	0.58	1	12/14/16 11:14	12/20/16 13:01	120-12-7	
Benzo(a)anthracene	<2.0	ug/kg	2.0	0.60	1	12/14/16 11:14	12/20/16 13:01	56-55-3	
Benzo(a)pyrene	<1.5	ug/kg	1.5	0.44	1	12/14/16 11:14	12/20/16 13:01	50-32-8	
Benzo(b)fluoranthene	<2.4	ug/kg	2.4	0.73	1	12/14/16 11:14	12/20/16 13:01	205-99-2	
Benzo(g,h,i)perylene	<2.0	ug/kg	2.0	0.59	1	12/14/16 11:14	12/20/16 13:01	191-24-2	
Benzo(k)fluoranthene	<2.1	ug/kg	2.1	0.63	1	12/14/16 11:14	12/20/16 13:01	207-08-9	
Chrysene	<2.4	ug/kg	2.4	0.71	1	12/14/16 11:14	12/20/16 13:01	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.42	1	12/14/16 11:14	12/20/16 13:01	53-70-3	
Fluoranthene	<3.3	ug/kg	3.3	1.0	1	12/14/16 11:14	12/20/16 13:01	206-44-0	
Fluorene	<1.6	ug/kg	1.6	0.49	1	12/14/16 11:14	12/20/16 13:01	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.2	ug/kg	3.2	0.96	1	12/14/16 11:14	12/20/16 13:01	193-39-5	
Naphthalene	<1.5	ug/kg	1.5	0.46	1	12/14/16 11:14	12/20/16 13:01	91-20-3	
Phenanthrene	<1.7	ug/kg	1.7	0.52	1	12/14/16 11:14	12/20/16 13:01	85-01-8	
Pyrene	<3.5	ug/kg	3.5	1.1	1	12/14/16 11:14	12/20/16 13:01	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	77	%	41-125		1	12/14/16 11:14	12/20/16 13:01	321-60-8	
p-Terphenyl-d14 (S)	86	%	39-125		1	12/14/16 11:14	12/20/16 13:01	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<13600	ug/kg	13600	4080	10	12/14/16 10:09	12/15/16 13:50	67-64-1	
Allyl chloride	<1780	ug/kg	1780	533	10	12/14/16 10:09	12/15/16 13:50	107-05-1	
Benzene	65500	ug/kg	179	53.7	10	12/14/16 10:09	12/15/16 13:50	71-43-2	
Bromobenzene	<530	ug/kg	530	159	10	12/14/16 10:09	12/15/16 13:50	108-86-1	
Bromochloromethane	<617	ug/kg	617	185	10	12/14/16 10:09	12/15/16 13:50	74-97-5	
Bromodichloromethane	<579	ug/kg	579	174	10	12/14/16 10:09	12/15/16 13:50	75-27-4	
Bromoform	<1780	ug/kg	1780	536	10	12/14/16 10:09	12/15/16 13:50	75-25-2	
Bromomethane	<2100	ug/kg	2100	630	10	12/14/16 10:09	12/15/16 13:50	74-83-9	
2-Butanone (MEK)	<2730	ug/kg	2730	820	10	12/14/16 10:09	12/15/16 13:50	78-93-3	
n-Butylbenzene	<501	ug/kg	501	150	10	12/14/16 10:09	12/15/16 13:50	104-51-8	
sec-Butylbenzene	<488	ug/kg	488	147	10	12/14/16 10:09	12/15/16 13:50	135-98-8	
tert-Butylbenzene	<654	ug/kg	654	196	10	12/14/16 10:09	12/15/16 13:50	98-06-6	
Carbon tetrachloride	<650	ug/kg	650	195	10	12/14/16 10:09	12/15/16 13:50	56-23-5	
Chlorobenzene	<360	ug/kg	360	108	10	12/14/16 10:09	12/15/16 13:50	108-90-7	
Chloroethane	<3270	ug/kg	3270	982	10	12/14/16 10:09	12/15/16 13:50	75-00-3	
Chloroform	<1010	ug/kg	1010	302	10	12/14/16 10:09	12/15/16 13:50	67-66-3	
Chloromethane	<1000	ug/kg	1000	301	10	12/14/16 10:09	12/15/16 13:50	74-87-3	
2-Chlorotoluene	<571	ug/kg	571	171	10	12/14/16 10:09	12/15/16 13:50	95-49-8	
4-Chlorotoluene	<542	ug/kg	542	163	10	12/14/16 10:09	12/15/16 13:50	106-43-4	
1,2-Dibromo-3-chloropropane	<1210	ug/kg	1210	1210	10	12/14/16 10:09	12/15/16 13:50	96-12-8	
Dibromochloromethane	<1780	ug/kg	1780	533	10	12/14/16 10:09	12/15/16 13:50	124-48-1	L2

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP5\_10-12**      **Lab ID: 10373134001**      Collected: 12/12/16 14:10      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<234	ug/kg	234	234	10	12/14/16 10:09	12/15/16 13:50	106-93-4	
Dibromomethane	<807	ug/kg	807	242	10	12/14/16 10:09	12/15/16 13:50	74-95-3	
1,2-Dichlorobenzene	<120	ug/kg	120	120	10	12/14/16 10:09	12/15/16 13:50	95-50-1	
1,3-Dichlorobenzene	<183	ug/kg	183	120	10	12/14/16 10:09	12/15/16 13:50	541-73-1	
1,4-Dichlorobenzene	<600	ug/kg	600	180	10	12/14/16 10:09	12/15/16 13:50	106-46-7	
Dichlorodifluoromethane	<633	ug/kg	633	190	10	12/14/16 10:09	12/15/16 13:50	75-71-8	CL
1,1-Dichloroethane	<241	ug/kg	241	241	10	12/14/16 10:09	12/15/16 13:50	75-34-3	
1,2-Dichloroethane	<196	ug/kg	196	196	10	12/14/16 10:09	12/15/16 13:50	107-06-2	
1,1-Dichloroethene	<158	ug/kg	158	158	10	12/14/16 10:09	12/15/16 13:50	75-35-4	
cis-1,2-Dichloroethene	<770	ug/kg	770	231	10	12/14/16 10:09	12/15/16 13:50	156-59-2	
trans-1,2-Dichloroethene	<997	ug/kg	997	299	10	12/14/16 10:09	12/15/16 13:50	156-60-5	
Dichlorofluoromethane	<5670	ug/kg	5670	1700	10	12/14/16 10:09	12/15/16 13:50	75-43-4	
1,2-Dichloropropane	<215	ug/kg	215	215	10	12/14/16 10:09	12/15/16 13:50	78-87-5	
1,3-Dichloropropane	<741	ug/kg	741	222	10	12/14/16 10:09	12/15/16 13:50	142-28-9	
2,2-Dichloropropane	<658	ug/kg	658	198	10	12/14/16 10:09	12/15/16 13:50	594-20-7	
1,1-Dichloropropene	<188	ug/kg	188	188	10	12/14/16 10:09	12/15/16 13:50	563-58-6	
cis-1,3-Dichloropropene	<943	ug/kg	943	283	10	12/14/16 10:09	12/15/16 13:50	10061-01-5	
trans-1,3-Dichloropropene	<703	ug/kg	703	211	10	12/14/16 10:09	12/15/16 13:50	10061-02-6	
Diethyl ether (Ethyl ether)	<852	ug/kg	852	256	10	12/14/16 10:09	12/15/16 13:50	60-29-7	
Ethylbenzene	<658	ug/kg	658	198	10	12/14/16 10:09	12/15/16 13:50	100-41-4	
Hexachloro-1,3-butadiene	<1940	ug/kg	1940	584	10	12/14/16 10:09	12/15/16 13:50	87-68-3	
Isopropylbenzene (Cumene)	<737	ug/kg	737	221	10	12/14/16 10:09	12/15/16 13:50	98-82-8	
p-Isopropyltoluene	<343	ug/kg	343	103	10	12/14/16 10:09	12/15/16 13:50	99-87-6	
Methylene Chloride	<3830	ug/kg	3830	1150	10	12/14/16 10:09	12/15/16 13:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1370	ug/kg	1370	411	10	12/14/16 10:09	12/15/16 13:50	108-10-1	
Methyl-tert-butyl ether	<387	ug/kg	387	116	10	12/14/16 10:09	12/15/16 13:50	1634-04-4	
Naphthalene	<501	ug/kg	501	150	10	12/14/16 10:09	12/15/16 13:50	91-20-3	
n-Propylbenzene	<617	ug/kg	617	185	10	12/14/16 10:09	12/15/16 13:50	103-65-1	
Styrene	<538	ug/kg	538	162	10	12/14/16 10:09	12/15/16 13:50	100-42-5	
1,1,1,2-Tetrachloroethane	<246	ug/kg	246	246	10	12/14/16 10:09	12/15/16 13:50	630-20-6	
1,1,1,2,2-Tetrachloroethane	205	ug/kg	138	138	10	12/14/16 10:09	12/15/16 13:50	79-34-5	
Tetrachloroethene	<790	ug/kg	790	237	10	12/14/16 10:09	12/15/16 13:50	127-18-4	
Tetrahydrofuran	<10300	ug/kg	10300	3080	10	12/14/16 10:09	12/15/16 13:50	109-99-9	
Toluene	<658	ug/kg	658	198	10	12/14/16 10:09	12/15/16 13:50	108-88-3	
1,2,3-Trichlorobenzene	<179	ug/kg	179	179	10	12/14/16 10:09	12/15/16 13:50	87-61-6	
1,2,4-Trichlorobenzene	<191	ug/kg	191	191	10	12/14/16 10:09	12/15/16 13:50	120-82-1	
1,1,1-Trichloroethane	<260	ug/kg	260	260	10	12/14/16 10:09	12/15/16 13:50	71-55-6	
1,1,2-Trichloroethane	<134	ug/kg	134	134	10	12/14/16 10:09	12/15/16 13:50	79-00-5	
Trichloroethene	<592	ug/kg	592	178	10	12/14/16 10:09	12/15/16 13:50	79-01-6	
Trichlorofluoromethane	<2080	ug/kg	2080	624	10	12/14/16 10:09	12/15/16 13:50	75-69-4	
1,2,3-Trichloropropane	<644	ug/kg	644	644	10	12/14/16 10:09	12/15/16 13:50	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1490	ug/kg	1490	447	10	12/14/16 10:09	12/15/16 13:50	76-13-1	
1,2,4-Trimethylbenzene	<137	ug/kg	137	137	10	12/14/16 10:09	12/15/16 13:50	95-63-6	
1,3,5-Trimethylbenzene	<476	ug/kg	476	143	10	12/14/16 10:09	12/15/16 13:50	108-67-8	
Vinyl chloride	<266	ug/kg	266	79.8	10	12/14/16 10:09	12/15/16 13:50	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP5\_10-12**      **Lab ID: 10373134001**      Collected: 12/12/16 14:10      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>&lt;1660</b>	ug/kg	1660	497	10	12/14/16 10:09	12/15/16 13:50	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	89	%	75-129		10	12/14/16 10:09	12/15/16 13:50	17060-07-0	
Toluene-d8 (S)	97	%	75-125		10	12/14/16 10:09	12/15/16 13:50	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		10	12/14/16 10:09	12/15/16 13:50	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: GP6\_3-5 Lab ID: 10373134002 Collected: 12/12/16 14:30 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	26.4	%	0.10	0.10	1		12/27/16 12:09		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.8	ug/kg	1.8	0.53	1	12/14/16 11:14	12/20/16 13:22	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.37	1	12/14/16 11:14	12/20/16 13:22	208-96-8	
Anthracene	<2.1	ug/kg	2.1	0.62	1	12/14/16 11:14	12/20/16 13:22	120-12-7	
Benzo(a)anthracene	<2.1	ug/kg	2.1	0.64	1	12/14/16 11:14	12/20/16 13:22	56-55-3	
Benzo(a)pyrene	<1.6	ug/kg	1.6	0.47	1	12/14/16 11:14	12/20/16 13:22	50-32-8	
Benzo(b)fluoranthene	<2.6	ug/kg	2.6	0.78	1	12/14/16 11:14	12/20/16 13:22	205-99-2	
Benzo(g,h,i)perylene	<2.1	ug/kg	2.1	0.62	1	12/14/16 11:14	12/20/16 13:22	191-24-2	
Benzo(k)fluoranthene	<2.2	ug/kg	2.2	0.67	1	12/14/16 11:14	12/20/16 13:22	207-08-9	
Chrysene	<2.5	ug/kg	2.5	0.75	1	12/14/16 11:14	12/20/16 13:22	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.44	1	12/14/16 11:14	12/20/16 13:22	53-70-3	
Fluoranthene	<3.5	ug/kg	3.5	1.1	1	12/14/16 11:14	12/20/16 13:22	206-44-0	
Fluorene	<1.7	ug/kg	1.7	0.52	1	12/14/16 11:14	12/20/16 13:22	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.4	ug/kg	3.4	1.0	1	12/14/16 11:14	12/20/16 13:22	193-39-5	
Naphthalene	<1.6	ug/kg	1.6	0.48	1	12/14/16 11:14	12/20/16 13:22	91-20-3	
Phenanthrene	<1.8	ug/kg	1.8	0.55	1	12/14/16 11:14	12/20/16 13:22	85-01-8	
Pyrene	<3.7	ug/kg	3.7	1.1	1	12/14/16 11:14	12/20/16 13:22	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	76	%	41-125		1	12/14/16 11:14	12/20/16 13:22	321-60-8	
p-Terphenyl-d14 (S)	76	%	39-125		1	12/14/16 11:14	12/20/16 13:22	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1530	ug/kg	1530	460	1	12/14/16 10:09	12/15/16 13:02	67-64-1	
Allyl chloride	<201	ug/kg	201	60.2	1	12/14/16 10:09	12/15/16 13:02	107-05-1	
Benzene	214	ug/kg	20.2	6.1	1	12/14/16 10:09	12/15/16 13:02	71-43-2	
Bromobenzene	<59.8	ug/kg	59.8	18.0	1	12/14/16 10:09	12/15/16 13:02	108-86-1	
Bromochloromethane	<69.7	ug/kg	69.7	20.9	1	12/14/16 10:09	12/15/16 13:02	74-97-5	
Bromodichloromethane	<65.4	ug/kg	65.4	19.7	1	12/14/16 10:09	12/15/16 13:02	75-27-4	
Bromoform	<201	ug/kg	201	60.5	1	12/14/16 10:09	12/15/16 13:02	75-25-2	
Bromomethane	<237	ug/kg	237	71.2	1	12/14/16 10:09	12/15/16 13:02	74-83-9	
2-Butanone (MEK)	<309	ug/kg	309	92.7	1	12/14/16 10:09	12/15/16 13:02	78-93-3	
n-Butylbenzene	<56.6	ug/kg	56.6	17.0	1	12/14/16 10:09	12/15/16 13:02	104-51-8	
sec-Butylbenzene	<55.2	ug/kg	55.2	16.6	1	12/14/16 10:09	12/15/16 13:02	135-98-8	
tert-Butylbenzene	<73.9	ug/kg	73.9	22.2	1	12/14/16 10:09	12/15/16 13:02	98-06-6	
Carbon tetrachloride	<73.4	ug/kg	73.4	22.0	1	12/14/16 10:09	12/15/16 13:02	56-23-5	
Chlorobenzene	<40.7	ug/kg	40.7	12.2	1	12/14/16 10:09	12/15/16 13:02	108-90-7	
Chloroethane	<369	ug/kg	369	111	1	12/14/16 10:09	12/15/16 13:02	75-00-3	
Chloroform	<114	ug/kg	114	34.1	1	12/14/16 10:09	12/15/16 13:02	67-66-3	
Chloromethane	<113	ug/kg	113	34.0	1	12/14/16 10:09	12/15/16 13:02	74-87-3	
2-Chlorotoluene	<64.5	ug/kg	64.5	19.4	1	12/14/16 10:09	12/15/16 13:02	95-49-8	
4-Chlorotoluene	<61.2	ug/kg	61.2	18.4	1	12/14/16 10:09	12/15/16 13:02	106-43-4	
1,2-Dibromo-3-chloropropane	<137	ug/kg	137	137	1	12/14/16 10:09	12/15/16 13:02	96-12-8	
Dibromochloromethane	<201	ug/kg	201	60.2	1	12/14/16 10:09	12/15/16 13:02	124-48-1	L2

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP6\_3-5** Lab ID: **10373134002** Collected: 12/12/16 14:30 Received: 12/13/16 17:25 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<26.4	ug/kg	26.4	26.4	1	12/14/16 10:09	12/15/16 13:02	106-93-4	
Dibromomethane	<91.2	ug/kg	91.2	27.4	1	12/14/16 10:09	12/15/16 13:02	74-95-3	
1,2-Dichlorobenzene	<13.6	ug/kg	13.6	13.6	1	12/14/16 10:09	12/15/16 13:02	95-50-1	
1,3-Dichlorobenzene	<20.6	ug/kg	20.6	13.6	1	12/14/16 10:09	12/15/16 13:02	541-73-1	
1,4-Dichlorobenzene	<67.8	ug/kg	67.8	20.4	1	12/14/16 10:09	12/15/16 13:02	106-46-7	
Dichlorodifluoromethane	<71.5	ug/kg	71.5	21.5	1	12/14/16 10:09	12/15/16 13:02	75-71-8	CL
1,1-Dichloroethane	<27.2	ug/kg	27.2	27.2	1	12/14/16 10:09	12/15/16 13:02	75-34-3	
1,2-Dichloroethane	<22.2	ug/kg	22.2	22.2	1	12/14/16 10:09	12/15/16 13:02	107-06-2	
1,1-Dichloroethene	<17.8	ug/kg	17.8	17.8	1	12/14/16 10:09	12/15/16 13:02	75-35-4	
cis-1,2-Dichloroethene	<87.0	ug/kg	87.0	26.1	1	12/14/16 10:09	12/15/16 13:02	156-59-2	
trans-1,2-Dichloroethene	<113	ug/kg	113	33.8	1	12/14/16 10:09	12/15/16 13:02	156-60-5	
Dichlorofluoromethane	<640	ug/kg	640	192	1	12/14/16 10:09	12/15/16 13:02	75-43-4	
1,2-Dichloropropane	<24.3	ug/kg	24.3	24.3	1	12/14/16 10:09	12/15/16 13:02	78-87-5	
1,3-Dichloropropane	<83.7	ug/kg	83.7	25.1	1	12/14/16 10:09	12/15/16 13:02	142-28-9	
2,2-Dichloropropane	<74.3	ug/kg	74.3	22.3	1	12/14/16 10:09	12/15/16 13:02	594-20-7	
1,1-Dichloropropene	<21.2	ug/kg	21.2	21.2	1	12/14/16 10:09	12/15/16 13:02	563-58-6	
cis-1,3-Dichloropropene	<107	ug/kg	107	32.0	1	12/14/16 10:09	12/15/16 13:02	10061-01-5	
trans-1,3-Dichloropropene	<79.5	ug/kg	79.5	23.9	1	12/14/16 10:09	12/15/16 13:02	10061-02-6	
Diethyl ether (Ethyl ether)	<96.3	ug/kg	96.3	28.9	1	12/14/16 10:09	12/15/16 13:02	60-29-7	
Ethylbenzene	<74.3	ug/kg	74.3	22.3	1	12/14/16 10:09	12/15/16 13:02	100-41-4	
Hexachloro-1,3-butadiene	<220	ug/kg	220	66.0	1	12/14/16 10:09	12/15/16 13:02	87-68-3	
Isopropylbenzene (Cumene)	<83.2	ug/kg	83.2	25.0	1	12/14/16 10:09	12/15/16 13:02	98-82-8	
p-Isopropyltoluene	<38.8	ug/kg	38.8	11.7	1	12/14/16 10:09	12/15/16 13:02	99-87-6	
Methylene Chloride	<433	ug/kg	433	130	1	12/14/16 10:09	12/15/16 13:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	<155	ug/kg	155	46.5	1	12/14/16 10:09	12/15/16 13:02	108-10-1	
Methyl-tert-butyl ether	<43.8	ug/kg	43.8	13.1	1	12/14/16 10:09	12/15/16 13:02	1634-04-4	
Naphthalene	<56.6	ug/kg	56.6	17.0	1	12/14/16 10:09	12/15/16 13:02	91-20-3	
n-Propylbenzene	<69.7	ug/kg	69.7	20.9	1	12/14/16 10:09	12/15/16 13:02	103-65-1	
Styrene	<60.8	ug/kg	60.8	18.3	1	12/14/16 10:09	12/15/16 13:02	100-42-5	
1,1,1,2-Tetrachloroethane	<27.8	ug/kg	27.8	27.8	1	12/14/16 10:09	12/15/16 13:02	630-20-6	
1,1,2,2-Tetrachloroethane	<15.6	ug/kg	15.6	15.6	1	12/14/16 10:09	12/15/16 13:02	79-34-5	
Tetrachloroethene	<89.3	ug/kg	89.3	26.8	1	12/14/16 10:09	12/15/16 13:02	127-18-4	
Tetrahydrofuran	<1160	ug/kg	1160	348	1	12/14/16 10:09	12/15/16 13:02	109-99-9	
Toluene	<74.3	ug/kg	74.3	22.3	1	12/14/16 10:09	12/15/16 13:02	108-88-3	
1,2,3-Trichlorobenzene	<20.2	ug/kg	20.2	20.2	1	12/14/16 10:09	12/15/16 13:02	87-61-6	
1,2,4-Trichlorobenzene	<21.6	ug/kg	21.6	21.6	1	12/14/16 10:09	12/15/16 13:02	120-82-1	
1,1,1-Trichloroethane	<29.3	ug/kg	29.3	29.3	1	12/14/16 10:09	12/15/16 13:02	71-55-6	
1,1,2-Trichloroethane	<15.2	ug/kg	15.2	15.2	1	12/14/16 10:09	12/15/16 13:02	79-00-5	
Trichloroethene	<66.9	ug/kg	66.9	20.1	1	12/14/16 10:09	12/15/16 13:02	79-01-6	
Trichlorofluoromethane	<235	ug/kg	235	70.5	1	12/14/16 10:09	12/15/16 13:02	75-69-4	
1,2,3-Trichloropropane	<72.7	ug/kg	72.7	72.7	1	12/14/16 10:09	12/15/16 13:02	96-18-4	
1,1,2-Trichlorotrifluoroethane	<168	ug/kg	168	50.5	1	12/14/16 10:09	12/15/16 13:02	76-13-1	
1,2,4-Trimethylbenzene	<15.4	ug/kg	15.4	15.4	1	12/14/16 10:09	12/15/16 13:02	95-63-6	
1,3,5-Trimethylbenzene	<53.8	ug/kg	53.8	16.1	1	12/14/16 10:09	12/15/16 13:02	108-67-8	
Vinyl chloride	<30.0	ug/kg	30.0	9.0	1	12/14/16 10:09	12/15/16 13:02	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP6\_3-5**      **Lab ID: 10373134002**      Collected: 12/12/16 14:30      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<187	ug/kg	187	56.2	1	12/14/16 10:09	12/15/16 13:02	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	90	%	75-129		1	12/14/16 10:09	12/15/16 13:02	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/14/16 10:09	12/15/16 13:02	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/14/16 10:09	12/15/16 13:02	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP6\_8-10** Lab ID: **10373134003** Collected: 12/12/16 14:35 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>28.0</b>	%	0.10	0.10	1		12/27/16 12:55		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.8	ug/kg	1.8	0.54	1	12/14/16 11:14	12/20/16 13:44	83-32-9	
Acenaphthylene	<1.3	ug/kg	1.3	0.38	1	12/14/16 11:14	12/20/16 13:44	208-96-8	
Anthracene	<2.1	ug/kg	2.1	0.63	1	12/14/16 11:14	12/20/16 13:44	120-12-7	
Benzo(a)anthracene	<2.2	ug/kg	2.2	0.65	1	12/14/16 11:14	12/20/16 13:44	56-55-3	
Benzo(a)pyrene	<1.6	ug/kg	1.6	0.48	1	12/14/16 11:14	12/20/16 13:44	50-32-8	
Benzo(b)fluoranthene	<2.6	ug/kg	2.6	0.80	1	12/14/16 11:14	12/20/16 13:44	205-99-2	
Benzo(g,h,i)perylene	<2.1	ug/kg	2.1	0.64	1	12/14/16 11:14	12/20/16 13:44	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	2.3	0.68	1	12/14/16 11:14	12/20/16 13:44	207-08-9	
Chrysene	<2.6	ug/kg	2.6	0.77	1	12/14/16 11:14	12/20/16 13:44	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.45	1	12/14/16 11:14	12/20/16 13:44	53-70-3	
Fluoranthene	<b>12.2</b>	ug/kg	3.6	1.1	1	12/14/16 11:14	12/20/16 13:44	206-44-0	
Fluorene	<1.8	ug/kg	1.8	0.53	1	12/14/16 11:14	12/20/16 13:44	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.5	ug/kg	3.5	1.0	1	12/14/16 11:14	12/20/16 13:44	193-39-5	
Naphthalene	<1.6	ug/kg	1.6	0.50	1	12/14/16 11:14	12/20/16 13:44	91-20-3	
Phenanthrene	<1.9	ug/kg	1.9	0.56	1	12/14/16 11:14	12/20/16 13:44	85-01-8	
Pyrene	<b>9.7</b>	ug/kg	3.8	1.2	1	12/14/16 11:14	12/20/16 13:44	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	58	%	41-125		1	12/14/16 11:14	12/20/16 13:44	321-60-8	
p-Terphenyl-d14 (S)	76	%	39-125		1	12/14/16 11:14	12/20/16 13:44	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<38800	ug/kg	38800	11600	25	12/14/16 10:09	12/15/16 14:06	67-64-1	
Allyl chloride	<5070	ug/kg	5070	1520	25	12/14/16 10:09	12/15/16 14:06	107-05-1	
Benzene	<b>240000</b>	ug/kg	510	153	25	12/14/16 10:09	12/15/16 14:06	71-43-2	
Bromobenzene	<1510	ug/kg	1510	454	25	12/14/16 10:09	12/15/16 14:06	108-86-1	
Bromochloromethane	<1760	ug/kg	1760	529	25	12/14/16 10:09	12/15/16 14:06	74-97-5	
Bromodichloromethane	<1650	ug/kg	1650	497	25	12/14/16 10:09	12/15/16 14:06	75-27-4	
Bromoform	<5090	ug/kg	5090	1530	25	12/14/16 10:09	12/15/16 14:06	75-25-2	
Bromomethane	<5990	ug/kg	5990	1800	25	12/14/16 10:09	12/15/16 14:06	74-83-9	
2-Butanone (MEK)	<7800	ug/kg	7800	2340	25	12/14/16 10:09	12/15/16 14:06	78-93-3	
n-Butylbenzene	<1430	ug/kg	1430	429	25	12/14/16 10:09	12/15/16 14:06	104-51-8	
sec-Butylbenzene	<1390	ug/kg	1390	419	25	12/14/16 10:09	12/15/16 14:06	135-98-8	
tert-Butylbenzene	<1870	ug/kg	1870	561	25	12/14/16 10:09	12/15/16 14:06	98-06-6	
Carbon tetrachloride	<1860	ug/kg	1860	557	25	12/14/16 10:09	12/15/16 14:06	56-23-5	
Chlorobenzene	<1030	ug/kg	1030	309	25	12/14/16 10:09	12/15/16 14:06	108-90-7	
Chloroethane	<9340	ug/kg	9340	2800	25	12/14/16 10:09	12/15/16 14:06	75-00-3	
Chloroform	<2870	ug/kg	2870	862	25	12/14/16 10:09	12/15/16 14:06	67-66-3	
Chloromethane	<2860	ug/kg	2860	859	25	12/14/16 10:09	12/15/16 14:06	74-87-3	
2-Chlorotoluene	<1630	ug/kg	1630	490	25	12/14/16 10:09	12/15/16 14:06	95-49-8	
4-Chlorotoluene	<1550	ug/kg	1550	465	25	12/14/16 10:09	12/15/16 14:06	106-43-4	
1,2-Dibromo-3-chloropropane	<3460	ug/kg	3460	3460	25	12/14/16 10:09	12/15/16 14:06	96-12-8	
Dibromochloromethane	<5070	ug/kg	5070	1520	25	12/14/16 10:09	12/15/16 14:06	124-48-1	L2

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP6\_8-10** Lab ID: **10373134003** Collected: 12/12/16 14:35 Received: 12/13/16 17:25 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<667	ug/kg	667	667	25	12/14/16 10:09	12/15/16 14:06	106-93-4	
Dibromomethane	<2300	ug/kg	2300	692	25	12/14/16 10:09	12/15/16 14:06	74-95-3	
1,2-Dichlorobenzene	<343	ug/kg	343	343	25	12/14/16 10:09	12/15/16 14:06	95-50-1	
1,3-Dichlorobenzene	<522	ug/kg	522	343	25	12/14/16 10:09	12/15/16 14:06	541-73-1	
1,4-Dichlorobenzene	<1710	ug/kg	1710	515	25	12/14/16 10:09	12/15/16 14:06	106-46-7	
Dichlorodifluoromethane	<1810	ug/kg	1810	543	25	12/14/16 10:09	12/15/16 14:06	75-71-8	CL
1,1-Dichloroethane	<688	ug/kg	688	688	25	12/14/16 10:09	12/15/16 14:06	75-34-3	
1,2-Dichloroethane	<561	ug/kg	561	561	25	12/14/16 10:09	12/15/16 14:06	107-06-2	
1,1-Dichloroethene	<451	ug/kg	451	451	25	12/14/16 10:09	12/15/16 14:06	75-35-4	
cis-1,2-Dichloroethene	<2200	ug/kg	2200	660	25	12/14/16 10:09	12/15/16 14:06	156-59-2	
trans-1,2-Dichloroethene	<2850	ug/kg	2850	855	25	12/14/16 10:09	12/15/16 14:06	156-60-5	
Dichlorofluoromethane	<16200	ug/kg	16200	4860	25	12/14/16 10:09	12/15/16 14:06	75-43-4	
1,2-Dichloropropane	<614	ug/kg	614	614	25	12/14/16 10:09	12/15/16 14:06	78-87-5	
1,3-Dichloropropane	<2120	ug/kg	2120	635	25	12/14/16 10:09	12/15/16 14:06	142-28-9	
2,2-Dichloropropane	<1880	ug/kg	1880	564	25	12/14/16 10:09	12/15/16 14:06	594-20-7	
1,1-Dichloropropene	<536	ug/kg	536	536	25	12/14/16 10:09	12/15/16 14:06	563-58-6	
cis-1,3-Dichloropropene	<2690	ug/kg	2690	809	25	12/14/16 10:09	12/15/16 14:06	10061-01-5	
trans-1,3-Dichloropropene	<2010	ug/kg	2010	603	25	12/14/16 10:09	12/15/16 14:06	10061-02-6	
Diethyl ether (Ethyl ether)	<2430	ug/kg	2430	731	25	12/14/16 10:09	12/15/16 14:06	60-29-7	
Ethylbenzene	<1880	ug/kg	1880	564	25	12/14/16 10:09	12/15/16 14:06	100-41-4	
Hexachloro-1,3-butadiene	<5550	ug/kg	5550	1670	25	12/14/16 10:09	12/15/16 14:06	87-68-3	
Isopropylbenzene (Cumene)	<2100	ug/kg	2100	632	25	12/14/16 10:09	12/15/16 14:06	98-82-8	
p-Isopropyltoluene	<981	ug/kg	981	295	25	12/14/16 10:09	12/15/16 14:06	99-87-6	
Methylene Chloride	<10900	ug/kg	10900	3290	25	12/14/16 10:09	12/15/16 14:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	<3910	ug/kg	3910	1170	25	12/14/16 10:09	12/15/16 14:06	108-10-1	
Methyl-tert-butyl ether	<1110	ug/kg	1110	332	25	12/14/16 10:09	12/15/16 14:06	1634-04-4	
Naphthalene	<1430	ug/kg	1430	429	25	12/14/16 10:09	12/15/16 14:06	91-20-3	
n-Propylbenzene	<1760	ug/kg	1760	529	25	12/14/16 10:09	12/15/16 14:06	103-65-1	
Styrene	<1540	ug/kg	1540	461	25	12/14/16 10:09	12/15/16 14:06	100-42-5	
1,1,1,2-Tetrachloroethane	<703	ug/kg	703	703	25	12/14/16 10:09	12/15/16 14:06	630-20-6	
1,1,1,2,2-Tetrachloroethane	<394	ug/kg	394	394	25	12/14/16 10:09	12/15/16 14:06	79-34-5	
Tetrachloroethene	<2260	ug/kg	2260	678	25	12/14/16 10:09	12/15/16 14:06	127-18-4	
Tetrahydrofuran	<29300	ug/kg	29300	8800	25	12/14/16 10:09	12/15/16 14:06	109-99-9	
Toluene	35100	ug/kg	1880	564	25	12/14/16 10:09	12/15/16 14:06	108-88-3	
1,2,3-Trichlorobenzene	<511	ug/kg	511	511	25	12/14/16 10:09	12/15/16 14:06	87-61-6	
1,2,4-Trichlorobenzene	<546	ug/kg	546	546	25	12/14/16 10:09	12/15/16 14:06	120-82-1	
1,1,1-Trichloroethane	<742	ug/kg	742	742	25	12/14/16 10:09	12/15/16 14:06	71-55-6	
1,1,2-Trichloroethane	<383	ug/kg	383	383	25	12/14/16 10:09	12/15/16 14:06	79-00-5	
Trichloroethene	<1690	ug/kg	1690	507	25	12/14/16 10:09	12/15/16 14:06	79-01-6	
Trichlorofluoromethane	<5930	ug/kg	5930	1780	25	12/14/16 10:09	12/15/16 14:06	75-69-4	
1,2,3-Trichloropropane	<1840	ug/kg	1840	1840	25	12/14/16 10:09	12/15/16 14:06	96-18-4	
1,1,2-Trichlorotrifluoroethane	<4250	ug/kg	4250	1280	25	12/14/16 10:09	12/15/16 14:06	76-13-1	
1,2,4-Trimethylbenzene	<390	ug/kg	390	390	25	12/14/16 10:09	12/15/16 14:06	95-63-6	
1,3,5-Trimethylbenzene	<1360	ug/kg	1360	408	25	12/14/16 10:09	12/15/16 14:06	108-67-8	
Vinyl chloride	<759	ug/kg	759	228	25	12/14/16 10:09	12/15/16 14:06	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

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**Sample: GP6\_8-10**      **Lab ID: 10373134003**      Collected: 12/12/16 14:35      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>5570</b>	ug/kg	4730	1420	25	12/14/16 10:09	12/15/16 14:06	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	83	%	75-129		25	12/14/16 10:09	12/15/16 14:06	17060-07-0	
Toluene-d8 (S)	97	%	75-125		25	12/14/16 10:09	12/15/16 14:06	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		25	12/14/16 10:09	12/15/16 14:06	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP6\_13-15**      **Lab ID: 10373134004**      Collected: 12/12/16 14:40      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>28.8</b>	%	0.10	0.10	1		12/27/16 12:56		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.8	ug/kg	1.8	0.55	1	12/14/16 11:14	12/20/16 14:06	83-32-9	
Acenaphthylene	<1.3	ug/kg	1.3	0.38	1	12/14/16 11:14	12/20/16 14:06	208-96-8	
Anthracene	<b>3.3</b>	ug/kg	2.1	0.64	1	12/14/16 11:14	12/20/16 14:06	120-12-7	
Benzo(a)anthracene	<2.2	ug/kg	2.2	0.66	1	12/14/16 11:14	12/20/16 14:06	56-55-3	
Benzo(a)pyrene	<1.6	ug/kg	1.6	0.49	1	12/14/16 11:14	12/20/16 14:06	50-32-8	
Benzo(b)fluoranthene	<2.7	ug/kg	2.7	0.80	1	12/14/16 11:14	12/20/16 14:06	205-99-2	
Benzo(g,h,i)perylene	<2.1	ug/kg	2.1	0.64	1	12/14/16 11:14	12/20/16 14:06	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	2.3	0.69	1	12/14/16 11:14	12/20/16 14:06	207-08-9	
Chrysene	<2.6	ug/kg	2.6	0.78	1	12/14/16 11:14	12/20/16 14:06	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.46	1	12/14/16 11:14	12/20/16 14:06	53-70-3	
Fluoranthene	<b>11.1</b>	ug/kg	3.7	1.1	1	12/14/16 11:14	12/20/16 14:06	206-44-0	
Fluorene	<1.8	ug/kg	1.8	0.54	1	12/14/16 11:14	12/20/16 14:06	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.5	ug/kg	3.5	1.1	1	12/14/16 11:14	12/20/16 14:06	193-39-5	
Naphthalene	<1.7	ug/kg	1.7	0.50	1	12/14/16 11:14	12/20/16 14:06	91-20-3	
Phenanthrene	<b>7.8</b>	ug/kg	1.9	0.57	1	12/14/16 11:14	12/20/16 14:06	85-01-8	
Pyrene	<b>7.1</b>	ug/kg	3.9	1.2	1	12/14/16 11:14	12/20/16 14:06	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	84	%	41-125		1	12/14/16 11:14	12/20/16 14:06	321-60-8	
p-Terphenyl-d14 (S)	77	%	39-125		1	12/14/16 11:14	12/20/16 14:06	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1570	ug/kg	1570	471	1	12/14/16 10:10	12/14/16 17:23	67-64-1	
Allyl chloride	<205	ug/kg	205	61.6	1	12/14/16 10:10	12/14/16 17:23	107-05-1	
Benzene	<b>67900</b>	ug/kg	103	31.0	5	12/14/16 10:10	12/15/16 12:20	71-43-2	M1
Bromobenzene	<61.2	ug/kg	61.2	18.4	1	12/14/16 10:10	12/14/16 17:23	108-86-1	
Bromochloromethane	<71.3	ug/kg	71.3	21.4	1	12/14/16 10:10	12/14/16 17:23	74-97-5	
Bromodichloromethane	<67.0	ug/kg	67.0	20.1	1	12/14/16 10:10	12/14/16 17:23	75-27-4	
Bromoform	<206	ug/kg	206	61.9	1	12/14/16 10:10	12/14/16 17:23	75-25-2	
Bromomethane	<243	ug/kg	243	72.8	1	12/14/16 10:10	12/14/16 17:23	74-83-9	
2-Butanone (MEK)	<316	ug/kg	316	94.8	1	12/14/16 10:10	12/14/16 17:23	78-93-3	
n-Butylbenzene	<57.9	ug/kg	57.9	17.4	1	12/14/16 10:10	12/14/16 17:23	104-51-8	
sec-Butylbenzene	<56.4	ug/kg	56.4	17.0	1	12/14/16 10:10	12/14/16 17:23	135-98-8	
tert-Butylbenzene	<75.6	ug/kg	75.6	22.7	1	12/14/16 10:10	12/14/16 17:23	98-06-6	
Carbon tetrachloride	<75.1	ug/kg	75.1	22.6	1	12/14/16 10:10	12/14/16 17:23	56-23-5	
Chlorobenzene	<41.6	ug/kg	41.6	12.5	1	12/14/16 10:10	12/14/16 17:23	108-90-7	
Chloroethane	<378	ug/kg	378	113	1	12/14/16 10:10	12/14/16 17:23	75-00-3	
Chloroform	<116	ug/kg	116	34.9	1	12/14/16 10:10	12/14/16 17:23	67-66-3	
Chloromethane	<116	ug/kg	116	34.8	1	12/14/16 10:10	12/14/16 17:23	74-87-3	
2-Chlorotoluene	<66.0	ug/kg	66.0	19.8	1	12/14/16 10:10	12/14/16 17:23	95-49-8	
4-Chlorotoluene	<62.7	ug/kg	62.7	18.8	1	12/14/16 10:10	12/14/16 17:23	106-43-4	
1,2-Dibromo-3-chloropropane	<140	ug/kg	140	140	1	12/14/16 10:10	12/14/16 17:23	96-12-8	
Dibromochloromethane	<205	ug/kg	205	61.6	1	12/14/16 10:10	12/14/16 17:23	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP6\_13-15** Lab ID: **10373134004** Collected: 12/12/16 14:40 Received: 12/13/16 17:25 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<27.0	ug/kg	27.0	27.0	1	12/14/16 10:10	12/14/16 17:23	106-93-4	
Dibromomethane	<93.3	ug/kg	93.3	28.0	1	12/14/16 10:10	12/14/16 17:23	74-95-3	
1,2-Dichlorobenzene	<13.9	ug/kg	13.9	13.9	1	12/14/16 10:10	12/14/16 17:23	95-50-1	
1,3-Dichlorobenzene	<21.1	ug/kg	21.1	21.1	1	12/14/16 10:10	12/14/16 17:23	541-73-1	
1,4-Dichlorobenzene	<69.4	ug/kg	69.4	20.8	1	12/14/16 10:10	12/14/16 17:23	106-46-7	
Dichlorodifluoromethane	<73.2	ug/kg	73.2	22.0	1	12/14/16 10:10	12/14/16 17:23	75-71-8	
1,1-Dichloroethane	<27.9	ug/kg	27.9	27.9	1	12/14/16 10:10	12/14/16 17:23	75-34-3	
1,2-Dichloroethane	<22.7	ug/kg	22.7	22.7	1	12/14/16 10:10	12/14/16 17:23	107-06-2	
1,1-Dichloroethene	<18.2	ug/kg	18.2	18.2	1	12/14/16 10:10	12/14/16 17:23	75-35-4	
cis-1,2-Dichloroethene	<89.0	ug/kg	89.0	26.7	1	12/14/16 10:10	12/14/16 17:23	156-59-2	
trans-1,2-Dichloroethene	<115	ug/kg	115	34.6	1	12/14/16 10:10	12/14/16 17:23	156-60-5	
Dichlorofluoromethane	<655	ug/kg	655	197	1	12/14/16 10:10	12/14/16 17:23	75-43-4	
1,2-Dichloropropane	<24.9	ug/kg	24.9	24.9	1	12/14/16 10:10	12/14/16 17:23	78-87-5	
1,3-Dichloropropane	<85.6	ug/kg	85.6	25.7	1	12/14/16 10:10	12/14/16 17:23	142-28-9	
2,2-Dichloropropane	<76.1	ug/kg	76.1	22.8	1	12/14/16 10:10	12/14/16 17:23	594-20-7	
1,1-Dichloropropene	<21.7	ug/kg	21.7	21.7	1	12/14/16 10:10	12/14/16 17:23	563-58-6	
cis-1,3-Dichloropropene	<109	ug/kg	109	32.8	1	12/14/16 10:10	12/14/16 17:23	10061-01-5	
trans-1,3-Dichloropropene	<81.3	ug/kg	81.3	24.4	1	12/14/16 10:10	12/14/16 17:23	10061-02-6	
Diethyl ether (Ethyl ether)	<98.5	ug/kg	98.5	29.6	1	12/14/16 10:10	12/14/16 17:23	60-29-7	
Ethylbenzene	115	ug/kg	76.1	22.8	1	12/14/16 10:10	12/14/16 17:23	100-41-4	
Hexachloro-1,3-butadiene	<225	ug/kg	225	67.5	1	12/14/16 10:10	12/14/16 17:23	87-68-3	
Isopropylbenzene (Cumene)	<85.1	ug/kg	85.1	25.6	1	12/14/16 10:10	12/14/16 17:23	98-82-8	
p-Isopropyltoluene	<39.7	ug/kg	39.7	11.9	1	12/14/16 10:10	12/14/16 17:23	99-87-6	
Methylene Chloride	<443	ug/kg	443	133	1	12/14/16 10:10	12/14/16 17:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	<158	ug/kg	158	47.5	1	12/14/16 10:10	12/14/16 17:23	108-10-1	
Methyl-tert-butyl ether	<44.8	ug/kg	44.8	13.4	1	12/14/16 10:10	12/14/16 17:23	1634-04-4	
Naphthalene	<57.9	ug/kg	57.9	17.4	1	12/14/16 10:10	12/14/16 17:23	91-20-3	
n-Propylbenzene	<71.3	ug/kg	71.3	21.4	1	12/14/16 10:10	12/14/16 17:23	103-65-1	
Styrene	<62.2	ug/kg	62.2	18.7	1	12/14/16 10:10	12/14/16 17:23	100-42-5	
1,1,1,2-Tetrachloroethane	<28.4	ug/kg	28.4	28.4	1	12/14/16 10:10	12/14/16 17:23	630-20-6	
1,1,2,2-Tetrachloroethane	<15.9	ug/kg	15.9	15.9	1	12/14/16 10:10	12/14/16 17:23	79-34-5	
Tetrachloroethene	<91.4	ug/kg	91.4	27.4	1	12/14/16 10:10	12/14/16 17:23	127-18-4	
Tetrahydrofuran	<1190	ug/kg	1190	356	1	12/14/16 10:10	12/14/16 17:23	109-99-9	
Toluene	<76.1	ug/kg	76.1	22.8	1	12/14/16 10:10	12/14/16 17:23	108-88-3	
1,2,3-Trichlorobenzene	<20.7	ug/kg	20.7	20.7	1	12/14/16 10:10	12/14/16 17:23	87-61-6	
1,2,4-Trichlorobenzene	<22.1	ug/kg	22.1	22.1	1	12/14/16 10:10	12/14/16 17:23	120-82-1	
1,1,1-Trichloroethane	<30.0	ug/kg	30.0	30.0	1	12/14/16 10:10	12/14/16 17:23	71-55-6	
1,1,2-Trichloroethane	<15.5	ug/kg	15.5	15.5	1	12/14/16 10:10	12/14/16 17:23	79-00-5	
Trichloroethene	<68.4	ug/kg	68.4	20.5	1	12/14/16 10:10	12/14/16 17:23	79-01-6	
Trichlorofluoromethane	<240	ug/kg	240	72.1	1	12/14/16 10:10	12/14/16 17:23	75-69-4	
1,2,3-Trichloropropane	<74.4	ug/kg	74.4	74.4	1	12/14/16 10:10	12/14/16 17:23	96-18-4	
1,1,2-Trichlorotrifluoroethane	<172	ug/kg	172	51.7	1	12/14/16 10:10	12/14/16 17:23	76-13-1	
1,2,4-Trimethylbenzene	32.8	ug/kg	15.8	15.8	1	12/14/16 10:10	12/14/16 17:23	95-63-6	
1,3,5-Trimethylbenzene	<55.0	ug/kg	55.0	16.5	1	12/14/16 10:10	12/14/16 17:23	108-67-8	
Vinyl chloride	<30.7	ug/kg	30.7	9.2	1	12/14/16 10:10	12/14/16 17:23	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP6\_13-15**      **Lab ID: 10373134004**      Collected: 12/12/16 14:40      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>806</b>	ug/kg	191	57.5	1	12/14/16 10:10	12/14/16 17:23	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-129		1	12/14/16 10:10	12/14/16 17:23	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/14/16 10:10	12/14/16 17:23	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/14/16 10:10	12/14/16 17:23	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: GP7\_3-5 Lab ID: 10373134005 Collected: 12/12/16 15:00 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	25.1	%	0.10	0.10	1		12/27/16 12:56		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.52	1	12/14/16 11:14	12/20/16 14:28	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.36	1	12/14/16 11:14	12/20/16 14:28	208-96-8	
Anthracene	<2.0	ug/kg	2.0	0.61	1	12/14/16 11:14	12/20/16 14:28	120-12-7	R1
Benzo(a)anthracene	<2.1	ug/kg	2.1	0.63	1	12/14/16 11:14	12/20/16 14:28	56-55-3	M1,R1
Benzo(a)pyrene	<1.5	ug/kg	1.5	0.46	1	12/14/16 11:14	12/20/16 14:28	50-32-8	M1,R1
Benzo(b)fluoranthene	<2.5	ug/kg	2.5	0.76	1	12/14/16 11:14	12/20/16 14:28	205-99-2	M1,R1
Benzo(g,h,i)perylene	<2.0	ug/kg	2.0	0.61	1	12/14/16 11:14	12/20/16 14:28	191-24-2	
Benzo(k)fluoranthene	<2.2	ug/kg	2.2	0.66	1	12/14/16 11:14	12/20/16 14:28	207-08-9	M1,R1
Chrysene	<2.5	ug/kg	2.5	0.74	1	12/14/16 11:14	12/20/16 14:28	218-01-9	M1,R1
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.44	1	12/14/16 11:14	12/20/16 14:28	53-70-3	
Fluoranthene	<3.5	ug/kg	3.5	1.0	1	12/14/16 11:14	12/20/16 14:28	206-44-0	M1,R1
Fluorene	<1.7	ug/kg	1.7	0.51	1	12/14/16 11:14	12/20/16 14:28	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.3	ug/kg	3.3	1.0	1	12/14/16 11:14	12/20/16 14:28	193-39-5	
Naphthalene	<1.6	ug/kg	1.6	0.48	1	12/14/16 11:14	12/20/16 14:28	91-20-3	
Phenanthrene	<1.8	ug/kg	1.8	0.54	1	12/14/16 11:14	12/20/16 14:28	85-01-8	M1,R1
Pyrene	<3.7	ug/kg	3.7	1.1	1	12/14/16 11:14	12/20/16 14:28	129-00-0	M1,R1
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	77	%	41-125		1	12/14/16 11:14	12/20/16 14:28	321-60-8	
p-Terphenyl-d14 (S)	77	%	39-125		1	12/14/16 11:14	12/20/16 14:28	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1480	ug/kg	1480	444	1	12/14/16 10:10	12/15/16 11:28	67-64-1	
Allyl chloride	<194	ug/kg	194	58.1	1	12/14/16 10:10	12/15/16 11:28	107-05-1	
Benzene	<19.5	ug/kg	19.5	5.9	1	12/14/16 10:10	12/15/16 11:28	71-43-2	B
Bromobenzene	<57.8	ug/kg	57.8	17.3	1	12/14/16 10:10	12/15/16 11:28	108-86-1	
Bromochloromethane	<67.2	ug/kg	67.2	20.2	1	12/14/16 10:10	12/15/16 11:28	74-97-5	
Bromodichloromethane	<63.2	ug/kg	63.2	19.0	1	12/14/16 10:10	12/15/16 11:28	75-27-4	
Bromoform	<194	ug/kg	194	58.4	1	12/14/16 10:10	12/15/16 11:28	75-25-2	
Bromomethane	<229	ug/kg	229	68.7	1	12/14/16 10:10	12/15/16 11:28	74-83-9	
2-Butanone (MEK)	<298	ug/kg	298	89.4	1	12/14/16 10:10	12/15/16 11:28	78-93-3	
n-Butylbenzene	<54.6	ug/kg	54.6	16.4	1	12/14/16 10:10	12/15/16 11:28	104-51-8	
sec-Butylbenzene	<53.2	ug/kg	53.2	16.0	1	12/14/16 10:10	12/15/16 11:28	135-98-8	
tert-Butylbenzene	<71.3	ug/kg	71.3	21.4	1	12/14/16 10:10	12/15/16 11:28	98-06-6	
Carbon tetrachloride	<70.8	ug/kg	70.8	21.3	1	12/14/16 10:10	12/15/16 11:28	56-23-5	
Chlorobenzene	<39.3	ug/kg	39.3	11.8	1	12/14/16 10:10	12/15/16 11:28	108-90-7	
Chloroethane	<357	ug/kg	357	107	1	12/14/16 10:10	12/15/16 11:28	75-00-3	
Chloroform	<110	ug/kg	110	32.9	1	12/14/16 10:10	12/15/16 11:28	67-66-3	
Chloromethane	<109	ug/kg	109	32.8	1	12/14/16 10:10	12/15/16 11:28	74-87-3	
2-Chlorotoluene	<62.3	ug/kg	62.3	18.7	1	12/14/16 10:10	12/15/16 11:28	95-49-8	
4-Chlorotoluene	<59.1	ug/kg	59.1	17.8	1	12/14/16 10:10	12/15/16 11:28	106-43-4	
1,2-Dibromo-3-chloropropane	<132	ug/kg	132	132	1	12/14/16 10:10	12/15/16 11:28	96-12-8	
Dibromochloromethane	<194	ug/kg	194	58.1	1	12/14/16 10:10	12/15/16 11:28	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: GP7\_3-5 Lab ID: 10373134005 Collected: 12/12/16 15:00 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<25.5	ug/kg	25.5	25.5	1	12/14/16 10:10	12/15/16 11:28	106-93-4	
Dibromomethane	<88.0	ug/kg	88.0	26.4	1	12/14/16 10:10	12/15/16 11:28	74-95-3	
1,2-Dichlorobenzene	<13.1	ug/kg	13.1	13.1	1	12/14/16 10:10	12/15/16 11:28	95-50-1	
1,3-Dichlorobenzene	<19.9	ug/kg	19.9	19.9	1	12/14/16 10:10	12/15/16 11:28	541-73-1	
1,4-Dichlorobenzene	<65.4	ug/kg	65.4	19.6	1	12/14/16 10:10	12/15/16 11:28	106-46-7	
Dichlorodifluoromethane	<69.0	ug/kg	69.0	20.7	1	12/14/16 10:10	12/15/16 11:28	75-71-8	
1,1-Dichloroethane	<26.3	ug/kg	26.3	26.3	1	12/14/16 10:10	12/15/16 11:28	75-34-3	
1,2-Dichloroethane	<21.4	ug/kg	21.4	21.4	1	12/14/16 10:10	12/15/16 11:28	107-06-2	
1,1-Dichloroethene	<17.2	ug/kg	17.2	17.2	1	12/14/16 10:10	12/15/16 11:28	75-35-4	
cis-1,2-Dichloroethene	<83.9	ug/kg	83.9	25.2	1	12/14/16 10:10	12/15/16 11:28	156-59-2	
trans-1,2-Dichloroethene	<109	ug/kg	109	32.7	1	12/14/16 10:10	12/15/16 11:28	156-60-5	
Dichlorofluoromethane	<618	ug/kg	618	186	1	12/14/16 10:10	12/15/16 11:28	75-43-4	
1,2-Dichloropropane	<23.4	ug/kg	23.4	23.4	1	12/14/16 10:10	12/15/16 11:28	78-87-5	
1,3-Dichloropropane	<80.8	ug/kg	80.8	24.3	1	12/14/16 10:10	12/15/16 11:28	142-28-9	
2,2-Dichloropropane	<71.8	ug/kg	71.8	21.5	1	12/14/16 10:10	12/15/16 11:28	594-20-7	
1,1-Dichloropropene	<20.5	ug/kg	20.5	20.5	1	12/14/16 10:10	12/15/16 11:28	563-58-6	
cis-1,3-Dichloropropene	<103	ug/kg	103	30.9	1	12/14/16 10:10	12/15/16 11:28	10061-01-5	
trans-1,3-Dichloropropene	<76.7	ug/kg	76.7	23.0	1	12/14/16 10:10	12/15/16 11:28	10061-02-6	
Diethyl ether (Ethyl ether)	<93.0	ug/kg	93.0	27.9	1	12/14/16 10:10	12/15/16 11:28	60-29-7	
Ethylbenzene	<71.8	ug/kg	71.8	21.5	1	12/14/16 10:10	12/15/16 11:28	100-41-4	
Hexachloro-1,3-butadiene	<212	ug/kg	212	63.7	1	12/14/16 10:10	12/15/16 11:28	87-68-3	
Isopropylbenzene (Cumene)	<80.3	ug/kg	80.3	24.1	1	12/14/16 10:10	12/15/16 11:28	98-82-8	
p-Isopropyltoluene	<37.5	ug/kg	37.5	11.2	1	12/14/16 10:10	12/15/16 11:28	99-87-6	
Methylene Chloride	<418	ug/kg	418	125	1	12/14/16 10:10	12/15/16 11:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	<149	ug/kg	149	44.9	1	12/14/16 10:10	12/15/16 11:28	108-10-1	
Methyl-tert-butyl ether	<42.2	ug/kg	42.2	12.7	1	12/14/16 10:10	12/15/16 11:28	1634-04-4	
Naphthalene	<54.6	ug/kg	54.6	16.4	1	12/14/16 10:10	12/15/16 11:28	91-20-3	
n-Propylbenzene	<67.2	ug/kg	67.2	20.2	1	12/14/16 10:10	12/15/16 11:28	103-65-1	
Styrene	<58.7	ug/kg	58.7	17.6	1	12/14/16 10:10	12/15/16 11:28	100-42-5	
1,1,1,2-Tetrachloroethane	<26.8	ug/kg	26.8	26.8	1	12/14/16 10:10	12/15/16 11:28	630-20-6	
1,1,2,2-Tetrachloroethane	<15.0	ug/kg	15.0	15.0	1	12/14/16 10:10	12/15/16 11:28	79-34-5	
Tetrachloroethene	<86.2	ug/kg	86.2	25.9	1	12/14/16 10:10	12/15/16 11:28	127-18-4	
Tetrahydrofuran	<1120	ug/kg	1120	336	1	12/14/16 10:10	12/15/16 11:28	109-99-9	
Toluene	<71.8	ug/kg	71.8	21.5	1	12/14/16 10:10	12/15/16 11:28	108-88-3	
1,2,3-Trichlorobenzene	<19.5	ug/kg	19.5	19.5	1	12/14/16 10:10	12/15/16 11:28	87-61-6	
1,2,4-Trichlorobenzene	<20.9	ug/kg	20.9	20.9	1	12/14/16 10:10	12/15/16 11:28	120-82-1	
1,1,1-Trichloroethane	<28.3	ug/kg	28.3	28.3	1	12/14/16 10:10	12/15/16 11:28	71-55-6	
1,1,2-Trichloroethane	<14.6	ug/kg	14.6	14.6	1	12/14/16 10:10	12/15/16 11:28	79-00-5	
Trichloroethene	<64.5	ug/kg	64.5	19.4	1	12/14/16 10:10	12/15/16 11:28	79-01-6	
Trichlorofluoromethane	<227	ug/kg	227	68.0	1	12/14/16 10:10	12/15/16 11:28	75-69-4	
1,2,3-Trichloropropane	<70.2	ug/kg	70.2	70.2	1	12/14/16 10:10	12/15/16 11:28	96-18-4	
1,1,2-Trichlorotrifluoroethane	<162	ug/kg	162	48.8	1	12/14/16 10:10	12/15/16 11:28	76-13-1	
1,2,4-Trimethylbenzene	<14.9	ug/kg	14.9	14.9	1	12/14/16 10:10	12/15/16 11:28	95-63-6	
1,3,5-Trimethylbenzene	<51.9	ug/kg	51.9	15.6	1	12/14/16 10:10	12/15/16 11:28	108-67-8	
Vinyl chloride	<29.0	ug/kg	29.0	8.7	1	12/14/16 10:10	12/15/16 11:28	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP7\_3-5**      **Lab ID: 10373134005**      Collected: 12/12/16 15:00      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<181	ug/kg	181	54.2	1	12/14/16 10:10	12/15/16 11:28	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-129		1	12/14/16 10:10	12/15/16 11:28	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/14/16 10:10	12/15/16 11:28	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/14/16 10:10	12/15/16 11:28	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP7\_8-10**      **Lab ID: 10373134006**      Collected: 12/12/16 15:05      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	25.8	%	0.10	0.10	1		12/27/16 12:56		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.52	1	12/14/16 11:14	12/20/16 15:33	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.37	1	12/14/16 11:14	12/20/16 15:33	208-96-8	
Anthracene	<2.0	ug/kg	2.0	0.61	1	12/14/16 11:14	12/20/16 15:33	120-12-7	
Benzo(a)anthracene	<2.1	ug/kg	2.1	0.63	1	12/14/16 11:14	12/20/16 15:33	56-55-3	
Benzo(a)pyrene	<1.6	ug/kg	1.6	0.47	1	12/14/16 11:14	12/20/16 15:33	50-32-8	
Benzo(b)fluoranthene	<2.6	ug/kg	2.6	0.77	1	12/14/16 11:14	12/20/16 15:33	205-99-2	
Benzo(g,h,i)perylene	<2.0	ug/kg	2.0	0.61	1	12/14/16 11:14	12/20/16 15:33	191-24-2	
Benzo(k)fluoranthene	<2.2	ug/kg	2.2	0.66	1	12/14/16 11:14	12/20/16 15:33	207-08-9	
Chrysene	<2.5	ug/kg	2.5	0.75	1	12/14/16 11:14	12/20/16 15:33	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.44	1	12/14/16 11:14	12/20/16 15:33	53-70-3	
Fluoranthene	<3.5	ug/kg	3.5	1.1	1	12/14/16 11:14	12/20/16 15:33	206-44-0	
Fluorene	<1.7	ug/kg	1.7	0.52	1	12/14/16 11:14	12/20/16 15:33	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.4	ug/kg	3.4	1.0	1	12/14/16 11:14	12/20/16 15:33	193-39-5	
Naphthalene	<1.6	ug/kg	1.6	0.48	1	12/14/16 11:14	12/20/16 15:33	91-20-3	
Phenanthrene	<1.8	ug/kg	1.8	0.54	1	12/14/16 11:14	12/20/16 15:33	85-01-8	
Pyrene	<3.7	ug/kg	3.7	1.1	1	12/14/16 11:14	12/20/16 15:33	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	75	%	41-125		1	12/14/16 11:14	12/20/16 15:33	321-60-8	
p-Terphenyl-d14 (S)	79	%	39-125		1	12/14/16 11:14	12/20/16 15:33	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1510	ug/kg	1510	455	1	12/14/16 10:10	12/14/16 18:15	67-64-1	
Allyl chloride	<198	ug/kg	198	59.5	1	12/14/16 10:10	12/14/16 18:15	107-05-1	
Benzene	316	ug/kg	19.9	6.0	1	12/14/16 10:10	12/14/16 18:15	71-43-2	
Bromobenzene	<59.1	ug/kg	59.1	17.7	1	12/14/16 10:10	12/14/16 18:15	108-86-1	
Bromochloromethane	<68.8	ug/kg	68.8	20.7	1	12/14/16 10:10	12/14/16 18:15	74-97-5	
Bromodichloromethane	<64.6	ug/kg	64.6	19.4	1	12/14/16 10:10	12/14/16 18:15	75-27-4	
Bromoform	<199	ug/kg	199	59.8	1	12/14/16 10:10	12/14/16 18:15	75-25-2	
Bromomethane	<234	ug/kg	234	70.3	1	12/14/16 10:10	12/14/16 18:15	74-83-9	
2-Butanone (MEK)	<305	ug/kg	305	91.5	1	12/14/16 10:10	12/14/16 18:15	78-93-3	
n-Butylbenzene	<55.9	ug/kg	55.9	16.8	1	12/14/16 10:10	12/14/16 18:15	104-51-8	
sec-Butylbenzene	<54.5	ug/kg	54.5	16.4	1	12/14/16 10:10	12/14/16 18:15	135-98-8	
tert-Butylbenzene	<73.0	ug/kg	73.0	21.9	1	12/14/16 10:10	12/14/16 18:15	98-06-6	
Carbon tetrachloride	<72.5	ug/kg	72.5	21.8	1	12/14/16 10:10	12/14/16 18:15	56-23-5	
Chlorobenzene	<40.2	ug/kg	40.2	12.1	1	12/14/16 10:10	12/14/16 18:15	108-90-7	
Chloroethane	<365	ug/kg	365	110	1	12/14/16 10:10	12/14/16 18:15	75-00-3	
Chloroform	<112	ug/kg	112	33.7	1	12/14/16 10:10	12/14/16 18:15	67-66-3	
Chloromethane	<112	ug/kg	112	33.6	1	12/14/16 10:10	12/14/16 18:15	74-87-3	
2-Chlorotoluene	<63.7	ug/kg	63.7	19.1	1	12/14/16 10:10	12/14/16 18:15	95-49-8	
4-Chlorotoluene	<60.5	ug/kg	60.5	18.2	1	12/14/16 10:10	12/14/16 18:15	106-43-4	
1,2-Dibromo-3-chloropropane	<135	ug/kg	135	135	1	12/14/16 10:10	12/14/16 18:15	96-12-8	
Dibromochloromethane	<198	ug/kg	198	59.5	1	12/14/16 10:10	12/14/16 18:15	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP7\_8-10** Lab ID: **10373134006** Collected: 12/12/16 15:05 Received: 12/13/16 17:25 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<26.1	ug/kg	26.1	26.1	1	12/14/16 10:10	12/14/16 18:15	106-93-4	
Dibromomethane	<90.0	ug/kg	90.0	27.0	1	12/14/16 10:10	12/14/16 18:15	74-95-3	
1,2-Dichlorobenzene	<13.4	ug/kg	13.4	13.4	1	12/14/16 10:10	12/14/16 18:15	95-50-1	
1,3-Dichlorobenzene	<20.4	ug/kg	20.4	20.4	1	12/14/16 10:10	12/14/16 18:15	541-73-1	
1,4-Dichlorobenzene	<67.0	ug/kg	67.0	20.1	1	12/14/16 10:10	12/14/16 18:15	106-46-7	
Dichlorodifluoromethane	<70.6	ug/kg	70.6	21.2	1	12/14/16 10:10	12/14/16 18:15	75-71-8	
1,1-Dichloroethane	<26.9	ug/kg	26.9	26.9	1	12/14/16 10:10	12/14/16 18:15	75-34-3	
1,2-Dichloroethane	<21.9	ug/kg	21.9	21.9	1	12/14/16 10:10	12/14/16 18:15	107-06-2	
1,1-Dichloroethene	<17.6	ug/kg	17.6	17.6	1	12/14/16 10:10	12/14/16 18:15	75-35-4	
cis-1,2-Dichloroethene	<85.9	ug/kg	85.9	25.8	1	12/14/16 10:10	12/14/16 18:15	156-59-2	
trans-1,2-Dichloroethene	<111	ug/kg	111	33.4	1	12/14/16 10:10	12/14/16 18:15	156-60-5	
Dichlorofluoromethane	<633	ug/kg	633	190	1	12/14/16 10:10	12/14/16 18:15	75-43-4	
1,2-Dichloropropane	<24.0	ug/kg	24.0	24.0	1	12/14/16 10:10	12/14/16 18:15	78-87-5	
1,3-Dichloropropane	<82.7	ug/kg	82.7	24.8	1	12/14/16 10:10	12/14/16 18:15	142-28-9	
2,2-Dichloropropane	<73.4	ug/kg	73.4	22.0	1	12/14/16 10:10	12/14/16 18:15	594-20-7	
1,1-Dichloropropene	<20.9	ug/kg	20.9	20.9	1	12/14/16 10:10	12/14/16 18:15	563-58-6	
cis-1,3-Dichloropropene	<105	ug/kg	105	31.6	1	12/14/16 10:10	12/14/16 18:15	10061-01-5	
trans-1,3-Dichloropropene	<78.5	ug/kg	78.5	23.6	1	12/14/16 10:10	12/14/16 18:15	10061-02-6	
Diethyl ether (Ethyl ether)	<95.1	ug/kg	95.1	28.6	1	12/14/16 10:10	12/14/16 18:15	60-29-7	
Ethylbenzene	<73.4	ug/kg	73.4	22.0	1	12/14/16 10:10	12/14/16 18:15	100-41-4	
Hexachloro-1,3-butadiene	<217	ug/kg	217	65.2	1	12/14/16 10:10	12/14/16 18:15	87-68-3	
Isopropylbenzene (Cumene)	<82.2	ug/kg	82.2	24.7	1	12/14/16 10:10	12/14/16 18:15	98-82-8	
p-Isopropyltoluene	<38.3	ug/kg	38.3	11.5	1	12/14/16 10:10	12/14/16 18:15	99-87-6	
Methylene Chloride	<428	ug/kg	428	128	1	12/14/16 10:10	12/14/16 18:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	<153	ug/kg	153	45.9	1	12/14/16 10:10	12/14/16 18:15	108-10-1	
Methyl-tert-butyl ether	<43.2	ug/kg	43.2	13.0	1	12/14/16 10:10	12/14/16 18:15	1634-04-4	
Naphthalene	<55.9	ug/kg	55.9	16.8	1	12/14/16 10:10	12/14/16 18:15	91-20-3	
n-Propylbenzene	<68.8	ug/kg	68.8	20.7	1	12/14/16 10:10	12/14/16 18:15	103-65-1	
Styrene	<60.0	ug/kg	60.0	18.0	1	12/14/16 10:10	12/14/16 18:15	100-42-5	
1,1,1,2-Tetrachloroethane	<27.5	ug/kg	27.5	27.5	1	12/14/16 10:10	12/14/16 18:15	630-20-6	
1,1,2,2-Tetrachloroethane	<15.4	ug/kg	15.4	15.4	1	12/14/16 10:10	12/14/16 18:15	79-34-5	
Tetrachloroethene	<88.2	ug/kg	88.2	26.5	1	12/14/16 10:10	12/14/16 18:15	127-18-4	
Tetrahydrofuran	<1150	ug/kg	1150	344	1	12/14/16 10:10	12/14/16 18:15	109-99-9	
Toluene	73.5	ug/kg	73.4	22.0	1	12/14/16 10:10	12/14/16 18:15	108-88-3	
1,2,3-Trichlorobenzene	<20.0	ug/kg	20.0	20.0	1	12/14/16 10:10	12/14/16 18:15	87-61-6	
1,2,4-Trichlorobenzene	<21.4	ug/kg	21.4	21.4	1	12/14/16 10:10	12/14/16 18:15	120-82-1	
1,1,1-Trichloroethane	<29.0	ug/kg	29.0	29.0	1	12/14/16 10:10	12/14/16 18:15	71-55-6	
1,1,2-Trichloroethane	<15.0	ug/kg	15.0	15.0	1	12/14/16 10:10	12/14/16 18:15	79-00-5	
Trichloroethene	<66.0	ug/kg	66.0	19.8	1	12/14/16 10:10	12/14/16 18:15	79-01-6	
Trichlorofluoromethane	<232	ug/kg	232	69.6	1	12/14/16 10:10	12/14/16 18:15	75-69-4	
1,2,3-Trichloropropane	<71.8	ug/kg	71.8	71.8	1	12/14/16 10:10	12/14/16 18:15	96-18-4	
1,1,2-Trichlorotrifluoroethane	<166	ug/kg	166	49.9	1	12/14/16 10:10	12/14/16 18:15	76-13-1	
1,2,4-Trimethylbenzene	<15.3	ug/kg	15.3	15.3	1	12/14/16 10:10	12/14/16 18:15	95-63-6	
1,3,5-Trimethylbenzene	<53.1	ug/kg	53.1	15.9	1	12/14/16 10:10	12/14/16 18:15	108-67-8	
Vinyl chloride	<29.6	ug/kg	29.6	8.9	1	12/14/16 10:10	12/14/16 18:15	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

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**Sample: GP7\_8-10**      **Lab ID: 10373134006**      Collected: 12/12/16 15:05      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<185	ug/kg	185	55.5	1	12/14/16 10:10	12/14/16 18:15	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-129		1	12/14/16 10:10	12/14/16 18:15	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/14/16 10:10	12/14/16 18:15	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/14/16 10:10	12/14/16 18:15	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP7\_10-12**      **Lab ID: 10373134007**      Collected: 12/12/16 15:10      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	24.1	%	0.10	0.10	1		12/27/16 12:57		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.52	1	12/14/16 11:14	12/20/16 15:55	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.36	1	12/14/16 11:14	12/20/16 15:55	208-96-8	
Anthracene	<2.0	ug/kg	2.0	0.60	1	12/14/16 11:14	12/20/16 15:55	120-12-7	
Benzo(a)anthracene	<2.1	ug/kg	2.1	0.62	1	12/14/16 11:14	12/20/16 15:55	56-55-3	
Benzo(a)pyrene	<1.5	ug/kg	1.5	0.46	1	12/14/16 11:14	12/20/16 15:55	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	2.5	0.75	1	12/14/16 11:14	12/20/16 15:55	205-99-2	
Benzo(g,h,i)perylene	<2.0	ug/kg	2.0	0.60	1	12/14/16 11:14	12/20/16 15:55	191-24-2	
Benzo(k)fluoranthene	<2.2	ug/kg	2.2	0.65	1	12/14/16 11:14	12/20/16 15:55	207-08-9	
Chrysene	<2.4	ug/kg	2.4	0.73	1	12/14/16 11:14	12/20/16 15:55	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.43	1	12/14/16 11:14	12/20/16 15:55	53-70-3	
Fluoranthene	<3.4	ug/kg	3.4	1.0	1	12/14/16 11:14	12/20/16 15:55	206-44-0	
Fluorene	<1.7	ug/kg	1.7	0.51	1	12/14/16 11:14	12/20/16 15:55	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.3	ug/kg	3.3	0.99	1	12/14/16 11:14	12/20/16 15:55	193-39-5	
Naphthalene	<1.6	ug/kg	1.6	0.47	1	12/14/16 11:14	12/20/16 15:55	91-20-3	
Phenanthrene	<1.8	ug/kg	1.8	0.53	1	12/14/16 11:14	12/20/16 15:55	85-01-8	
Pyrene	<3.6	ug/kg	3.6	1.1	1	12/14/16 11:14	12/20/16 15:55	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	82	%	41-125		1	12/14/16 11:14	12/20/16 15:55	321-60-8	
p-Terphenyl-d14 (S)	82	%	39-125		1	12/14/16 11:14	12/20/16 15:55	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1440	ug/kg	1440	434	1	12/14/16 10:10	12/14/16 18:33	67-64-1	
Allyl chloride	<189	ug/kg	189	56.7	1	12/14/16 10:10	12/14/16 18:33	107-05-1	
Benzene	23.3	ug/kg	19.0	5.7	1	12/14/16 10:10	12/14/16 18:33	71-43-2	B
Bromobenzene	<56.4	ug/kg	56.4	16.9	1	12/14/16 10:10	12/14/16 18:33	108-86-1	
Bromochloromethane	<65.6	ug/kg	65.6	19.7	1	12/14/16 10:10	12/14/16 18:33	74-97-5	
Bromodichloromethane	<61.6	ug/kg	61.6	18.5	1	12/14/16 10:10	12/14/16 18:33	75-27-4	
Bromoform	<190	ug/kg	190	57.0	1	12/14/16 10:10	12/14/16 18:33	75-25-2	
Bromomethane	<223	ug/kg	223	67.0	1	12/14/16 10:10	12/14/16 18:33	74-83-9	
2-Butanone (MEK)	<291	ug/kg	291	87.3	1	12/14/16 10:10	12/14/16 18:33	78-93-3	
n-Butylbenzene	<53.3	ug/kg	53.3	16.0	1	12/14/16 10:10	12/14/16 18:33	104-51-8	
sec-Butylbenzene	<52.0	ug/kg	52.0	15.6	1	12/14/16 10:10	12/14/16 18:33	135-98-8	
tert-Butylbenzene	<69.6	ug/kg	69.6	20.9	1	12/14/16 10:10	12/14/16 18:33	98-06-6	
Carbon tetrachloride	<69.1	ug/kg	69.1	20.8	1	12/14/16 10:10	12/14/16 18:33	56-23-5	
Chlorobenzene	<38.3	ug/kg	38.3	11.5	1	12/14/16 10:10	12/14/16 18:33	108-90-7	
Chloroethane	<348	ug/kg	348	104	1	12/14/16 10:10	12/14/16 18:33	75-00-3	
Chloroform	<107	ug/kg	107	32.1	1	12/14/16 10:10	12/14/16 18:33	67-66-3	
Chloromethane	<107	ug/kg	107	32.0	1	12/14/16 10:10	12/14/16 18:33	74-87-3	
2-Chlorotoluene	<60.8	ug/kg	60.8	18.2	1	12/14/16 10:10	12/14/16 18:33	95-49-8	
4-Chlorotoluene	<57.7	ug/kg	57.7	17.3	1	12/14/16 10:10	12/14/16 18:33	106-43-4	
1,2-Dibromo-3-chloropropane	<129	ug/kg	129	129	1	12/14/16 10:10	12/14/16 18:33	96-12-8	
Dibromochloromethane	<189	ug/kg	189	56.7	1	12/14/16 10:10	12/14/16 18:33	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP7\_10-12**      **Lab ID: 10373134007**      Collected: 12/12/16 15:10      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<24.9	ug/kg	24.9	24.9	1	12/14/16 10:10	12/14/16 18:33	106-93-4	
Dibromomethane	<85.9	ug/kg	85.9	25.8	1	12/14/16 10:10	12/14/16 18:33	74-95-3	
1,2-Dichlorobenzene	<12.8	ug/kg	12.8	12.8	1	12/14/16 10:10	12/14/16 18:33	95-50-1	
1,3-Dichlorobenzene	<19.4	ug/kg	19.4	19.4	1	12/14/16 10:10	12/14/16 18:33	541-73-1	
1,4-Dichlorobenzene	<63.8	ug/kg	63.8	19.2	1	12/14/16 10:10	12/14/16 18:33	106-46-7	
Dichlorodifluoromethane	<67.4	ug/kg	67.4	20.2	1	12/14/16 10:10	12/14/16 18:33	75-71-8	
1,1-Dichloroethane	<25.7	ug/kg	25.7	25.7	1	12/14/16 10:10	12/14/16 18:33	75-34-3	
1,2-Dichloroethane	<20.9	ug/kg	20.9	20.9	1	12/14/16 10:10	12/14/16 18:33	107-06-2	
1,1-Dichloroethene	<16.8	ug/kg	16.8	16.8	1	12/14/16 10:10	12/14/16 18:33	75-35-4	
cis-1,2-Dichloroethene	<81.9	ug/kg	81.9	24.6	1	12/14/16 10:10	12/14/16 18:33	156-59-2	
trans-1,2-Dichloroethene	<106	ug/kg	106	31.9	1	12/14/16 10:10	12/14/16 18:33	156-60-5	
Dichlorofluoromethane	<603	ug/kg	603	181	1	12/14/16 10:10	12/14/16 18:33	75-43-4	
1,2-Dichloropropane	<22.9	ug/kg	22.9	22.9	1	12/14/16 10:10	12/14/16 18:33	78-87-5	
1,3-Dichloropropane	<78.8	ug/kg	78.8	23.7	1	12/14/16 10:10	12/14/16 18:33	142-28-9	
2,2-Dichloropropane	<70.0	ug/kg	70.0	21.0	1	12/14/16 10:10	12/14/16 18:33	594-20-7	
1,1-Dichloropropene	<20.0	ug/kg	20.0	20.0	1	12/14/16 10:10	12/14/16 18:33	563-58-6	
cis-1,3-Dichloropropene	<100	ug/kg	100	30.1	1	12/14/16 10:10	12/14/16 18:33	10061-01-5	
trans-1,3-Dichloropropene	<74.9	ug/kg	74.9	22.5	1	12/14/16 10:10	12/14/16 18:33	10061-02-6	
Diethyl ether (Ethyl ether)	<90.7	ug/kg	90.7	27.2	1	12/14/16 10:10	12/14/16 18:33	60-29-7	
Ethylbenzene	<70.0	ug/kg	70.0	21.0	1	12/14/16 10:10	12/14/16 18:33	100-41-4	
Hexachloro-1,3-butadiene	<207	ug/kg	207	62.2	1	12/14/16 10:10	12/14/16 18:33	87-68-3	
Isopropylbenzene (Cumene)	<78.4	ug/kg	78.4	23.5	1	12/14/16 10:10	12/14/16 18:33	98-82-8	
p-Isopropyltoluene	<36.5	ug/kg	36.5	11.0	1	12/14/16 10:10	12/14/16 18:33	99-87-6	
Methylene Chloride	<408	ug/kg	408	122	1	12/14/16 10:10	12/14/16 18:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	<146	ug/kg	146	43.8	1	12/14/16 10:10	12/14/16 18:33	108-10-1	
Methyl-tert-butyl ether	<41.2	ug/kg	41.2	12.4	1	12/14/16 10:10	12/14/16 18:33	1634-04-4	
Naphthalene	<53.3	ug/kg	53.3	16.0	1	12/14/16 10:10	12/14/16 18:33	91-20-3	
n-Propylbenzene	<65.6	ug/kg	65.6	19.7	1	12/14/16 10:10	12/14/16 18:33	103-65-1	
Styrene	<57.2	ug/kg	57.2	17.2	1	12/14/16 10:10	12/14/16 18:33	100-42-5	
1,1,1,2-Tetrachloroethane	<26.2	ug/kg	26.2	26.2	1	12/14/16 10:10	12/14/16 18:33	630-20-6	
1,1,1,2,2-Tetrachloroethane	<14.7	ug/kg	14.7	14.7	1	12/14/16 10:10	12/14/16 18:33	79-34-5	
Tetrachloroethene	<84.1	ug/kg	84.1	25.3	1	12/14/16 10:10	12/14/16 18:33	127-18-4	
Tetrahydrofuran	<1090	ug/kg	1090	328	1	12/14/16 10:10	12/14/16 18:33	109-99-9	
Toluene	<70.0	ug/kg	70.0	21.0	1	12/14/16 10:10	12/14/16 18:33	108-88-3	
1,2,3-Trichlorobenzene	<19.0	ug/kg	19.0	19.0	1	12/14/16 10:10	12/14/16 18:33	87-61-6	
1,2,4-Trichlorobenzene	<20.4	ug/kg	20.4	20.4	1	12/14/16 10:10	12/14/16 18:33	120-82-1	
1,1,1-Trichloroethane	<27.6	ug/kg	27.6	27.6	1	12/14/16 10:10	12/14/16 18:33	71-55-6	
1,1,2-Trichloroethane	<14.3	ug/kg	14.3	14.3	1	12/14/16 10:10	12/14/16 18:33	79-00-5	
Trichloroethene	<63.0	ug/kg	63.0	18.9	1	12/14/16 10:10	12/14/16 18:33	79-01-6	
Trichlorofluoromethane	<221	ug/kg	221	66.4	1	12/14/16 10:10	12/14/16 18:33	75-69-4	
1,2,3-Trichloropropane	<68.5	ug/kg	68.5	68.5	1	12/14/16 10:10	12/14/16 18:33	96-18-4	
1,1,2-Trichlorotrifluoroethane	<159	ug/kg	159	47.6	1	12/14/16 10:10	12/14/16 18:33	76-13-1	
1,2,4-Trimethylbenzene	<14.5	ug/kg	14.5	14.5	1	12/14/16 10:10	12/14/16 18:33	95-63-6	
1,3,5-Trimethylbenzene	<50.6	ug/kg	50.6	15.2	1	12/14/16 10:10	12/14/16 18:33	108-67-8	
Vinyl chloride	<28.3	ug/kg	28.3	8.5	1	12/14/16 10:10	12/14/16 18:33	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP7\_10-12**      **Lab ID: 10373134007**      Collected: 12/12/16 15:10      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<176	ug/kg	176	52.9	1	12/14/16 10:10	12/14/16 18:33	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%	75-129		1	12/14/16 10:10	12/14/16 18:33	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/14/16 10:10	12/14/16 18:33	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/14/16 10:10	12/14/16 18:33	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: GP8\_3-5 Lab ID: 10373134008 Collected: 12/12/16 18:20 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	26.4	%	0.10	0.10	1		12/27/16 12:57		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.8	ug/kg	1.8	0.53	1	12/14/16 11:14	12/20/16 16:16	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.37	1	12/14/16 11:14	12/20/16 16:16	208-96-8	
Anthracene	<2.1	ug/kg	2.1	0.62	1	12/14/16 11:14	12/20/16 16:16	120-12-7	
Benzo(a)anthracene	27.8	ug/kg	2.1	0.64	1	12/14/16 11:14	12/20/16 16:16	56-55-3	
Benzo(a)pyrene	24.0	ug/kg	1.6	0.47	1	12/14/16 11:14	12/20/16 16:16	50-32-8	
Benzo(b)fluoranthene	46.7	ug/kg	2.6	0.78	1	12/14/16 11:14	12/20/16 16:16	205-99-2	
Benzo(g,h,i)perylene	21.8	ug/kg	2.1	0.62	1	12/14/16 11:14	12/20/16 16:16	191-24-2	
Benzo(k)fluoranthene	24.1	ug/kg	2.2	0.67	1	12/14/16 11:14	12/20/16 16:16	207-08-9	
Chrysene	33.1	ug/kg	2.5	0.75	1	12/14/16 11:14	12/20/16 16:16	218-01-9	
Dibenz(a,h)anthracene	6.8	ug/kg	1.5	0.44	1	12/14/16 11:14	12/20/16 16:16	53-70-3	
Fluoranthene	69.0	ug/kg	3.5	1.1	1	12/14/16 11:14	12/20/16 16:16	206-44-0	
Fluorene	<1.7	ug/kg	1.7	0.52	1	12/14/16 11:14	12/20/16 16:16	86-73-7	
Indeno(1,2,3-cd)pyrene	20.2	ug/kg	3.4	1.0	1	12/14/16 11:14	12/20/16 16:16	193-39-5	
Naphthalene	21.6	ug/kg	1.6	0.48	1	12/14/16 11:14	12/20/16 16:16	91-20-3	
Phenanthrene	34.3	ug/kg	1.8	0.55	1	12/14/16 11:14	12/20/16 16:16	85-01-8	
Pyrene	54.0	ug/kg	3.7	1.1	1	12/14/16 11:14	12/20/16 16:16	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	64	%	41-125		1	12/14/16 11:14	12/20/16 16:16	321-60-8	
p-Terphenyl-d14 (S)	73	%	39-125		1	12/14/16 11:14	12/20/16 16:16	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1700	ug/kg	1700	509	1	12/14/16 10:10	12/14/16 18:50	67-64-1	
Allyl chloride	<222	ug/kg	222	66.6	1	12/14/16 10:10	12/14/16 18:50	107-05-1	
Benzene	366000	ug/kg	558	168	25	12/14/16 10:10	12/16/16 09:18	71-43-2	
Bromobenzene	<66.2	ug/kg	66.2	19.9	1	12/14/16 10:10	12/14/16 18:50	108-86-1	
Bromochloromethane	<77.0	ug/kg	77.0	23.1	1	12/14/16 10:10	12/14/16 18:50	74-97-5	
Bromodichloromethane	<72.4	ug/kg	72.4	21.7	1	12/14/16 10:10	12/14/16 18:50	75-27-4	
Bromoform	<223	ug/kg	223	66.9	1	12/14/16 10:10	12/14/16 18:50	75-25-2	
Bromomethane	<262	ug/kg	262	78.7	1	12/14/16 10:10	12/14/16 18:50	74-83-9	
2-Butanone (MEK)	<341	ug/kg	341	102	1	12/14/16 10:10	12/14/16 18:50	78-93-3	
n-Butylbenzene	<62.6	ug/kg	62.6	18.8	1	12/14/16 10:10	12/14/16 18:50	104-51-8	
sec-Butylbenzene	<61.0	ug/kg	61.0	18.3	1	12/14/16 10:10	12/14/16 18:50	135-98-8	
tert-Butylbenzene	<81.7	ug/kg	81.7	24.5	1	12/14/16 10:10	12/14/16 18:50	98-06-6	
Carbon tetrachloride	<81.2	ug/kg	81.2	24.4	1	12/14/16 10:10	12/14/16 18:50	56-23-5	
Chlorobenzene	<45.0	ug/kg	45.0	13.5	1	12/14/16 10:10	12/14/16 18:50	108-90-7	
Chloroethane	<408	ug/kg	408	123	1	12/14/16 10:10	12/14/16 18:50	75-00-3	
Chloroform	<126	ug/kg	126	37.7	1	12/14/16 10:10	12/14/16 18:50	67-66-3	
Chloromethane	<125	ug/kg	125	37.6	1	12/14/16 10:10	12/14/16 18:50	74-87-3	
2-Chlorotoluene	<71.3	ug/kg	71.3	21.4	1	12/14/16 10:10	12/14/16 18:50	95-49-8	
4-Chlorotoluene	<67.7	ug/kg	67.7	20.3	1	12/14/16 10:10	12/14/16 18:50	106-43-4	
1,2-Dibromo-3-chloropropane	<151	ug/kg	151	151	1	12/14/16 10:10	12/14/16 18:50	96-12-8	
Dibromochloromethane	<222	ug/kg	222	66.6	1	12/14/16 10:10	12/14/16 18:50	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP8\_3-5** Lab ID: **10373134008** Collected: 12/12/16 18:20 Received: 12/13/16 17:25 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<29.2	ug/kg	29.2	29.2	1	12/14/16 10:10	12/14/16 18:50	106-93-4	
Dibromomethane	<101	ug/kg	101	30.3	1	12/14/16 10:10	12/14/16 18:50	74-95-3	
1,2-Dichlorobenzene	<15.0	ug/kg	15.0	15.0	1	12/14/16 10:10	12/14/16 18:50	95-50-1	
1,3-Dichlorobenzene	<22.8	ug/kg	22.8	22.8	1	12/14/16 10:10	12/14/16 18:50	541-73-1	
1,4-Dichlorobenzene	<75.0	ug/kg	75.0	22.5	1	12/14/16 10:10	12/14/16 18:50	106-46-7	
Dichlorodifluoromethane	<79.1	ug/kg	79.1	23.8	1	12/14/16 10:10	12/14/16 18:50	75-71-8	
1,1-Dichloroethane	<30.1	ug/kg	30.1	30.1	1	12/14/16 10:10	12/14/16 18:50	75-34-3	
1,2-Dichloroethane	<24.5	ug/kg	24.5	24.5	1	12/14/16 10:10	12/14/16 18:50	107-06-2	
1,1-Dichloroethene	<19.7	ug/kg	19.7	19.7	1	12/14/16 10:10	12/14/16 18:50	75-35-4	
cis-1,2-Dichloroethene	<96.2	ug/kg	96.2	28.9	1	12/14/16 10:10	12/14/16 18:50	156-59-2	
trans-1,2-Dichloroethene	<125	ug/kg	125	37.4	1	12/14/16 10:10	12/14/16 18:50	156-60-5	
Dichlorofluoromethane	<708	ug/kg	708	213	1	12/14/16 10:10	12/14/16 18:50	75-43-4	
1,2-Dichloropropane	<26.9	ug/kg	26.9	26.9	1	12/14/16 10:10	12/14/16 18:50	78-87-5	
1,3-Dichloropropane	<92.5	ug/kg	92.5	27.8	1	12/14/16 10:10	12/14/16 18:50	142-28-9	
2,2-Dichloropropane	<82.2	ug/kg	82.2	24.7	1	12/14/16 10:10	12/14/16 18:50	594-20-7	
1,1-Dichloropropene	<23.4	ug/kg	23.4	23.4	1	12/14/16 10:10	12/14/16 18:50	563-58-6	
cis-1,3-Dichloropropene	<118	ug/kg	118	35.4	1	12/14/16 10:10	12/14/16 18:50	10061-01-5	
trans-1,3-Dichloropropene	<87.9	ug/kg	87.9	26.4	1	12/14/16 10:10	12/14/16 18:50	10061-02-6	
Diethyl ether (Ethyl ether)	<106	ug/kg	106	32.0	1	12/14/16 10:10	12/14/16 18:50	60-29-7	
Ethylbenzene	2540	ug/kg	82.2	24.7	1	12/14/16 10:10	12/14/16 18:50	100-41-4	
Hexachloro-1,3-butadiene	<243	ug/kg	243	73.0	1	12/14/16 10:10	12/14/16 18:50	87-68-3	
Isopropylbenzene (Cumene)	<92.0	ug/kg	92.0	27.6	1	12/14/16 10:10	12/14/16 18:50	98-82-8	
p-Isopropyltoluene	<42.9	ug/kg	42.9	12.9	1	12/14/16 10:10	12/14/16 18:50	99-87-6	
Methylene Chloride	<479	ug/kg	479	144	1	12/14/16 10:10	12/14/16 18:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	<171	ug/kg	171	51.4	1	12/14/16 10:10	12/14/16 18:50	108-10-1	
Methyl-tert-butyl ether	<48.4	ug/kg	48.4	14.5	1	12/14/16 10:10	12/14/16 18:50	1634-04-4	
Naphthalene	400	ug/kg	62.6	18.8	1	12/14/16 10:10	12/14/16 18:50	91-20-3	
n-Propylbenzene	<77.0	ug/kg	77.0	23.1	1	12/14/16 10:10	12/14/16 18:50	103-65-1	
Styrene	160	ug/kg	67.2	20.2	1	12/14/16 10:10	12/14/16 18:50	100-42-5	
1,1,1,2-Tetrachloroethane	<30.7	ug/kg	30.7	30.7	1	12/14/16 10:10	12/14/16 18:50	630-20-6	
1,1,1,2,2-Tetrachloroethane	<17.2	ug/kg	17.2	17.2	1	12/14/16 10:10	12/14/16 18:50	79-34-5	
Tetrachloroethene	<98.7	ug/kg	98.7	29.7	1	12/14/16 10:10	12/14/16 18:50	127-18-4	
Tetrahydrofuran	<1280	ug/kg	1280	385	1	12/14/16 10:10	12/14/16 18:50	109-99-9	
Toluene	126000	ug/kg	822	247	10	12/14/16 10:10	12/15/16 12:38	108-88-3	
1,2,3-Trichlorobenzene	<22.4	ug/kg	22.4	22.4	1	12/14/16 10:10	12/14/16 18:50	87-61-6	
1,2,4-Trichlorobenzene	<23.9	ug/kg	23.9	23.9	1	12/14/16 10:10	12/14/16 18:50	120-82-1	
1,1,1-Trichloroethane	<32.4	ug/kg	32.4	32.4	1	12/14/16 10:10	12/14/16 18:50	71-55-6	
1,1,2-Trichloroethane	<16.8	ug/kg	16.8	16.8	1	12/14/16 10:10	12/14/16 18:50	79-00-5	
Trichloroethene	<73.9	ug/kg	73.9	22.2	1	12/14/16 10:10	12/14/16 18:50	79-01-6	
Trichlorofluoromethane	<260	ug/kg	260	77.9	1	12/14/16 10:10	12/14/16 18:50	75-69-4	
1,2,3-Trichloropropane	<80.4	ug/kg	80.4	80.4	1	12/14/16 10:10	12/14/16 18:50	96-18-4	
1,1,2-Trichlorotrifluoroethane	<186	ug/kg	186	55.9	1	12/14/16 10:10	12/14/16 18:50	76-13-1	
1,2,4-Trimethylbenzene	597	ug/kg	17.1	17.1	1	12/14/16 10:10	12/14/16 18:50	95-63-6	
1,3,5-Trimethylbenzene	601	ug/kg	59.5	17.9	1	12/14/16 10:10	12/14/16 18:50	108-67-8	
Vinyl chloride	<33.2	ug/kg	33.2	10	1	12/14/16 10:10	12/14/16 18:50	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP8\_3-5**      **Lab ID: 10373134008**      Collected: 12/12/16 18:20      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>35000</b>	ug/kg	207	62.1	1	12/14/16 10:10	12/14/16 18:50	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-129		1	12/14/16 10:10	12/14/16 18:50	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/14/16 10:10	12/14/16 18:50	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/14/16 10:10	12/14/16 18:50	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP8\_8-10**      **Lab ID: 10373134009**      Collected: 12/12/16 15:25      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	25.3	%	0.10	0.10	1		12/27/16 12:57		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.52	1	12/14/16 11:14	12/20/16 16:38	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.36	1	12/14/16 11:14	12/20/16 16:38	208-96-8	
Anthracene	<2.0	ug/kg	2.0	0.61	1	12/14/16 11:14	12/20/16 16:38	120-12-7	
Benzo(a)anthracene	<2.1	ug/kg	2.1	0.63	1	12/14/16 11:14	12/20/16 16:38	56-55-3	
Benzo(a)pyrene	<1.5	ug/kg	1.5	0.46	1	12/14/16 11:14	12/20/16 16:38	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	2.5	0.77	1	12/14/16 11:14	12/20/16 16:38	205-99-2	
Benzo(g,h,i)perylene	<2.0	ug/kg	2.0	0.61	1	12/14/16 11:14	12/20/16 16:38	191-24-2	
Benzo(k)fluoranthene	<2.2	ug/kg	2.2	0.66	1	12/14/16 11:14	12/20/16 16:38	207-08-9	
Chrysene	<2.5	ug/kg	2.5	0.74	1	12/14/16 11:14	12/20/16 16:38	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.44	1	12/14/16 11:14	12/20/16 16:38	53-70-3	
Fluoranthene	<3.5	ug/kg	3.5	1.0	1	12/14/16 11:14	12/20/16 16:38	206-44-0	
Fluorene	<1.7	ug/kg	1.7	0.51	1	12/14/16 11:14	12/20/16 16:38	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.3	ug/kg	3.3	1.0	1	12/14/16 11:14	12/20/16 16:38	193-39-5	
Naphthalene	<1.6	ug/kg	1.6	0.48	1	12/14/16 11:14	12/20/16 16:38	91-20-3	
Phenanthrene	<1.8	ug/kg	1.8	0.54	1	12/14/16 11:14	12/20/16 16:38	85-01-8	
Pyrene	<3.7	ug/kg	3.7	1.1	1	12/14/16 11:14	12/20/16 16:38	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	74	%	41-125		1	12/14/16 11:14	12/20/16 16:38	321-60-8	
p-Terphenyl-d14 (S)	77	%	39-125		1	12/14/16 11:14	12/20/16 16:38	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1600	ug/kg	1600	481	1	12/14/16 10:10	12/14/16 19:08	67-64-1	
Allyl chloride	<209	ug/kg	209	62.9	1	12/14/16 10:10	12/14/16 19:08	107-05-1	
Benzene	145000	ug/kg	211	63.3	10	12/14/16 10:10	12/15/16 12:55	71-43-2	
Bromobenzene	<62.5	ug/kg	62.5	18.8	1	12/14/16 10:10	12/14/16 19:08	108-86-1	
Bromochloromethane	<72.8	ug/kg	72.8	21.8	1	12/14/16 10:10	12/14/16 19:08	74-97-5	
Bromodichloromethane	<68.4	ug/kg	68.4	20.5	1	12/14/16 10:10	12/14/16 19:08	75-27-4	
Bromoform	<210	ug/kg	210	63.2	1	12/14/16 10:10	12/14/16 19:08	75-25-2	
Bromomethane	<248	ug/kg	248	74.3	1	12/14/16 10:10	12/14/16 19:08	74-83-9	
2-Butanone (MEK)	<322	ug/kg	322	96.8	1	12/14/16 10:10	12/14/16 19:08	78-93-3	
n-Butylbenzene	<59.1	ug/kg	59.1	17.7	1	12/14/16 10:10	12/14/16 19:08	104-51-8	
sec-Butylbenzene	<57.6	ug/kg	57.6	17.3	1	12/14/16 10:10	12/14/16 19:08	135-98-8	
tert-Butylbenzene	<77.2	ug/kg	77.2	23.2	1	12/14/16 10:10	12/14/16 19:08	98-06-6	
Carbon tetrachloride	<76.7	ug/kg	76.7	23.0	1	12/14/16 10:10	12/14/16 19:08	56-23-5	
Chlorobenzene	<42.5	ug/kg	42.5	12.8	1	12/14/16 10:10	12/14/16 19:08	108-90-7	
Chloroethane	<386	ug/kg	386	116	1	12/14/16 10:10	12/14/16 19:08	75-00-3	
Chloroform	<119	ug/kg	119	35.6	1	12/14/16 10:10	12/14/16 19:08	67-66-3	
Chloromethane	<118	ug/kg	118	35.5	1	12/14/16 10:10	12/14/16 19:08	74-87-3	
2-Chlorotoluene	<67.4	ug/kg	67.4	20.2	1	12/14/16 10:10	12/14/16 19:08	95-49-8	
4-Chlorotoluene	<64.0	ug/kg	64.0	19.2	1	12/14/16 10:10	12/14/16 19:08	106-43-4	
1,2-Dibromo-3-chloropropane	<143	ug/kg	143	143	1	12/14/16 10:10	12/14/16 19:08	96-12-8	
Dibromochloromethane	<209	ug/kg	209	62.9	1	12/14/16 10:10	12/14/16 19:08	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP8\_8-10** Lab ID: **10373134009** Collected: 12/12/16 15:25 Received: 12/13/16 17:25 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<27.6	ug/kg	27.6	27.6	1	12/14/16 10:10	12/14/16 19:08	106-93-4	
Dibromomethane	<95.2	ug/kg	95.2	28.6	1	12/14/16 10:10	12/14/16 19:08	74-95-3	
1,2-Dichlorobenzene	<14.2	ug/kg	14.2	14.2	1	12/14/16 10:10	12/14/16 19:08	95-50-1	
1,3-Dichlorobenzene	<21.6	ug/kg	21.6	21.6	1	12/14/16 10:10	12/14/16 19:08	541-73-1	
1,4-Dichlorobenzene	<70.8	ug/kg	70.8	21.3	1	12/14/16 10:10	12/14/16 19:08	106-46-7	
Dichlorodifluoromethane	<74.7	ug/kg	74.7	22.4	1	12/14/16 10:10	12/14/16 19:08	75-71-8	
1,1-Dichloroethane	<28.4	ug/kg	28.4	28.4	1	12/14/16 10:10	12/14/16 19:08	75-34-3	
1,2-Dichloroethane	<23.2	ug/kg	23.2	23.2	1	12/14/16 10:10	12/14/16 19:08	107-06-2	
1,1-Dichloroethene	<18.6	ug/kg	18.6	18.6	1	12/14/16 10:10	12/14/16 19:08	75-35-4	
cis-1,2-Dichloroethene	<90.8	ug/kg	90.8	27.3	1	12/14/16 10:10	12/14/16 19:08	156-59-2	
trans-1,2-Dichloroethene	<118	ug/kg	118	35.3	1	12/14/16 10:10	12/14/16 19:08	156-60-5	
Dichlorofluoromethane	<669	ug/kg	669	201	1	12/14/16 10:10	12/14/16 19:08	75-43-4	
1,2-Dichloropropane	<25.4	ug/kg	25.4	25.4	1	12/14/16 10:10	12/14/16 19:08	78-87-5	
1,3-Dichloropropane	<87.4	ug/kg	87.4	26.2	1	12/14/16 10:10	12/14/16 19:08	142-28-9	
2,2-Dichloropropane	<77.6	ug/kg	77.6	23.3	1	12/14/16 10:10	12/14/16 19:08	594-20-7	
1,1-Dichloropropene	<22.1	ug/kg	22.1	22.1	1	12/14/16 10:10	12/14/16 19:08	563-58-6	
cis-1,3-Dichloropropene	<111	ug/kg	111	33.4	1	12/14/16 10:10	12/14/16 19:08	10061-01-5	
trans-1,3-Dichloropropene	<83.0	ug/kg	83.0	24.9	1	12/14/16 10:10	12/14/16 19:08	10061-02-6	
Diethyl ether (Ethyl ether)	<101	ug/kg	101	30.2	1	12/14/16 10:10	12/14/16 19:08	60-29-7	
Ethylbenzene	235	ug/kg	77.6	23.3	1	12/14/16 10:10	12/14/16 19:08	100-41-4	
Hexachloro-1,3-butadiene	<230	ug/kg	230	68.9	1	12/14/16 10:10	12/14/16 19:08	87-68-3	
Isopropylbenzene (Cumene)	<86.9	ug/kg	86.9	26.1	1	12/14/16 10:10	12/14/16 19:08	98-82-8	
p-Isopropyltoluene	<40.5	ug/kg	40.5	12.2	1	12/14/16 10:10	12/14/16 19:08	99-87-6	
Methylene Chloride	<452	ug/kg	452	136	1	12/14/16 10:10	12/14/16 19:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	<162	ug/kg	162	48.5	1	12/14/16 10:10	12/14/16 19:08	108-10-1	
Methyl-tert-butyl ether	<45.7	ug/kg	45.7	13.7	1	12/14/16 10:10	12/14/16 19:08	1634-04-4	
Naphthalene	<59.1	ug/kg	59.1	17.7	1	12/14/16 10:10	12/14/16 19:08	91-20-3	
n-Propylbenzene	<72.8	ug/kg	72.8	21.8	1	12/14/16 10:10	12/14/16 19:08	103-65-1	
Styrene	<63.5	ug/kg	63.5	19.1	1	12/14/16 10:10	12/14/16 19:08	100-42-5	
1,1,1,2-Tetrachloroethane	<29.0	ug/kg	29.0	29.0	1	12/14/16 10:10	12/14/16 19:08	630-20-6	
1,1,1,2,2-Tetrachloroethane	<16.3	ug/kg	16.3	16.3	1	12/14/16 10:10	12/14/16 19:08	79-34-5	
Tetrachloroethene	<93.3	ug/kg	93.3	28.0	1	12/14/16 10:10	12/14/16 19:08	127-18-4	
Tetrahydrofuran	<1210	ug/kg	1210	364	1	12/14/16 10:10	12/14/16 19:08	109-99-9	
Toluene	9430	ug/kg	77.6	23.3	1	12/14/16 10:10	12/14/16 19:08	108-88-3	
1,2,3-Trichlorobenzene	<21.1	ug/kg	21.1	21.1	1	12/14/16 10:10	12/14/16 19:08	87-61-6	
1,2,4-Trichlorobenzene	<22.6	ug/kg	22.6	22.6	1	12/14/16 10:10	12/14/16 19:08	120-82-1	
1,1,1-Trichloroethane	<30.6	ug/kg	30.6	30.6	1	12/14/16 10:10	12/14/16 19:08	71-55-6	
1,1,2-Trichloroethane	<15.8	ug/kg	15.8	15.8	1	12/14/16 10:10	12/14/16 19:08	79-00-5	
Trichloroethene	<69.8	ug/kg	69.8	21.0	1	12/14/16 10:10	12/14/16 19:08	79-01-6	
Trichlorofluoromethane	<245	ug/kg	245	73.6	1	12/14/16 10:10	12/14/16 19:08	75-69-4	
1,2,3-Trichloropropane	<76.0	ug/kg	76.0	76.0	1	12/14/16 10:10	12/14/16 19:08	96-18-4	
1,1,2-Trichlorotrifluoroethane	<176	ug/kg	176	52.8	1	12/14/16 10:10	12/14/16 19:08	76-13-1	
1,2,4-Trimethylbenzene	21.6	ug/kg	16.1	16.1	1	12/14/16 10:10	12/14/16 19:08	95-63-6	
1,3,5-Trimethylbenzene	<56.2	ug/kg	56.2	16.9	1	12/14/16 10:10	12/14/16 19:08	108-67-8	
Vinyl chloride	<31.3	ug/kg	31.3	9.4	1	12/14/16 10:10	12/14/16 19:08	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

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**Sample: GP8\_8-10**      **Lab ID: 10373134009**    Collected: 12/12/16 15:25    Received: 12/13/16 17:25    Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>2370</b>	ug/kg	195	58.7	1	12/14/16 10:10	12/14/16 19:08	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-129		1	12/14/16 10:10	12/14/16 19:08	17060-07-0	
Toluene-d8 (S)	104	%	75-125		1	12/14/16 10:10	12/14/16 19:08	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/14/16 10:10	12/14/16 19:08	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP8\_13-15**      **Lab ID: 10373134010**      Collected: 12/12/16 15:30      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>28.9</b>	%	0.10	0.10	1		12/27/16 12:58		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.8	ug/kg	1.8	0.55	1	12/14/16 11:14	12/20/16 17:00	83-32-9	
Acenaphthylene	<1.3	ug/kg	1.3	0.38	1	12/14/16 11:14	12/20/16 17:00	208-96-8	
Anthracene	<2.1	ug/kg	2.1	0.64	1	12/14/16 11:14	12/20/16 17:00	120-12-7	
Benzo(a)anthracene	<2.2	ug/kg	2.2	0.66	1	12/14/16 11:14	12/20/16 17:00	56-55-3	
Benzo(a)pyrene	<1.6	ug/kg	1.6	0.49	1	12/14/16 11:14	12/20/16 17:00	50-32-8	
Benzo(b)fluoranthene	<2.7	ug/kg	2.7	0.80	1	12/14/16 11:14	12/20/16 17:00	205-99-2	
Benzo(g,h,i)perylene	<2.1	ug/kg	2.1	0.64	1	12/14/16 11:14	12/20/16 17:00	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	2.3	0.69	1	12/14/16 11:14	12/20/16 17:00	207-08-9	
Chrysene	<2.6	ug/kg	2.6	0.78	1	12/14/16 11:14	12/20/16 17:00	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.46	1	12/14/16 11:14	12/20/16 17:00	53-70-3	
Fluoranthene	<3.7	ug/kg	3.7	1.1	1	12/14/16 11:14	12/20/16 17:00	206-44-0	
Fluorene	<1.8	ug/kg	1.8	0.54	1	12/14/16 11:14	12/20/16 17:00	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.5	ug/kg	3.5	1.1	1	12/14/16 11:14	12/20/16 17:00	193-39-5	
Naphthalene	<1.7	ug/kg	1.7	0.50	1	12/14/16 11:14	12/20/16 17:00	91-20-3	
Phenanthrene	<1.9	ug/kg	1.9	0.57	1	12/14/16 11:14	12/20/16 17:00	85-01-8	
Pyrene	<3.9	ug/kg	3.9	1.2	1	12/14/16 11:14	12/20/16 17:00	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	88	%	41-125		1	12/14/16 11:14	12/20/16 17:00	321-60-8	
p-Terphenyl-d14 (S)	81	%	39-125		1	12/14/16 11:14	12/20/16 17:00	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1460	ug/kg	1460	440	1	12/14/16 10:10	12/14/16 19:25	67-64-1	
Allyl chloride	<192	ug/kg	192	57.5	1	12/14/16 10:10	12/14/16 19:25	107-05-1	
Benzene	<b>15100</b>	ug/kg	19.3	5.8	1	12/14/16 10:10	12/14/16 19:25	71-43-2	
Bromobenzene	<57.2	ug/kg	57.2	17.2	1	12/14/16 10:10	12/14/16 19:25	108-86-1	
Bromochloromethane	<66.5	ug/kg	66.5	20.0	1	12/14/16 10:10	12/14/16 19:25	74-97-5	
Bromodichloromethane	<62.5	ug/kg	62.5	18.8	1	12/14/16 10:10	12/14/16 19:25	75-27-4	
Bromoform	<192	ug/kg	192	57.8	1	12/14/16 10:10	12/14/16 19:25	75-25-2	
Bromomethane	<226	ug/kg	226	68.0	1	12/14/16 10:10	12/14/16 19:25	74-83-9	
2-Butanone (MEK)	<295	ug/kg	295	88.5	1	12/14/16 10:10	12/14/16 19:25	78-93-3	
n-Butylbenzene	<54.0	ug/kg	54.0	16.2	1	12/14/16 10:10	12/14/16 19:25	104-51-8	
sec-Butylbenzene	<52.7	ug/kg	52.7	15.8	1	12/14/16 10:10	12/14/16 19:25	135-98-8	
tert-Butylbenzene	<70.5	ug/kg	70.5	21.2	1	12/14/16 10:10	12/14/16 19:25	98-06-6	
Carbon tetrachloride	<70.1	ug/kg	70.1	21.1	1	12/14/16 10:10	12/14/16 19:25	56-23-5	
Chlorobenzene	<38.8	ug/kg	38.8	11.7	1	12/14/16 10:10	12/14/16 19:25	108-90-7	
Chloroethane	<353	ug/kg	353	106	1	12/14/16 10:10	12/14/16 19:25	75-00-3	
Chloroform	<109	ug/kg	109	32.6	1	12/14/16 10:10	12/14/16 19:25	67-66-3	
Chloromethane	<108	ug/kg	108	32.4	1	12/14/16 10:10	12/14/16 19:25	74-87-3	
2-Chlorotoluene	<61.6	ug/kg	61.6	18.5	1	12/14/16 10:10	12/14/16 19:25	95-49-8	
4-Chlorotoluene	<58.5	ug/kg	58.5	17.6	1	12/14/16 10:10	12/14/16 19:25	106-43-4	
1,2-Dibromo-3-chloropropane	<131	ug/kg	131	131	1	12/14/16 10:10	12/14/16 19:25	96-12-8	
Dibromochloromethane	<192	ug/kg	192	57.5	1	12/14/16 10:10	12/14/16 19:25	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP8\_13-15** Lab ID: **10373134010** Collected: 12/12/16 15:30 Received: 12/13/16 17:25 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<25.2	ug/kg	25.2	25.2	1	12/14/16 10:10	12/14/16 19:25	106-93-4	
Dibromomethane	<87.1	ug/kg	87.1	26.1	1	12/14/16 10:10	12/14/16 19:25	74-95-3	
1,2-Dichlorobenzene	<13.0	ug/kg	13.0	13.0	1	12/14/16 10:10	12/14/16 19:25	95-50-1	
1,3-Dichlorobenzene	<19.7	ug/kg	19.7	19.7	1	12/14/16 10:10	12/14/16 19:25	541-73-1	
1,4-Dichlorobenzene	<64.7	ug/kg	64.7	19.4	1	12/14/16 10:10	12/14/16 19:25	106-46-7	
Dichlorodifluoromethane	<68.3	ug/kg	68.3	20.5	1	12/14/16 10:10	12/14/16 19:25	75-71-8	
1,1-Dichloroethane	<26.0	ug/kg	26.0	26.0	1	12/14/16 10:10	12/14/16 19:25	75-34-3	
1,2-Dichloroethane	<21.2	ug/kg	21.2	21.2	1	12/14/16 10:10	12/14/16 19:25	107-06-2	
1,1-Dichloroethene	<17.0	ug/kg	17.0	17.0	1	12/14/16 10:10	12/14/16 19:25	75-35-4	
cis-1,2-Dichloroethene	<83.0	ug/kg	83.0	24.9	1	12/14/16 10:10	12/14/16 19:25	156-59-2	
trans-1,2-Dichloroethene	<108	ug/kg	108	32.3	1	12/14/16 10:10	12/14/16 19:25	156-60-5	
Dichlorofluoromethane	<612	ug/kg	612	184	1	12/14/16 10:10	12/14/16 19:25	75-43-4	
1,2-Dichloropropane	<23.2	ug/kg	23.2	23.2	1	12/14/16 10:10	12/14/16 19:25	78-87-5	
1,3-Dichloropropane	<79.9	ug/kg	79.9	24.0	1	12/14/16 10:10	12/14/16 19:25	142-28-9	
2,2-Dichloropropane	<71.0	ug/kg	71.0	21.3	1	12/14/16 10:10	12/14/16 19:25	594-20-7	
1,1-Dichloropropene	<20.2	ug/kg	20.2	20.2	1	12/14/16 10:10	12/14/16 19:25	563-58-6	
cis-1,3-Dichloropropene	<102	ug/kg	102	30.6	1	12/14/16 10:10	12/14/16 19:25	10061-01-5	
trans-1,3-Dichloropropene	<75.9	ug/kg	75.9	22.8	1	12/14/16 10:10	12/14/16 19:25	10061-02-6	
Diethyl ether (Ethyl ether)	<92.0	ug/kg	92.0	27.6	1	12/14/16 10:10	12/14/16 19:25	60-29-7	
Ethylbenzene	<71.0	ug/kg	71.0	21.3	1	12/14/16 10:10	12/14/16 19:25	100-41-4	
Hexachloro-1,3-butadiene	<210	ug/kg	210	63.0	1	12/14/16 10:10	12/14/16 19:25	87-68-3	
Isopropylbenzene (Cumene)	<79.5	ug/kg	79.5	23.9	1	12/14/16 10:10	12/14/16 19:25	98-82-8	
p-Isopropyltoluene	<37.1	ug/kg	37.1	11.1	1	12/14/16 10:10	12/14/16 19:25	99-87-6	
Methylene Chloride	<413	ug/kg	413	124	1	12/14/16 10:10	12/14/16 19:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	<148	ug/kg	148	44.4	1	12/14/16 10:10	12/14/16 19:25	108-10-1	
Methyl-tert-butyl ether	<41.8	ug/kg	41.8	12.6	1	12/14/16 10:10	12/14/16 19:25	1634-04-4	
Naphthalene	<54.0	ug/kg	54.0	16.2	1	12/14/16 10:10	12/14/16 19:25	91-20-3	
n-Propylbenzene	<66.5	ug/kg	66.5	20.0	1	12/14/16 10:10	12/14/16 19:25	103-65-1	
Styrene	<58.0	ug/kg	58.0	17.4	1	12/14/16 10:10	12/14/16 19:25	100-42-5	
1,1,1,2-Tetrachloroethane	<26.5	ug/kg	26.5	26.5	1	12/14/16 10:10	12/14/16 19:25	630-20-6	
1,1,2,2-Tetrachloroethane	<14.9	ug/kg	14.9	14.9	1	12/14/16 10:10	12/14/16 19:25	79-34-5	
Tetrachloroethene	<85.3	ug/kg	85.3	25.6	1	12/14/16 10:10	12/14/16 19:25	127-18-4	
Tetrahydrofuran	<1110	ug/kg	1110	333	1	12/14/16 10:10	12/14/16 19:25	109-99-9	
Toluene	<71.0	ug/kg	71.0	21.3	1	12/14/16 10:10	12/14/16 19:25	108-88-3	
1,2,3-Trichlorobenzene	<19.3	ug/kg	19.3	19.3	1	12/14/16 10:10	12/14/16 19:25	87-61-6	
1,2,4-Trichlorobenzene	<20.6	ug/kg	20.6	20.6	1	12/14/16 10:10	12/14/16 19:25	120-82-1	
1,1,1-Trichloroethane	<28.0	ug/kg	28.0	28.0	1	12/14/16 10:10	12/14/16 19:25	71-55-6	
1,1,2-Trichloroethane	<14.5	ug/kg	14.5	14.5	1	12/14/16 10:10	12/14/16 19:25	79-00-5	
Trichloroethene	<63.9	ug/kg	63.9	19.2	1	12/14/16 10:10	12/14/16 19:25	79-01-6	
Trichlorofluoromethane	<224	ug/kg	224	67.3	1	12/14/16 10:10	12/14/16 19:25	75-69-4	
1,2,3-Trichloropropane	<69.5	ug/kg	69.5	69.5	1	12/14/16 10:10	12/14/16 19:25	96-18-4	
1,1,2-Trichlorotrifluoroethane	<161	ug/kg	161	48.3	1	12/14/16 10:10	12/14/16 19:25	76-13-1	
1,2,4-Trimethylbenzene	<14.7	ug/kg	14.7	14.7	1	12/14/16 10:10	12/14/16 19:25	95-63-6	
1,3,5-Trimethylbenzene	<51.3	ug/kg	51.3	15.4	1	12/14/16 10:10	12/14/16 19:25	108-67-8	
Vinyl chloride	<28.7	ug/kg	28.7	8.6	1	12/14/16 10:10	12/14/16 19:25	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP8\_13-15**      **Lab ID: 10373134010**      Collected: 12/12/16 15:30      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<179	ug/kg	179	53.6	1	12/14/16 10:10	12/14/16 19:25	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-129		1	12/14/16 10:10	12/14/16 19:25	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/14/16 10:10	12/14/16 19:25	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/14/16 10:10	12/14/16 19:25	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP9\_3-5** Lab ID: **10373134011** Collected: 12/12/16 16:00 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	28.1	%	0.10	0.10	1		12/27/16 12:58		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.8	ug/kg	1.8	0.54	1	12/14/16 11:14	12/20/16 17:22	83-32-9	
Acenaphthylene	<1.3	ug/kg	1.3	0.38	1	12/14/16 11:14	12/20/16 17:22	208-96-8	
Anthracene	<2.1	ug/kg	2.1	0.63	1	12/14/16 11:14	12/20/16 17:22	120-12-7	
Benzo(a)anthracene	<2.2	ug/kg	2.2	0.65	1	12/14/16 11:14	12/20/16 17:22	56-55-3	
Benzo(a)pyrene	7.2	ug/kg	1.6	0.48	1	12/14/16 11:14	12/20/16 17:22	50-32-8	
Benzo(b)fluoranthene	8.0	ug/kg	2.6	0.80	1	12/14/16 11:14	12/20/16 17:22	205-99-2	
Benzo(g,h,i)perylene	8.0	ug/kg	2.1	0.64	1	12/14/16 11:14	12/20/16 17:22	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	2.3	0.68	1	12/14/16 11:14	12/20/16 17:22	207-08-9	
Chrysene	7.7	ug/kg	2.6	0.77	1	12/14/16 11:14	12/20/16 17:22	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.45	1	12/14/16 11:14	12/20/16 17:22	53-70-3	
Fluoranthene	14.1	ug/kg	3.6	1.1	1	12/14/16 11:14	12/20/16 17:22	206-44-0	
Fluorene	<1.8	ug/kg	1.8	0.53	1	12/14/16 11:14	12/20/16 17:22	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.5	ug/kg	3.5	1.0	1	12/14/16 11:14	12/20/16 17:22	193-39-5	
Naphthalene	<1.7	ug/kg	1.7	0.50	1	12/14/16 11:14	12/20/16 17:22	91-20-3	
Phenanthrene	8.8	ug/kg	1.9	0.56	1	12/14/16 11:14	12/20/16 17:22	85-01-8	
Pyrene	13.6	ug/kg	3.8	1.2	1	12/14/16 11:14	12/20/16 17:22	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	98	%	41-125		1	12/14/16 11:14	12/20/16 17:22	321-60-8	
p-Terphenyl-d14 (S)	82	%	39-125		1	12/14/16 11:14	12/20/16 17:22	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1710	ug/kg	1710	513	1	12/14/16 10:10	12/15/16 12:03	67-64-1	
Allyl chloride	<224	ug/kg	224	67.2	1	12/14/16 10:10	12/15/16 12:03	107-05-1	
Benzene	114	ug/kg	22.5	6.8	1	12/14/16 10:10	12/15/16 12:03	71-43-2	B
Bromobenzene	<66.7	ug/kg	66.7	20.0	1	12/14/16 10:10	12/15/16 12:03	108-86-1	
Bromochloromethane	<77.7	ug/kg	77.7	23.3	1	12/14/16 10:10	12/15/16 12:03	74-97-5	
Bromodichloromethane	<73.0	ug/kg	73.0	21.9	1	12/14/16 10:10	12/15/16 12:03	75-27-4	
Bromoform	<225	ug/kg	225	67.5	1	12/14/16 10:10	12/15/16 12:03	75-25-2	
Bromomethane	<264	ug/kg	264	79.4	1	12/14/16 10:10	12/15/16 12:03	74-83-9	
2-Butanone (MEK)	<344	ug/kg	344	103	1	12/14/16 10:10	12/15/16 12:03	78-93-3	
n-Butylbenzene	<63.1	ug/kg	63.1	18.9	1	12/14/16 10:10	12/15/16 12:03	104-51-8	
sec-Butylbenzene	<61.5	ug/kg	61.5	18.5	1	12/14/16 10:10	12/15/16 12:03	135-98-8	
tert-Butylbenzene	<82.4	ug/kg	82.4	24.7	1	12/14/16 10:10	12/15/16 12:03	98-06-6	
Carbon tetrachloride	<81.8	ug/kg	81.8	24.6	1	12/14/16 10:10	12/15/16 12:03	56-23-5	
Chlorobenzene	<45.4	ug/kg	45.4	13.6	1	12/14/16 10:10	12/15/16 12:03	108-90-7	
Chloroethane	<412	ug/kg	412	124	1	12/14/16 10:10	12/15/16 12:03	75-00-3	
Chloroform	<127	ug/kg	127	38.0	1	12/14/16 10:10	12/15/16 12:03	67-66-3	
Chloromethane	<126	ug/kg	126	37.9	1	12/14/16 10:10	12/15/16 12:03	74-87-3	
2-Chlorotoluene	<71.9	ug/kg	71.9	21.6	1	12/14/16 10:10	12/15/16 12:03	95-49-8	
4-Chlorotoluene	<68.3	ug/kg	68.3	20.5	1	12/14/16 10:10	12/15/16 12:03	106-43-4	
1,2-Dibromo-3-chloropropane	<153	ug/kg	153	153	1	12/14/16 10:10	12/15/16 12:03	96-12-8	
Dibromochloromethane	<224	ug/kg	224	67.2	1	12/14/16 10:10	12/15/16 12:03	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP9\_3-5** Lab ID: **10373134011** Collected: 12/12/16 16:00 Received: 12/13/16 17:25 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<29.4	ug/kg	29.4	29.4	1	12/14/16 10:10	12/15/16 12:03	106-93-4	
Dibromomethane	<102	ug/kg	102	30.5	1	12/14/16 10:10	12/15/16 12:03	74-95-3	
1,2-Dichlorobenzene	<15.1	ug/kg	15.1	15.1	1	12/14/16 10:10	12/15/16 12:03	95-50-1	
1,3-Dichlorobenzene	<23.0	ug/kg	23.0	23.0	1	12/14/16 10:10	12/15/16 12:03	541-73-1	
1,4-Dichlorobenzene	<75.6	ug/kg	75.6	22.7	1	12/14/16 10:10	12/15/16 12:03	106-46-7	
Dichlorodifluoromethane	<79.8	ug/kg	79.8	23.9	1	12/14/16 10:10	12/15/16 12:03	75-71-8	
1,1-Dichloroethane	<30.4	ug/kg	30.4	30.4	1	12/14/16 10:10	12/15/16 12:03	75-34-3	
1,2-Dichloroethane	<24.7	ug/kg	24.7	24.7	1	12/14/16 10:10	12/15/16 12:03	107-06-2	
1,1-Dichloroethene	<19.9	ug/kg	19.9	19.9	1	12/14/16 10:10	12/15/16 12:03	75-35-4	
cis-1,2-Dichloroethene	<97.0	ug/kg	97.0	29.1	1	12/14/16 10:10	12/15/16 12:03	156-59-2	
trans-1,2-Dichloroethene	<126	ug/kg	126	37.7	1	12/14/16 10:10	12/15/16 12:03	156-60-5	
Dichlorofluoromethane	<714	ug/kg	714	214	1	12/14/16 10:10	12/15/16 12:03	75-43-4	
1,2-Dichloropropane	<27.1	ug/kg	27.1	27.1	1	12/14/16 10:10	12/15/16 12:03	78-87-5	
1,3-Dichloropropane	<93.3	ug/kg	93.3	28.0	1	12/14/16 10:10	12/15/16 12:03	142-28-9	
2,2-Dichloropropane	<82.9	ug/kg	82.9	24.9	1	12/14/16 10:10	12/15/16 12:03	594-20-7	
1,1-Dichloropropene	<23.6	ug/kg	23.6	23.6	1	12/14/16 10:10	12/15/16 12:03	563-58-6	
cis-1,3-Dichloropropene	<119	ug/kg	119	35.7	1	12/14/16 10:10	12/15/16 12:03	10061-01-5	
trans-1,3-Dichloropropene	<88.6	ug/kg	88.6	26.6	1	12/14/16 10:10	12/15/16 12:03	10061-02-6	
Diethyl ether (Ethyl ether)	<107	ug/kg	107	32.2	1	12/14/16 10:10	12/15/16 12:03	60-29-7	
Ethylbenzene	<82.9	ug/kg	82.9	24.9	1	12/14/16 10:10	12/15/16 12:03	100-41-4	
Hexachloro-1,3-butadiene	<245	ug/kg	245	73.6	1	12/14/16 10:10	12/15/16 12:03	87-68-3	
Isopropylbenzene (Cumene)	<92.8	ug/kg	92.8	27.9	1	12/14/16 10:10	12/15/16 12:03	98-82-8	
p-Isopropyltoluene	<43.3	ug/kg	43.3	13.0	1	12/14/16 10:10	12/15/16 12:03	99-87-6	
Methylene Chloride	<483	ug/kg	483	145	1	12/14/16 10:10	12/15/16 12:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	<173	ug/kg	173	51.8	1	12/14/16 10:10	12/15/16 12:03	108-10-1	
Methyl-tert-butyl ether	<48.8	ug/kg	48.8	14.7	1	12/14/16 10:10	12/15/16 12:03	1634-04-4	
Naphthalene	<63.1	ug/kg	63.1	18.9	1	12/14/16 10:10	12/15/16 12:03	91-20-3	
n-Propylbenzene	<77.7	ug/kg	77.7	23.3	1	12/14/16 10:10	12/15/16 12:03	103-65-1	
Styrene	<67.8	ug/kg	67.8	20.3	1	12/14/16 10:10	12/15/16 12:03	100-42-5	
1,1,1,2-Tetrachloroethane	<31.0	ug/kg	31.0	31.0	1	12/14/16 10:10	12/15/16 12:03	630-20-6	
1,1,1,2,2-Tetrachloroethane	<17.4	ug/kg	17.4	17.4	1	12/14/16 10:10	12/15/16 12:03	79-34-5	
Tetrachloroethene	<99.6	ug/kg	99.6	29.9	1	12/14/16 10:10	12/15/16 12:03	127-18-4	
Tetrahydrofuran	<1290	ug/kg	1290	388	1	12/14/16 10:10	12/15/16 12:03	109-99-9	
Toluene	<82.9	ug/kg	82.9	24.9	1	12/14/16 10:10	12/15/16 12:03	108-88-3	
1,2,3-Trichlorobenzene	<22.5	ug/kg	22.5	22.5	1	12/14/16 10:10	12/15/16 12:03	87-61-6	
1,2,4-Trichlorobenzene	<24.1	ug/kg	24.1	24.1	1	12/14/16 10:10	12/15/16 12:03	120-82-1	
1,1,1-Trichloroethane	<32.7	ug/kg	32.7	32.7	1	12/14/16 10:10	12/15/16 12:03	71-55-6	
1,1,2-Trichloroethane	<16.9	ug/kg	16.9	16.9	1	12/14/16 10:10	12/15/16 12:03	79-00-5	
Trichloroethene	<74.5	ug/kg	74.5	22.4	1	12/14/16 10:10	12/15/16 12:03	79-01-6	
Trichlorofluoromethane	<262	ug/kg	262	78.6	1	12/14/16 10:10	12/15/16 12:03	75-69-4	
1,2,3-Trichloropropane	<81.1	ug/kg	81.1	81.1	1	12/14/16 10:10	12/15/16 12:03	96-18-4	
1,1,2-Trichlorotrifluoroethane	<188	ug/kg	188	56.4	1	12/14/16 10:10	12/15/16 12:03	76-13-1	
1,2,4-Trimethylbenzene	<17.2	ug/kg	17.2	17.2	1	12/14/16 10:10	12/15/16 12:03	95-63-6	
1,3,5-Trimethylbenzene	<59.9	ug/kg	59.9	18.0	1	12/14/16 10:10	12/15/16 12:03	108-67-8	
Vinyl chloride	<33.5	ug/kg	33.5	10.0	1	12/14/16 10:10	12/15/16 12:03	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP9\_3-5**      **Lab ID: 10373134011**      Collected: 12/12/16 16:00      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<209	ug/kg	209	62.6	1	12/14/16 10:10	12/15/16 12:03	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%	75-129		1	12/14/16 10:10	12/15/16 12:03	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/14/16 10:10	12/15/16 12:03	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/14/16 10:10	12/15/16 12:03	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP9\_5-7**      **Lab ID: 10373134012**      Collected: 12/12/16 16:05      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>21.9</b>	%	0.10	0.10	1		12/27/16 12:58		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.50	1	12/14/16 11:14	12/20/16 17:43	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.35	1	12/14/16 11:14	12/20/16 17:43	208-96-8	
Anthracene	<1.9	ug/kg	1.9	0.58	1	12/14/16 11:14	12/20/16 17:43	120-12-7	
Benzo(a)anthracene	<2.0	ug/kg	2.0	0.60	1	12/14/16 11:14	12/20/16 17:43	56-55-3	
Benzo(a)pyrene	<1.5	ug/kg	1.5	0.44	1	12/14/16 11:14	12/20/16 17:43	50-32-8	
Benzo(b)fluoranthene	<2.4	ug/kg	2.4	0.73	1	12/14/16 11:14	12/20/16 17:43	205-99-2	
Benzo(g,h,i)perylene	<1.9	ug/kg	1.9	0.59	1	12/14/16 11:14	12/20/16 17:43	191-24-2	
Benzo(k)fluoranthene	<2.1	ug/kg	2.1	0.63	1	12/14/16 11:14	12/20/16 17:43	207-08-9	
Chrysene	<2.4	ug/kg	2.4	0.71	1	12/14/16 11:14	12/20/16 17:43	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.42	1	12/14/16 11:14	12/20/16 17:43	53-70-3	
Fluoranthene	<b>8.0</b>	ug/kg	3.3	1.0	1	12/14/16 11:14	12/20/16 17:43	206-44-0	
Fluorene	<1.6	ug/kg	1.6	0.49	1	12/14/16 11:14	12/20/16 17:43	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.2	ug/kg	3.2	0.96	1	12/14/16 11:14	12/20/16 17:43	193-39-5	
Naphthalene	<1.5	ug/kg	1.5	0.46	1	12/14/16 11:14	12/20/16 17:43	91-20-3	
Phenanthrene	<1.7	ug/kg	1.7	0.52	1	12/14/16 11:14	12/20/16 17:43	85-01-8	
Pyrene	<b>7.3</b>	ug/kg	3.5	1.1	1	12/14/16 11:14	12/20/16 17:43	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	86	%	41-125		1	12/14/16 11:14	12/20/16 17:43	321-60-8	
p-Terphenyl-d14 (S)	83	%	39-125		1	12/14/16 11:14	12/20/16 17:43	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1730	ug/kg	1730	520	1	12/14/16 10:10	12/15/16 11:45	67-64-1	
Allyl chloride	<226	ug/kg	226	68.0	1	12/14/16 10:10	12/15/16 11:45	107-05-1	
Benzene	<b>469</b>	ug/kg	22.8	6.8	1	12/14/16 10:10	12/15/16 11:45	71-43-2	
Bromobenzene	<67.5	ug/kg	67.5	20.3	1	12/14/16 10:10	12/15/16 11:45	108-86-1	
Bromochloromethane	<78.6	ug/kg	78.6	23.6	1	12/14/16 10:10	12/15/16 11:45	74-97-5	
Bromodichloromethane	<73.9	ug/kg	73.9	22.2	1	12/14/16 10:10	12/15/16 11:45	75-27-4	
Bromoform	<227	ug/kg	227	68.3	1	12/14/16 10:10	12/15/16 11:45	75-25-2	
Bromomethane	<268	ug/kg	268	80.3	1	12/14/16 10:10	12/15/16 11:45	74-83-9	
2-Butanone (MEK)	<348	ug/kg	348	105	1	12/14/16 10:10	12/15/16 11:45	78-93-3	
n-Butylbenzene	<63.9	ug/kg	63.9	19.2	1	12/14/16 10:10	12/15/16 11:45	104-51-8	
sec-Butylbenzene	<62.3	ug/kg	62.3	18.7	1	12/14/16 10:10	12/15/16 11:45	135-98-8	
tert-Butylbenzene	<83.4	ug/kg	83.4	25.0	1	12/14/16 10:10	12/15/16 11:45	98-06-6	
Carbon tetrachloride	<82.9	ug/kg	82.9	24.9	1	12/14/16 10:10	12/15/16 11:45	56-23-5	
Chlorobenzene	<45.9	ug/kg	45.9	13.8	1	12/14/16 10:10	12/15/16 11:45	108-90-7	
Chloroethane	<417	ug/kg	417	125	1	12/14/16 10:10	12/15/16 11:45	75-00-3	
Chloroform	<128	ug/kg	128	38.5	1	12/14/16 10:10	12/15/16 11:45	67-66-3	
Chloromethane	<128	ug/kg	128	38.4	1	12/14/16 10:10	12/15/16 11:45	74-87-3	
2-Chlorotoluene	<72.8	ug/kg	72.8	21.9	1	12/14/16 10:10	12/15/16 11:45	95-49-8	
4-Chlorotoluene	<69.1	ug/kg	69.1	20.8	1	12/14/16 10:10	12/15/16 11:45	106-43-4	
1,2-Dibromo-3-chloropropane	<155	ug/kg	155	155	1	12/14/16 10:10	12/15/16 11:45	96-12-8	
Dibromochloromethane	<226	ug/kg	226	68.0	1	12/14/16 10:10	12/15/16 11:45	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP9\_5-7** Lab ID: **10373134012** Collected: 12/12/16 16:05 Received: 12/13/16 17:25 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<29.8	ug/kg	29.8	29.8	1	12/14/16 10:10	12/15/16 11:45	106-93-4	
Dibromomethane	<103	ug/kg	103	30.9	1	12/14/16 10:10	12/15/16 11:45	74-95-3	
1,2-Dichlorobenzene	<15.3	ug/kg	15.3	15.3	1	12/14/16 10:10	12/15/16 11:45	95-50-1	
1,3-Dichlorobenzene	<23.3	ug/kg	23.3	23.3	1	12/14/16 10:10	12/15/16 11:45	541-73-1	
1,4-Dichlorobenzene	<76.5	ug/kg	76.5	23.0	1	12/14/16 10:10	12/15/16 11:45	106-46-7	
Dichlorodifluoromethane	<80.7	ug/kg	80.7	24.2	1	12/14/16 10:10	12/15/16 11:45	75-71-8	
1,1-Dichloroethane	<30.7	ug/kg	30.7	30.7	1	12/14/16 10:10	12/15/16 11:45	75-34-3	
1,2-Dichloroethane	<25.0	ug/kg	25.0	25.0	1	12/14/16 10:10	12/15/16 11:45	107-06-2	
1,1-Dichloroethene	<20.1	ug/kg	20.1	20.1	1	12/14/16 10:10	12/15/16 11:45	75-35-4	
cis-1,2-Dichloroethene	<98.2	ug/kg	98.2	29.5	1	12/14/16 10:10	12/15/16 11:45	156-59-2	
trans-1,2-Dichloroethene	<127	ug/kg	127	38.2	1	12/14/16 10:10	12/15/16 11:45	156-60-5	
Dichlorofluoromethane	<723	ug/kg	723	217	1	12/14/16 10:10	12/15/16 11:45	75-43-4	
1,2-Dichloropropane	<27.4	ug/kg	27.4	27.4	1	12/14/16 10:10	12/15/16 11:45	78-87-5	
1,3-Dichloropropane	<94.5	ug/kg	94.5	28.4	1	12/14/16 10:10	12/15/16 11:45	142-28-9	
2,2-Dichloropropane	<83.9	ug/kg	83.9	25.2	1	12/14/16 10:10	12/15/16 11:45	594-20-7	
1,1-Dichloropropene	<23.9	ug/kg	23.9	23.9	1	12/14/16 10:10	12/15/16 11:45	563-58-6	
cis-1,3-Dichloropropene	<120	ug/kg	120	36.1	1	12/14/16 10:10	12/15/16 11:45	10061-01-5	
trans-1,3-Dichloropropene	<89.7	ug/kg	89.7	26.9	1	12/14/16 10:10	12/15/16 11:45	10061-02-6	
Diethyl ether (Ethyl ether)	<109	ug/kg	109	32.6	1	12/14/16 10:10	12/15/16 11:45	60-29-7	
Ethylbenzene	<83.9	ug/kg	83.9	25.2	1	12/14/16 10:10	12/15/16 11:45	100-41-4	
Hexachloro-1,3-butadiene	<248	ug/kg	248	74.5	1	12/14/16 10:10	12/15/16 11:45	87-68-3	
Isopropylbenzene (Cumene)	<93.9	ug/kg	93.9	28.2	1	12/14/16 10:10	12/15/16 11:45	98-82-8	
p-Isopropyltoluene	<43.8	ug/kg	43.8	13.2	1	12/14/16 10:10	12/15/16 11:45	99-87-6	
Methylene Chloride	<489	ug/kg	489	147	1	12/14/16 10:10	12/15/16 11:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	<175	ug/kg	175	52.5	1	12/14/16 10:10	12/15/16 11:45	108-10-1	
Methyl-tert-butyl ether	<49.4	ug/kg	49.4	14.8	1	12/14/16 10:10	12/15/16 11:45	1634-04-4	
Naphthalene	<63.9	ug/kg	63.9	19.2	1	12/14/16 10:10	12/15/16 11:45	91-20-3	
n-Propylbenzene	<78.6	ug/kg	78.6	23.6	1	12/14/16 10:10	12/15/16 11:45	103-65-1	
Styrene	<68.6	ug/kg	68.6	20.6	1	12/14/16 10:10	12/15/16 11:45	100-42-5	
1,1,1,2-Tetrachloroethane	<31.4	ug/kg	31.4	31.4	1	12/14/16 10:10	12/15/16 11:45	630-20-6	
1,1,2,2-Tetrachloroethane	<17.6	ug/kg	17.6	17.6	1	12/14/16 10:10	12/15/16 11:45	79-34-5	
Tetrachloroethene	<101	ug/kg	101	30.3	1	12/14/16 10:10	12/15/16 11:45	127-18-4	
Tetrahydrofuran	<1310	ug/kg	1310	393	1	12/14/16 10:10	12/15/16 11:45	109-99-9	
Toluene	<83.9	ug/kg	83.9	25.2	1	12/14/16 10:10	12/15/16 11:45	108-88-3	
1,2,3-Trichlorobenzene	<22.8	ug/kg	22.8	22.8	1	12/14/16 10:10	12/15/16 11:45	87-61-6	
1,2,4-Trichlorobenzene	<24.4	ug/kg	24.4	24.4	1	12/14/16 10:10	12/15/16 11:45	120-82-1	
1,1,1-Trichloroethane	<33.1	ug/kg	33.1	33.1	1	12/14/16 10:10	12/15/16 11:45	71-55-6	
1,1,2-Trichloroethane	<17.1	ug/kg	17.1	17.1	1	12/14/16 10:10	12/15/16 11:45	79-00-5	
Trichloroethene	<75.5	ug/kg	75.5	22.7	1	12/14/16 10:10	12/15/16 11:45	79-01-6	
Trichlorofluoromethane	<265	ug/kg	265	79.6	1	12/14/16 10:10	12/15/16 11:45	75-69-4	
1,2,3-Trichloropropane	<82.1	ug/kg	82.1	82.1	1	12/14/16 10:10	12/15/16 11:45	96-18-4	
1,1,2-Trichlorotrifluoroethane	<190	ug/kg	190	57.1	1	12/14/16 10:10	12/15/16 11:45	76-13-1	
1,2,4-Trimethylbenzene	<17.4	ug/kg	17.4	17.4	1	12/14/16 10:10	12/15/16 11:45	95-63-6	
1,3,5-Trimethylbenzene	<60.7	ug/kg	60.7	18.2	1	12/14/16 10:10	12/15/16 11:45	108-67-8	
Vinyl chloride	<33.9	ug/kg	33.9	10.2	1	12/14/16 10:10	12/15/16 11:45	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

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**Sample: GP9\_5-7**      **Lab ID: 10373134012**      Collected: 12/12/16 16:05      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<211	ug/kg	211	63.4	1	12/14/16 10:10	12/15/16 11:45	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%	75-129		1	12/14/16 10:10	12/15/16 11:45	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/14/16 10:10	12/15/16 11:45	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/14/16 10:10	12/15/16 11:45	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: GP1\_3-5 Lab ID: 10373134013 Collected: 12/12/16 12:00 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	25.3	%	0.10	0.10	1		12/27/16 13:01		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.52	1	12/14/16 11:14	12/20/16 18:05	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.36	1	12/14/16 11:14	12/20/16 18:05	208-96-8	
Anthracene	7.9	ug/kg	2.0	0.61	1	12/14/16 11:14	12/20/16 18:05	120-12-7	
Benzo(a)anthracene	15.8	ug/kg	2.1	0.63	1	12/14/16 11:14	12/20/16 18:05	56-55-3	
Benzo(a)pyrene	16.5	ug/kg	1.5	0.46	1	12/14/16 11:14	12/20/16 18:05	50-32-8	
Benzo(b)fluoranthene	16.5	ug/kg	2.6	0.77	1	12/14/16 11:14	12/20/16 18:05	205-99-2	
Benzo(g,h,i)perylene	12.9	ug/kg	2.0	0.61	1	12/14/16 11:14	12/20/16 18:05	191-24-2	
Benzo(k)fluoranthene	10.3	ug/kg	2.2	0.66	1	12/14/16 11:14	12/20/16 18:05	207-08-9	
Chrysene	17.1	ug/kg	2.5	0.74	1	12/14/16 11:14	12/20/16 18:05	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.44	1	12/14/16 11:14	12/20/16 18:05	53-70-3	
Fluoranthene	34.4	ug/kg	3.5	1.0	1	12/14/16 11:14	12/20/16 18:05	206-44-0	
Fluorene	<1.7	ug/kg	1.7	0.51	1	12/14/16 11:14	12/20/16 18:05	86-73-7	
Indeno(1,2,3-cd)pyrene	7.4	ug/kg	3.3	1.0	1	12/14/16 11:14	12/20/16 18:05	193-39-5	
Naphthalene	<1.6	ug/kg	1.6	0.48	1	12/14/16 11:14	12/20/16 18:05	91-20-3	
Phenanthrene	23.8	ug/kg	1.8	0.54	1	12/14/16 11:14	12/20/16 18:05	85-01-8	
Pyrene	29.2	ug/kg	3.7	1.1	1	12/14/16 11:14	12/20/16 18:05	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	85	%	41-125		1	12/14/16 11:14	12/20/16 18:05	321-60-8	
p-Terphenyl-d14 (S)	74	%	39-125		1	12/14/16 11:14	12/20/16 18:05	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1470	ug/kg	1470	442	1	12/14/16 10:10	12/14/16 20:00	67-64-1	
Allyl chloride	<192	ug/kg	192	57.8	1	12/14/16 10:10	12/14/16 20:00	107-05-1	
Benzene	28.2	ug/kg	19.4	5.8	1	12/14/16 10:10	12/14/16 20:00	71-43-2	B
Bromobenzene	<57.4	ug/kg	57.4	17.2	1	12/14/16 10:10	12/14/16 20:00	108-86-1	
Bromochloromethane	<66.8	ug/kg	66.8	20.1	1	12/14/16 10:10	12/14/16 20:00	74-97-5	
Bromodichloromethane	<62.8	ug/kg	62.8	18.9	1	12/14/16 10:10	12/14/16 20:00	75-27-4	
Bromoform	<193	ug/kg	193	58.0	1	12/14/16 10:10	12/14/16 20:00	75-25-2	
Bromomethane	<227	ug/kg	227	68.3	1	12/14/16 10:10	12/14/16 20:00	74-83-9	
2-Butanone (MEK)	<296	ug/kg	296	88.9	1	12/14/16 10:10	12/14/16 20:00	78-93-3	
n-Butylbenzene	<54.3	ug/kg	54.3	16.3	1	12/14/16 10:10	12/14/16 20:00	104-51-8	
sec-Butylbenzene	<52.9	ug/kg	52.9	15.9	1	12/14/16 10:10	12/14/16 20:00	135-98-8	
tert-Butylbenzene	<70.9	ug/kg	70.9	21.3	1	12/14/16 10:10	12/14/16 20:00	98-06-6	
Carbon tetrachloride	<70.4	ug/kg	70.4	21.1	1	12/14/16 10:10	12/14/16 20:00	56-23-5	
Chlorobenzene	<39.0	ug/kg	39.0	11.7	1	12/14/16 10:10	12/14/16 20:00	108-90-7	
Chloroethane	<354	ug/kg	354	106	1	12/14/16 10:10	12/14/16 20:00	75-00-3	
Chloroform	<109	ug/kg	109	32.7	1	12/14/16 10:10	12/14/16 20:00	67-66-3	
Chloromethane	<109	ug/kg	109	32.6	1	12/14/16 10:10	12/14/16 20:00	74-87-3	
2-Chlorotoluene	<61.9	ug/kg	61.9	18.6	1	12/14/16 10:10	12/14/16 20:00	95-49-8	
4-Chlorotoluene	<58.7	ug/kg	58.7	17.6	1	12/14/16 10:10	12/14/16 20:00	106-43-4	
1,2-Dibromo-3-chloropropane	<131	ug/kg	131	131	1	12/14/16 10:10	12/14/16 20:00	96-12-8	
Dibromochloromethane	<192	ug/kg	192	57.8	1	12/14/16 10:10	12/14/16 20:00	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: GP1\_3-5 Lab ID: 10373134013 Collected: 12/12/16 12:00 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<25.3	ug/kg	25.3	25.3	1	12/14/16 10:10	12/14/16 20:00	106-93-4	
Dibromomethane	<87.4	ug/kg	87.4	26.3	1	12/14/16 10:10	12/14/16 20:00	74-95-3	
1,2-Dichlorobenzene	<13.0	ug/kg	13.0	13.0	1	12/14/16 10:10	12/14/16 20:00	95-50-1	
1,3-Dichlorobenzene	<19.8	ug/kg	19.8	19.8	1	12/14/16 10:10	12/14/16 20:00	541-73-1	
1,4-Dichlorobenzene	<65.0	ug/kg	65.0	19.5	1	12/14/16 10:10	12/14/16 20:00	106-46-7	
Dichlorodifluoromethane	<68.6	ug/kg	68.6	20.6	1	12/14/16 10:10	12/14/16 20:00	75-71-8	
1,1-Dichloroethane	<26.1	ug/kg	26.1	26.1	1	12/14/16 10:10	12/14/16 20:00	75-34-3	
1,2-Dichloroethane	<21.3	ug/kg	21.3	21.3	1	12/14/16 10:10	12/14/16 20:00	107-06-2	
1,1-Dichloroethene	<17.1	ug/kg	17.1	17.1	1	12/14/16 10:10	12/14/16 20:00	75-35-4	
cis-1,2-Dichloroethene	<83.4	ug/kg	83.4	25.0	1	12/14/16 10:10	12/14/16 20:00	156-59-2	
trans-1,2-Dichloroethene	<108	ug/kg	108	32.5	1	12/14/16 10:10	12/14/16 20:00	156-60-5	
Dichlorofluoromethane	<614	ug/kg	614	184	1	12/14/16 10:10	12/14/16 20:00	75-43-4	
1,2-Dichloropropane	<23.3	ug/kg	23.3	23.3	1	12/14/16 10:10	12/14/16 20:00	78-87-5	
1,3-Dichloropropane	<80.3	ug/kg	80.3	24.1	1	12/14/16 10:10	12/14/16 20:00	142-28-9	
2,2-Dichloropropane	<71.3	ug/kg	71.3	21.4	1	12/14/16 10:10	12/14/16 20:00	594-20-7	
1,1-Dichloropropene	<20.3	ug/kg	20.3	20.3	1	12/14/16 10:10	12/14/16 20:00	563-58-6	
cis-1,3-Dichloropropene	<102	ug/kg	102	30.7	1	12/14/16 10:10	12/14/16 20:00	10061-01-5	
trans-1,3-Dichloropropene	<76.2	ug/kg	76.2	22.9	1	12/14/16 10:10	12/14/16 20:00	10061-02-6	
Diethyl ether (Ethyl ether)	<92.4	ug/kg	92.4	27.7	1	12/14/16 10:10	12/14/16 20:00	60-29-7	
Ethylbenzene	<71.3	ug/kg	71.3	21.4	1	12/14/16 10:10	12/14/16 20:00	100-41-4	
Hexachloro-1,3-butadiene	<211	ug/kg	211	63.3	1	12/14/16 10:10	12/14/16 20:00	87-68-3	
Isopropylbenzene (Cumene)	<79.8	ug/kg	79.8	24.0	1	12/14/16 10:10	12/14/16 20:00	98-82-8	
p-Isopropyltoluene	<37.2	ug/kg	37.2	11.2	1	12/14/16 10:10	12/14/16 20:00	99-87-6	
Methylene Chloride	<415	ug/kg	415	125	1	12/14/16 10:10	12/14/16 20:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	<148	ug/kg	148	44.6	1	12/14/16 10:10	12/14/16 20:00	108-10-1	
Methyl-tert-butyl ether	<42.0	ug/kg	42.0	12.6	1	12/14/16 10:10	12/14/16 20:00	1634-04-4	
Naphthalene	<54.3	ug/kg	54.3	16.3	1	12/14/16 10:10	12/14/16 20:00	91-20-3	
n-Propylbenzene	<66.8	ug/kg	66.8	20.1	1	12/14/16 10:10	12/14/16 20:00	103-65-1	
Styrene	<58.3	ug/kg	58.3	17.5	1	12/14/16 10:10	12/14/16 20:00	100-42-5	
1,1,1,2-Tetrachloroethane	<26.7	ug/kg	26.7	26.7	1	12/14/16 10:10	12/14/16 20:00	630-20-6	
1,1,2,2-Tetrachloroethane	<14.9	ug/kg	14.9	14.9	1	12/14/16 10:10	12/14/16 20:00	79-34-5	
Tetrachloroethene	<85.6	ug/kg	85.6	25.7	1	12/14/16 10:10	12/14/16 20:00	127-18-4	
Tetrahydrofuran	<1110	ug/kg	1110	334	1	12/14/16 10:10	12/14/16 20:00	109-99-9	
Toluene	<71.3	ug/kg	71.3	21.4	1	12/14/16 10:10	12/14/16 20:00	108-88-3	
1,2,3-Trichlorobenzene	<19.4	ug/kg	19.4	19.4	1	12/14/16 10:10	12/14/16 20:00	87-61-6	
1,2,4-Trichlorobenzene	<20.7	ug/kg	20.7	20.7	1	12/14/16 10:10	12/14/16 20:00	120-82-1	
1,1,1-Trichloroethane	<28.1	ug/kg	28.1	28.1	1	12/14/16 10:10	12/14/16 20:00	71-55-6	
1,1,2-Trichloroethane	<14.5	ug/kg	14.5	14.5	1	12/14/16 10:10	12/14/16 20:00	79-00-5	
Trichloroethene	<64.1	ug/kg	64.1	19.3	1	12/14/16 10:10	12/14/16 20:00	79-01-6	
Trichlorofluoromethane	<225	ug/kg	225	67.6	1	12/14/16 10:10	12/14/16 20:00	75-69-4	
1,2,3-Trichloropropane	<69.8	ug/kg	69.8	69.8	1	12/14/16 10:10	12/14/16 20:00	96-18-4	
1,1,2-Trichlorotrifluoroethane	<161	ug/kg	161	48.5	1	12/14/16 10:10	12/14/16 20:00	76-13-1	
1,2,4-Trimethylbenzene	<14.8	ug/kg	14.8	14.8	1	12/14/16 10:10	12/14/16 20:00	95-63-6	
1,3,5-Trimethylbenzene	<51.6	ug/kg	51.6	15.5	1	12/14/16 10:10	12/14/16 20:00	108-67-8	
Vinyl chloride	<28.8	ug/kg	28.8	8.6	1	12/14/16 10:10	12/14/16 20:00	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP1\_3-5**      **Lab ID: 10373134013**      Collected: 12/12/16 12:00      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<179	ug/kg	179	53.9	1	12/14/16 10:10	12/14/16 20:00	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-129		1	12/14/16 10:10	12/14/16 20:00	17060-07-0	
Toluene-d8 (S)	104	%	75-125		1	12/14/16 10:10	12/14/16 20:00	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	12/14/16 10:10	12/14/16 20:00	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP1\_5-10**      **Lab ID: 10373134014**      Collected: 12/12/16 12:05      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>24.8</b>	%	0.10	0.10	1		12/27/16 13:01		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.52	1	12/14/16 11:14	12/20/16 18:27	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.36	1	12/14/16 11:14	12/20/16 18:27	208-96-8	
Anthracene	<2.0	ug/kg	2.0	0.60	1	12/14/16 11:14	12/20/16 18:27	120-12-7	
Benzo(a)anthracene	<2.1	ug/kg	2.1	0.62	1	12/14/16 11:14	12/20/16 18:27	56-55-3	
Benzo(a)pyrene	<1.5	ug/kg	1.5	0.46	1	12/14/16 11:14	12/20/16 18:27	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	2.5	0.76	1	12/14/16 11:14	12/20/16 18:27	205-99-2	
Benzo(g,h,i)perylene	<2.0	ug/kg	2.0	0.61	1	12/14/16 11:14	12/20/16 18:27	191-24-2	
Benzo(k)fluoranthene	<2.2	ug/kg	2.2	0.65	1	12/14/16 11:14	12/20/16 18:27	207-08-9	
Chrysene	<2.4	ug/kg	2.4	0.74	1	12/14/16 11:14	12/20/16 18:27	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.43	1	12/14/16 11:14	12/20/16 18:27	53-70-3	
Fluoranthene	<3.5	ug/kg	3.5	1.0	1	12/14/16 11:14	12/20/16 18:27	206-44-0	
Fluorene	<1.7	ug/kg	1.7	0.51	1	12/14/16 11:14	12/20/16 18:27	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.3	ug/kg	3.3	0.99	1	12/14/16 11:14	12/20/16 18:27	193-39-5	
Naphthalene	<1.6	ug/kg	1.6	0.47	1	12/14/16 11:14	12/20/16 18:27	91-20-3	
Phenanthrene	<1.8	ug/kg	1.8	0.53	1	12/14/16 11:14	12/20/16 18:27	85-01-8	
Pyrene	<3.7	ug/kg	3.7	1.1	1	12/14/16 11:14	12/20/16 18:27	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	74	%	41-125		1	12/14/16 11:14	12/20/16 18:27	321-60-8	
p-Terphenyl-d14 (S)	82	%	39-125		1	12/14/16 11:14	12/20/16 18:27	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1790	ug/kg	1790	536	1	12/14/16 10:10	12/14/16 20:17	67-64-1	
Allyl chloride	<233	ug/kg	233	70.1	1	12/14/16 10:10	12/14/16 20:17	107-05-1	
Benzene	<23.5	ug/kg	23.5	7.1	1	12/14/16 10:10	12/14/16 20:17	71-43-2	B
Bromobenzene	<69.7	ug/kg	69.7	20.9	1	12/14/16 10:10	12/14/16 20:17	108-86-1	
Bromochloromethane	<81.1	ug/kg	81.1	24.4	1	12/14/16 10:10	12/14/16 20:17	74-97-5	
Bromodichloromethane	<76.2	ug/kg	76.2	22.9	1	12/14/16 10:10	12/14/16 20:17	75-27-4	
Bromoform	<235	ug/kg	235	70.4	1	12/14/16 10:10	12/14/16 20:17	75-25-2	
Bromomethane	<276	ug/kg	276	82.9	1	12/14/16 10:10	12/14/16 20:17	74-83-9	
2-Butanone (MEK)	<359	ug/kg	359	108	1	12/14/16 10:10	12/14/16 20:17	78-93-3	
n-Butylbenzene	<65.9	ug/kg	65.9	19.8	1	12/14/16 10:10	12/14/16 20:17	104-51-8	
sec-Butylbenzene	<64.2	ug/kg	64.2	19.3	1	12/14/16 10:10	12/14/16 20:17	135-98-8	
tert-Butylbenzene	<86.0	ug/kg	86.0	25.8	1	12/14/16 10:10	12/14/16 20:17	98-06-6	
Carbon tetrachloride	<85.4	ug/kg	85.4	25.7	1	12/14/16 10:10	12/14/16 20:17	56-23-5	
Chlorobenzene	<47.3	ug/kg	47.3	14.2	1	12/14/16 10:10	12/14/16 20:17	108-90-7	
Chloroethane	<430	ug/kg	430	129	1	12/14/16 10:10	12/14/16 20:17	75-00-3	
Chloroform	<132	ug/kg	132	39.7	1	12/14/16 10:10	12/14/16 20:17	67-66-3	
Chloromethane	<132	ug/kg	132	39.6	1	12/14/16 10:10	12/14/16 20:17	74-87-3	
2-Chlorotoluene	<75.1	ug/kg	75.1	22.6	1	12/14/16 10:10	12/14/16 20:17	95-49-8	
4-Chlorotoluene	<71.3	ug/kg	71.3	21.4	1	12/14/16 10:10	12/14/16 20:17	106-43-4	
1,2-Dibromo-3-chloropropane	<159	ug/kg	159	159	1	12/14/16 10:10	12/14/16 20:17	96-12-8	
Dibromochloromethane	<233	ug/kg	233	70.1	1	12/14/16 10:10	12/14/16 20:17	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP1\_5-10** Lab ID: **10373134014** Collected: 12/12/16 12:05 Received: 12/13/16 17:25 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<30.7	ug/kg	30.7	30.7	1	12/14/16 10:10	12/14/16 20:17	106-93-4	
Dibromomethane	<106	ug/kg	106	31.9	1	12/14/16 10:10	12/14/16 20:17	74-95-3	
1,2-Dichlorobenzene	<15.8	ug/kg	15.8	15.8	1	12/14/16 10:10	12/14/16 20:17	95-50-1	
1,3-Dichlorobenzene	<24.0	ug/kg	24.0	24.0	1	12/14/16 10:10	12/14/16 20:17	541-73-1	
1,4-Dichlorobenzene	<78.9	ug/kg	78.9	23.7	1	12/14/16 10:10	12/14/16 20:17	106-46-7	
Dichlorodifluoromethane	<83.3	ug/kg	83.3	25.0	1	12/14/16 10:10	12/14/16 20:17	75-71-8	
1,1-Dichloroethane	<31.7	ug/kg	31.7	31.7	1	12/14/16 10:10	12/14/16 20:17	75-34-3	
1,2-Dichloroethane	<25.8	ug/kg	25.8	25.8	1	12/14/16 10:10	12/14/16 20:17	107-06-2	
1,1-Dichloroethene	<20.8	ug/kg	20.8	20.8	1	12/14/16 10:10	12/14/16 20:17	75-35-4	
cis-1,2-Dichloroethene	<101	ug/kg	101	30.4	1	12/14/16 10:10	12/14/16 20:17	156-59-2	
trans-1,2-Dichloroethene	<131	ug/kg	131	39.4	1	12/14/16 10:10	12/14/16 20:17	156-60-5	
Dichlorofluoromethane	<746	ug/kg	746	224	1	12/14/16 10:10	12/14/16 20:17	75-43-4	
1,2-Dichloropropane	<28.3	ug/kg	28.3	28.3	1	12/14/16 10:10	12/14/16 20:17	78-87-5	
1,3-Dichloropropane	<97.4	ug/kg	97.4	29.3	1	12/14/16 10:10	12/14/16 20:17	142-28-9	
2,2-Dichloropropane	<86.5	ug/kg	86.5	26.0	1	12/14/16 10:10	12/14/16 20:17	594-20-7	
1,1-Dichloropropene	<24.7	ug/kg	24.7	24.7	1	12/14/16 10:10	12/14/16 20:17	563-58-6	
cis-1,3-Dichloropropene	<124	ug/kg	124	37.3	1	12/14/16 10:10	12/14/16 20:17	10061-01-5	
trans-1,3-Dichloropropene	<92.5	ug/kg	92.5	27.8	1	12/14/16 10:10	12/14/16 20:17	10061-02-6	
Diethyl ether (Ethyl ether)	<112	ug/kg	112	33.7	1	12/14/16 10:10	12/14/16 20:17	60-29-7	
Ethylbenzene	<86.5	ug/kg	86.5	26.0	1	12/14/16 10:10	12/14/16 20:17	100-41-4	
Hexachloro-1,3-butadiene	<256	ug/kg	256	76.8	1	12/14/16 10:10	12/14/16 20:17	87-68-3	
Isopropylbenzene (Cumene)	<96.9	ug/kg	96.9	29.1	1	12/14/16 10:10	12/14/16 20:17	98-82-8	
p-Isopropyltoluene	<45.2	ug/kg	45.2	13.6	1	12/14/16 10:10	12/14/16 20:17	99-87-6	
Methylene Chloride	<504	ug/kg	504	151	1	12/14/16 10:10	12/14/16 20:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	<180	ug/kg	180	54.1	1	12/14/16 10:10	12/14/16 20:17	108-10-1	
Methyl-tert-butyl ether	<50.9	ug/kg	50.9	15.3	1	12/14/16 10:10	12/14/16 20:17	1634-04-4	
Naphthalene	<65.9	ug/kg	65.9	19.8	1	12/14/16 10:10	12/14/16 20:17	91-20-3	
n-Propylbenzene	<81.1	ug/kg	81.1	24.4	1	12/14/16 10:10	12/14/16 20:17	103-65-1	
Styrene	<70.7	ug/kg	70.7	21.2	1	12/14/16 10:10	12/14/16 20:17	100-42-5	
1,1,1,2-Tetrachloroethane	<32.4	ug/kg	32.4	32.4	1	12/14/16 10:10	12/14/16 20:17	630-20-6	
1,1,1,2,2-Tetrachloroethane	<18.1	ug/kg	18.1	18.1	1	12/14/16 10:10	12/14/16 20:17	79-34-5	
Tetrachloroethene	<104	ug/kg	104	31.2	1	12/14/16 10:10	12/14/16 20:17	127-18-4	
Tetrahydrofuran	<1350	ug/kg	1350	405	1	12/14/16 10:10	12/14/16 20:17	109-99-9	
Toluene	<86.5	ug/kg	86.5	26.0	1	12/14/16 10:10	12/14/16 20:17	108-88-3	
1,2,3-Trichlorobenzene	<23.5	ug/kg	23.5	23.5	1	12/14/16 10:10	12/14/16 20:17	87-61-6	
1,2,4-Trichlorobenzene	<25.2	ug/kg	25.2	25.2	1	12/14/16 10:10	12/14/16 20:17	120-82-1	
1,1,1-Trichloroethane	<34.2	ug/kg	34.2	34.2	1	12/14/16 10:10	12/14/16 20:17	71-55-6	
1,1,2-Trichloroethane	<17.7	ug/kg	17.7	17.7	1	12/14/16 10:10	12/14/16 20:17	79-00-5	
Trichloroethene	<77.8	ug/kg	77.8	23.4	1	12/14/16 10:10	12/14/16 20:17	79-01-6	
Trichlorofluoromethane	<273	ug/kg	273	82.0	1	12/14/16 10:10	12/14/16 20:17	75-69-4	
1,2,3-Trichloropropane	<84.7	ug/kg	84.7	84.7	1	12/14/16 10:10	12/14/16 20:17	96-18-4	
1,1,2-Trichlorotrifluoroethane	<196	ug/kg	196	58.8	1	12/14/16 10:10	12/14/16 20:17	76-13-1	
1,2,4-Trimethylbenzene	<18.0	ug/kg	18.0	18.0	1	12/14/16 10:10	12/14/16 20:17	95-63-6	
1,3,5-Trimethylbenzene	<62.6	ug/kg	62.6	18.8	1	12/14/16 10:10	12/14/16 20:17	108-67-8	
Vinyl chloride	<34.9	ug/kg	34.9	10.5	1	12/14/16 10:10	12/14/16 20:17	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP1\_5-10**      **Lab ID: 10373134014**      Collected: 12/12/16 12:05      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>&lt;218</b>	ug/kg	218	65.4	1	12/14/16 10:10	12/14/16 20:17	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-129		1	12/14/16 10:10	12/14/16 20:17	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/14/16 10:10	12/14/16 20:17	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/14/16 10:10	12/14/16 20:17	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP1\_10-12** Lab ID: **10373134015** Collected: 12/12/16 12:10 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	22.3	%	0.10	0.10	1		12/27/16 13:02		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.50	1	12/14/16 11:14	12/20/16 18:48	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.35	1	12/14/16 11:14	12/20/16 18:48	208-96-8	
Anthracene	15.7	ug/kg	1.9	0.58	1	12/14/16 11:14	12/20/16 18:48	120-12-7	
Benzo(a)anthracene	14.6	ug/kg	2.0	0.60	1	12/14/16 11:14	12/20/16 18:48	56-55-3	
Benzo(a)pyrene	11.5	ug/kg	1.5	0.45	1	12/14/16 11:14	12/20/16 18:48	50-32-8	
Benzo(b)fluoranthene	14.1	ug/kg	2.4	0.74	1	12/14/16 11:14	12/20/16 18:48	205-99-2	
Benzo(g,h,i)perylene	<2.0	ug/kg	2.0	0.59	1	12/14/16 11:14	12/20/16 18:48	191-24-2	
Benzo(k)fluoranthene	7.9	ug/kg	2.1	0.63	1	12/14/16 11:14	12/20/16 18:48	207-08-9	
Chrysene	16.1	ug/kg	2.4	0.71	1	12/14/16 11:14	12/20/16 18:48	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.42	1	12/14/16 11:14	12/20/16 18:48	53-70-3	
Fluoranthene	41.4	ug/kg	3.4	1.0	1	12/14/16 11:14	12/20/16 18:48	206-44-0	
Fluorene	7.1	ug/kg	1.6	0.49	1	12/14/16 11:14	12/20/16 18:48	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.2	ug/kg	3.2	0.96	1	12/14/16 11:14	12/20/16 18:48	193-39-5	
Naphthalene	<1.5	ug/kg	1.5	0.46	1	12/14/16 11:14	12/20/16 18:48	91-20-3	
Phenanthrene	38.0	ug/kg	1.7	0.52	1	12/14/16 11:14	12/20/16 18:48	85-01-8	
Pyrene	32.0	ug/kg	3.5	1.1	1	12/14/16 11:14	12/20/16 18:48	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	81	%	41-125		1	12/14/16 11:14	12/20/16 18:48	321-60-8	
p-Terphenyl-d14 (S)	75	%	39-125		1	12/14/16 11:14	12/20/16 18:48	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1450	ug/kg	1450	434	1	12/14/16 10:10	12/14/16 20:34	67-64-1	
Allyl chloride	<189	ug/kg	189	56.8	1	12/14/16 10:10	12/14/16 20:34	107-05-1	
Benzene	<19.0	ug/kg	19.0	5.7	1	12/14/16 10:10	12/14/16 20:34	71-43-2	B
Bromobenzene	<56.4	ug/kg	56.4	16.9	1	12/14/16 10:10	12/14/16 20:34	108-86-1	
Bromochloromethane	<65.7	ug/kg	65.7	19.7	1	12/14/16 10:10	12/14/16 20:34	74-97-5	
Bromodichloromethane	<61.7	ug/kg	61.7	18.5	1	12/14/16 10:10	12/14/16 20:34	75-27-4	
Bromoform	<190	ug/kg	190	57.0	1	12/14/16 10:10	12/14/16 20:34	75-25-2	
Bromomethane	<223	ug/kg	223	67.1	1	12/14/16 10:10	12/14/16 20:34	74-83-9	
2-Butanone (MEK)	<291	ug/kg	291	87.3	1	12/14/16 10:10	12/14/16 20:34	78-93-3	
n-Butylbenzene	<53.3	ug/kg	53.3	16.0	1	12/14/16 10:10	12/14/16 20:34	104-51-8	
sec-Butylbenzene	<52.0	ug/kg	52.0	15.6	1	12/14/16 10:10	12/14/16 20:34	135-98-8	
tert-Butylbenzene	<69.6	ug/kg	69.6	20.9	1	12/14/16 10:10	12/14/16 20:34	98-06-6	
Carbon tetrachloride	<69.2	ug/kg	69.2	20.8	1	12/14/16 10:10	12/14/16 20:34	56-23-5	
Chlorobenzene	<38.3	ug/kg	38.3	11.5	1	12/14/16 10:10	12/14/16 20:34	108-90-7	
Chloroethane	<348	ug/kg	348	105	1	12/14/16 10:10	12/14/16 20:34	75-00-3	
Chloroform	<107	ug/kg	107	32.2	1	12/14/16 10:10	12/14/16 20:34	67-66-3	
Chloromethane	<107	ug/kg	107	32.0	1	12/14/16 10:10	12/14/16 20:34	74-87-3	
2-Chlorotoluene	<60.8	ug/kg	60.8	18.3	1	12/14/16 10:10	12/14/16 20:34	95-49-8	
4-Chlorotoluene	<57.7	ug/kg	57.7	17.3	1	12/14/16 10:10	12/14/16 20:34	106-43-4	
1,2-Dibromo-3-chloropropane	<129	ug/kg	129	129	1	12/14/16 10:10	12/14/16 20:34	96-12-8	
Dibromochloromethane	<189	ug/kg	189	56.8	1	12/14/16 10:10	12/14/16 20:34	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP1\_10-12** Lab ID: **10373134015** Collected: 12/12/16 12:10 Received: 12/13/16 17:25 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<24.9	ug/kg	24.9	24.9	1	12/14/16 10:10	12/14/16 20:34	106-93-4	
Dibromomethane	<85.9	ug/kg	85.9	25.8	1	12/14/16 10:10	12/14/16 20:34	74-95-3	
1,2-Dichlorobenzene	<12.8	ug/kg	12.8	12.8	1	12/14/16 10:10	12/14/16 20:34	95-50-1	
1,3-Dichlorobenzene	<19.5	ug/kg	19.5	19.5	1	12/14/16 10:10	12/14/16 20:34	541-73-1	
1,4-Dichlorobenzene	<63.9	ug/kg	63.9	19.2	1	12/14/16 10:10	12/14/16 20:34	106-46-7	
Dichlorodifluoromethane	<67.4	ug/kg	67.4	20.2	1	12/14/16 10:10	12/14/16 20:34	75-71-8	
1,1-Dichloroethane	<25.7	ug/kg	25.7	25.7	1	12/14/16 10:10	12/14/16 20:34	75-34-3	
1,2-Dichloroethane	<20.9	ug/kg	20.9	20.9	1	12/14/16 10:10	12/14/16 20:34	107-06-2	
1,1-Dichloroethene	<16.8	ug/kg	16.8	16.8	1	12/14/16 10:10	12/14/16 20:34	75-35-4	
cis-1,2-Dichloroethene	<82.0	ug/kg	82.0	24.6	1	12/14/16 10:10	12/14/16 20:34	156-59-2	
trans-1,2-Dichloroethene	<106	ug/kg	106	31.9	1	12/14/16 10:10	12/14/16 20:34	156-60-5	
Dichlorofluoromethane	<604	ug/kg	604	181	1	12/14/16 10:10	12/14/16 20:34	75-43-4	
1,2-Dichloropropane	<22.9	ug/kg	22.9	22.9	1	12/14/16 10:10	12/14/16 20:34	78-87-5	
1,3-Dichloropropane	<78.9	ug/kg	78.9	23.7	1	12/14/16 10:10	12/14/16 20:34	142-28-9	
2,2-Dichloropropane	<70.1	ug/kg	70.1	21.0	1	12/14/16 10:10	12/14/16 20:34	594-20-7	
1,1-Dichloropropene	<20.0	ug/kg	20.0	20.0	1	12/14/16 10:10	12/14/16 20:34	563-58-6	
cis-1,3-Dichloropropene	<100	ug/kg	100	30.2	1	12/14/16 10:10	12/14/16 20:34	10061-01-5	
trans-1,3-Dichloropropene	<74.9	ug/kg	74.9	22.5	1	12/14/16 10:10	12/14/16 20:34	10061-02-6	
Diethyl ether (Ethyl ether)	<90.8	ug/kg	90.8	27.3	1	12/14/16 10:10	12/14/16 20:34	60-29-7	
Ethylbenzene	<70.1	ug/kg	70.1	21.0	1	12/14/16 10:10	12/14/16 20:34	100-41-4	
Hexachloro-1,3-butadiene	<207	ug/kg	207	62.2	1	12/14/16 10:10	12/14/16 20:34	87-68-3	
Isopropylbenzene (Cumene)	<78.4	ug/kg	78.4	23.6	1	12/14/16 10:10	12/14/16 20:34	98-82-8	
p-Isopropyltoluene	<36.6	ug/kg	36.6	11.0	1	12/14/16 10:10	12/14/16 20:34	99-87-6	
Methylene Chloride	<408	ug/kg	408	123	1	12/14/16 10:10	12/14/16 20:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	<146	ug/kg	146	43.8	1	12/14/16 10:10	12/14/16 20:34	108-10-1	
Methyl-tert-butyl ether	<41.2	ug/kg	41.2	12.4	1	12/14/16 10:10	12/14/16 20:34	1634-04-4	
Naphthalene	<53.3	ug/kg	53.3	16.0	1	12/14/16 10:10	12/14/16 20:34	91-20-3	
n-Propylbenzene	<65.7	ug/kg	65.7	19.7	1	12/14/16 10:10	12/14/16 20:34	103-65-1	
Styrene	<57.3	ug/kg	57.3	17.2	1	12/14/16 10:10	12/14/16 20:34	100-42-5	
1,1,1,2-Tetrachloroethane	<26.2	ug/kg	26.2	26.2	1	12/14/16 10:10	12/14/16 20:34	630-20-6	
1,1,2,2-Tetrachloroethane	<14.7	ug/kg	14.7	14.7	1	12/14/16 10:10	12/14/16 20:34	79-34-5	
Tetrachloroethene	<84.2	ug/kg	84.2	25.3	1	12/14/16 10:10	12/14/16 20:34	127-18-4	
Tetrahydrofuran	<1090	ug/kg	1090	328	1	12/14/16 10:10	12/14/16 20:34	109-99-9	
Toluene	<70.1	ug/kg	70.1	21.0	1	12/14/16 10:10	12/14/16 20:34	108-88-3	
1,2,3-Trichlorobenzene	<19.1	ug/kg	19.1	19.1	1	12/14/16 10:10	12/14/16 20:34	87-61-6	
1,2,4-Trichlorobenzene	<20.4	ug/kg	20.4	20.4	1	12/14/16 10:10	12/14/16 20:34	120-82-1	
1,1,1-Trichloroethane	<27.7	ug/kg	27.7	27.7	1	12/14/16 10:10	12/14/16 20:34	71-55-6	
1,1,2-Trichloroethane	<14.3	ug/kg	14.3	14.3	1	12/14/16 10:10	12/14/16 20:34	79-00-5	
Trichloroethene	<63.0	ug/kg	63.0	18.9	1	12/14/16 10:10	12/14/16 20:34	79-01-6	
Trichlorofluoromethane	<221	ug/kg	221	66.4	1	12/14/16 10:10	12/14/16 20:34	75-69-4	
1,2,3-Trichloropropane	<68.6	ug/kg	68.6	68.6	1	12/14/16 10:10	12/14/16 20:34	96-18-4	
1,1,2-Trichlorotrifluoroethane	<159	ug/kg	159	47.6	1	12/14/16 10:10	12/14/16 20:34	76-13-1	
1,2,4-Trimethylbenzene	<14.6	ug/kg	14.6	14.6	1	12/14/16 10:10	12/14/16 20:34	95-63-6	
1,3,5-Trimethylbenzene	<50.7	ug/kg	50.7	15.2	1	12/14/16 10:10	12/14/16 20:34	108-67-8	
Vinyl chloride	<28.3	ug/kg	28.3	8.5	1	12/14/16 10:10	12/14/16 20:34	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP1\_10-12**      **Lab ID: 10373134015**      Collected: 12/12/16 12:10      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<176	ug/kg	176	52.9	1	12/14/16 10:10	12/14/16 20:34	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-129		1	12/14/16 10:10	12/14/16 20:34	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/14/16 10:10	12/14/16 20:34	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/14/16 10:10	12/14/16 20:34	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: GP2\_3-5 Lab ID: 10373134016 Collected: 12/12/16 12:30 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	26.3	%	0.10	0.10	1		12/27/16 13:02		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.8	ug/kg	1.8	0.53	1	12/14/16 11:14	12/20/16 19:10	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.37	1	12/14/16 11:14	12/20/16 19:10	208-96-8	
Anthracene	<2.0	ug/kg	2.0	0.61	1	12/14/16 11:14	12/20/16 19:10	120-12-7	
Benzo(a)anthracene	<2.1	ug/kg	2.1	0.63	1	12/14/16 11:14	12/20/16 19:10	56-55-3	
Benzo(a)pyrene	<1.6	ug/kg	1.6	0.47	1	12/14/16 11:14	12/20/16 19:10	50-32-8	
Benzo(b)fluoranthene	<2.6	ug/kg	2.6	0.77	1	12/14/16 11:14	12/20/16 19:10	205-99-2	
Benzo(g,h,i)perylene	<2.1	ug/kg	2.1	0.62	1	12/14/16 11:14	12/20/16 19:10	191-24-2	
Benzo(k)fluoranthene	<2.2	ug/kg	2.2	0.67	1	12/14/16 11:14	12/20/16 19:10	207-08-9	
Chrysene	<2.5	ug/kg	2.5	0.75	1	12/14/16 11:14	12/20/16 19:10	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.44	1	12/14/16 11:14	12/20/16 19:10	53-70-3	
Fluoranthene	<3.5	ug/kg	3.5	1.1	1	12/14/16 11:14	12/20/16 19:10	206-44-0	
Fluorene	<1.7	ug/kg	1.7	0.52	1	12/14/16 11:14	12/20/16 19:10	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.4	ug/kg	3.4	1.0	1	12/14/16 11:14	12/20/16 19:10	193-39-5	
Naphthalene	<1.6	ug/kg	1.6	0.48	1	12/14/16 11:14	12/20/16 19:10	91-20-3	
Phenanthrene	<1.8	ug/kg	1.8	0.54	1	12/14/16 11:14	12/20/16 19:10	85-01-8	
Pyrene	<3.7	ug/kg	3.7	1.1	1	12/14/16 11:14	12/20/16 19:10	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	85	%	41-125		1	12/14/16 11:14	12/20/16 19:10	321-60-8	
p-Terphenyl-d14 (S)	81	%	39-125		1	12/14/16 11:14	12/20/16 19:10	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1440	ug/kg	1440	433	1	12/14/16 10:10	12/14/16 20:52	67-64-1	
Allyl chloride	<188	ug/kg	188	56.6	1	12/14/16 10:10	12/14/16 20:52	107-05-1	
Benzene	50.6	ug/kg	19.0	5.7	1	12/14/16 10:10	12/14/16 20:52	71-43-2	B
Bromobenzene	<56.2	ug/kg	56.2	16.9	1	12/14/16 10:10	12/14/16 20:52	108-86-1	
Bromochloromethane	<65.4	ug/kg	65.4	19.7	1	12/14/16 10:10	12/14/16 20:52	74-97-5	
Bromodichloromethane	<61.5	ug/kg	61.5	18.5	1	12/14/16 10:10	12/14/16 20:52	75-27-4	
Bromoform	<189	ug/kg	189	56.8	1	12/14/16 10:10	12/14/16 20:52	75-25-2	
Bromomethane	<223	ug/kg	223	66.9	1	12/14/16 10:10	12/14/16 20:52	74-83-9	
2-Butanone (MEK)	<290	ug/kg	290	87.0	1	12/14/16 10:10	12/14/16 20:52	78-93-3	
n-Butylbenzene	<53.1	ug/kg	53.1	16.0	1	12/14/16 10:10	12/14/16 20:52	104-51-8	
sec-Butylbenzene	<51.8	ug/kg	51.8	15.6	1	12/14/16 10:10	12/14/16 20:52	135-98-8	
tert-Butylbenzene	<69.4	ug/kg	69.4	20.8	1	12/14/16 10:10	12/14/16 20:52	98-06-6	
Carbon tetrachloride	<68.9	ug/kg	68.9	20.7	1	12/14/16 10:10	12/14/16 20:52	56-23-5	
Chlorobenzene	<38.2	ug/kg	38.2	11.5	1	12/14/16 10:10	12/14/16 20:52	108-90-7	
Chloroethane	<347	ug/kg	347	104	1	12/14/16 10:10	12/14/16 20:52	75-00-3	
Chloroform	<107	ug/kg	107	32.0	1	12/14/16 10:10	12/14/16 20:52	67-66-3	
Chloromethane	<106	ug/kg	106	31.9	1	12/14/16 10:10	12/14/16 20:52	74-87-3	
2-Chlorotoluene	<60.6	ug/kg	60.6	18.2	1	12/14/16 10:10	12/14/16 20:52	95-49-8	
4-Chlorotoluene	<57.5	ug/kg	57.5	17.3	1	12/14/16 10:10	12/14/16 20:52	106-43-4	
1,2-Dibromo-3-chloropropane	<129	ug/kg	129	129	1	12/14/16 10:10	12/14/16 20:52	96-12-8	
Dibromochloromethane	<188	ug/kg	188	56.6	1	12/14/16 10:10	12/14/16 20:52	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: GP2\_3-5 Lab ID: 10373134016 Collected: 12/12/16 12:30 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<24.8	ug/kg	24.8	24.8	1	12/14/16 10:10	12/14/16 20:52	106-93-4	
Dibromomethane	<85.6	ug/kg	85.6	25.7	1	12/14/16 10:10	12/14/16 20:52	74-95-3	
1,2-Dichlorobenzene	<12.7	ug/kg	12.7	12.7	1	12/14/16 10:10	12/14/16 20:52	95-50-1	
1,3-Dichlorobenzene	<19.4	ug/kg	19.4	19.4	1	12/14/16 10:10	12/14/16 20:52	541-73-1	
1,4-Dichlorobenzene	<63.7	ug/kg	63.7	19.1	1	12/14/16 10:10	12/14/16 20:52	106-46-7	
Dichlorodifluoromethane	<67.2	ug/kg	67.2	20.2	1	12/14/16 10:10	12/14/16 20:52	75-71-8	
1,1-Dichloroethane	<25.6	ug/kg	25.6	25.6	1	12/14/16 10:10	12/14/16 20:52	75-34-3	
1,2-Dichloroethane	<20.8	ug/kg	20.8	20.8	1	12/14/16 10:10	12/14/16 20:52	107-06-2	
1,1-Dichloroethene	<16.7	ug/kg	16.7	16.7	1	12/14/16 10:10	12/14/16 20:52	75-35-4	
cis-1,2-Dichloroethene	<81.7	ug/kg	81.7	24.5	1	12/14/16 10:10	12/14/16 20:52	156-59-2	
trans-1,2-Dichloroethene	<106	ug/kg	106	31.8	1	12/14/16 10:10	12/14/16 20:52	156-60-5	
Dichlorofluoromethane	<602	ug/kg	602	181	1	12/14/16 10:10	12/14/16 20:52	75-43-4	
1,2-Dichloropropane	<22.8	ug/kg	22.8	22.8	1	12/14/16 10:10	12/14/16 20:52	78-87-5	
1,3-Dichloropropane	<78.6	ug/kg	78.6	23.6	1	12/14/16 10:10	12/14/16 20:52	142-28-9	
2,2-Dichloropropane	<69.8	ug/kg	69.8	21.0	1	12/14/16 10:10	12/14/16 20:52	594-20-7	
1,1-Dichloropropene	<19.9	ug/kg	19.9	19.9	1	12/14/16 10:10	12/14/16 20:52	563-58-6	
cis-1,3-Dichloropropene	<100	ug/kg	100	30.1	1	12/14/16 10:10	12/14/16 20:52	10061-01-5	
trans-1,3-Dichloropropene	<74.7	ug/kg	74.7	22.4	1	12/14/16 10:10	12/14/16 20:52	10061-02-6	
Diethyl ether (Ethyl ether)	<90.5	ug/kg	90.5	27.2	1	12/14/16 10:10	12/14/16 20:52	60-29-7	
Ethylbenzene	<69.8	ug/kg	69.8	21.0	1	12/14/16 10:10	12/14/16 20:52	100-41-4	
Hexachloro-1,3-butadiene	<206	ug/kg	206	62.0	1	12/14/16 10:10	12/14/16 20:52	87-68-3	
Isopropylbenzene (Cumene)	<78.2	ug/kg	78.2	23.5	1	12/14/16 10:10	12/14/16 20:52	98-82-8	
p-Isopropyltoluene	<36.5	ug/kg	36.5	10.9	1	12/14/16 10:10	12/14/16 20:52	99-87-6	
Methylene Chloride	<407	ug/kg	407	122	1	12/14/16 10:10	12/14/16 20:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	<145	ug/kg	145	43.7	1	12/14/16 10:10	12/14/16 20:52	108-10-1	
Methyl-tert-butyl ether	<41.1	ug/kg	41.1	12.3	1	12/14/16 10:10	12/14/16 20:52	1634-04-4	
Naphthalene	<53.1	ug/kg	53.1	16.0	1	12/14/16 10:10	12/14/16 20:52	91-20-3	
n-Propylbenzene	<65.4	ug/kg	65.4	19.7	1	12/14/16 10:10	12/14/16 20:52	103-65-1	
Styrene	<57.1	ug/kg	57.1	17.1	1	12/14/16 10:10	12/14/16 20:52	100-42-5	
1,1,1,2-Tetrachloroethane	<26.1	ug/kg	26.1	26.1	1	12/14/16 10:10	12/14/16 20:52	630-20-6	
1,1,2,2-Tetrachloroethane	<14.6	ug/kg	14.6	14.6	1	12/14/16 10:10	12/14/16 20:52	79-34-5	
Tetrachloroethene	<83.9	ug/kg	83.9	25.2	1	12/14/16 10:10	12/14/16 20:52	127-18-4	
Tetrahydrofuran	<1090	ug/kg	1090	327	1	12/14/16 10:10	12/14/16 20:52	109-99-9	
Toluene	<69.8	ug/kg	69.8	21.0	1	12/14/16 10:10	12/14/16 20:52	108-88-3	
1,2,3-Trichlorobenzene	<19.0	ug/kg	19.0	19.0	1	12/14/16 10:10	12/14/16 20:52	87-61-6	
1,2,4-Trichlorobenzene	<20.3	ug/kg	20.3	20.3	1	12/14/16 10:10	12/14/16 20:52	120-82-1	
1,1,1-Trichloroethane	<27.6	ug/kg	27.6	27.6	1	12/14/16 10:10	12/14/16 20:52	71-55-6	
1,1,2-Trichloroethane	<14.2	ug/kg	14.2	14.2	1	12/14/16 10:10	12/14/16 20:52	79-00-5	
Trichloroethene	<62.8	ug/kg	62.8	18.9	1	12/14/16 10:10	12/14/16 20:52	79-01-6	
Trichlorofluoromethane	<220	ug/kg	220	66.2	1	12/14/16 10:10	12/14/16 20:52	75-69-4	
1,2,3-Trichloropropane	<68.3	ug/kg	68.3	68.3	1	12/14/16 10:10	12/14/16 20:52	96-18-4	
1,1,2-Trichlorotrifluoroethane	<158	ug/kg	158	47.5	1	12/14/16 10:10	12/14/16 20:52	76-13-1	
1,2,4-Trimethylbenzene	<14.5	ug/kg	14.5	14.5	1	12/14/16 10:10	12/14/16 20:52	95-63-6	
1,3,5-Trimethylbenzene	<50.5	ug/kg	50.5	15.2	1	12/14/16 10:10	12/14/16 20:52	108-67-8	
Vinyl chloride	<28.2	ug/kg	28.2	8.5	1	12/14/16 10:10	12/14/16 20:52	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP2\_3-5**      **Lab ID: 10373134016**      Collected: 12/12/16 12:30      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<176	ug/kg	176	52.8	1	12/14/16 10:10	12/14/16 20:52	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-129		1	12/14/16 10:10	12/14/16 20:52	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/14/16 10:10	12/14/16 20:52	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/14/16 10:10	12/14/16 20:52	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP2\_8-10**      **Lab ID: 10373134017**      Collected: 12/12/16 12:35      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	23.1	%	0.10	0.10	1		12/27/16 13:02		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.51	1	12/14/16 11:14	12/20/16 19:32	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.35	1	12/14/16 11:14	12/20/16 19:32	208-96-8	
Anthracene	<2.0	ug/kg	2.0	0.59	1	12/14/16 11:14	12/20/16 19:32	120-12-7	
Benzo(a)anthracene	<2.0	ug/kg	2.0	0.61	1	12/14/16 11:14	12/20/16 19:32	56-55-3	
Benzo(a)pyrene	<1.5	ug/kg	1.5	0.45	1	12/14/16 11:14	12/20/16 19:32	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	2.5	0.74	1	12/14/16 11:14	12/20/16 19:32	205-99-2	
Benzo(g,h,i)perylene	<2.0	ug/kg	2.0	0.59	1	12/14/16 11:14	12/20/16 19:32	191-24-2	
Benzo(k)fluoranthene	<2.1	ug/kg	2.1	0.64	1	12/14/16 11:14	12/20/16 19:32	207-08-9	
Chrysene	<2.4	ug/kg	2.4	0.72	1	12/14/16 11:14	12/20/16 19:32	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.42	1	12/14/16 11:14	12/20/16 19:32	53-70-3	
Fluoranthene	<3.4	ug/kg	3.4	1.0	1	12/14/16 11:14	12/20/16 19:32	206-44-0	
Fluorene	<1.7	ug/kg	1.7	0.50	1	12/14/16 11:14	12/20/16 19:32	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.2	ug/kg	3.2	0.97	1	12/14/16 11:14	12/20/16 19:32	193-39-5	
Naphthalene	<1.5	ug/kg	1.5	0.46	1	12/14/16 11:14	12/20/16 19:32	91-20-3	
Phenanthrene	<1.7	ug/kg	1.7	0.52	1	12/14/16 11:14	12/20/16 19:32	85-01-8	
Pyrene	<3.6	ug/kg	3.6	1.1	1	12/14/16 11:14	12/20/16 19:32	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	83	%	41-125		1	12/14/16 11:14	12/20/16 19:32	321-60-8	
p-Terphenyl-d14 (S)	76	%	39-125		1	12/14/16 11:14	12/20/16 19:32	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1430	ug/kg	1430	431	1	12/14/16 10:10	12/14/16 21:09	67-64-1	
Allyl chloride	<188	ug/kg	188	56.3	1	12/14/16 10:10	12/14/16 21:09	107-05-1	
Benzene	67.3	ug/kg	18.9	5.7	1	12/14/16 10:10	12/14/16 21:09	71-43-2	B
Bromobenzene	<56.0	ug/kg	56.0	16.8	1	12/14/16 10:10	12/14/16 21:09	108-86-1	
Bromochloromethane	<65.2	ug/kg	65.2	19.6	1	12/14/16 10:10	12/14/16 21:09	74-97-5	
Bromodichloromethane	<61.2	ug/kg	61.2	18.4	1	12/14/16 10:10	12/14/16 21:09	75-27-4	
Bromoform	<189	ug/kg	189	56.6	1	12/14/16 10:10	12/14/16 21:09	75-25-2	
Bromomethane	<222	ug/kg	222	66.6	1	12/14/16 10:10	12/14/16 21:09	74-83-9	
2-Butanone (MEK)	<289	ug/kg	289	86.7	1	12/14/16 10:10	12/14/16 21:09	78-93-3	
n-Butylbenzene	<52.9	ug/kg	52.9	15.9	1	12/14/16 10:10	12/14/16 21:09	104-51-8	
sec-Butylbenzene	<51.6	ug/kg	51.6	15.5	1	12/14/16 10:10	12/14/16 21:09	135-98-8	
tert-Butylbenzene	<69.1	ug/kg	69.1	20.8	1	12/14/16 10:10	12/14/16 21:09	98-06-6	
Carbon tetrachloride	<68.7	ug/kg	68.7	20.6	1	12/14/16 10:10	12/14/16 21:09	56-23-5	
Chlorobenzene	<38.1	ug/kg	38.1	11.4	1	12/14/16 10:10	12/14/16 21:09	108-90-7	
Chloroethane	<346	ug/kg	346	104	1	12/14/16 10:10	12/14/16 21:09	75-00-3	
Chloroform	<106	ug/kg	106	31.9	1	12/14/16 10:10	12/14/16 21:09	67-66-3	
Chloromethane	<106	ug/kg	106	31.8	1	12/14/16 10:10	12/14/16 21:09	74-87-3	
2-Chlorotoluene	<60.4	ug/kg	60.4	18.1	1	12/14/16 10:10	12/14/16 21:09	95-49-8	
4-Chlorotoluene	<57.3	ug/kg	57.3	17.2	1	12/14/16 10:10	12/14/16 21:09	106-43-4	
1,2-Dibromo-3-chloropropane	<128	ug/kg	128	128	1	12/14/16 10:10	12/14/16 21:09	96-12-8	
Dibromochloromethane	<188	ug/kg	188	56.3	1	12/14/16 10:10	12/14/16 21:09	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP2\_8-10**      **Lab ID: 10373134017**      Collected: 12/12/16 12:35      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<24.7	ug/kg	24.7	24.7	1	12/14/16 10:10	12/14/16 21:09	106-93-4	
Dibromomethane	<85.3	ug/kg	85.3	25.6	1	12/14/16 10:10	12/14/16 21:09	74-95-3	
1,2-Dichlorobenzene	<12.7	ug/kg	12.7	12.7	1	12/14/16 10:10	12/14/16 21:09	95-50-1	
1,3-Dichlorobenzene	<19.3	ug/kg	19.3	19.3	1	12/14/16 10:10	12/14/16 21:09	541-73-1	
1,4-Dichlorobenzene	<63.4	ug/kg	63.4	19.0	1	12/14/16 10:10	12/14/16 21:09	106-46-7	
Dichlorodifluoromethane	<66.9	ug/kg	66.9	20.1	1	12/14/16 10:10	12/14/16 21:09	75-71-8	
1,1-Dichloroethane	<25.5	ug/kg	25.5	25.5	1	12/14/16 10:10	12/14/16 21:09	75-34-3	
1,2-Dichloroethane	<20.8	ug/kg	20.8	20.8	1	12/14/16 10:10	12/14/16 21:09	107-06-2	
1,1-Dichloroethene	<16.7	ug/kg	16.7	16.7	1	12/14/16 10:10	12/14/16 21:09	75-35-4	
cis-1,2-Dichloroethene	<81.3	ug/kg	81.3	24.4	1	12/14/16 10:10	12/14/16 21:09	156-59-2	
trans-1,2-Dichloroethene	<105	ug/kg	105	31.7	1	12/14/16 10:10	12/14/16 21:09	156-60-5	
Dichlorofluoromethane	<599	ug/kg	599	180	1	12/14/16 10:10	12/14/16 21:09	75-43-4	
1,2-Dichloropropane	<22.7	ug/kg	22.7	22.7	1	12/14/16 10:10	12/14/16 21:09	78-87-5	
1,3-Dichloropropane	<78.3	ug/kg	78.3	23.5	1	12/14/16 10:10	12/14/16 21:09	142-28-9	
2,2-Dichloropropane	<69.5	ug/kg	69.5	20.9	1	12/14/16 10:10	12/14/16 21:09	594-20-7	
1,1-Dichloropropene	<19.8	ug/kg	19.8	19.8	1	12/14/16 10:10	12/14/16 21:09	563-58-6	
cis-1,3-Dichloropropene	<99.7	ug/kg	99.7	29.9	1	12/14/16 10:10	12/14/16 21:09	10061-01-5	
trans-1,3-Dichloropropene	<74.4	ug/kg	74.4	22.3	1	12/14/16 10:10	12/14/16 21:09	10061-02-6	
Diethyl ether (Ethyl ether)	<90.1	ug/kg	90.1	27.1	1	12/14/16 10:10	12/14/16 21:09	60-29-7	
Ethylbenzene	<69.5	ug/kg	69.5	20.9	1	12/14/16 10:10	12/14/16 21:09	100-41-4	
Hexachloro-1,3-butadiene	<206	ug/kg	206	61.7	1	12/14/16 10:10	12/14/16 21:09	87-68-3	
Isopropylbenzene (Cumene)	<77.9	ug/kg	77.9	23.4	1	12/14/16 10:10	12/14/16 21:09	98-82-8	
p-Isopropyltoluene	<36.3	ug/kg	36.3	10.9	1	12/14/16 10:10	12/14/16 21:09	99-87-6	
Methylene Chloride	<405	ug/kg	405	122	1	12/14/16 10:10	12/14/16 21:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	<145	ug/kg	145	43.5	1	12/14/16 10:10	12/14/16 21:09	108-10-1	
Methyl-tert-butyl ether	<40.9	ug/kg	40.9	12.3	1	12/14/16 10:10	12/14/16 21:09	1634-04-4	
Naphthalene	<52.9	ug/kg	52.9	15.9	1	12/14/16 10:10	12/14/16 21:09	91-20-3	
n-Propylbenzene	<65.2	ug/kg	65.2	19.6	1	12/14/16 10:10	12/14/16 21:09	103-65-1	
Styrene	<56.9	ug/kg	56.9	17.1	1	12/14/16 10:10	12/14/16 21:09	100-42-5	
1,1,1,2-Tetrachloroethane	<26.0	ug/kg	26.0	26.0	1	12/14/16 10:10	12/14/16 21:09	630-20-6	
1,1,1,2,2-Tetrachloroethane	<14.6	ug/kg	14.6	14.6	1	12/14/16 10:10	12/14/16 21:09	79-34-5	
Tetrachloroethene	<83.5	ug/kg	83.5	25.1	1	12/14/16 10:10	12/14/16 21:09	127-18-4	
Tetrahydrofuran	<1080	ug/kg	1080	326	1	12/14/16 10:10	12/14/16 21:09	109-99-9	
Toluene	<69.5	ug/kg	69.5	20.9	1	12/14/16 10:10	12/14/16 21:09	108-88-3	
1,2,3-Trichlorobenzene	<18.9	ug/kg	18.9	18.9	1	12/14/16 10:10	12/14/16 21:09	87-61-6	
1,2,4-Trichlorobenzene	<20.2	ug/kg	20.2	20.2	1	12/14/16 10:10	12/14/16 21:09	120-82-1	
1,1,1-Trichloroethane	<27.5	ug/kg	27.5	27.5	1	12/14/16 10:10	12/14/16 21:09	71-55-6	
1,1,2-Trichloroethane	<14.2	ug/kg	14.2	14.2	1	12/14/16 10:10	12/14/16 21:09	79-00-5	
Trichloroethene	<62.5	ug/kg	62.5	18.8	1	12/14/16 10:10	12/14/16 21:09	79-01-6	
Trichlorofluoromethane	<220	ug/kg	220	65.9	1	12/14/16 10:10	12/14/16 21:09	75-69-4	
1,2,3-Trichloropropane	<68.0	ug/kg	68.0	68.0	1	12/14/16 10:10	12/14/16 21:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	<157	ug/kg	157	47.3	1	12/14/16 10:10	12/14/16 21:09	76-13-1	
1,2,4-Trimethylbenzene	<14.4	ug/kg	14.4	14.4	1	12/14/16 10:10	12/14/16 21:09	95-63-6	
1,3,5-Trimethylbenzene	<50.3	ug/kg	50.3	15.1	1	12/14/16 10:10	12/14/16 21:09	108-67-8	
Vinyl chloride	<28.1	ug/kg	28.1	8.4	1	12/14/16 10:10	12/14/16 21:09	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

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**Sample: GP2\_8-10**      **Lab ID: 10373134017**      Collected: 12/12/16 12:35      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<175	ug/kg	175	52.5	1	12/14/16 10:10	12/14/16 21:09	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%	75-129		1	12/14/16 10:10	12/14/16 21:09	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/14/16 10:10	12/14/16 21:09	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/14/16 10:10	12/14/16 21:09	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP2\_13-15**      **Lab ID: 10373134018**      Collected: 12/12/16 12:40      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>27.0</b>	%	0.10	0.10	1		12/27/16 13:02		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.8	ug/kg	1.8	0.53	1	12/14/16 11:14	12/20/16 19:53	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.37	1	12/14/16 11:14	12/20/16 19:53	208-96-8	
Anthracene	<2.1	ug/kg	2.1	0.62	1	12/14/16 11:14	12/20/16 19:53	120-12-7	
Benzo(a)anthracene	<2.1	ug/kg	2.1	0.64	1	12/14/16 11:14	12/20/16 19:53	56-55-3	
Benzo(a)pyrene	<1.6	ug/kg	1.6	0.47	1	12/14/16 11:14	12/20/16 19:53	50-32-8	
Benzo(b)fluoranthene	<2.6	ug/kg	2.6	0.78	1	12/14/16 11:14	12/20/16 19:53	205-99-2	
Benzo(g,h,i)perylene	<2.1	ug/kg	2.1	0.63	1	12/14/16 11:14	12/20/16 19:53	191-24-2	
Benzo(k)fluoranthene	<2.2	ug/kg	2.2	0.67	1	12/14/16 11:14	12/20/16 19:53	207-08-9	
Chrysene	<2.5	ug/kg	2.5	0.76	1	12/14/16 11:14	12/20/16 19:53	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.45	1	12/14/16 11:14	12/20/16 19:53	53-70-3	
Fluoranthene	<3.6	ug/kg	3.6	1.1	1	12/14/16 11:14	12/20/16 19:53	206-44-0	
Fluorene	<1.7	ug/kg	1.7	0.52	1	12/14/16 11:14	12/20/16 19:53	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.4	ug/kg	3.4	1.0	1	12/14/16 11:14	12/20/16 19:53	193-39-5	
Naphthalene	<1.6	ug/kg	1.6	0.49	1	12/14/16 11:14	12/20/16 19:53	91-20-3	
Phenanthrene	<1.8	ug/kg	1.8	0.55	1	12/14/16 11:14	12/20/16 19:53	85-01-8	
Pyrene	<3.8	ug/kg	3.8	1.1	1	12/14/16 11:14	12/20/16 19:53	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	79	%	41-125		1	12/14/16 11:14	12/20/16 19:53	321-60-8	
p-Terphenyl-d14 (S)	80	%	39-125		1	12/14/16 11:14	12/20/16 19:53	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1490	ug/kg	1490	447	1	12/14/16 10:10	12/14/16 21:27	67-64-1	
Allyl chloride	<195	ug/kg	195	58.4	1	12/14/16 10:10	12/14/16 21:27	107-05-1	
Benzene	<b>36.5</b>	ug/kg	19.6	5.9	1	12/14/16 10:10	12/14/16 21:27	71-43-2	B
Bromobenzene	<58.0	ug/kg	58.0	17.4	1	12/14/16 10:10	12/14/16 21:27	108-86-1	
Bromochloromethane	<67.6	ug/kg	67.6	20.3	1	12/14/16 10:10	12/14/16 21:27	74-97-5	
Bromodichloromethane	<63.5	ug/kg	63.5	19.1	1	12/14/16 10:10	12/14/16 21:27	75-27-4	
Bromoform	<195	ug/kg	195	58.7	1	12/14/16 10:10	12/14/16 21:27	75-25-2	
Bromomethane	<230	ug/kg	230	69.0	1	12/14/16 10:10	12/14/16 21:27	74-83-9	
2-Butanone (MEK)	<299	ug/kg	299	89.9	1	12/14/16 10:10	12/14/16 21:27	78-93-3	
n-Butylbenzene	<54.9	ug/kg	54.9	16.5	1	12/14/16 10:10	12/14/16 21:27	104-51-8	
sec-Butylbenzene	<53.5	ug/kg	53.5	16.1	1	12/14/16 10:10	12/14/16 21:27	135-98-8	
tert-Butylbenzene	<71.6	ug/kg	71.6	21.5	1	12/14/16 10:10	12/14/16 21:27	98-06-6	
Carbon tetrachloride	<71.2	ug/kg	71.2	21.4	1	12/14/16 10:10	12/14/16 21:27	56-23-5	
Chlorobenzene	<39.5	ug/kg	39.5	11.8	1	12/14/16 10:10	12/14/16 21:27	108-90-7	
Chloroethane	<358	ug/kg	358	108	1	12/14/16 10:10	12/14/16 21:27	75-00-3	
Chloroform	<110	ug/kg	110	33.1	1	12/14/16 10:10	12/14/16 21:27	67-66-3	
Chloromethane	<110	ug/kg	110	33.0	1	12/14/16 10:10	12/14/16 21:27	74-87-3	
2-Chlorotoluene	<62.6	ug/kg	62.6	18.8	1	12/14/16 10:10	12/14/16 21:27	95-49-8	
4-Chlorotoluene	<59.4	ug/kg	59.4	17.8	1	12/14/16 10:10	12/14/16 21:27	106-43-4	
1,2-Dibromo-3-chloropropane	<133	ug/kg	133	133	1	12/14/16 10:10	12/14/16 21:27	96-12-8	
Dibromochloromethane	<195	ug/kg	195	58.4	1	12/14/16 10:10	12/14/16 21:27	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP2\_13-15** Lab ID: **10373134018** Collected: 12/12/16 12:40 Received: 12/13/16 17:25 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<25.6	ug/kg	25.6	25.6	1	12/14/16 10:10	12/14/16 21:27	106-93-4	
Dibromomethane	<88.4	ug/kg	88.4	26.6	1	12/14/16 10:10	12/14/16 21:27	74-95-3	
1,2-Dichlorobenzene	<13.2	ug/kg	13.2	13.2	1	12/14/16 10:10	12/14/16 21:27	95-50-1	
1,3-Dichlorobenzene	<20.0	ug/kg	20.0	20.0	1	12/14/16 10:10	12/14/16 21:27	541-73-1	
1,4-Dichlorobenzene	<65.8	ug/kg	65.8	19.7	1	12/14/16 10:10	12/14/16 21:27	106-46-7	
Dichlorodifluoromethane	<69.4	ug/kg	69.4	20.8	1	12/14/16 10:10	12/14/16 21:27	75-71-8	
1,1-Dichloroethane	<26.4	ug/kg	26.4	26.4	1	12/14/16 10:10	12/14/16 21:27	75-34-3	
1,2-Dichloroethane	<21.5	ug/kg	21.5	21.5	1	12/14/16 10:10	12/14/16 21:27	107-06-2	
1,1-Dichloroethene	<17.3	ug/kg	17.3	17.3	1	12/14/16 10:10	12/14/16 21:27	75-35-4	
cis-1,2-Dichloroethene	<84.3	ug/kg	84.3	25.3	1	12/14/16 10:10	12/14/16 21:27	156-59-2	
trans-1,2-Dichloroethene	<109	ug/kg	109	32.8	1	12/14/16 10:10	12/14/16 21:27	156-60-5	
Dichlorofluoromethane	<621	ug/kg	621	187	1	12/14/16 10:10	12/14/16 21:27	75-43-4	
1,2-Dichloropropane	<23.6	ug/kg	23.6	23.6	1	12/14/16 10:10	12/14/16 21:27	78-87-5	
1,3-Dichloropropane	<81.2	ug/kg	81.2	24.4	1	12/14/16 10:10	12/14/16 21:27	142-28-9	
2,2-Dichloropropane	<72.1	ug/kg	72.1	21.7	1	12/14/16 10:10	12/14/16 21:27	594-20-7	
1,1-Dichloropropene	<20.6	ug/kg	20.6	20.6	1	12/14/16 10:10	12/14/16 21:27	563-58-6	
cis-1,3-Dichloropropene	<103	ug/kg	103	31.0	1	12/14/16 10:10	12/14/16 21:27	10061-01-5	
trans-1,3-Dichloropropene	<77.1	ug/kg	77.1	23.2	1	12/14/16 10:10	12/14/16 21:27	10061-02-6	
Diethyl ether (Ethyl ether)	<93.4	ug/kg	93.4	28.1	1	12/14/16 10:10	12/14/16 21:27	60-29-7	
Ethylbenzene	<72.1	ug/kg	72.1	21.7	1	12/14/16 10:10	12/14/16 21:27	100-41-4	
Hexachloro-1,3-butadiene	<213	ug/kg	213	64.0	1	12/14/16 10:10	12/14/16 21:27	87-68-3	
Isopropylbenzene (Cumene)	<80.7	ug/kg	80.7	24.2	1	12/14/16 10:10	12/14/16 21:27	98-82-8	
p-Isopropyltoluene	<37.6	ug/kg	37.6	11.3	1	12/14/16 10:10	12/14/16 21:27	99-87-6	
Methylene Chloride	<420	ug/kg	420	126	1	12/14/16 10:10	12/14/16 21:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	<150	ug/kg	150	45.1	1	12/14/16 10:10	12/14/16 21:27	108-10-1	
Methyl-tert-butyl ether	<42.4	ug/kg	42.4	12.7	1	12/14/16 10:10	12/14/16 21:27	1634-04-4	
Naphthalene	<54.9	ug/kg	54.9	16.5	1	12/14/16 10:10	12/14/16 21:27	91-20-3	
n-Propylbenzene	<67.6	ug/kg	67.6	20.3	1	12/14/16 10:10	12/14/16 21:27	103-65-1	
Styrene	<59.0	ug/kg	59.0	17.7	1	12/14/16 10:10	12/14/16 21:27	100-42-5	
1,1,1,2-Tetrachloroethane	<27.0	ug/kg	27.0	27.0	1	12/14/16 10:10	12/14/16 21:27	630-20-6	
1,1,1,2,2-Tetrachloroethane	<15.1	ug/kg	15.1	15.1	1	12/14/16 10:10	12/14/16 21:27	79-34-5	
Tetrachloroethene	<86.6	ug/kg	86.6	26.0	1	12/14/16 10:10	12/14/16 21:27	127-18-4	
Tetrahydrofuran	<1120	ug/kg	1120	338	1	12/14/16 10:10	12/14/16 21:27	109-99-9	
Toluene	<72.1	ug/kg	72.1	21.7	1	12/14/16 10:10	12/14/16 21:27	108-88-3	
1,2,3-Trichlorobenzene	<19.6	ug/kg	19.6	19.6	1	12/14/16 10:10	12/14/16 21:27	87-61-6	
1,2,4-Trichlorobenzene	<21.0	ug/kg	21.0	21.0	1	12/14/16 10:10	12/14/16 21:27	120-82-1	
1,1,1-Trichloroethane	<28.5	ug/kg	28.5	28.5	1	12/14/16 10:10	12/14/16 21:27	71-55-6	
1,1,2-Trichloroethane	<14.7	ug/kg	14.7	14.7	1	12/14/16 10:10	12/14/16 21:27	79-00-5	
Trichloroethene	<64.8	ug/kg	64.8	19.5	1	12/14/16 10:10	12/14/16 21:27	79-01-6	
Trichlorofluoromethane	<228	ug/kg	228	68.4	1	12/14/16 10:10	12/14/16 21:27	75-69-4	
1,2,3-Trichloropropane	<70.5	ug/kg	70.5	70.5	1	12/14/16 10:10	12/14/16 21:27	96-18-4	
1,1,2-Trichlorotrifluoroethane	<163	ug/kg	163	49.0	1	12/14/16 10:10	12/14/16 21:27	76-13-1	
1,2,4-Trimethylbenzene	<15.0	ug/kg	15.0	15.0	1	12/14/16 10:10	12/14/16 21:27	95-63-6	
1,3,5-Trimethylbenzene	<52.1	ug/kg	52.1	15.7	1	12/14/16 10:10	12/14/16 21:27	108-67-8	
Vinyl chloride	<29.1	ug/kg	29.1	8.7	1	12/14/16 10:10	12/14/16 21:27	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP2\_13-15**      **Lab ID: 10373134018**      Collected: 12/12/16 12:40      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<181	ug/kg	181	54.5	1	12/14/16 10:10	12/14/16 21:27	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%	75-129		1	12/14/16 10:10	12/14/16 21:27	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/14/16 10:10	12/14/16 21:27	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/14/16 10:10	12/14/16 21:27	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP3\_0-4** Lab ID: **10373134019** Collected: 12/12/16 13:00 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	23.4	%	0.10	0.10	1		12/27/16 13:03		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.51	1	12/14/16 11:14	12/20/16 20:15	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.35	1	12/14/16 11:14	12/20/16 20:15	208-96-8	
Anthracene	<2.0	ug/kg	2.0	0.59	1	12/14/16 11:14	12/20/16 20:15	120-12-7	
Benzo(a)anthracene	8.3	ug/kg	2.0	0.61	1	12/14/16 11:14	12/20/16 20:15	56-55-3	
Benzo(a)pyrene	10.1	ug/kg	1.5	0.45	1	12/14/16 11:14	12/20/16 20:15	50-32-8	
Benzo(b)fluoranthene	13.0	ug/kg	2.5	0.74	1	12/14/16 11:14	12/20/16 20:15	205-99-2	
Benzo(g,h,i)perylene	9.8	ug/kg	2.0	0.60	1	12/14/16 11:14	12/20/16 20:15	191-24-2	
Benzo(k)fluoranthene	7.1	ug/kg	2.1	0.64	1	12/14/16 11:14	12/20/16 20:15	207-08-9	
Chrysene	14.2	ug/kg	2.4	0.72	1	12/14/16 11:14	12/20/16 20:15	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.42	1	12/14/16 11:14	12/20/16 20:15	53-70-3	
Fluoranthene	16.0	ug/kg	3.4	1.0	1	12/14/16 11:14	12/20/16 20:15	206-44-0	
Fluorene	<1.7	ug/kg	1.7	0.50	1	12/14/16 11:14	12/20/16 20:15	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.2	ug/kg	3.2	0.97	1	12/14/16 11:14	12/20/16 20:15	193-39-5	
Naphthalene	<1.5	ug/kg	1.5	0.46	1	12/14/16 11:14	12/20/16 20:15	91-20-3	
Phenanthrene	<1.7	ug/kg	1.7	0.52	1	12/14/16 11:14	12/20/16 20:15	85-01-8	
Pyrene	13.9	ug/kg	3.6	1.1	1	12/14/16 11:14	12/20/16 20:15	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	90	%	41-125		1	12/14/16 11:14	12/20/16 20:15	321-60-8	
p-Terphenyl-d14 (S)	71	%	39-125		1	12/14/16 11:14	12/20/16 20:15	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1480	ug/kg	1480	444	1	12/14/16 10:10	12/14/16 21:44	67-64-1	
Allyl chloride	<193	ug/kg	193	58.0	1	12/14/16 10:10	12/14/16 21:44	107-05-1	
Benzene	21.2	ug/kg	19.5	5.8	1	12/14/16 10:10	12/14/16 21:44	71-43-2	B
Bromobenzene	<57.6	ug/kg	57.6	17.3	1	12/14/16 10:10	12/14/16 21:44	108-86-1	
Bromochloromethane	<67.1	ug/kg	67.1	20.2	1	12/14/16 10:10	12/14/16 21:44	74-97-5	
Bromodichloromethane	<63.0	ug/kg	63.0	18.9	1	12/14/16 10:10	12/14/16 21:44	75-27-4	
Bromoform	<194	ug/kg	194	58.3	1	12/14/16 10:10	12/14/16 21:44	75-25-2	
Bromomethane	<228	ug/kg	228	68.6	1	12/14/16 10:10	12/14/16 21:44	74-83-9	
2-Butanone (MEK)	<297	ug/kg	297	89.3	1	12/14/16 10:10	12/14/16 21:44	78-93-3	
n-Butylbenzene	<54.5	ug/kg	54.5	16.4	1	12/14/16 10:10	12/14/16 21:44	104-51-8	
sec-Butylbenzene	<53.1	ug/kg	53.1	16.0	1	12/14/16 10:10	12/14/16 21:44	135-98-8	
tert-Butylbenzene	<71.2	ug/kg	71.2	21.4	1	12/14/16 10:10	12/14/16 21:44	98-06-6	
Carbon tetrachloride	<70.7	ug/kg	70.7	21.2	1	12/14/16 10:10	12/14/16 21:44	56-23-5	
Chlorobenzene	<39.2	ug/kg	39.2	11.8	1	12/14/16 10:10	12/14/16 21:44	108-90-7	
Chloroethane	<356	ug/kg	356	107	1	12/14/16 10:10	12/14/16 21:44	75-00-3	
Chloroform	<109	ug/kg	109	32.9	1	12/14/16 10:10	12/14/16 21:44	67-66-3	
Chloromethane	<109	ug/kg	109	32.7	1	12/14/16 10:10	12/14/16 21:44	74-87-3	
2-Chlorotoluene	<62.1	ug/kg	62.1	18.7	1	12/14/16 10:10	12/14/16 21:44	95-49-8	
4-Chlorotoluene	<59.0	ug/kg	59.0	17.7	1	12/14/16 10:10	12/14/16 21:44	106-43-4	
1,2-Dibromo-3-chloropropane	<132	ug/kg	132	132	1	12/14/16 10:10	12/14/16 21:44	96-12-8	
Dibromochloromethane	<193	ug/kg	193	58.0	1	12/14/16 10:10	12/14/16 21:44	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP3\_0-4** Lab ID: **10373134019** Collected: 12/12/16 13:00 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<25.4	ug/kg	25.4	25.4	1	12/14/16 10:10	12/14/16 21:44	106-93-4	
Dibromomethane	<87.8	ug/kg	87.8	26.4	1	12/14/16 10:10	12/14/16 21:44	74-95-3	
1,2-Dichlorobenzene	<13.1	ug/kg	13.1	13.1	1	12/14/16 10:10	12/14/16 21:44	95-50-1	
1,3-Dichlorobenzene	<19.9	ug/kg	19.9	19.9	1	12/14/16 10:10	12/14/16 21:44	541-73-1	
1,4-Dichlorobenzene	<65.3	ug/kg	65.3	19.6	1	12/14/16 10:10	12/14/16 21:44	106-46-7	
Dichlorodifluoromethane	<68.9	ug/kg	68.9	20.7	1	12/14/16 10:10	12/14/16 21:44	75-71-8	
1,1-Dichloroethane	<26.2	ug/kg	26.2	26.2	1	12/14/16 10:10	12/14/16 21:44	75-34-3	
1,2-Dichloroethane	<21.4	ug/kg	21.4	21.4	1	12/14/16 10:10	12/14/16 21:44	107-06-2	
1,1-Dichloroethene	<17.2	ug/kg	17.2	17.2	1	12/14/16 10:10	12/14/16 21:44	75-35-4	
cis-1,2-Dichloroethene	<83.8	ug/kg	83.8	25.2	1	12/14/16 10:10	12/14/16 21:44	156-59-2	
trans-1,2-Dichloroethene	<109	ug/kg	109	32.6	1	12/14/16 10:10	12/14/16 21:44	156-60-5	
Dichlorofluoromethane	<617	ug/kg	617	185	1	12/14/16 10:10	12/14/16 21:44	75-43-4	
1,2-Dichloropropane	<23.4	ug/kg	23.4	23.4	1	12/14/16 10:10	12/14/16 21:44	78-87-5	
1,3-Dichloropropane	<80.6	ug/kg	80.6	24.2	1	12/14/16 10:10	12/14/16 21:44	142-28-9	
2,2-Dichloropropane	<71.6	ug/kg	71.6	21.5	1	12/14/16 10:10	12/14/16 21:44	594-20-7	
1,1-Dichloropropene	<20.4	ug/kg	20.4	20.4	1	12/14/16 10:10	12/14/16 21:44	563-58-6	
cis-1,3-Dichloropropene	<103	ug/kg	103	30.8	1	12/14/16 10:10	12/14/16 21:44	10061-01-5	
trans-1,3-Dichloropropene	<76.6	ug/kg	76.6	23.0	1	12/14/16 10:10	12/14/16 21:44	10061-02-6	
Diethyl ether (Ethyl ether)	<92.8	ug/kg	92.8	27.9	1	12/14/16 10:10	12/14/16 21:44	60-29-7	
Ethylbenzene	<71.6	ug/kg	71.6	21.5	1	12/14/16 10:10	12/14/16 21:44	100-41-4	
Hexachloro-1,3-butadiene	<212	ug/kg	212	63.6	1	12/14/16 10:10	12/14/16 21:44	87-68-3	
Isopropylbenzene (Cumene)	<80.2	ug/kg	80.2	24.1	1	12/14/16 10:10	12/14/16 21:44	98-82-8	
p-Isopropyltoluene	<37.4	ug/kg	37.4	11.2	1	12/14/16 10:10	12/14/16 21:44	99-87-6	
Methylene Chloride	<417	ug/kg	417	125	1	12/14/16 10:10	12/14/16 21:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	<149	ug/kg	149	44.8	1	12/14/16 10:10	12/14/16 21:44	108-10-1	
Methyl-tert-butyl ether	<42.2	ug/kg	42.2	12.7	1	12/14/16 10:10	12/14/16 21:44	1634-04-4	
Naphthalene	<54.5	ug/kg	54.5	16.4	1	12/14/16 10:10	12/14/16 21:44	91-20-3	
n-Propylbenzene	<67.1	ug/kg	67.1	20.2	1	12/14/16 10:10	12/14/16 21:44	103-65-1	
Styrene	<58.5	ug/kg	58.5	17.6	1	12/14/16 10:10	12/14/16 21:44	100-42-5	
1,1,1,2-Tetrachloroethane	<26.8	ug/kg	26.8	26.8	1	12/14/16 10:10	12/14/16 21:44	630-20-6	
1,1,2,2-Tetrachloroethane	<15.0	ug/kg	15.0	15.0	1	12/14/16 10:10	12/14/16 21:44	79-34-5	
Tetrachloroethene	<86.0	ug/kg	86.0	25.8	1	12/14/16 10:10	12/14/16 21:44	127-18-4	
Tetrahydrofuran	<1120	ug/kg	1120	335	1	12/14/16 10:10	12/14/16 21:44	109-99-9	
Toluene	<71.6	ug/kg	71.6	21.5	1	12/14/16 10:10	12/14/16 21:44	108-88-3	
1,2,3-Trichlorobenzene	<19.5	ug/kg	19.5	19.5	1	12/14/16 10:10	12/14/16 21:44	87-61-6	
1,2,4-Trichlorobenzene	<20.8	ug/kg	20.8	20.8	1	12/14/16 10:10	12/14/16 21:44	120-82-1	
1,1,1-Trichloroethane	<28.3	ug/kg	28.3	28.3	1	12/14/16 10:10	12/14/16 21:44	71-55-6	
1,1,2-Trichloroethane	<14.6	ug/kg	14.6	14.6	1	12/14/16 10:10	12/14/16 21:44	79-00-5	
Trichloroethene	<64.4	ug/kg	64.4	19.3	1	12/14/16 10:10	12/14/16 21:44	79-01-6	
Trichlorofluoromethane	<226	ug/kg	226	67.9	1	12/14/16 10:10	12/14/16 21:44	75-69-4	
1,2,3-Trichloropropane	<70.1	ug/kg	70.1	70.1	1	12/14/16 10:10	12/14/16 21:44	96-18-4	
1,1,2-Trichlorotrifluoroethane	<162	ug/kg	162	48.7	1	12/14/16 10:10	12/14/16 21:44	76-13-1	
1,2,4-Trimethylbenzene	<14.9	ug/kg	14.9	14.9	1	12/14/16 10:10	12/14/16 21:44	95-63-6	
1,3,5-Trimethylbenzene	<51.8	ug/kg	51.8	15.6	1	12/14/16 10:10	12/14/16 21:44	108-67-8	
Vinyl chloride	<28.9	ug/kg	28.9	8.7	1	12/14/16 10:10	12/14/16 21:44	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP3\_0-4**      **Lab ID: 10373134019**      Collected: 12/12/16 13:00      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<180	ug/kg	180	54.1	1	12/14/16 10:10	12/14/16 21:44	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-129		1	12/14/16 10:10	12/14/16 21:44	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/14/16 10:10	12/14/16 21:44	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/14/16 10:10	12/14/16 21:44	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP4\_3-5**      **Lab ID: 10373134020**      Collected: 12/12/16 13:15      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	23.5	%	0.10	0.10	1		12/27/16 13:03		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	12.6	ug/kg	1.7	0.51	1	12/14/16 11:14	12/20/16 20:37	83-32-9	
Acenaphthylene	76.6	ug/kg	1.2	0.36	1	12/14/16 11:14	12/20/16 20:37	208-96-8	
Anthracene	73.7	ug/kg	2.0	0.59	1	12/14/16 11:14	12/20/16 20:37	120-12-7	
Benzo(a)anthracene	419	ug/kg	2.0	0.61	1	12/14/16 11:14	12/20/16 20:37	56-55-3	
Benzo(a)pyrene	403	ug/kg	1.5	0.45	1	12/14/16 11:14	12/20/16 20:37	50-32-8	
Benzo(b)fluoranthene	525	ug/kg	12.5	3.7	5	12/14/16 11:14	12/21/16 17:44	205-99-2	
Benzo(g,h,i)perylene	293	ug/kg	2.0	0.60	1	12/14/16 11:14	12/20/16 20:37	191-24-2	
Benzo(k)fluoranthene	269	ug/kg	2.1	0.64	1	12/14/16 11:14	12/20/16 20:37	207-08-9	
Chrysene	443	ug/kg	12.1	3.6	5	12/14/16 11:14	12/21/16 17:44	218-01-9	
Dibenz(a,h)anthracene	79.0	ug/kg	1.4	0.43	1	12/14/16 11:14	12/20/16 20:37	53-70-3	
Fluoranthene	781	ug/kg	17.0	5.1	5	12/14/16 11:14	12/21/16 17:44	206-44-0	
Fluorene	16.9	ug/kg	1.7	0.50	1	12/14/16 11:14	12/20/16 20:37	86-73-7	
Indeno(1,2,3-cd)pyrene	270	ug/kg	3.3	0.98	1	12/14/16 11:14	12/20/16 20:37	193-39-5	
Naphthalene	32.4	ug/kg	1.6	0.47	1	12/14/16 11:14	12/20/16 20:37	91-20-3	
Phenanthrene	244	ug/kg	1.8	0.53	1	12/14/16 11:14	12/20/16 20:37	85-01-8	
Pyrene	694	ug/kg	18.0	5.4	5	12/14/16 11:14	12/21/16 17:44	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	76	%	41-125		1	12/14/16 11:14	12/20/16 20:37	321-60-8	
p-Terphenyl-d14 (S)	86	%	39-125		1	12/14/16 11:14	12/20/16 20:37	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<2350	ug/kg	2350	707	1	12/14/16 10:10	12/14/16 22:01	67-64-1	
Allyl chloride	<308	ug/kg	308	92.4	1	12/14/16 10:10	12/14/16 22:01	107-05-1	
Benzene	939	ug/kg	31.0	9.3	1	12/14/16 10:10	12/14/16 22:01	71-43-2	
Bromobenzene	<91.8	ug/kg	91.8	27.6	1	12/14/16 10:10	12/14/16 22:01	108-86-1	
Bromochloromethane	<107	ug/kg	107	32.1	1	12/14/16 10:10	12/14/16 22:01	74-97-5	
Bromodichloromethane	<100	ug/kg	100	30.2	1	12/14/16 10:10	12/14/16 22:01	75-27-4	
Bromoform	<309	ug/kg	309	92.9	1	12/14/16 10:10	12/14/16 22:01	75-25-2	
Bromomethane	<364	ug/kg	364	109	1	12/14/16 10:10	12/14/16 22:01	74-83-9	
2-Butanone (MEK)	<474	ug/kg	474	142	1	12/14/16 10:10	12/14/16 22:01	78-93-3	
n-Butylbenzene	<86.8	ug/kg	86.8	26.1	1	12/14/16 10:10	12/14/16 22:01	104-51-8	
sec-Butylbenzene	<84.7	ug/kg	84.7	25.4	1	12/14/16 10:10	12/14/16 22:01	135-98-8	
tert-Butylbenzene	<113	ug/kg	113	34.0	1	12/14/16 10:10	12/14/16 22:01	98-06-6	
Carbon tetrachloride	<113	ug/kg	113	33.8	1	12/14/16 10:10	12/14/16 22:01	56-23-5	
Chlorobenzene	<62.4	ug/kg	62.4	18.7	1	12/14/16 10:10	12/14/16 22:01	108-90-7	
Chloroethane	<567	ug/kg	567	170	1	12/14/16 10:10	12/14/16 22:01	75-00-3	
Chloroform	<174	ug/kg	174	52.4	1	12/14/16 10:10	12/14/16 22:01	67-66-3	
Chloromethane	<174	ug/kg	174	52.1	1	12/14/16 10:10	12/14/16 22:01	74-87-3	
2-Chlorotoluene	<99.0	ug/kg	99.0	29.7	1	12/14/16 10:10	12/14/16 22:01	95-49-8	
4-Chlorotoluene	<94.0	ug/kg	94.0	28.2	1	12/14/16 10:10	12/14/16 22:01	106-43-4	
1,2-Dibromo-3-chloropropane	<210	ug/kg	210	210	1	12/14/16 10:10	12/14/16 22:01	96-12-8	
Dibromochloromethane	<308	ug/kg	308	92.4	1	12/14/16 10:10	12/14/16 22:01	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP4\_3-5** Lab ID: **10373134020** Collected: 12/12/16 13:15 Received: 12/13/16 17:25 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<40.5	ug/kg	40.5	40.5	1	12/14/16 10:10	12/14/16 22:01	106-93-4	
Dibromomethane	<140	ug/kg	140	42.0	1	12/14/16 10:10	12/14/16 22:01	74-95-3	
1,2-Dichlorobenzene	<20.8	ug/kg	20.8	20.8	1	12/14/16 10:10	12/14/16 22:01	95-50-1	
1,3-Dichlorobenzene	<31.7	ug/kg	31.7	31.7	1	12/14/16 10:10	12/14/16 22:01	541-73-1	
1,4-Dichlorobenzene	<104	ug/kg	104	31.2	1	12/14/16 10:10	12/14/16 22:01	106-46-7	
Dichlorodifluoromethane	<110	ug/kg	110	33.0	1	12/14/16 10:10	12/14/16 22:01	75-71-8	
1,1-Dichloroethane	<41.8	ug/kg	41.8	41.8	1	12/14/16 10:10	12/14/16 22:01	75-34-3	
1,2-Dichloroethane	<34.0	ug/kg	34.0	34.0	1	12/14/16 10:10	12/14/16 22:01	107-06-2	
1,1-Dichloroethene	<27.4	ug/kg	27.4	27.4	1	12/14/16 10:10	12/14/16 22:01	75-35-4	
cis-1,2-Dichloroethene	<133	ug/kg	133	40.1	1	12/14/16 10:10	12/14/16 22:01	156-59-2	
trans-1,2-Dichloroethene	<173	ug/kg	173	51.9	1	12/14/16 10:10	12/14/16 22:01	156-60-5	
Dichlorofluoromethane	<983	ug/kg	983	295	1	12/14/16 10:10	12/14/16 22:01	75-43-4	
1,2-Dichloropropane	<37.3	ug/kg	37.3	37.3	1	12/14/16 10:10	12/14/16 22:01	78-87-5	
1,3-Dichloropropane	<128	ug/kg	128	38.6	1	12/14/16 10:10	12/14/16 22:01	142-28-9	
2,2-Dichloropropane	<114	ug/kg	114	34.3	1	12/14/16 10:10	12/14/16 22:01	594-20-7	
1,1-Dichloropropene	<32.5	ug/kg	32.5	32.5	1	12/14/16 10:10	12/14/16 22:01	563-58-6	
cis-1,3-Dichloropropene	<164	ug/kg	164	49.1	1	12/14/16 10:10	12/14/16 22:01	10061-01-5	
trans-1,3-Dichloropropene	<122	ug/kg	122	36.6	1	12/14/16 10:10	12/14/16 22:01	10061-02-6	
Diethyl ether (Ethyl ether)	<148	ug/kg	148	44.4	1	12/14/16 10:10	12/14/16 22:01	60-29-7	
Ethylbenzene	<114	ug/kg	114	34.3	1	12/14/16 10:10	12/14/16 22:01	100-41-4	
Hexachloro-1,3-butadiene	<337	ug/kg	337	101	1	12/14/16 10:10	12/14/16 22:01	87-68-3	
Isopropylbenzene (Cumene)	<128	ug/kg	128	38.4	1	12/14/16 10:10	12/14/16 22:01	98-82-8	
p-Isopropyltoluene	<59.6	ug/kg	59.6	17.9	1	12/14/16 10:10	12/14/16 22:01	99-87-6	
Methylene Chloride	<664	ug/kg	664	200	1	12/14/16 10:10	12/14/16 22:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	<238	ug/kg	238	71.3	1	12/14/16 10:10	12/14/16 22:01	108-10-1	
Methyl-tert-butyl ether	<67.2	ug/kg	67.2	20.2	1	12/14/16 10:10	12/14/16 22:01	1634-04-4	
Naphthalene	<86.8	ug/kg	86.8	26.1	1	12/14/16 10:10	12/14/16 22:01	91-20-3	
n-Propylbenzene	<107	ug/kg	107	32.1	1	12/14/16 10:10	12/14/16 22:01	103-65-1	
Styrene	<93.3	ug/kg	93.3	28.0	1	12/14/16 10:10	12/14/16 22:01	100-42-5	
1,1,1,2-Tetrachloroethane	<42.7	ug/kg	42.7	42.7	1	12/14/16 10:10	12/14/16 22:01	630-20-6	
1,1,2,2-Tetrachloroethane	<23.9	ug/kg	23.9	23.9	1	12/14/16 10:10	12/14/16 22:01	79-34-5	
Tetrachloroethene	<137	ug/kg	137	41.2	1	12/14/16 10:10	12/14/16 22:01	127-18-4	
Tetrahydrofuran	<1780	ug/kg	1780	534	1	12/14/16 10:10	12/14/16 22:01	109-99-9	
Toluene	<114	ug/kg	114	34.3	1	12/14/16 10:10	12/14/16 22:01	108-88-3	
1,2,3-Trichlorobenzene	<31.0	ug/kg	31.0	31.0	1	12/14/16 10:10	12/14/16 22:01	87-61-6	
1,2,4-Trichlorobenzene	<33.2	ug/kg	33.2	33.2	1	12/14/16 10:10	12/14/16 22:01	120-82-1	
1,1,1-Trichloroethane	<45.0	ug/kg	45.0	45.0	1	12/14/16 10:10	12/14/16 22:01	71-55-6	
1,1,2-Trichloroethane	<23.3	ug/kg	23.3	23.3	1	12/14/16 10:10	12/14/16 22:01	79-00-5	
Trichloroethene	<103	ug/kg	103	30.8	1	12/14/16 10:10	12/14/16 22:01	79-01-6	
Trichlorofluoromethane	<360	ug/kg	360	108	1	12/14/16 10:10	12/14/16 22:01	75-69-4	
1,2,3-Trichloropropane	<112	ug/kg	112	112	1	12/14/16 10:10	12/14/16 22:01	96-18-4	
1,1,2-Trichlorotrifluoroethane	<258	ug/kg	258	77.6	1	12/14/16 10:10	12/14/16 22:01	76-13-1	
1,2,4-Trimethylbenzene	<23.7	ug/kg	23.7	23.7	1	12/14/16 10:10	12/14/16 22:01	95-63-6	
1,3,5-Trimethylbenzene	<82.5	ug/kg	82.5	24.8	1	12/14/16 10:10	12/14/16 22:01	108-67-8	
Vinyl chloride	<46.1	ug/kg	46.1	13.8	1	12/14/16 10:10	12/14/16 22:01	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP4\_3-5**      **Lab ID: 10373134020**      Collected: 12/12/16 13:15      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<287	ug/kg	287	86.2	1	12/14/16 10:10	12/14/16 22:01	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%	75-129		1	12/14/16 10:10	12/14/16 22:01	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/14/16 10:10	12/14/16 22:01	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/14/16 10:10	12/14/16 22:01	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP4\_5-7**      **Lab ID: 10373134021**      Collected: 12/12/16 13:20      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	24.6	%	0.10	0.10	1		12/27/16 13:03		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.52	1	12/16/16 14:50	12/21/16 23:32	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.36	1	12/16/16 14:50	12/21/16 23:32	208-96-8	
Anthracene	<2.0	ug/kg	2.0	0.60	1	12/16/16 14:50	12/21/16 23:32	120-12-7	
Benzo(a)anthracene	<2.1	ug/kg	2.1	0.62	1	12/16/16 14:50	12/21/16 23:32	56-55-3	
Benzo(a)pyrene	<1.5	ug/kg	1.5	0.46	1	12/16/16 14:50	12/21/16 23:32	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	2.5	0.76	1	12/16/16 14:50	12/21/16 23:32	205-99-2	
Benzo(g,h,i)perylene	<2.0	ug/kg	2.0	0.61	1	12/16/16 14:50	12/21/16 23:32	191-24-2	
Benzo(k)fluoranthene	<2.2	ug/kg	2.2	0.65	1	12/16/16 14:50	12/21/16 23:32	207-08-9	
Chrysene	<2.5	ug/kg	2.5	0.74	1	12/16/16 14:50	12/21/16 23:32	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.43	1	12/16/16 14:50	12/21/16 23:32	53-70-3	
Fluoranthene	<3.5	ug/kg	3.5	1.0	1	12/16/16 14:50	12/21/16 23:32	206-44-0	
Fluorene	<1.7	ug/kg	1.7	0.51	1	12/16/16 14:50	12/21/16 23:32	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.3	ug/kg	3.3	0.99	1	12/16/16 14:50	12/21/16 23:32	193-39-5	
Naphthalene	<1.6	ug/kg	1.6	0.47	1	12/16/16 14:50	12/21/16 23:32	91-20-3	
Phenanthrene	<1.8	ug/kg	1.8	0.53	1	12/16/16 14:50	12/21/16 23:32	85-01-8	
Pyrene	<3.7	ug/kg	3.7	1.1	1	12/16/16 14:50	12/21/16 23:32	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	71	%	41-125		1	12/16/16 14:50	12/21/16 23:32	321-60-8	
p-Terphenyl-d14 (S)	75	%	39-125		1	12/16/16 14:50	12/21/16 23:32	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1480	ug/kg	1480	445	1	12/14/16 10:10	12/14/16 22:18	67-64-1	
Allyl chloride	<194	ug/kg	194	58.2	1	12/14/16 10:10	12/14/16 22:18	107-05-1	
Benzene	622	ug/kg	19.5	5.9	1	12/14/16 10:10	12/14/16 22:18	71-43-2	
Bromobenzene	<57.8	ug/kg	57.8	17.4	1	12/14/16 10:10	12/14/16 22:18	108-86-1	
Bromochloromethane	<67.3	ug/kg	67.3	20.2	1	12/14/16 10:10	12/14/16 22:18	74-97-5	
Bromodichloromethane	<63.2	ug/kg	63.2	19.0	1	12/14/16 10:10	12/14/16 22:18	75-27-4	
Bromoform	<195	ug/kg	195	58.4	1	12/14/16 10:10	12/14/16 22:18	75-25-2	
Bromomethane	<229	ug/kg	229	68.7	1	12/14/16 10:10	12/14/16 22:18	74-83-9	
2-Butanone (MEK)	<298	ug/kg	298	89.5	1	12/14/16 10:10	12/14/16 22:18	78-93-3	
n-Butylbenzene	<54.6	ug/kg	54.6	16.4	1	12/14/16 10:10	12/14/16 22:18	104-51-8	
sec-Butylbenzene	<53.3	ug/kg	53.3	16.0	1	12/14/16 10:10	12/14/16 22:18	135-98-8	
tert-Butylbenzene	<71.3	ug/kg	71.3	21.4	1	12/14/16 10:10	12/14/16 22:18	98-06-6	
Carbon tetrachloride	<70.9	ug/kg	70.9	21.3	1	12/14/16 10:10	12/14/16 22:18	56-23-5	
Chlorobenzene	<39.3	ug/kg	39.3	11.8	1	12/14/16 10:10	12/14/16 22:18	108-90-7	
Chloroethane	<357	ug/kg	357	107	1	12/14/16 10:10	12/14/16 22:18	75-00-3	
Chloroform	<110	ug/kg	110	32.9	1	12/14/16 10:10	12/14/16 22:18	67-66-3	
Chloromethane	<109	ug/kg	109	32.8	1	12/14/16 10:10	12/14/16 22:18	74-87-3	
2-Chlorotoluene	<62.3	ug/kg	62.3	18.7	1	12/14/16 10:10	12/14/16 22:18	95-49-8	
4-Chlorotoluene	<59.1	ug/kg	59.1	17.8	1	12/14/16 10:10	12/14/16 22:18	106-43-4	
1,2-Dibromo-3-chloropropane	<132	ug/kg	132	132	1	12/14/16 10:10	12/14/16 22:18	96-12-8	
Dibromochloromethane	<194	ug/kg	194	58.2	1	12/14/16 10:10	12/14/16 22:18	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP4\_5-7** Lab ID: **10373134021** Collected: 12/12/16 13:20 Received: 12/13/16 17:25 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<25.5	ug/kg	25.5	25.5	1	12/14/16 10:10	12/14/16 22:18	106-93-4	
Dibromomethane	<88.0	ug/kg	88.0	26.4	1	12/14/16 10:10	12/14/16 22:18	74-95-3	
1,2-Dichlorobenzene	<13.1	ug/kg	13.1	13.1	1	12/14/16 10:10	12/14/16 22:18	95-50-1	
1,3-Dichlorobenzene	<19.9	ug/kg	19.9	19.9	1	12/14/16 10:10	12/14/16 22:18	541-73-1	
1,4-Dichlorobenzene	<65.5	ug/kg	65.5	19.7	1	12/14/16 10:10	12/14/16 22:18	106-46-7	
Dichlorodifluoromethane	<69.1	ug/kg	69.1	20.7	1	12/14/16 10:10	12/14/16 22:18	75-71-8	
1,1-Dichloroethane	<26.3	ug/kg	26.3	26.3	1	12/14/16 10:10	12/14/16 22:18	75-34-3	
1,2-Dichloroethane	<21.4	ug/kg	21.4	21.4	1	12/14/16 10:10	12/14/16 22:18	107-06-2	
1,1-Dichloroethene	<17.2	ug/kg	17.2	17.2	1	12/14/16 10:10	12/14/16 22:18	75-35-4	
cis-1,2-Dichloroethene	<84.0	ug/kg	84.0	25.2	1	12/14/16 10:10	12/14/16 22:18	156-59-2	
trans-1,2-Dichloroethene	<109	ug/kg	109	32.7	1	12/14/16 10:10	12/14/16 22:18	156-60-5	
Dichlorofluoromethane	<619	ug/kg	619	186	1	12/14/16 10:10	12/14/16 22:18	75-43-4	
1,2-Dichloropropane	<23.5	ug/kg	23.5	23.5	1	12/14/16 10:10	12/14/16 22:18	78-87-5	
1,3-Dichloropropane	<80.8	ug/kg	80.8	24.3	1	12/14/16 10:10	12/14/16 22:18	142-28-9	
2,2-Dichloropropane	<71.8	ug/kg	71.8	21.6	1	12/14/16 10:10	12/14/16 22:18	594-20-7	
1,1-Dichloropropene	<20.5	ug/kg	20.5	20.5	1	12/14/16 10:10	12/14/16 22:18	563-58-6	
cis-1,3-Dichloropropene	<103	ug/kg	103	30.9	1	12/14/16 10:10	12/14/16 22:18	10061-01-5	
trans-1,3-Dichloropropene	<76.7	ug/kg	76.7	23.0	1	12/14/16 10:10	12/14/16 22:18	10061-02-6	
Diethyl ether (Ethyl ether)	<93.0	ug/kg	93.0	27.9	1	12/14/16 10:10	12/14/16 22:18	60-29-7	
Ethylbenzene	<71.8	ug/kg	71.8	21.6	1	12/14/16 10:10	12/14/16 22:18	100-41-4	
Hexachloro-1,3-butadiene	<212	ug/kg	212	63.7	1	12/14/16 10:10	12/14/16 22:18	87-68-3	
Isopropylbenzene (Cumene)	<80.4	ug/kg	80.4	24.1	1	12/14/16 10:10	12/14/16 22:18	98-82-8	
p-Isopropyltoluene	<37.5	ug/kg	37.5	11.3	1	12/14/16 10:10	12/14/16 22:18	99-87-6	
Methylene Chloride	<418	ug/kg	418	126	1	12/14/16 10:10	12/14/16 22:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	<149	ug/kg	149	44.9	1	12/14/16 10:10	12/14/16 22:18	108-10-1	
Methyl-tert-butyl ether	<42.3	ug/kg	42.3	12.7	1	12/14/16 10:10	12/14/16 22:18	1634-04-4	
Naphthalene	<54.6	ug/kg	54.6	16.4	1	12/14/16 10:10	12/14/16 22:18	91-20-3	
n-Propylbenzene	<67.3	ug/kg	67.3	20.2	1	12/14/16 10:10	12/14/16 22:18	103-65-1	
Styrene	<58.7	ug/kg	58.7	17.6	1	12/14/16 10:10	12/14/16 22:18	100-42-5	
1,1,1,2-Tetrachloroethane	<26.8	ug/kg	26.8	26.8	1	12/14/16 10:10	12/14/16 22:18	630-20-6	
1,1,1,2,2-Tetrachloroethane	<15.0	ug/kg	15.0	15.0	1	12/14/16 10:10	12/14/16 22:18	79-34-5	
Tetrachloroethene	<86.2	ug/kg	86.2	25.9	1	12/14/16 10:10	12/14/16 22:18	127-18-4	
Tetrahydrofuran	<1120	ug/kg	1120	336	1	12/14/16 10:10	12/14/16 22:18	109-99-9	
Toluene	<71.8	ug/kg	71.8	21.6	1	12/14/16 10:10	12/14/16 22:18	108-88-3	
1,2,3-Trichlorobenzene	<19.5	ug/kg	19.5	19.5	1	12/14/16 10:10	12/14/16 22:18	87-61-6	
1,2,4-Trichlorobenzene	<20.9	ug/kg	20.9	20.9	1	12/14/16 10:10	12/14/16 22:18	120-82-1	
1,1,1-Trichloroethane	<28.3	ug/kg	28.3	28.3	1	12/14/16 10:10	12/14/16 22:18	71-55-6	
1,1,2-Trichloroethane	<14.6	ug/kg	14.6	14.6	1	12/14/16 10:10	12/14/16 22:18	79-00-5	
Trichloroethene	<64.6	ug/kg	64.6	19.4	1	12/14/16 10:10	12/14/16 22:18	79-01-6	
Trichlorofluoromethane	<227	ug/kg	227	68.1	1	12/14/16 10:10	12/14/16 22:18	75-69-4	
1,2,3-Trichloropropane	<70.2	ug/kg	70.2	70.2	1	12/14/16 10:10	12/14/16 22:18	96-18-4	
1,1,2-Trichlorotrifluoroethane	<163	ug/kg	163	48.8	1	12/14/16 10:10	12/14/16 22:18	76-13-1	
1,2,4-Trimethylbenzene	<14.9	ug/kg	14.9	14.9	1	12/14/16 10:10	12/14/16 22:18	95-63-6	
1,3,5-Trimethylbenzene	<51.9	ug/kg	51.9	15.6	1	12/14/16 10:10	12/14/16 22:18	108-67-8	
Vinyl chloride	<29.0	ug/kg	29.0	8.7	1	12/14/16 10:10	12/14/16 22:18	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP4\_5-7**      **Lab ID: 10373134021**      Collected: 12/12/16 13:20      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<181	ug/kg	181	54.2	1	12/14/16 10:10	12/14/16 22:18	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%	75-129		1	12/14/16 10:10	12/14/16 22:18	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/14/16 10:10	12/14/16 22:18	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/14/16 10:10	12/14/16 22:18	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: GP4\_13-15 Lab ID: 10373134022 Collected: 12/12/16 13:25 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	27.2	%	0.10	0.10	1		12/27/16 13:03		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.8	ug/kg	1.8	0.54	1	12/16/16 14:50	12/21/16 23:53	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.37	1	12/16/16 14:50	12/21/16 23:53	208-96-8	
Anthracene	<2.1	ug/kg	2.1	0.62	1	12/16/16 14:50	12/21/16 23:53	120-12-7	
Benzo(a)anthracene	<2.1	ug/kg	2.1	0.64	1	12/16/16 14:50	12/21/16 23:53	56-55-3	
Benzo(a)pyrene	<1.6	ug/kg	1.6	0.48	1	12/16/16 14:50	12/21/16 23:53	50-32-8	
Benzo(b)fluoranthene	<2.6	ug/kg	2.6	0.79	1	12/16/16 14:50	12/21/16 23:53	205-99-2	
Benzo(g,h,i)perylene	<2.1	ug/kg	2.1	0.63	1	12/16/16 14:50	12/21/16 23:53	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	2.3	0.68	1	12/16/16 14:50	12/21/16 23:53	207-08-9	
Chrysene	<2.5	ug/kg	2.5	0.76	1	12/16/16 14:50	12/21/16 23:53	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.45	1	12/16/16 14:50	12/21/16 23:53	53-70-3	
Fluoranthene	<3.6	ug/kg	3.6	1.1	1	12/16/16 14:50	12/21/16 23:53	206-44-0	
Fluorene	<1.8	ug/kg	1.8	0.53	1	12/16/16 14:50	12/21/16 23:53	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.4	ug/kg	3.4	1.0	1	12/16/16 14:50	12/21/16 23:53	193-39-5	
Naphthalene	<1.6	ug/kg	1.6	0.49	1	12/16/16 14:50	12/21/16 23:53	91-20-3	
Phenanthrene	<1.8	ug/kg	1.8	0.55	1	12/16/16 14:50	12/21/16 23:53	85-01-8	
Pyrene	<3.8	ug/kg	3.8	1.1	1	12/16/16 14:50	12/21/16 23:53	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	74	%	41-125		1	12/16/16 14:50	12/21/16 23:53	321-60-8	
p-Terphenyl-d14 (S)	81	%	39-125		1	12/16/16 14:50	12/21/16 23:53	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1490	ug/kg	1490	447	1	12/14/16 10:10	12/14/16 22:36	67-64-1	
Allyl chloride	<195	ug/kg	195	58.4	1	12/14/16 10:10	12/14/16 22:36	107-05-1	
Benzene	7410	ug/kg	19.6	5.9	1	12/14/16 10:10	12/14/16 22:36	71-43-2	
Bromobenzene	<58.1	ug/kg	58.1	17.4	1	12/14/16 10:10	12/14/16 22:36	108-86-1	
Bromochloromethane	<67.6	ug/kg	67.6	20.3	1	12/14/16 10:10	12/14/16 22:36	74-97-5	
Bromodichloromethane	<63.5	ug/kg	63.5	19.1	1	12/14/16 10:10	12/14/16 22:36	75-27-4	
Bromoform	<195	ug/kg	195	58.7	1	12/14/16 10:10	12/14/16 22:36	75-25-2	
Bromomethane	<230	ug/kg	230	69.1	1	12/14/16 10:10	12/14/16 22:36	74-83-9	
2-Butanone (MEK)	<299	ug/kg	299	89.9	1	12/14/16 10:10	12/14/16 22:36	78-93-3	
n-Butylbenzene	<54.9	ug/kg	54.9	16.5	1	12/14/16 10:10	12/14/16 22:36	104-51-8	
sec-Butylbenzene	<53.5	ug/kg	53.5	16.1	1	12/14/16 10:10	12/14/16 22:36	135-98-8	
tert-Butylbenzene	<71.7	ug/kg	71.7	21.5	1	12/14/16 10:10	12/14/16 22:36	98-06-6	
Carbon tetrachloride	<71.2	ug/kg	71.2	21.4	1	12/14/16 10:10	12/14/16 22:36	56-23-5	
Chlorobenzene	<39.5	ug/kg	39.5	11.9	1	12/14/16 10:10	12/14/16 22:36	108-90-7	
Chloroethane	<358	ug/kg	358	108	1	12/14/16 10:10	12/14/16 22:36	75-00-3	
Chloroform	<110	ug/kg	110	33.1	1	12/14/16 10:10	12/14/16 22:36	67-66-3	
Chloromethane	<110	ug/kg	110	33.0	1	12/14/16 10:10	12/14/16 22:36	74-87-3	
2-Chlorotoluene	<62.6	ug/kg	62.6	18.8	1	12/14/16 10:10	12/14/16 22:36	95-49-8	
4-Chlorotoluene	<59.4	ug/kg	59.4	17.8	1	12/14/16 10:10	12/14/16 22:36	106-43-4	
1,2-Dibromo-3-chloropropane	<133	ug/kg	133	133	1	12/14/16 10:10	12/14/16 22:36	96-12-8	
Dibromochloromethane	<195	ug/kg	195	58.4	1	12/14/16 10:10	12/14/16 22:36	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP4\_13-15** Lab ID: **10373134022** Collected: 12/12/16 13:25 Received: 12/13/16 17:25 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<25.6	ug/kg	25.6	25.6	1	12/14/16 10:10	12/14/16 22:36	106-93-4	
Dibromomethane	<88.4	ug/kg	88.4	26.6	1	12/14/16 10:10	12/14/16 22:36	74-95-3	
1,2-Dichlorobenzene	<13.2	ug/kg	13.2	13.2	1	12/14/16 10:10	12/14/16 22:36	95-50-1	
1,3-Dichlorobenzene	<20.0	ug/kg	20.0	20.0	1	12/14/16 10:10	12/14/16 22:36	541-73-1	
1,4-Dichlorobenzene	<65.8	ug/kg	65.8	19.8	1	12/14/16 10:10	12/14/16 22:36	106-46-7	
Dichlorodifluoromethane	<69.4	ug/kg	69.4	20.8	1	12/14/16 10:10	12/14/16 22:36	75-71-8	
1,1-Dichloroethane	<26.4	ug/kg	26.4	26.4	1	12/14/16 10:10	12/14/16 22:36	75-34-3	
1,2-Dichloroethane	<21.5	ug/kg	21.5	21.5	1	12/14/16 10:10	12/14/16 22:36	107-06-2	
1,1-Dichloroethene	<17.3	ug/kg	17.3	17.3	1	12/14/16 10:10	12/14/16 22:36	75-35-4	
cis-1,2-Dichloroethene	<84.4	ug/kg	84.4	25.3	1	12/14/16 10:10	12/14/16 22:36	156-59-2	
trans-1,2-Dichloroethene	<109	ug/kg	109	32.8	1	12/14/16 10:10	12/14/16 22:36	156-60-5	
Dichlorofluoromethane	<621	ug/kg	621	187	1	12/14/16 10:10	12/14/16 22:36	75-43-4	
1,2-Dichloropropane	<23.6	ug/kg	23.6	23.6	1	12/14/16 10:10	12/14/16 22:36	78-87-5	
1,3-Dichloropropane	<81.2	ug/kg	81.2	24.4	1	12/14/16 10:10	12/14/16 22:36	142-28-9	
2,2-Dichloropropane	<72.1	ug/kg	72.1	21.7	1	12/14/16 10:10	12/14/16 22:36	594-20-7	
1,1-Dichloropropene	<20.6	ug/kg	20.6	20.6	1	12/14/16 10:10	12/14/16 22:36	563-58-6	
cis-1,3-Dichloropropene	<103	ug/kg	103	31.1	1	12/14/16 10:10	12/14/16 22:36	10061-01-5	
trans-1,3-Dichloropropene	<77.1	ug/kg	77.1	23.2	1	12/14/16 10:10	12/14/16 22:36	10061-02-6	
Diethyl ether (Ethyl ether)	<93.4	ug/kg	93.4	28.1	1	12/14/16 10:10	12/14/16 22:36	60-29-7	
Ethylbenzene	<72.1	ug/kg	72.1	21.7	1	12/14/16 10:10	12/14/16 22:36	100-41-4	
Hexachloro-1,3-butadiene	<213	ug/kg	213	64.0	1	12/14/16 10:10	12/14/16 22:36	87-68-3	
Isopropylbenzene (Cumene)	<80.7	ug/kg	80.7	24.2	1	12/14/16 10:10	12/14/16 22:36	98-82-8	
p-Isopropyltoluene	<37.6	ug/kg	37.6	11.3	1	12/14/16 10:10	12/14/16 22:36	99-87-6	
Methylene Chloride	<420	ug/kg	420	126	1	12/14/16 10:10	12/14/16 22:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	<150	ug/kg	150	45.1	1	12/14/16 10:10	12/14/16 22:36	108-10-1	
Methyl-tert-butyl ether	<42.5	ug/kg	42.5	12.7	1	12/14/16 10:10	12/14/16 22:36	1634-04-4	
Naphthalene	<54.9	ug/kg	54.9	16.5	1	12/14/16 10:10	12/14/16 22:36	91-20-3	
n-Propylbenzene	<67.6	ug/kg	67.6	20.3	1	12/14/16 10:10	12/14/16 22:36	103-65-1	
Styrene	<59.0	ug/kg	59.0	17.7	1	12/14/16 10:10	12/14/16 22:36	100-42-5	
1,1,1,2-Tetrachloroethane	<27.0	ug/kg	27.0	27.0	1	12/14/16 10:10	12/14/16 22:36	630-20-6	
1,1,1,2,2-Tetrachloroethane	<15.1	ug/kg	15.1	15.1	1	12/14/16 10:10	12/14/16 22:36	79-34-5	
Tetrachloroethene	<86.6	ug/kg	86.6	26.0	1	12/14/16 10:10	12/14/16 22:36	127-18-4	
Tetrahydrofuran	<1120	ug/kg	1120	338	1	12/14/16 10:10	12/14/16 22:36	109-99-9	
Toluene	<72.1	ug/kg	72.1	21.7	1	12/14/16 10:10	12/14/16 22:36	108-88-3	
1,2,3-Trichlorobenzene	<19.6	ug/kg	19.6	19.6	1	12/14/16 10:10	12/14/16 22:36	87-61-6	
1,2,4-Trichlorobenzene	<21.0	ug/kg	21.0	21.0	1	12/14/16 10:10	12/14/16 22:36	120-82-1	
1,1,1-Trichloroethane	<28.5	ug/kg	28.5	28.5	1	12/14/16 10:10	12/14/16 22:36	71-55-6	
1,1,2-Trichloroethane	<14.7	ug/kg	14.7	14.7	1	12/14/16 10:10	12/14/16 22:36	79-00-5	
Trichloroethene	<64.9	ug/kg	64.9	19.5	1	12/14/16 10:10	12/14/16 22:36	79-01-6	
Trichlorofluoromethane	<228	ug/kg	228	68.4	1	12/14/16 10:10	12/14/16 22:36	75-69-4	
1,2,3-Trichloropropane	<70.6	ug/kg	70.6	70.6	1	12/14/16 10:10	12/14/16 22:36	96-18-4	
1,1,2-Trichlorotrifluoroethane	<163	ug/kg	163	49.0	1	12/14/16 10:10	12/14/16 22:36	76-13-1	
1,2,4-Trimethylbenzene	<15.0	ug/kg	15.0	15.0	1	12/14/16 10:10	12/14/16 22:36	95-63-6	
1,3,5-Trimethylbenzene	<52.2	ug/kg	52.2	15.7	1	12/14/16 10:10	12/14/16 22:36	108-67-8	
Vinyl chloride	<29.1	ug/kg	29.1	8.7	1	12/14/16 10:10	12/14/16 22:36	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP4\_13-15**      **Lab ID: 10373134022**      Collected: 12/12/16 13:25      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<181	ug/kg	181	54.5	1	12/14/16 10:10	12/14/16 22:36	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%	75-129		1	12/14/16 10:10	12/14/16 22:36	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/14/16 10:10	12/14/16 22:36	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	12/14/16 10:10	12/14/16 22:36	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP5\_4-5**      **Lab ID: 10373134023**      Collected: 12/12/16 14:00      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	27.7	%	0.10	0.10	1		12/27/16 13:55		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.8	ug/kg	1.8	0.54	1	12/16/16 14:50	12/22/16 00:15	83-32-9	
Acenaphthylene	<1.3	ug/kg	1.3	0.38	1	12/16/16 14:50	12/22/16 00:15	208-96-8	
Anthracene	<2.1	ug/kg	2.1	0.63	1	12/16/16 14:50	12/22/16 00:15	120-12-7	
Benzo(a)anthracene	9.3	ug/kg	2.2	0.65	1	12/16/16 14:50	12/22/16 00:15	56-55-3	
Benzo(a)pyrene	6.1	ug/kg	1.6	0.48	1	12/16/16 14:50	12/22/16 00:15	50-32-8	
Benzo(b)fluoranthene	14.4	ug/kg	2.6	0.79	1	12/16/16 14:50	12/22/16 00:15	205-99-2	
Benzo(g,h,i)perylene	7.0	ug/kg	2.1	0.63	1	12/16/16 14:50	12/22/16 00:15	191-24-2	
Benzo(k)fluoranthene	5.7	ug/kg	2.3	0.68	1	12/16/16 14:50	12/22/16 00:15	207-08-9	
Chrysene	12.4	ug/kg	2.6	0.77	1	12/16/16 14:50	12/22/16 00:15	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.45	1	12/16/16 14:50	12/22/16 00:15	53-70-3	
Fluoranthene	21.9	ug/kg	3.6	1.1	1	12/16/16 14:50	12/22/16 00:15	206-44-0	
Fluorene	<1.8	ug/kg	1.8	0.53	1	12/16/16 14:50	12/22/16 00:15	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.5	ug/kg	3.5	1.0	1	12/16/16 14:50	12/22/16 00:15	193-39-5	
Naphthalene	305	ug/kg	1.6	0.49	1	12/16/16 14:50	12/22/16 00:15	91-20-3	
Phenanthrene	9.7	ug/kg	1.9	0.56	1	12/16/16 14:50	12/22/16 00:15	85-01-8	
Pyrene	20.8	ug/kg	3.8	1.1	1	12/16/16 14:50	12/22/16 00:15	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	84	%	41-125		1	12/16/16 14:50	12/22/16 00:15	321-60-8	
p-Terphenyl-d14 (S)	76	%	39-125		1	12/16/16 14:50	12/22/16 00:15	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1600	ug/kg	1600	482	1	12/14/16 10:10	12/14/16 23:10	67-64-1	
Allyl chloride	<210	ug/kg	210	63.0	1	12/14/16 10:10	12/14/16 23:10	107-05-1	
Benzene	105000	ug/kg	211	63.5	10	12/14/16 10:10	12/15/16 13:12	71-43-2	
Bromobenzene	<62.6	ug/kg	62.6	18.8	1	12/14/16 10:10	12/14/16 23:10	108-86-1	
Bromochloromethane	<72.9	ug/kg	72.9	21.9	1	12/14/16 10:10	12/14/16 23:10	74-97-5	
Bromodichloromethane	<68.5	ug/kg	68.5	20.6	1	12/14/16 10:10	12/14/16 23:10	75-27-4	
Bromoform	<211	ug/kg	211	63.3	1	12/14/16 10:10	12/14/16 23:10	75-25-2	
Bromomethane	<248	ug/kg	248	74.5	1	12/14/16 10:10	12/14/16 23:10	74-83-9	
2-Butanone (MEK)	<323	ug/kg	323	97.0	1	12/14/16 10:10	12/14/16 23:10	78-93-3	
n-Butylbenzene	<59.2	ug/kg	59.2	17.8	1	12/14/16 10:10	12/14/16 23:10	104-51-8	
sec-Butylbenzene	<57.7	ug/kg	57.7	17.3	1	12/14/16 10:10	12/14/16 23:10	135-98-8	
tert-Butylbenzene	<77.3	ug/kg	77.3	23.2	1	12/14/16 10:10	12/14/16 23:10	98-06-6	
Carbon tetrachloride	<76.8	ug/kg	76.8	23.1	1	12/14/16 10:10	12/14/16 23:10	56-23-5	
Chlorobenzene	<42.6	ug/kg	42.6	12.8	1	12/14/16 10:10	12/14/16 23:10	108-90-7	
Chloroethane	<387	ug/kg	387	116	1	12/14/16 10:10	12/14/16 23:10	75-00-3	
Chloroform	<119	ug/kg	119	35.7	1	12/14/16 10:10	12/14/16 23:10	67-66-3	
Chloromethane	<118	ug/kg	118	35.6	1	12/14/16 10:10	12/14/16 23:10	74-87-3	
2-Chlorotoluene	<67.5	ug/kg	67.5	20.3	1	12/14/16 10:10	12/14/16 23:10	95-49-8	
4-Chlorotoluene	<64.1	ug/kg	64.1	19.2	1	12/14/16 10:10	12/14/16 23:10	106-43-4	
1,2-Dibromo-3-chloropropane	<143	ug/kg	143	143	1	12/14/16 10:10	12/14/16 23:10	96-12-8	
Dibromochloromethane	<210	ug/kg	210	63.0	1	12/14/16 10:10	12/14/16 23:10	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: GP5\_4-5 Lab ID: 10373134023 Collected: 12/12/16 14:00 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<27.6	ug/kg	27.6	27.6	1	12/14/16 10:10	12/14/16 23:10	106-93-4	
Dibromomethane	<95.4	ug/kg	95.4	28.7	1	12/14/16 10:10	12/14/16 23:10	74-95-3	
1,2-Dichlorobenzene	<14.2	ug/kg	14.2	14.2	1	12/14/16 10:10	12/14/16 23:10	95-50-1	
1,3-Dichlorobenzene	<21.6	ug/kg	21.6	21.6	1	12/14/16 10:10	12/14/16 23:10	541-73-1	
1,4-Dichlorobenzene	<70.9	ug/kg	70.9	21.3	1	12/14/16 10:10	12/14/16 23:10	106-46-7	
Dichlorodifluoromethane	<74.9	ug/kg	74.9	22.5	1	12/14/16 10:10	12/14/16 23:10	75-71-8	
1,1-Dichloroethane	<28.5	ug/kg	28.5	28.5	1	12/14/16 10:10	12/14/16 23:10	75-34-3	
1,2-Dichloroethane	<23.2	ug/kg	23.2	23.2	1	12/14/16 10:10	12/14/16 23:10	107-06-2	
1,1-Dichloroethene	<18.7	ug/kg	18.7	18.7	1	12/14/16 10:10	12/14/16 23:10	75-35-4	
cis-1,2-Dichloroethene	<91.0	ug/kg	91.0	27.3	1	12/14/16 10:10	12/14/16 23:10	156-59-2	
trans-1,2-Dichloroethene	<118	ug/kg	118	35.4	1	12/14/16 10:10	12/14/16 23:10	156-60-5	
Dichlorofluoromethane	<670	ug/kg	670	201	1	12/14/16 10:10	12/14/16 23:10	75-43-4	
1,2-Dichloropropane	<25.4	ug/kg	25.4	25.4	1	12/14/16 10:10	12/14/16 23:10	78-87-5	
1,3-Dichloropropane	<87.6	ug/kg	87.6	26.3	1	12/14/16 10:10	12/14/16 23:10	142-28-9	
2,2-Dichloropropane	<77.8	ug/kg	77.8	23.4	1	12/14/16 10:10	12/14/16 23:10	594-20-7	
1,1-Dichloropropene	<22.2	ug/kg	22.2	22.2	1	12/14/16 10:10	12/14/16 23:10	563-58-6	
cis-1,3-Dichloropropene	<112	ug/kg	112	33.5	1	12/14/16 10:10	12/14/16 23:10	10061-01-5	
trans-1,3-Dichloropropene	<83.2	ug/kg	83.2	25.0	1	12/14/16 10:10	12/14/16 23:10	10061-02-6	
Diethyl ether (Ethyl ether)	<101	ug/kg	101	30.3	1	12/14/16 10:10	12/14/16 23:10	60-29-7	
Ethylbenzene	4170	ug/kg	77.8	23.4	1	12/14/16 10:10	12/14/16 23:10	100-41-4	
Hexachloro-1,3-butadiene	<230	ug/kg	230	69.1	1	12/14/16 10:10	12/14/16 23:10	87-68-3	
Isopropylbenzene (Cumene)	<87.1	ug/kg	87.1	26.2	1	12/14/16 10:10	12/14/16 23:10	98-82-8	
p-Isopropyltoluene	<40.6	ug/kg	40.6	12.2	1	12/14/16 10:10	12/14/16 23:10	99-87-6	
Methylene Chloride	<453	ug/kg	453	136	1	12/14/16 10:10	12/14/16 23:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	<162	ug/kg	162	48.6	1	12/14/16 10:10	12/14/16 23:10	108-10-1	
Methyl-tert-butyl ether	<45.8	ug/kg	45.8	13.8	1	12/14/16 10:10	12/14/16 23:10	1634-04-4	
Naphthalene	838	ug/kg	59.2	17.8	1	12/14/16 10:10	12/14/16 23:10	91-20-3	
n-Propylbenzene	<72.9	ug/kg	72.9	21.9	1	12/14/16 10:10	12/14/16 23:10	103-65-1	
Styrene	<63.6	ug/kg	63.6	19.1	1	12/14/16 10:10	12/14/16 23:10	100-42-5	
1,1,1,2-Tetrachloroethane	<29.1	ug/kg	29.1	29.1	1	12/14/16 10:10	12/14/16 23:10	630-20-6	
1,1,2,2-Tetrachloroethane	<16.3	ug/kg	16.3	16.3	1	12/14/16 10:10	12/14/16 23:10	79-34-5	
Tetrachloroethene	<93.4	ug/kg	93.4	28.1	1	12/14/16 10:10	12/14/16 23:10	127-18-4	
Tetrahydrofuran	<1210	ug/kg	1210	364	1	12/14/16 10:10	12/14/16 23:10	109-99-9	
Toluene	30200	ug/kg	778	234	10	12/14/16 10:10	12/15/16 13:12	108-88-3	
1,2,3-Trichlorobenzene	<21.2	ug/kg	21.2	21.2	1	12/14/16 10:10	12/14/16 23:10	87-61-6	
1,2,4-Trichlorobenzene	<22.6	ug/kg	22.6	22.6	1	12/14/16 10:10	12/14/16 23:10	120-82-1	
1,1,1-Trichloroethane	<30.7	ug/kg	30.7	30.7	1	12/14/16 10:10	12/14/16 23:10	71-55-6	
1,1,2-Trichloroethane	<15.9	ug/kg	15.9	15.9	1	12/14/16 10:10	12/14/16 23:10	79-00-5	
Trichloroethene	<70.0	ug/kg	70.0	21.0	1	12/14/16 10:10	12/14/16 23:10	79-01-6	
Trichlorofluoromethane	<246	ug/kg	246	73.8	1	12/14/16 10:10	12/14/16 23:10	75-69-4	
1,2,3-Trichloropropane	<76.1	ug/kg	76.1	76.1	1	12/14/16 10:10	12/14/16 23:10	96-18-4	
1,1,2-Trichlorotrifluoroethane	<176	ug/kg	176	52.9	1	12/14/16 10:10	12/14/16 23:10	76-13-1	
1,2,4-Trimethylbenzene	1940	ug/kg	16.2	16.2	1	12/14/16 10:10	12/14/16 23:10	95-63-6	
1,3,5-Trimethylbenzene	2230	ug/kg	56.3	16.9	1	12/14/16 10:10	12/14/16 23:10	108-67-8	
Vinyl chloride	<31.4	ug/kg	31.4	9.4	1	12/14/16 10:10	12/14/16 23:10	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP5\_4-5**      **Lab ID: 10373134023**      Collected: 12/12/16 14:00      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>40100</b>	ug/kg	196	58.8	1	12/14/16 10:10	12/14/16 23:10	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-129		1	12/14/16 10:10	12/14/16 23:10	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/14/16 10:10	12/14/16 23:10	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/14/16 10:10	12/14/16 23:10	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: GP5\_5-7 Lab ID: 10373134024 Collected: 12/12/16 14:05 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	22.8	%	0.10	0.10	1		12/27/16 13:55		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.51	1	12/16/16 14:50	12/22/16 00:36	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.35	1	12/16/16 14:50	12/22/16 00:36	208-96-8	
Anthracene	<2.0	ug/kg	2.0	0.59	1	12/16/16 14:50	12/22/16 00:36	120-12-7	
Benzo(a)anthracene	<2.0	ug/kg	2.0	0.61	1	12/16/16 14:50	12/22/16 00:36	56-55-3	
Benzo(a)pyrene	<1.5	ug/kg	1.5	0.45	1	12/16/16 14:50	12/22/16 00:36	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	2.5	0.74	1	12/16/16 14:50	12/22/16 00:36	205-99-2	
Benzo(g,h,i)perylene	<2.0	ug/kg	2.0	0.59	1	12/16/16 14:50	12/22/16 00:36	191-24-2	
Benzo(k)fluoranthene	<2.1	ug/kg	2.1	0.64	1	12/16/16 14:50	12/22/16 00:36	207-08-9	
Chrysene	<2.4	ug/kg	2.4	0.72	1	12/16/16 14:50	12/22/16 00:36	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.42	1	12/16/16 14:50	12/22/16 00:36	53-70-3	
Fluoranthene	<3.4	ug/kg	3.4	1.0	1	12/16/16 14:50	12/22/16 00:36	206-44-0	
Fluorene	<1.7	ug/kg	1.7	0.50	1	12/16/16 14:50	12/22/16 00:36	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.2	ug/kg	3.2	0.97	1	12/16/16 14:50	12/22/16 00:36	193-39-5	
Naphthalene	20.8	ug/kg	1.5	0.46	1	12/16/16 14:50	12/22/16 00:36	91-20-3	
Phenanthrene	<1.7	ug/kg	1.7	0.52	1	12/16/16 14:50	12/22/16 00:36	85-01-8	
Pyrene	<3.6	ug/kg	3.6	1.1	1	12/16/16 14:50	12/22/16 00:36	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	80	%	41-125		1	12/16/16 14:50	12/22/16 00:36	321-60-8	
p-Terphenyl-d14 (S)	74	%	39-125		1	12/16/16 14:50	12/22/16 00:36	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1370	ug/kg	1370	412	1	12/15/16 12:36	12/16/16 04:38	67-64-1	
Allyl chloride	<179	ug/kg	179	53.9	1	12/15/16 12:36	12/16/16 04:38	107-05-1	
Benzene	536000	ug/kg	1810	542	100	12/15/16 12:36	12/19/16 18:43	71-43-2	
Bromobenzene	<53.5	ug/kg	53.5	16.1	1	12/15/16 12:36	12/16/16 04:38	108-86-1	
Bromochloromethane	<62.3	ug/kg	62.3	18.7	1	12/15/16 12:36	12/16/16 04:38	74-97-5	
Bromodichloromethane	<58.5	ug/kg	58.5	17.6	1	12/15/16 12:36	12/16/16 04:38	75-27-4	
Bromoform	<180	ug/kg	180	54.1	1	12/15/16 12:36	12/16/16 04:38	75-25-2	
Bromomethane	<212	ug/kg	212	63.6	1	12/15/16 12:36	12/16/16 04:38	74-83-9	
2-Butanone (MEK)	<276	ug/kg	276	82.8	1	12/15/16 12:36	12/16/16 04:38	78-93-3	
n-Butylbenzene	<50.6	ug/kg	50.6	15.2	1	12/15/16 12:36	12/16/16 04:38	104-51-8	
sec-Butylbenzene	<49.3	ug/kg	49.3	14.8	1	12/15/16 12:36	12/16/16 04:38	135-98-8	
tert-Butylbenzene	<66.0	ug/kg	66.0	19.8	1	12/15/16 12:36	12/16/16 04:38	98-06-6	
Carbon tetrachloride	<65.6	ug/kg	65.6	19.7	1	12/15/16 12:36	12/16/16 04:38	56-23-5	
Chlorobenzene	<36.4	ug/kg	36.4	10.9	1	12/15/16 12:36	12/16/16 04:38	108-90-7	
Chloroethane	<330	ug/kg	330	99.2	1	12/15/16 12:36	12/16/16 04:38	75-00-3	
Chloroform	<102	ug/kg	102	30.5	1	12/15/16 12:36	12/16/16 04:38	67-66-3	
Chloromethane	<101	ug/kg	101	30.4	1	12/15/16 12:36	12/16/16 04:38	74-87-3	
2-Chlorotoluene	<57.7	ug/kg	57.7	17.3	1	12/15/16 12:36	12/16/16 04:38	95-49-8	
4-Chlorotoluene	<54.8	ug/kg	54.8	16.4	1	12/15/16 12:36	12/16/16 04:38	106-43-4	
1,2-Dibromo-3-chloropropane	<122	ug/kg	122	122	1	12/15/16 12:36	12/16/16 04:38	96-12-8	
Dibromochloromethane	<179	ug/kg	179	53.9	1	12/15/16 12:36	12/16/16 04:38	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: GP5\_5-7 Lab ID: 10373134024 Collected: 12/12/16 14:05 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
1,2-Dibromoethane (EDB)	<23.6	ug/kg	23.6	23.6	1	12/15/16 12:36	12/16/16 04:38	106-93-4	
Dibromomethane	<81.5	ug/kg	81.5	24.5	1	12/15/16 12:36	12/16/16 04:38	74-95-3	
1,2-Dichlorobenzene	<12.1	ug/kg	12.1	12.1	1	12/15/16 12:36	12/16/16 04:38	95-50-1	
1,3-Dichlorobenzene	<18.5	ug/kg	18.5	18.5	1	12/15/16 12:36	12/16/16 04:38	541-73-1	
1,4-Dichlorobenzene	<60.6	ug/kg	60.6	18.2	1	12/15/16 12:36	12/16/16 04:38	106-46-7	
Dichlorodifluoromethane	<64.0	ug/kg	64.0	19.2	1	12/15/16 12:36	12/16/16 04:38	75-71-8	
1,1-Dichloroethane	<24.4	ug/kg	24.4	24.4	1	12/15/16 12:36	12/16/16 04:38	75-34-3	
1,2-Dichloroethane	<19.8	ug/kg	19.8	19.8	1	12/15/16 12:36	12/16/16 04:38	107-06-2	
1,1-Dichloroethene	<15.9	ug/kg	15.9	15.9	1	12/15/16 12:36	12/16/16 04:38	75-35-4	
cis-1,2-Dichloroethene	<77.7	ug/kg	77.7	23.3	1	12/15/16 12:36	12/16/16 04:38	156-59-2	
trans-1,2-Dichloroethene	<101	ug/kg	101	30.3	1	12/15/16 12:36	12/16/16 04:38	156-60-5	
Dichlorofluoromethane	<573	ug/kg	573	172	1	12/15/16 12:36	12/16/16 04:38	75-43-4	
1,2-Dichloropropane	<21.7	ug/kg	21.7	21.7	1	12/15/16 12:36	12/16/16 04:38	78-87-5	
1,3-Dichloropropane	<74.8	ug/kg	74.8	22.5	1	12/15/16 12:36	12/16/16 04:38	142-28-9	
2,2-Dichloropropane	<66.5	ug/kg	66.5	20.0	1	12/15/16 12:36	12/16/16 04:38	594-20-7	
1,1-Dichloropropene	<19.0	ug/kg	19.0	19.0	1	12/15/16 12:36	12/16/16 04:38	563-58-6	
cis-1,3-Dichloropropene	<95.3	ug/kg	95.3	28.6	1	12/15/16 12:36	12/16/16 04:38	10061-01-5	
trans-1,3-Dichloropropene	<71.1	ug/kg	71.1	21.3	1	12/15/16 12:36	12/16/16 04:38	10061-02-6	
Diethyl ether (Ethyl ether)	<86.1	ug/kg	86.1	25.9	1	12/15/16 12:36	12/16/16 04:38	60-29-7	
Ethylbenzene	1660	ug/kg	66.5	20.0	1	12/15/16 12:36	12/16/16 04:38	100-41-4	
Hexachloro-1,3-butadiene	<196	ug/kg	196	59.0	1	12/15/16 12:36	12/16/16 04:38	87-68-3	
Isopropylbenzene (Cumene)	<74.4	ug/kg	74.4	22.3	1	12/15/16 12:36	12/16/16 04:38	98-82-8	
p-Isopropyltoluene	<34.7	ug/kg	34.7	10.4	1	12/15/16 12:36	12/16/16 04:38	99-87-6	
Methylene Chloride	<387	ug/kg	387	116	1	12/15/16 12:36	12/16/16 04:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	<138	ug/kg	138	41.5	1	12/15/16 12:36	12/16/16 04:38	108-10-1	
Methyl-tert-butyl ether	<39.1	ug/kg	39.1	11.7	1	12/15/16 12:36	12/16/16 04:38	1634-04-4	
Naphthalene	98.8	ug/kg	50.6	15.2	1	12/15/16 12:36	12/16/16 04:38	91-20-3	B
n-Propylbenzene	<62.3	ug/kg	62.3	18.7	1	12/15/16 12:36	12/16/16 04:38	103-65-1	
Styrene	3620	ug/kg	54.3	16.3	1	12/15/16 12:36	12/16/16 04:38	100-42-5	
1,1,1,2-Tetrachloroethane	<24.9	ug/kg	24.9	24.9	1	12/15/16 12:36	12/16/16 04:38	630-20-6	
1,1,2,2-Tetrachloroethane	<13.9	ug/kg	13.9	13.9	1	12/15/16 12:36	12/16/16 04:38	79-34-5	
Tetrachloroethene	<79.8	ug/kg	79.8	24.0	1	12/15/16 12:36	12/16/16 04:38	127-18-4	
Tetrahydrofuran	<1040	ug/kg	1040	311	1	12/15/16 12:36	12/16/16 04:38	109-99-9	
Toluene	215000	ug/kg	1660	499	25	12/15/16 12:36	12/16/16 19:53	108-88-3	
1,2,3-Trichlorobenzene	<18.1	ug/kg	18.1	18.1	1	12/15/16 12:36	12/16/16 04:38	87-61-6	
1,2,4-Trichlorobenzene	<19.3	ug/kg	19.3	19.3	1	12/15/16 12:36	12/16/16 04:38	120-82-1	
1,1,1-Trichloroethane	<26.2	ug/kg	26.2	26.2	1	12/15/16 12:36	12/16/16 04:38	71-55-6	
1,1,2-Trichloroethane	<13.6	ug/kg	13.6	13.6	1	12/15/16 12:36	12/16/16 04:38	79-00-5	
Trichloroethene	<59.8	ug/kg	59.8	18.0	1	12/15/16 12:36	12/16/16 04:38	79-01-6	
Trichlorofluoromethane	<210	ug/kg	210	63.0	1	12/15/16 12:36	12/16/16 04:38	75-69-4	
1,2,3-Trichloropropane	<65.0	ug/kg	65.0	65.0	1	12/15/16 12:36	12/16/16 04:38	96-18-4	
1,1,2-Trichlorotrifluoroethane	<150	ug/kg	150	45.2	1	12/15/16 12:36	12/16/16 04:38	76-13-1	
1,2,4-Trimethylbenzene	433	ug/kg	13.8	13.8	1	12/15/16 12:36	12/16/16 04:38	95-63-6	
1,3,5-Trimethylbenzene	348	ug/kg	48.1	14.4	1	12/15/16 12:36	12/16/16 04:38	108-67-8	
Vinyl chloride	<26.8	ug/kg	26.8	8.1	1	12/15/16 12:36	12/16/16 04:38	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP5\_5-7**      **Lab ID: 10373134024**      Collected: 12/12/16 14:05      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>32300</b>	ug/kg	167	50.2	1	12/15/16 12:36	12/16/16 04:38	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-129		1	12/15/16 12:36	12/16/16 04:38	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/15/16 12:36	12/16/16 04:38	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/15/16 12:36	12/16/16 04:38	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP4\_10-12** Lab ID: **10373134025** Collected: 12/12/16 16:10 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>28.5</b>	%	0.10	0.10	1		12/27/16 13:56		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	< <b>1.8</b>	ug/kg	1.8	0.55	1	12/16/16 14:50	12/22/16 00:58	83-32-9	
Acenaphthylene	< <b>1.3</b>	ug/kg	1.3	0.38	1	12/16/16 14:50	12/22/16 00:58	208-96-8	
Anthracene	< <b>2.1</b>	ug/kg	2.1	0.64	1	12/16/16 14:50	12/22/16 00:58	120-12-7	
Benzo(a)anthracene	< <b>2.2</b>	ug/kg	2.2	0.66	1	12/16/16 14:50	12/22/16 00:58	56-55-3	
Benzo(a)pyrene	< <b>1.6</b>	ug/kg	1.6	0.49	1	12/16/16 14:50	12/22/16 00:58	50-32-8	
Benzo(b)fluoranthene	< <b>2.7</b>	ug/kg	2.7	0.80	1	12/16/16 14:50	12/22/16 00:58	205-99-2	
Benzo(g,h,i)perylene	< <b>2.1</b>	ug/kg	2.1	0.64	1	12/16/16 14:50	12/22/16 00:58	191-24-2	
Benzo(k)fluoranthene	< <b>2.3</b>	ug/kg	2.3	0.69	1	12/16/16 14:50	12/22/16 00:58	207-08-9	
Chrysene	< <b>2.6</b>	ug/kg	2.6	0.78	1	12/16/16 14:50	12/22/16 00:58	218-01-9	
Dibenz(a,h)anthracene	< <b>1.5</b>	ug/kg	1.5	0.46	1	12/16/16 14:50	12/22/16 00:58	53-70-3	
Fluoranthene	< <b>3.7</b>	ug/kg	3.7	1.1	1	12/16/16 14:50	12/22/16 00:58	206-44-0	
Fluorene	< <b>1.8</b>	ug/kg	1.8	0.54	1	12/16/16 14:50	12/22/16 00:58	86-73-7	
Indeno(1,2,3-cd)pyrene	< <b>3.5</b>	ug/kg	3.5	1.0	1	12/16/16 14:50	12/22/16 00:58	193-39-5	
Naphthalene	< <b>1.7</b>	ug/kg	1.7	0.50	1	12/16/16 14:50	12/22/16 00:58	91-20-3	
Phenanthrene	< <b>1.9</b>	ug/kg	1.9	0.56	1	12/16/16 14:50	12/22/16 00:58	85-01-8	
Pyrene	< <b>3.9</b>	ug/kg	3.9	1.2	1	12/16/16 14:50	12/22/16 00:58	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	74	%	41-125		1	12/16/16 14:50	12/22/16 00:58	321-60-8	
p-Terphenyl-d14 (S)	80	%	39-125		1	12/16/16 14:50	12/22/16 00:58	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	< <b>1820</b>	ug/kg	1820	546	1	12/15/16 12:36	12/16/16 18:42	67-64-1	
Allyl chloride	< <b>238</b>	ug/kg	238	71.5	1	12/15/16 12:36	12/16/16 18:42	107-05-1	
Benzene	<b>10700</b>	ug/kg	24.0	7.2	1	12/15/16 12:36	12/16/16 18:42	71-43-2	
Bromobenzene	< <b>71.0</b>	ug/kg	71.0	21.3	1	12/15/16 12:36	12/16/16 18:42	108-86-1	
Bromochloromethane	< <b>82.7</b>	ug/kg	82.7	24.8	1	12/15/16 12:36	12/16/16 18:42	74-97-5	
Bromodichloromethane	< <b>77.7</b>	ug/kg	77.7	23.3	1	12/15/16 12:36	12/16/16 18:42	75-27-4	
Bromoform	< <b>239</b>	ug/kg	239	71.8	1	12/15/16 12:36	12/16/16 18:42	75-25-2	
Bromomethane	< <b>281</b>	ug/kg	281	84.5	1	12/15/16 12:36	12/16/16 18:42	74-83-9	
2-Butanone (MEK)	< <b>366</b>	ug/kg	366	110	1	12/15/16 12:36	12/16/16 18:42	78-93-3	
n-Butylbenzene	< <b>67.1</b>	ug/kg	67.1	20.2	1	12/15/16 12:36	12/16/16 18:42	104-51-8	
sec-Butylbenzene	< <b>65.5</b>	ug/kg	65.5	19.7	1	12/15/16 12:36	12/16/16 18:42	135-98-8	
tert-Butylbenzene	< <b>87.7</b>	ug/kg	87.7	26.3	1	12/15/16 12:36	12/16/16 18:42	98-06-6	
Carbon tetrachloride	< <b>87.1</b>	ug/kg	87.1	26.2	1	12/15/16 12:36	12/16/16 18:42	56-23-5	
Chlorobenzene	< <b>48.3</b>	ug/kg	48.3	14.5	1	12/15/16 12:36	12/16/16 18:42	108-90-7	
Chloroethane	< <b>438</b>	ug/kg	438	132	1	12/15/16 12:36	12/16/16 18:42	75-00-3	
Chloroform	< <b>135</b>	ug/kg	135	40.5	1	12/15/16 12:36	12/16/16 18:42	67-66-3	
Chloromethane	< <b>134</b>	ug/kg	134	40.3	1	12/15/16 12:36	12/16/16 18:42	74-87-3	
2-Chlorotoluene	< <b>76.6</b>	ug/kg	76.6	23.0	1	12/15/16 12:36	12/16/16 18:42	95-49-8	
4-Chlorotoluene	< <b>72.7</b>	ug/kg	72.7	21.8	1	12/15/16 12:36	12/16/16 18:42	106-43-4	
1,2-Dibromo-3-chloropropane	< <b>162</b>	ug/kg	162	162	1	12/15/16 12:36	12/16/16 18:42	96-12-8	
Dibromochloromethane	< <b>238</b>	ug/kg	238	71.5	1	12/15/16 12:36	12/16/16 18:42	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP4\_10-12** Lab ID: **10373134025** Collected: 12/12/16 16:10 Received: 12/13/16 17:25 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<31.3	ug/kg	31.3	31.3	1	12/15/16 12:36	12/16/16 18:42	106-93-4	
Dibromomethane	<108	ug/kg	108	32.5	1	12/15/16 12:36	12/16/16 18:42	74-95-3	
1,2-Dichlorobenzene	<16.1	ug/kg	16.1	16.1	1	12/15/16 12:36	12/16/16 18:42	95-50-1	
1,3-Dichlorobenzene	<24.5	ug/kg	24.5	24.5	1	12/15/16 12:36	12/16/16 18:42	541-73-1	
1,4-Dichlorobenzene	<80.4	ug/kg	80.4	24.2	1	12/15/16 12:36	12/16/16 18:42	106-46-7	
Dichlorodifluoromethane	<84.9	ug/kg	84.9	25.5	1	12/15/16 12:36	12/16/16 18:42	75-71-8	
1,1-Dichloroethane	<32.3	ug/kg	32.3	32.3	1	12/15/16 12:36	12/16/16 18:42	75-34-3	
1,2-Dichloroethane	<26.3	ug/kg	26.3	26.3	1	12/15/16 12:36	12/16/16 18:42	107-06-2	
1,1-Dichloroethene	<21.2	ug/kg	21.2	21.2	1	12/15/16 12:36	12/16/16 18:42	75-35-4	
cis-1,2-Dichloroethene	<103	ug/kg	103	31.0	1	12/15/16 12:36	12/16/16 18:42	156-59-2	
trans-1,2-Dichloroethene	<134	ug/kg	134	40.1	1	12/15/16 12:36	12/16/16 18:42	156-60-5	
Dichlorofluoromethane	<760	ug/kg	760	228	1	12/15/16 12:36	12/16/16 18:42	75-43-4	
1,2-Dichloropropane	<28.8	ug/kg	28.8	28.8	1	12/15/16 12:36	12/16/16 18:42	78-87-5	
1,3-Dichloropropane	<99.3	ug/kg	99.3	29.8	1	12/15/16 12:36	12/16/16 18:42	142-28-9	
2,2-Dichloropropane	<88.2	ug/kg	88.2	26.5	1	12/15/16 12:36	12/16/16 18:42	594-20-7	
1,1-Dichloropropene	<25.2	ug/kg	25.2	25.2	1	12/15/16 12:36	12/16/16 18:42	563-58-6	
cis-1,3-Dichloropropene	<126	ug/kg	126	38.0	1	12/15/16 12:36	12/16/16 18:42	10061-01-5	
trans-1,3-Dichloropropene	<94.3	ug/kg	94.3	28.3	1	12/15/16 12:36	12/16/16 18:42	10061-02-6	
Diethyl ether (Ethyl ether)	<114	ug/kg	114	34.3	1	12/15/16 12:36	12/16/16 18:42	60-29-7	
Ethylbenzene	<88.2	ug/kg	88.2	26.5	1	12/15/16 12:36	12/16/16 18:42	100-41-4	
Hexachloro-1,3-butadiene	<261	ug/kg	261	78.3	1	12/15/16 12:36	12/16/16 18:42	87-68-3	
Isopropylbenzene (Cumene)	<98.7	ug/kg	98.7	29.7	1	12/15/16 12:36	12/16/16 18:42	98-82-8	
p-Isopropyltoluene	<46.0	ug/kg	46.0	13.8	1	12/15/16 12:36	12/16/16 18:42	99-87-6	
Methylene Chloride	<514	ug/kg	514	154	1	12/15/16 12:36	12/16/16 18:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	<184	ug/kg	184	55.1	1	12/15/16 12:36	12/16/16 18:42	108-10-1	
Methyl-tert-butyl ether	<51.9	ug/kg	51.9	15.6	1	12/15/16 12:36	12/16/16 18:42	1634-04-4	
Naphthalene	<67.1	ug/kg	67.1	20.2	1	12/15/16 12:36	12/16/16 18:42	91-20-3	
n-Propylbenzene	<82.7	ug/kg	82.7	24.8	1	12/15/16 12:36	12/16/16 18:42	103-65-1	
Styrene	<72.1	ug/kg	72.1	21.7	1	12/15/16 12:36	12/16/16 18:42	100-42-5	
1,1,1,2-Tetrachloroethane	<33.0	ug/kg	33.0	33.0	1	12/15/16 12:36	12/16/16 18:42	630-20-6	
1,1,1,2,2-Tetrachloroethane	<18.5	ug/kg	18.5	18.5	1	12/15/16 12:36	12/16/16 18:42	79-34-5	
Tetrachloroethene	<106	ug/kg	106	31.8	1	12/15/16 12:36	12/16/16 18:42	127-18-4	
Tetrahydrofuran	<1380	ug/kg	1380	413	1	12/15/16 12:36	12/16/16 18:42	109-99-9	
Toluene	<88.2	ug/kg	88.2	26.5	1	12/15/16 12:36	12/16/16 18:42	108-88-3	
1,2,3-Trichlorobenzene	<24.0	ug/kg	24.0	24.0	1	12/15/16 12:36	12/16/16 18:42	87-61-6	
1,2,4-Trichlorobenzene	<25.7	ug/kg	25.7	25.7	1	12/15/16 12:36	12/16/16 18:42	120-82-1	
1,1,1-Trichloroethane	<34.8	ug/kg	34.8	34.8	1	12/15/16 12:36	12/16/16 18:42	71-55-6	
1,1,2-Trichloroethane	<18.0	ug/kg	18.0	18.0	1	12/15/16 12:36	12/16/16 18:42	79-00-5	
Trichloroethene	<79.3	ug/kg	79.3	23.8	1	12/15/16 12:36	12/16/16 18:42	79-01-6	
Trichlorofluoromethane	<278	ug/kg	278	83.6	1	12/15/16 12:36	12/16/16 18:42	75-69-4	
1,2,3-Trichloropropane	<86.3	ug/kg	86.3	86.3	1	12/15/16 12:36	12/16/16 18:42	96-18-4	
1,1,2-Trichlorotrifluoroethane	<200	ug/kg	200	60.0	1	12/15/16 12:36	12/16/16 18:42	76-13-1	
1,2,4-Trimethylbenzene	<18.3	ug/kg	18.3	18.3	1	12/15/16 12:36	12/16/16 18:42	95-63-6	
1,3,5-Trimethylbenzene	<63.8	ug/kg	63.8	19.2	1	12/15/16 12:36	12/16/16 18:42	108-67-8	
Vinyl chloride	<35.6	ug/kg	35.6	10.7	1	12/15/16 12:36	12/16/16 18:42	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP4\_10-12**      **Lab ID: 10373134025**      Collected: 12/12/16 16:10      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<222	ug/kg	222	66.6	1	12/15/16 12:36	12/16/16 18:42	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	107	%	75-129		1	12/15/16 12:36	12/16/16 18:42	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/15/16 12:36	12/16/16 18:42	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/15/16 12:36	12/16/16 18:42	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP4\_5-7D**      **Lab ID: 10373134026**      Collected: 12/12/16 15:20      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	24.2	%	0.10	0.10	1		12/27/16 13:56		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.52	1	12/16/16 14:50	12/22/16 01:20	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.36	1	12/16/16 14:50	12/22/16 01:20	208-96-8	
Anthracene	<2.0	ug/kg	2.0	0.60	1	12/16/16 14:50	12/22/16 01:20	120-12-7	
Benzo(a)anthracene	<2.1	ug/kg	2.1	0.62	1	12/16/16 14:50	12/22/16 01:20	56-55-3	
Benzo(a)pyrene	<1.5	ug/kg	1.5	0.46	1	12/16/16 14:50	12/22/16 01:20	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	2.5	0.76	1	12/16/16 14:50	12/22/16 01:20	205-99-2	
Benzo(g,h,i)perylene	<2.0	ug/kg	2.0	0.60	1	12/16/16 14:50	12/22/16 01:20	191-24-2	
Benzo(k)fluoranthene	<2.2	ug/kg	2.2	0.65	1	12/16/16 14:50	12/22/16 01:20	207-08-9	
Chrysene	<2.4	ug/kg	2.4	0.73	1	12/16/16 14:50	12/22/16 01:20	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.43	1	12/16/16 14:50	12/22/16 01:20	53-70-3	
Fluoranthene	<3.4	ug/kg	3.4	1.0	1	12/16/16 14:50	12/22/16 01:20	206-44-0	
Fluorene	<1.7	ug/kg	1.7	0.51	1	12/16/16 14:50	12/22/16 01:20	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.3	ug/kg	3.3	0.99	1	12/16/16 14:50	12/22/16 01:20	193-39-5	
Naphthalene	<1.6	ug/kg	1.6	0.47	1	12/16/16 14:50	12/22/16 01:20	91-20-3	
Phenanthrene	<1.8	ug/kg	1.8	0.53	1	12/16/16 14:50	12/22/16 01:20	85-01-8	
Pyrene	<3.6	ug/kg	3.6	1.1	1	12/16/16 14:50	12/22/16 01:20	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	73	%	41-125		1	12/16/16 14:50	12/22/16 01:20	321-60-8	
p-Terphenyl-d14 (S)	83	%	39-125		1	12/16/16 14:50	12/22/16 01:20	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1460	ug/kg	1460	439	1	12/15/16 12:36	12/21/16 00:06	67-64-1	
Allyl chloride	<191	ug/kg	191	57.4	1	12/15/16 12:36	12/21/16 00:06	107-05-1	
Benzene	465	ug/kg	19.2	5.8	1	12/15/16 12:36	12/21/16 00:06	71-43-2	
Bromobenzene	<57.0	ug/kg	57.0	17.1	1	12/15/16 12:36	12/21/16 00:06	108-86-1	
Bromochloromethane	<66.3	ug/kg	66.3	19.9	1	12/15/16 12:36	12/21/16 00:06	74-97-5	
Bromodichloromethane	<62.3	ug/kg	62.3	18.7	1	12/15/16 12:36	12/21/16 00:06	75-27-4	
Bromoform	<192	ug/kg	192	57.6	1	12/15/16 12:36	12/21/16 00:06	75-25-2	
Bromomethane	<226	ug/kg	226	67.8	1	12/15/16 12:36	12/21/16 00:06	74-83-9	
2-Butanone (MEK)	<294	ug/kg	294	88.2	1	12/15/16 12:36	12/21/16 00:06	78-93-3	
n-Butylbenzene	<53.9	ug/kg	53.9	16.2	1	12/15/16 12:36	12/21/16 00:06	104-51-8	
sec-Butylbenzene	<52.5	ug/kg	52.5	15.8	1	12/15/16 12:36	12/21/16 00:06	135-98-8	
tert-Butylbenzene	<70.3	ug/kg	70.3	21.1	1	12/15/16 12:36	12/21/16 00:06	98-06-6	
Carbon tetrachloride	<69.9	ug/kg	69.9	21.0	1	12/15/16 12:36	12/21/16 00:06	56-23-5	
Chlorobenzene	<38.7	ug/kg	38.7	11.6	1	12/15/16 12:36	12/21/16 00:06	108-90-7	
Chloroethane	<352	ug/kg	352	106	1	12/15/16 12:36	12/21/16 00:06	75-00-3	
Chloroform	<108	ug/kg	108	32.5	1	12/15/16 12:36	12/21/16 00:06	67-66-3	
Chloromethane	<108	ug/kg	108	32.4	1	12/15/16 12:36	12/21/16 00:06	74-87-3	
2-Chlorotoluene	<61.4	ug/kg	61.4	18.5	1	12/15/16 12:36	12/21/16 00:06	95-49-8	
4-Chlorotoluene	<58.3	ug/kg	58.3	17.5	1	12/15/16 12:36	12/21/16 00:06	106-43-4	
1,2-Dibromo-3-chloropropane	<130	ug/kg	130	130	1	12/15/16 12:36	12/21/16 00:06	96-12-8	
Dibromochloromethane	<191	ug/kg	191	57.4	1	12/15/16 12:36	12/21/16 00:06	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP4\_5-7D** Lab ID: **10373134026** Collected: 12/12/16 15:20 Received: 12/13/16 17:25 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<25.1	ug/kg	25.1	25.1	1	12/15/16 12:36	12/21/16 00:06	106-93-4	
Dibromomethane	<86.8	ug/kg	86.8	26.1	1	12/15/16 12:36	12/21/16 00:06	74-95-3	
1,2-Dichlorobenzene	<12.9	ug/kg	12.9	12.9	1	12/15/16 12:36	12/21/16 00:06	95-50-1	
1,3-Dichlorobenzene	<19.7	ug/kg	19.7	19.7	1	12/15/16 12:36	12/21/16 00:06	541-73-1	
1,4-Dichlorobenzene	<64.6	ug/kg	64.6	19.4	1	12/15/16 12:36	12/21/16 00:06	106-46-7	
Dichlorodifluoromethane	<68.1	ug/kg	68.1	20.5	1	12/15/16 12:36	12/21/16 00:06	75-71-8	
1,1-Dichloroethane	<25.9	ug/kg	25.9	25.9	1	12/15/16 12:36	12/21/16 00:06	75-34-3	
1,2-Dichloroethane	<21.1	ug/kg	21.1	21.1	1	12/15/16 12:36	12/21/16 00:06	107-06-2	
1,1-Dichloroethene	<17.0	ug/kg	17.0	17.0	1	12/15/16 12:36	12/21/16 00:06	75-35-4	
cis-1,2-Dichloroethene	<82.8	ug/kg	82.8	24.9	1	12/15/16 12:36	12/21/16 00:06	156-59-2	
trans-1,2-Dichloroethene	<107	ug/kg	107	32.2	1	12/15/16 12:36	12/21/16 00:06	156-60-5	
Dichlorofluoromethane	<610	ug/kg	610	183	1	12/15/16 12:36	12/21/16 00:06	75-43-4	
1,2-Dichloropropane	<23.1	ug/kg	23.1	23.1	1	12/15/16 12:36	12/21/16 00:06	78-87-5	
1,3-Dichloropropane	<79.7	ug/kg	79.7	23.9	1	12/15/16 12:36	12/21/16 00:06	142-28-9	
2,2-Dichloropropane	<70.8	ug/kg	70.8	21.3	1	12/15/16 12:36	12/21/16 00:06	594-20-7	
1,1-Dichloropropene	<20.2	ug/kg	20.2	20.2	1	12/15/16 12:36	12/21/16 00:06	563-58-6	
cis-1,3-Dichloropropene	<102	ug/kg	102	30.5	1	12/15/16 12:36	12/21/16 00:06	10061-01-5	
trans-1,3-Dichloropropene	<75.7	ug/kg	75.7	22.7	1	12/15/16 12:36	12/21/16 00:06	10061-02-6	
Diethyl ether (Ethyl ether)	<91.7	ug/kg	91.7	27.5	1	12/15/16 12:36	12/21/16 00:06	60-29-7	
Ethylbenzene	<70.8	ug/kg	70.8	21.3	1	12/15/16 12:36	12/21/16 00:06	100-41-4	
Hexachloro-1,3-butadiene	<209	ug/kg	209	62.8	1	12/15/16 12:36	12/21/16 00:06	87-68-3	
Isopropylbenzene (Cumene)	<79.3	ug/kg	79.3	23.8	1	12/15/16 12:36	12/21/16 00:06	98-82-8	
p-Isopropyltoluene	<37.0	ug/kg	37.0	11.1	1	12/15/16 12:36	12/21/16 00:06	99-87-6	
Methylene Chloride	<412	ug/kg	412	124	1	12/15/16 12:36	12/21/16 00:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	<147	ug/kg	147	44.3	1	12/15/16 12:36	12/21/16 00:06	108-10-1	
Methyl-tert-butyl ether	<41.7	ug/kg	41.7	12.5	1	12/15/16 12:36	12/21/16 00:06	1634-04-4	
Naphthalene	<53.9	ug/kg	53.9	16.2	1	12/15/16 12:36	12/21/16 00:06	91-20-3	
n-Propylbenzene	<66.3	ug/kg	66.3	19.9	1	12/15/16 12:36	12/21/16 00:06	103-65-1	
Styrene	<57.9	ug/kg	57.9	17.4	1	12/15/16 12:36	12/21/16 00:06	100-42-5	
1,1,1,2-Tetrachloroethane	<26.5	ug/kg	26.5	26.5	1	12/15/16 12:36	12/21/16 00:06	630-20-6	
1,1,2,2-Tetrachloroethane	<14.8	ug/kg	14.8	14.8	1	12/15/16 12:36	12/21/16 00:06	79-34-5	
Tetrachloroethene	<85.0	ug/kg	85.0	25.5	1	12/15/16 12:36	12/21/16 00:06	127-18-4	
Tetrahydrofuran	<1100	ug/kg	1100	332	1	12/15/16 12:36	12/21/16 00:06	109-99-9	
Toluene	<70.8	ug/kg	70.8	21.3	1	12/15/16 12:36	12/21/16 00:06	108-88-3	
1,2,3-Trichlorobenzene	<19.3	ug/kg	19.3	19.3	1	12/15/16 12:36	12/21/16 00:06	87-61-6	
1,2,4-Trichlorobenzene	<20.6	ug/kg	20.6	20.6	1	12/15/16 12:36	12/21/16 00:06	120-82-1	
1,1,1-Trichloroethane	<27.9	ug/kg	27.9	27.9	1	12/15/16 12:36	12/21/16 00:06	71-55-6	
1,1,2-Trichloroethane	<14.4	ug/kg	14.4	14.4	1	12/15/16 12:36	12/21/16 00:06	79-00-5	
Trichloroethene	<63.7	ug/kg	63.7	19.1	1	12/15/16 12:36	12/21/16 00:06	79-01-6	
Trichlorofluoromethane	<224	ug/kg	224	67.1	1	12/15/16 12:36	12/21/16 00:06	75-69-4	
1,2,3-Trichloropropane	<69.3	ug/kg	69.3	69.3	1	12/15/16 12:36	12/21/16 00:06	96-18-4	
1,1,2-Trichlorotrifluoroethane	<160	ug/kg	160	48.1	1	12/15/16 12:36	12/21/16 00:06	76-13-1	
1,2,4-Trimethylbenzene	<14.7	ug/kg	14.7	14.7	1	12/15/16 12:36	12/21/16 00:06	95-63-6	
1,3,5-Trimethylbenzene	<51.2	ug/kg	51.2	15.4	1	12/15/16 12:36	12/21/16 00:06	108-67-8	
Vinyl chloride	<28.6	ug/kg	28.6	8.6	1	12/15/16 12:36	12/21/16 00:06	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP4\_5-7D**      **Lab ID: 10373134026**      Collected: 12/12/16 15:20      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<178	ug/kg	178	53.5	1	12/15/16 12:36	12/21/16 00:06	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	107	%	75-129		1	12/15/16 12:36	12/21/16 00:06	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/15/16 12:36	12/21/16 00:06	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/15/16 12:36	12/21/16 00:06	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP5\_5-7D** Lab ID: **10373134027** Collected: 12/12/16 14:05 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>23.2</b>	%	0.10	0.10	1		12/27/16 13:56		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.51	1	12/16/16 14:50	12/22/16 01:41	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.35	1	12/16/16 14:50	12/22/16 01:41	208-96-8	
Anthracene	<2.0	ug/kg	2.0	0.59	1	12/16/16 14:50	12/22/16 01:41	120-12-7	
Benzo(a)anthracene	<2.0	ug/kg	2.0	0.61	1	12/16/16 14:50	12/22/16 01:41	56-55-3	
Benzo(a)pyrene	<1.5	ug/kg	1.5	0.45	1	12/16/16 14:50	12/22/16 01:41	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	2.5	0.75	1	12/16/16 14:50	12/22/16 01:41	205-99-2	
Benzo(g,h,i)perylene	<2.0	ug/kg	2.0	0.60	1	12/16/16 14:50	12/22/16 01:41	191-24-2	
Benzo(k)fluoranthene	<2.1	ug/kg	2.1	0.64	1	12/16/16 14:50	12/22/16 01:41	207-08-9	
Chrysene	<2.4	ug/kg	2.4	0.72	1	12/16/16 14:50	12/22/16 01:41	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.43	1	12/16/16 14:50	12/22/16 01:41	53-70-3	
Fluoranthene	<3.4	ug/kg	3.4	1.0	1	12/16/16 14:50	12/22/16 01:41	206-44-0	
Fluorene	<1.7	ug/kg	1.7	0.50	1	12/16/16 14:50	12/22/16 01:41	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.3	ug/kg	3.3	0.98	1	12/16/16 14:50	12/22/16 01:41	193-39-5	
Naphthalene	<b>15.4</b>	ug/kg	1.5	0.46	1	12/16/16 14:50	12/22/16 01:41	91-20-3	
Phenanthrene	<1.7	ug/kg	1.7	0.52	1	12/16/16 14:50	12/22/16 01:41	85-01-8	
Pyrene	<3.6	ug/kg	3.6	1.1	1	12/16/16 14:50	12/22/16 01:41	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	83	%	41-125		1	12/16/16 14:50	12/22/16 01:41	321-60-8	
p-Terphenyl-d14 (S)	81	%	39-125		1	12/16/16 14:50	12/22/16 01:41	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1420	ug/kg	1420	425	1	12/15/16 12:36	12/16/16 05:30	67-64-1	
Allyl chloride	<185	ug/kg	185	55.6	1	12/15/16 12:36	12/16/16 05:30	107-05-1	
Benzene	<b>672000</b>	ug/kg	1870	560	100	12/15/16 12:36	12/19/16 19:01	71-43-2	
Bromobenzene	<55.3	ug/kg	55.3	16.6	1	12/15/16 12:36	12/16/16 05:30	108-86-1	
Bromochloromethane	<64.4	ug/kg	64.4	19.3	1	12/15/16 12:36	12/16/16 05:30	74-97-5	
Bromodichloromethane	<60.5	ug/kg	60.5	18.2	1	12/15/16 12:36	12/16/16 05:30	75-27-4	
Bromoform	<186	ug/kg	186	55.9	1	12/15/16 12:36	12/16/16 05:30	75-25-2	
Bromomethane	<219	ug/kg	219	65.8	1	12/15/16 12:36	12/16/16 05:30	74-83-9	
2-Butanone (MEK)	<285	ug/kg	285	85.6	1	12/15/16 12:36	12/16/16 05:30	78-93-3	
n-Butylbenzene	<52.3	ug/kg	52.3	15.7	1	12/15/16 12:36	12/16/16 05:30	104-51-8	
sec-Butylbenzene	<51.0	ug/kg	51.0	15.3	1	12/15/16 12:36	12/16/16 05:30	135-98-8	
tert-Butylbenzene	<68.2	ug/kg	68.2	20.5	1	12/15/16 12:36	12/16/16 05:30	98-06-6	
Carbon tetrachloride	<67.8	ug/kg	67.8	20.4	1	12/15/16 12:36	12/16/16 05:30	56-23-5	
Chlorobenzene	<37.6	ug/kg	37.6	11.3	1	12/15/16 12:36	12/16/16 05:30	108-90-7	
Chloroethane	<341	ug/kg	341	102	1	12/15/16 12:36	12/16/16 05:30	75-00-3	
Chloroform	<105	ug/kg	105	31.5	1	12/15/16 12:36	12/16/16 05:30	67-66-3	
Chloromethane	<105	ug/kg	105	31.4	1	12/15/16 12:36	12/16/16 05:30	74-87-3	
2-Chlorotoluene	<59.6	ug/kg	59.6	17.9	1	12/15/16 12:36	12/16/16 05:30	95-49-8	
4-Chlorotoluene	<56.6	ug/kg	56.6	17.0	1	12/15/16 12:36	12/16/16 05:30	106-43-4	
1,2-Dibromo-3-chloropropane	<126	ug/kg	126	126	1	12/15/16 12:36	12/16/16 05:30	96-12-8	
Dibromochloromethane	<185	ug/kg	185	55.6	1	12/15/16 12:36	12/16/16 05:30	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **GP5\_5-7D** Lab ID: **10373134027** Collected: 12/12/16 14:05 Received: 12/13/16 17:25 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
1,2-Dibromoethane (EDB)	<24.4	ug/kg	24.4	24.4	1	12/15/16 12:36	12/16/16 05:30	106-93-4	
Dibromomethane	<84.2	ug/kg	84.2	25.3	1	12/15/16 12:36	12/16/16 05:30	74-95-3	
1,2-Dichlorobenzene	<12.5	ug/kg	12.5	12.5	1	12/15/16 12:36	12/16/16 05:30	95-50-1	
1,3-Dichlorobenzene	<19.1	ug/kg	19.1	19.1	1	12/15/16 12:36	12/16/16 05:30	541-73-1	
1,4-Dichlorobenzene	<62.6	ug/kg	62.6	18.8	1	12/15/16 12:36	12/16/16 05:30	106-46-7	
Dichlorodifluoromethane	<66.1	ug/kg	66.1	19.8	1	12/15/16 12:36	12/16/16 05:30	75-71-8	
1,1-Dichloroethane	<25.2	ug/kg	25.2	25.2	1	12/15/16 12:36	12/16/16 05:30	75-34-3	
1,2-Dichloroethane	<20.5	ug/kg	20.5	20.5	1	12/15/16 12:36	12/16/16 05:30	107-06-2	
1,1-Dichloroethene	<16.5	ug/kg	16.5	16.5	1	12/15/16 12:36	12/16/16 05:30	75-35-4	
cis-1,2-Dichloroethene	<80.3	ug/kg	80.3	24.1	1	12/15/16 12:36	12/16/16 05:30	156-59-2	
trans-1,2-Dichloroethene	<104	ug/kg	104	31.3	1	12/15/16 12:36	12/16/16 05:30	156-60-5	
Dichlorofluoromethane	<592	ug/kg	592	178	1	12/15/16 12:36	12/16/16 05:30	75-43-4	
1,2-Dichloropropane	<22.4	ug/kg	22.4	22.4	1	12/15/16 12:36	12/16/16 05:30	78-87-5	
1,3-Dichloropropane	<77.3	ug/kg	77.3	23.2	1	12/15/16 12:36	12/16/16 05:30	142-28-9	
2,2-Dichloropropane	<68.7	ug/kg	68.7	20.6	1	12/15/16 12:36	12/16/16 05:30	594-20-7	
1,1-Dichloropropene	<19.6	ug/kg	19.6	19.6	1	12/15/16 12:36	12/16/16 05:30	563-58-6	
cis-1,3-Dichloropropene	<98.5	ug/kg	98.5	29.6	1	12/15/16 12:36	12/16/16 05:30	10061-01-5	
trans-1,3-Dichloropropene	<73.4	ug/kg	73.4	22.1	1	12/15/16 12:36	12/16/16 05:30	10061-02-6	
Diethyl ether (Ethyl ether)	<89.0	ug/kg	89.0	26.7	1	12/15/16 12:36	12/16/16 05:30	60-29-7	
Ethylbenzene	2480	ug/kg	68.7	20.6	1	12/15/16 12:36	12/16/16 05:30	100-41-4	
Hexachloro-1,3-butadiene	<203	ug/kg	203	61.0	1	12/15/16 12:36	12/16/16 05:30	87-68-3	
Isopropylbenzene (Cumene)	<76.9	ug/kg	76.9	23.1	1	12/15/16 12:36	12/16/16 05:30	98-82-8	
p-Isopropyltoluene	<35.9	ug/kg	35.9	10.8	1	12/15/16 12:36	12/16/16 05:30	99-87-6	
Methylene Chloride	<400	ug/kg	400	120	1	12/15/16 12:36	12/16/16 05:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	<143	ug/kg	143	42.9	1	12/15/16 12:36	12/16/16 05:30	108-10-1	
Methyl-tert-butyl ether	<40.4	ug/kg	40.4	12.1	1	12/15/16 12:36	12/16/16 05:30	1634-04-4	
Naphthalene	137	ug/kg	52.3	15.7	1	12/15/16 12:36	12/16/16 05:30	91-20-3	B
n-Propylbenzene	<64.4	ug/kg	64.4	19.3	1	12/15/16 12:36	12/16/16 05:30	103-65-1	
Styrene	6060	ug/kg	56.2	16.9	1	12/15/16 12:36	12/16/16 05:30	100-42-5	
1,1,1,2-Tetrachloroethane	<25.7	ug/kg	25.7	25.7	1	12/15/16 12:36	12/16/16 05:30	630-20-6	
1,1,2,2-Tetrachloroethane	<14.4	ug/kg	14.4	14.4	1	12/15/16 12:36	12/16/16 05:30	79-34-5	
Tetrachloroethene	<82.5	ug/kg	82.5	24.8	1	12/15/16 12:36	12/16/16 05:30	127-18-4	
Tetrahydrofuran	<1070	ug/kg	1070	322	1	12/15/16 12:36	12/16/16 05:30	109-99-9	
Toluene	298000	ug/kg	1720	516	25	12/15/16 12:36	12/16/16 20:10	108-88-3	
1,2,3-Trichlorobenzene	<18.7	ug/kg	18.7	18.7	1	12/15/16 12:36	12/16/16 05:30	87-61-6	
1,2,4-Trichlorobenzene	<20.0	ug/kg	20.0	20.0	1	12/15/16 12:36	12/16/16 05:30	120-82-1	
1,1,1-Trichloroethane	<27.1	ug/kg	27.1	27.1	1	12/15/16 12:36	12/16/16 05:30	71-55-6	
1,1,2-Trichloroethane	<14.0	ug/kg	14.0	14.0	1	12/15/16 12:36	12/16/16 05:30	79-00-5	
Trichloroethene	<61.8	ug/kg	61.8	18.5	1	12/15/16 12:36	12/16/16 05:30	79-01-6	
Trichlorofluoromethane	<217	ug/kg	217	65.1	1	12/15/16 12:36	12/16/16 05:30	75-69-4	
1,2,3-Trichloropropane	<67.2	ug/kg	67.2	67.2	1	12/15/16 12:36	12/16/16 05:30	96-18-4	
1,1,2-Trichlorotrifluoroethane	<155	ug/kg	155	46.7	1	12/15/16 12:36	12/16/16 05:30	76-13-1	
1,2,4-Trimethylbenzene	569	ug/kg	14.3	14.3	1	12/15/16 12:36	12/16/16 05:30	95-63-6	
1,3,5-Trimethylbenzene	460	ug/kg	49.7	14.9	1	12/15/16 12:36	12/16/16 05:30	108-67-8	
Vinyl chloride	<27.7	ug/kg	27.7	8.3	1	12/15/16 12:36	12/16/16 05:30	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: GP5\_5-7D**      **Lab ID: 10373134027**      Collected: 12/12/16 14:05      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>51500</b>	ug/kg	4320	1300	25	12/15/16 12:36	12/16/16 20:10	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%	75-129		1	12/15/16 12:36	12/16/16 05:30	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/15/16 12:36	12/16/16 05:30	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/15/16 12:36	12/16/16 05:30	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **SB001\_1-4** Lab ID: **10373134028** Collected: 12/12/16 16:00 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	18.5	%	0.10	0.10	1		12/27/16 13:56		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.6	ug/kg	1.6	0.48	1	12/16/16 14:50	12/22/16 02:03	83-32-9	
Acenaphthylene	9.0	ug/kg	1.1	0.33	1	12/16/16 14:50	12/22/16 02:03	208-96-8	
Anthracene	44.5	ug/kg	1.9	0.56	1	12/16/16 14:50	12/22/16 02:03	120-12-7	
Benzo(a)anthracene	368	ug/kg	1.9	0.58	1	12/16/16 14:50	12/22/16 02:03	56-55-3	
Benzo(a)pyrene	300	ug/kg	1.4	0.43	1	12/16/16 14:50	12/22/16 02:03	50-32-8	
Benzo(b)fluoranthene	293	ug/kg	2.3	0.70	1	12/16/16 14:50	12/22/16 02:03	205-99-2	
Benzo(g,h,i)perylene	136	ug/kg	1.9	0.56	1	12/16/16 14:50	12/22/16 02:03	191-24-2	
Benzo(k)fluoranthene	129	ug/kg	2.0	0.60	1	12/16/16 14:50	12/22/16 02:03	207-08-9	
Chrysene	349	ug/kg	2.3	0.68	1	12/16/16 14:50	12/22/16 02:03	218-01-9	
Dibenz(a,h)anthracene	48.1	ug/kg	1.3	0.40	1	12/16/16 14:50	12/22/16 02:03	53-70-3	
Fluoranthene	439	ug/kg	16.0	4.8	5	12/16/16 14:50	12/22/16 16:41	206-44-0	
Fluorene	8.9	ug/kg	1.6	0.47	1	12/16/16 14:50	12/22/16 02:03	86-73-7	
Indeno(1,2,3-cd)pyrene	110	ug/kg	3.1	0.92	1	12/16/16 14:50	12/22/16 02:03	193-39-5	
Naphthalene	60.3	ug/kg	1.5	0.44	1	12/16/16 14:50	12/22/16 02:03	91-20-3	
Phenanthrene	205	ug/kg	1.6	0.49	1	12/16/16 14:50	12/22/16 02:03	85-01-8	
Pyrene	837	ug/kg	16.9	5.1	5	12/16/16 14:50	12/22/16 16:41	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	75	%	41-125		1	12/16/16 14:50	12/22/16 02:03	321-60-8	
p-Terphenyl-d14 (S)	83	%	39-125		1	12/16/16 14:50	12/22/16 02:03	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1280	ug/kg	1280	384	1	12/15/16 12:36	12/21/16 00:23	67-64-1	
Allyl chloride	<167	ug/kg	167	50.2	1	12/15/16 12:36	12/21/16 00:23	107-05-1	
Benzene	54.3	ug/kg	16.8	5.1	1	12/15/16 12:36	12/21/16 00:23	71-43-2	
Bromobenzene	<49.9	ug/kg	49.9	15.0	1	12/15/16 12:36	12/21/16 00:23	108-86-1	
Bromochloromethane	<58.1	ug/kg	58.1	17.4	1	12/15/16 12:36	12/21/16 00:23	74-97-5	
Bromodichloromethane	<54.6	ug/kg	54.6	16.4	1	12/15/16 12:36	12/21/16 00:23	75-27-4	
Bromoform	<168	ug/kg	168	50.5	1	12/15/16 12:36	12/21/16 00:23	75-25-2	
Bromomethane	<198	ug/kg	198	59.3	1	12/15/16 12:36	12/21/16 00:23	74-83-9	
2-Butanone (MEK)	<257	ug/kg	257	77.3	1	12/15/16 12:36	12/21/16 00:23	78-93-3	
n-Butylbenzene	<47.2	ug/kg	47.2	14.2	1	12/15/16 12:36	12/21/16 00:23	104-51-8	
sec-Butylbenzene	<46.0	ug/kg	46.0	13.8	1	12/15/16 12:36	12/21/16 00:23	135-98-8	
tert-Butylbenzene	<61.6	ug/kg	61.6	18.5	1	12/15/16 12:36	12/21/16 00:23	98-06-6	
Carbon tetrachloride	<61.2	ug/kg	61.2	18.4	1	12/15/16 12:36	12/21/16 00:23	56-23-5	
Chlorobenzene	<33.9	ug/kg	33.9	10.2	1	12/15/16 12:36	12/21/16 00:23	108-90-7	
Chloroethane	<308	ug/kg	308	92.5	1	12/15/16 12:36	12/21/16 00:23	75-00-3	
Chloroform	<94.7	ug/kg	94.7	28.4	1	12/15/16 12:36	12/21/16 00:23	67-66-3	
Chloromethane	<94.3	ug/kg	94.3	28.3	1	12/15/16 12:36	12/21/16 00:23	74-87-3	
2-Chlorotoluene	<53.8	ug/kg	53.8	16.2	1	12/15/16 12:36	12/21/16 00:23	95-49-8	
4-Chlorotoluene	<51.1	ug/kg	51.1	15.3	1	12/15/16 12:36	12/21/16 00:23	106-43-4	
1,2-Dibromo-3-chloropropane	<114	ug/kg	114	114	1	12/15/16 12:36	12/21/16 00:23	96-12-8	
Dibromochloromethane	<167	ug/kg	167	50.2	1	12/15/16 12:36	12/21/16 00:23	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **SB001\_1-4** Lab ID: **10373134028** Collected: 12/12/16 16:00 Received: 12/13/16 17:25 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<22.0	ug/kg	22.0	22.0	1	12/15/16 12:36	12/21/16 00:23	106-93-4	
Dibromomethane	<76.0	ug/kg	76.0	22.8	1	12/15/16 12:36	12/21/16 00:23	74-95-3	
1,2-Dichlorobenzene	<11.3	ug/kg	11.3	11.3	1	12/15/16 12:36	12/21/16 00:23	95-50-1	
1,3-Dichlorobenzene	<17.2	ug/kg	17.2	17.2	1	12/15/16 12:36	12/21/16 00:23	541-73-1	
1,4-Dichlorobenzene	<56.5	ug/kg	56.5	17.0	1	12/15/16 12:36	12/21/16 00:23	106-46-7	
Dichlorodifluoromethane	<59.6	ug/kg	59.6	17.9	1	12/15/16 12:36	12/21/16 00:23	75-71-8	
1,1-Dichloroethane	<22.7	ug/kg	22.7	22.7	1	12/15/16 12:36	12/21/16 00:23	75-34-3	
1,2-Dichloroethane	<18.5	ug/kg	18.5	18.5	1	12/15/16 12:36	12/21/16 00:23	107-06-2	
1,1-Dichloroethene	<14.9	ug/kg	14.9	14.9	1	12/15/16 12:36	12/21/16 00:23	75-35-4	
cis-1,2-Dichloroethene	<72.5	ug/kg	72.5	21.8	1	12/15/16 12:36	12/21/16 00:23	156-59-2	
trans-1,2-Dichloroethene	<93.9	ug/kg	93.9	28.2	1	12/15/16 12:36	12/21/16 00:23	156-60-5	
Dichlorofluoromethane	<534	ug/kg	534	160	1	12/15/16 12:36	12/21/16 00:23	75-43-4	
1,2-Dichloropropane	<20.3	ug/kg	20.3	20.3	1	12/15/16 12:36	12/21/16 00:23	78-87-5	
1,3-Dichloropropane	<69.8	ug/kg	69.8	21.0	1	12/15/16 12:36	12/21/16 00:23	142-28-9	
2,2-Dichloropropane	<62.0	ug/kg	62.0	18.6	1	12/15/16 12:36	12/21/16 00:23	594-20-7	
1,1-Dichloropropene	<17.7	ug/kg	17.7	17.7	1	12/15/16 12:36	12/21/16 00:23	563-58-6	
cis-1,3-Dichloropropene	<88.9	ug/kg	88.9	26.7	1	12/15/16 12:36	12/21/16 00:23	10061-01-5	
trans-1,3-Dichloropropene	<66.3	ug/kg	66.3	19.9	1	12/15/16 12:36	12/21/16 00:23	10061-02-6	
Diethyl ether (Ethyl ether)	<80.3	ug/kg	80.3	24.1	1	12/15/16 12:36	12/21/16 00:23	60-29-7	
Ethylbenzene	<62.0	ug/kg	62.0	18.6	1	12/15/16 12:36	12/21/16 00:23	100-41-4	
Hexachloro-1,3-butadiene	<183	ug/kg	183	55.0	1	12/15/16 12:36	12/21/16 00:23	87-68-3	
Isopropylbenzene (Cumene)	<69.4	ug/kg	69.4	20.8	1	12/15/16 12:36	12/21/16 00:23	98-82-8	
p-Isopropyltoluene	<32.4	ug/kg	32.4	9.7	1	12/15/16 12:36	12/21/16 00:23	99-87-6	
Methylene Chloride	<361	ug/kg	361	108	1	12/15/16 12:36	12/21/16 00:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	<129	ug/kg	129	38.7	1	12/15/16 12:36	12/21/16 00:23	108-10-1	
Methyl-tert-butyl ether	<36.5	ug/kg	36.5	11.0	1	12/15/16 12:36	12/21/16 00:23	1634-04-4	
Naphthalene	134	ug/kg	47.2	14.2	1	12/15/16 12:36	12/21/16 00:23	91-20-3	B
n-Propylbenzene	<58.1	ug/kg	58.1	17.4	1	12/15/16 12:36	12/21/16 00:23	103-65-1	
Styrene	<50.7	ug/kg	50.7	15.2	1	12/15/16 12:36	12/21/16 00:23	100-42-5	
1,1,1,2-Tetrachloroethane	<23.2	ug/kg	23.2	23.2	1	12/15/16 12:36	12/21/16 00:23	630-20-6	
1,1,2,2-Tetrachloroethane	<13.0	ug/kg	13.0	13.0	1	12/15/16 12:36	12/21/16 00:23	79-34-5	
Tetrachloroethene	<74.5	ug/kg	74.5	22.4	1	12/15/16 12:36	12/21/16 00:23	127-18-4	
Tetrahydrofuran	<967	ug/kg	967	290	1	12/15/16 12:36	12/21/16 00:23	109-99-9	
Toluene	204	ug/kg	62.0	18.6	1	12/15/16 12:36	12/21/16 00:23	108-88-3	
1,2,3-Trichlorobenzene	<16.9	ug/kg	16.9	16.9	1	12/15/16 12:36	12/21/16 00:23	87-61-6	
1,2,4-Trichlorobenzene	<18.0	ug/kg	18.0	18.0	1	12/15/16 12:36	12/21/16 00:23	120-82-1	
1,1,1-Trichloroethane	<24.5	ug/kg	24.5	24.5	1	12/15/16 12:36	12/21/16 00:23	71-55-6	
1,1,2-Trichloroethane	<12.6	ug/kg	12.6	12.6	1	12/15/16 12:36	12/21/16 00:23	79-00-5	
Trichloroethene	<55.7	ug/kg	55.7	16.7	1	12/15/16 12:36	12/21/16 00:23	79-01-6	
Trichlorofluoromethane	<196	ug/kg	196	58.8	1	12/15/16 12:36	12/21/16 00:23	75-69-4	
1,2,3-Trichloropropane	<60.6	ug/kg	60.6	60.6	1	12/15/16 12:36	12/21/16 00:23	96-18-4	
1,1,2-Trichlorotrifluoroethane	<140	ug/kg	140	42.1	1	12/15/16 12:36	12/21/16 00:23	76-13-1	
1,2,4-Trimethylbenzene	85.1	ug/kg	12.9	12.9	1	12/15/16 12:36	12/21/16 00:23	95-63-6	
1,3,5-Trimethylbenzene	<44.8	ug/kg	44.8	13.5	1	12/15/16 12:36	12/21/16 00:23	108-67-8	
Vinyl chloride	<25.0	ug/kg	25.0	7.5	1	12/15/16 12:36	12/21/16 00:23	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

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**Sample: SB001\_1-4**      **Lab ID: 10373134028**      Collected: 12/12/16 16:00      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>335</b>	ug/kg	156	46.8	1	12/15/16 12:36	12/21/16 00:23	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	108	%	75-129		1	12/15/16 12:36	12/21/16 00:23	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/15/16 12:36	12/21/16 00:23	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/15/16 12:36	12/21/16 00:23	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **SB001\_12-15** Lab ID: **10373134029** Collected: 12/12/16 16:15 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>31.0</b>	%	0.10	0.10	1		12/27/16 13:57		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<b>6.0</b>	ug/kg	1.9	0.57	1	12/22/16 14:23	12/28/16 14:50	83-32-9	
Acenaphthylene	<b>8.6</b>	ug/kg	1.3	0.39	1	12/22/16 14:23	12/28/16 14:50	208-96-8	
Anthracene	<b>10.8</b>	ug/kg	2.2	0.66	1	12/22/16 14:23	12/28/16 14:50	120-12-7	
Benzo(a)anthracene	<b>53.8</b>	ug/kg	2.3	0.68	1	12/22/16 14:23	12/28/16 14:50	56-55-3	
Benzo(a)pyrene	<b>69.3</b>	ug/kg	1.7	0.50	1	12/22/16 14:23	12/28/16 14:50	50-32-8	
Benzo(b)fluoranthene	<b>59.9</b>	ug/kg	2.8	0.83	1	12/22/16 14:23	12/28/16 14:50	205-99-2	
Benzo(g,h,i)perylene	<b>46.6</b>	ug/kg	2.2	0.66	1	12/22/16 14:23	12/28/16 14:50	191-24-2	
Benzo(k)fluoranthene	<b>22.9</b>	ug/kg	2.4	0.71	1	12/22/16 14:23	12/28/16 14:50	207-08-9	
Chrysene	<b>55.3</b>	ug/kg	2.7	0.80	1	12/22/16 14:23	12/28/16 14:50	218-01-9	
Dibenz(a,h)anthracene	<b>10.7</b>	ug/kg	1.6	0.47	1	12/22/16 14:23	12/28/16 14:50	53-70-3	
Fluoranthene	<b>37.0</b>	ug/kg	3.8	1.1	1	12/22/16 14:23	12/28/16 14:50	206-44-0	
Fluorene	<b>4.6</b>	ug/kg	1.9	0.56	1	12/22/16 14:23	12/28/16 14:50	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>30.6</b>	ug/kg	3.6	1.1	1	12/22/16 14:23	12/28/16 14:50	193-39-5	
Naphthalene	<b>3.2</b>	ug/kg	1.7	0.52	1	12/22/16 14:23	12/28/16 14:50	91-20-3	
Phenanthrene	<b>10.4</b>	ug/kg	1.9	0.58	1	12/22/16 14:23	12/28/16 14:50	85-01-8	
Pyrene	<b>131</b>	ug/kg	4.0	1.2	1	12/22/16 14:23	12/28/16 14:50	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	77	%	41-125		1	12/22/16 14:23	12/28/16 14:50	321-60-8	
p-Terphenyl-d14 (S)	70	%	39-125		1	12/22/16 14:23	12/28/16 14:50	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<b>&lt;1530</b>	ug/kg	1530	459	1	12/15/16 12:36	12/16/16 18:25	67-64-1	
Allyl chloride	<b>&lt;200</b>	ug/kg	200	60.1	1	12/15/16 12:36	12/16/16 18:25	107-05-1	
Benzene	<b>&lt;20.2</b>	ug/kg	20.2	6.1	1	12/15/16 12:36	12/16/16 18:25	71-43-2	
Bromobenzene	<b>&lt;59.7</b>	ug/kg	59.7	17.9	1	12/15/16 12:36	12/16/16 18:25	108-86-1	
Bromochloromethane	<b>&lt;69.5</b>	ug/kg	69.5	20.9	1	12/15/16 12:36	12/16/16 18:25	74-97-5	
Bromodichloromethane	<b>&lt;65.3</b>	ug/kg	65.3	19.6	1	12/15/16 12:36	12/16/16 18:25	75-27-4	
Bromoform	<b>&lt;201</b>	ug/kg	201	60.4	1	12/15/16 12:36	12/16/16 18:25	75-25-2	
Bromomethane	<b>&lt;236</b>	ug/kg	236	71.0	1	12/15/16 12:36	12/16/16 18:25	74-83-9	
2-Butanone (MEK)	<b>&lt;308</b>	ug/kg	308	92.4	1	12/15/16 12:36	12/16/16 18:25	78-93-3	
n-Butylbenzene	<b>&lt;56.4</b>	ug/kg	56.4	16.9	1	12/15/16 12:36	12/16/16 18:25	104-51-8	
sec-Butylbenzene	<b>&lt;55.0</b>	ug/kg	55.0	16.5	1	12/15/16 12:36	12/16/16 18:25	135-98-8	
tert-Butylbenzene	<b>&lt;73.7</b>	ug/kg	73.7	22.1	1	12/15/16 12:36	12/16/16 18:25	98-06-6	
Carbon tetrachloride	<b>&lt;73.2</b>	ug/kg	73.2	22.0	1	12/15/16 12:36	12/16/16 18:25	56-23-5	
Chlorobenzene	<b>&lt;40.6</b>	ug/kg	40.6	12.2	1	12/15/16 12:36	12/16/16 18:25	108-90-7	
Chloroethane	<b>&lt;368</b>	ug/kg	368	111	1	12/15/16 12:36	12/16/16 18:25	75-00-3	
Chloroform	<b>&lt;113</b>	ug/kg	113	34.0	1	12/15/16 12:36	12/16/16 18:25	67-66-3	
Chloromethane	<b>&lt;113</b>	ug/kg	113	33.9	1	12/15/16 12:36	12/16/16 18:25	74-87-3	
2-Chlorotoluene	<b>&lt;64.4</b>	ug/kg	64.4	19.3	1	12/15/16 12:36	12/16/16 18:25	95-49-8	
4-Chlorotoluene	<b>&lt;61.1</b>	ug/kg	61.1	18.3	1	12/15/16 12:36	12/16/16 18:25	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;137</b>	ug/kg	137	137	1	12/15/16 12:36	12/16/16 18:25	96-12-8	
Dibromochloromethane	<b>&lt;200</b>	ug/kg	200	60.1	1	12/15/16 12:36	12/16/16 18:25	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **SB001\_12-15** Lab ID: **10373134029** Collected: 12/12/16 16:15 Received: 12/13/16 17:25 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<26.3	ug/kg	26.3	26.3	1	12/15/16 12:36	12/16/16 18:25	106-93-4	
Dibromomethane	<91.0	ug/kg	91.0	27.3	1	12/15/16 12:36	12/16/16 18:25	74-95-3	
1,2-Dichlorobenzene	<13.5	ug/kg	13.5	13.5	1	12/15/16 12:36	12/16/16 18:25	95-50-1	
1,3-Dichlorobenzene	<20.6	ug/kg	20.6	20.6	1	12/15/16 12:36	12/16/16 18:25	541-73-1	
1,4-Dichlorobenzene	<67.6	ug/kg	67.6	20.3	1	12/15/16 12:36	12/16/16 18:25	106-46-7	
Dichlorodifluoromethane	<71.4	ug/kg	71.4	21.4	1	12/15/16 12:36	12/16/16 18:25	75-71-8	
1,1-Dichloroethane	<27.2	ug/kg	27.2	27.2	1	12/15/16 12:36	12/16/16 18:25	75-34-3	
1,2-Dichloroethane	<22.1	ug/kg	22.1	22.1	1	12/15/16 12:36	12/16/16 18:25	107-06-2	
1,1-Dichloroethene	<17.8	ug/kg	17.8	17.8	1	12/15/16 12:36	12/16/16 18:25	75-35-4	
cis-1,2-Dichloroethene	<86.8	ug/kg	86.8	26.1	1	12/15/16 12:36	12/16/16 18:25	156-59-2	
trans-1,2-Dichloroethene	<112	ug/kg	112	33.8	1	12/15/16 12:36	12/16/16 18:25	156-60-5	
Dichlorofluoromethane	<639	ug/kg	639	192	1	12/15/16 12:36	12/16/16 18:25	75-43-4	
1,2-Dichloropropane	<24.2	ug/kg	24.2	24.2	1	12/15/16 12:36	12/16/16 18:25	78-87-5	
1,3-Dichloropropane	<83.5	ug/kg	83.5	25.1	1	12/15/16 12:36	12/16/16 18:25	142-28-9	
2,2-Dichloropropane	<74.2	ug/kg	74.2	22.3	1	12/15/16 12:36	12/16/16 18:25	594-20-7	
1,1-Dichloropropene	<21.2	ug/kg	21.2	21.2	1	12/15/16 12:36	12/16/16 18:25	563-58-6	
cis-1,3-Dichloropropene	<106	ug/kg	106	31.9	1	12/15/16 12:36	12/16/16 18:25	10061-01-5	
trans-1,3-Dichloropropene	<79.3	ug/kg	79.3	23.8	1	12/15/16 12:36	12/16/16 18:25	10061-02-6	
Diethyl ether (Ethyl ether)	<96.1	ug/kg	96.1	28.9	1	12/15/16 12:36	12/16/16 18:25	60-29-7	
Ethylbenzene	<74.2	ug/kg	74.2	22.3	1	12/15/16 12:36	12/16/16 18:25	100-41-4	
Hexachloro-1,3-butadiene	<219	ug/kg	219	65.8	1	12/15/16 12:36	12/16/16 18:25	87-68-3	
Isopropylbenzene (Cumene)	<83.0	ug/kg	83.0	24.9	1	12/15/16 12:36	12/16/16 18:25	98-82-8	
p-Isopropyltoluene	<38.7	ug/kg	38.7	11.6	1	12/15/16 12:36	12/16/16 18:25	99-87-6	
Methylene Chloride	<432	ug/kg	432	130	1	12/15/16 12:36	12/16/16 18:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	<154	ug/kg	154	46.4	1	12/15/16 12:36	12/16/16 18:25	108-10-1	
Methyl-tert-butyl ether	<43.7	ug/kg	43.7	13.1	1	12/15/16 12:36	12/16/16 18:25	1634-04-4	
Naphthalene	99.0	ug/kg	56.4	16.9	1	12/15/16 12:36	12/16/16 18:25	91-20-3	B
n-Propylbenzene	<69.5	ug/kg	69.5	20.9	1	12/15/16 12:36	12/16/16 18:25	103-65-1	
Styrene	<60.6	ug/kg	60.6	18.2	1	12/15/16 12:36	12/16/16 18:25	100-42-5	
1,1,1,2-Tetrachloroethane	<27.7	ug/kg	27.7	27.7	1	12/15/16 12:36	12/16/16 18:25	630-20-6	
1,1,2,2-Tetrachloroethane	<15.5	ug/kg	15.5	15.5	1	12/15/16 12:36	12/16/16 18:25	79-34-5	
Tetrachloroethene	<89.1	ug/kg	89.1	26.8	1	12/15/16 12:36	12/16/16 18:25	127-18-4	
Tetrahydrofuran	<1160	ug/kg	1160	347	1	12/15/16 12:36	12/16/16 18:25	109-99-9	
Toluene	<74.2	ug/kg	74.2	22.3	1	12/15/16 12:36	12/16/16 18:25	108-88-3	
1,2,3-Trichlorobenzene	<20.2	ug/kg	20.2	20.2	1	12/15/16 12:36	12/16/16 18:25	87-61-6	
1,2,4-Trichlorobenzene	<21.6	ug/kg	21.6	21.6	1	12/15/16 12:36	12/16/16 18:25	120-82-1	
1,1,1-Trichloroethane	<29.3	ug/kg	29.3	29.3	1	12/15/16 12:36	12/16/16 18:25	71-55-6	
1,1,2-Trichloroethane	<15.1	ug/kg	15.1	15.1	1	12/15/16 12:36	12/16/16 18:25	79-00-5	
Trichloroethene	<66.7	ug/kg	66.7	20.0	1	12/15/16 12:36	12/16/16 18:25	79-01-6	
Trichlorofluoromethane	<234	ug/kg	234	70.3	1	12/15/16 12:36	12/16/16 18:25	75-69-4	
1,2,3-Trichloropropane	<72.6	ug/kg	72.6	72.6	1	12/15/16 12:36	12/16/16 18:25	96-18-4	
1,1,2-Trichlorotrifluoroethane	<168	ug/kg	168	50.4	1	12/15/16 12:36	12/16/16 18:25	76-13-1	
1,2,4-Trimethylbenzene	<15.4	ug/kg	15.4	15.4	1	12/15/16 12:36	12/16/16 18:25	95-63-6	
1,3,5-Trimethylbenzene	<53.6	ug/kg	53.6	16.1	1	12/15/16 12:36	12/16/16 18:25	108-67-8	
Vinyl chloride	<29.9	ug/kg	29.9	9.0	1	12/15/16 12:36	12/16/16 18:25	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: SB001\_12-15**      **Lab ID: 10373134029**      Collected: 12/12/16 16:15      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<187	ug/kg	187	56.0	1	12/15/16 12:36	12/16/16 18:25	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%	75-129		1	12/15/16 12:36	12/16/16 18:25	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/15/16 12:36	12/16/16 18:25	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	12/15/16 12:36	12/16/16 18:25	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **SB001\_17.5-20** Lab ID: **10373134030** Collected: 12/12/16 00:00 Received: 12/13/16 17:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	33.3	%	0.10	0.10	1		12/27/16 13:57		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	11.2	ug/kg	1.9	0.58	1	12/16/16 14:50	12/22/16 02:25	83-32-9	
Acenaphthylene	<1.4	ug/kg	1.4	0.41	1	12/16/16 14:50	12/22/16 02:25	208-96-8	
Anthracene	9.3	ug/kg	2.3	0.68	1	12/16/16 14:50	12/22/16 02:25	120-12-7	
Benzo(a)anthracene	12.5	ug/kg	2.3	0.70	1	12/16/16 14:50	12/22/16 02:25	56-55-3	
Benzo(a)pyrene	20.2	ug/kg	1.7	0.52	1	12/16/16 14:50	12/22/16 02:25	50-32-8	
Benzo(b)fluoranthene	16.2	ug/kg	2.9	0.86	1	12/16/16 14:50	12/22/16 02:25	205-99-2	
Benzo(g,h,i)perylene	12.9	ug/kg	2.3	0.68	1	12/16/16 14:50	12/22/16 02:25	191-24-2	
Benzo(k)fluoranthene	7.8	ug/kg	2.4	0.74	1	12/16/16 14:50	12/22/16 02:25	207-08-9	
Chrysene	15.4	ug/kg	2.8	0.83	1	12/16/16 14:50	12/22/16 02:25	218-01-9	
Dibenz(a,h)anthracene	2.1	ug/kg	1.6	0.49	1	12/16/16 14:50	12/22/16 02:25	53-70-3	
Fluoranthene	21.4	ug/kg	3.9	1.2	1	12/16/16 14:50	12/22/16 02:25	206-44-0	
Fluorene	<1.9	ug/kg	1.9	0.57	1	12/16/16 14:50	12/22/16 02:25	86-73-7	
Indeno(1,2,3-cd)pyrene	8.8	ug/kg	3.7	1.1	1	12/16/16 14:50	12/22/16 02:25	193-39-5	
Naphthalene	<1.8	ug/kg	1.8	0.53	1	12/16/16 14:50	12/22/16 02:25	91-20-3	
Phenanthrene	21.0	ug/kg	2.0	0.60	1	12/16/16 14:50	12/22/16 02:25	85-01-8	
Pyrene	29.4	ug/kg	4.1	1.2	1	12/16/16 14:50	12/22/16 02:25	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	70	%	41-125		1	12/16/16 14:50	12/22/16 02:25	321-60-8	
p-Terphenyl-d14 (S)	70	%	39-125		1	12/16/16 14:50	12/22/16 02:25	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1590	ug/kg	1590	477	1	12/15/16 12:36	12/19/16 18:25	67-64-1	
Allyl chloride	<208	ug/kg	208	62.3	1	12/15/16 12:36	12/19/16 18:25	107-05-1	
Benzene	<20.9	ug/kg	20.9	6.3	1	12/15/16 12:36	12/19/16 18:25	71-43-2	
Bromobenzene	<61.9	ug/kg	61.9	18.6	1	12/15/16 12:36	12/19/16 18:25	108-86-1	
Bromochloromethane	<72.1	ug/kg	72.1	21.7	1	12/15/16 12:36	12/19/16 18:25	74-97-5	
Bromodichloromethane	<67.7	ug/kg	67.7	20.3	1	12/15/16 12:36	12/19/16 18:25	75-27-4	
Bromoform	<209	ug/kg	209	62.6	1	12/15/16 12:36	12/19/16 18:25	75-25-2	
Bromomethane	<245	ug/kg	245	73.7	1	12/15/16 12:36	12/19/16 18:25	74-83-9	
2-Butanone (MEK)	<319	ug/kg	319	95.9	1	12/15/16 12:36	12/19/16 18:25	78-93-3	
n-Butylbenzene	<58.5	ug/kg	58.5	17.6	1	12/15/16 12:36	12/19/16 18:25	104-51-8	
sec-Butylbenzene	<57.1	ug/kg	57.1	17.1	1	12/15/16 12:36	12/19/16 18:25	135-98-8	
tert-Butylbenzene	<76.4	ug/kg	76.4	23.0	1	12/15/16 12:36	12/19/16 18:25	98-06-6	
Carbon tetrachloride	<76.0	ug/kg	76.0	22.8	1	12/15/16 12:36	12/19/16 18:25	56-23-5	
Chlorobenzene	<42.1	ug/kg	42.1	12.6	1	12/15/16 12:36	12/19/16 18:25	108-90-7	
Chloroethane	<382	ug/kg	382	115	1	12/15/16 12:36	12/19/16 18:25	75-00-3	
Chloroform	<118	ug/kg	118	35.3	1	12/15/16 12:36	12/19/16 18:25	67-66-3	
Chloromethane	<117	ug/kg	117	35.2	1	12/15/16 12:36	12/19/16 18:25	74-87-3	
2-Chlorotoluene	<66.8	ug/kg	66.8	20.1	1	12/15/16 12:36	12/19/16 18:25	95-49-8	
4-Chlorotoluene	<63.4	ug/kg	63.4	19.0	1	12/15/16 12:36	12/19/16 18:25	106-43-4	
1,2-Dibromo-3-chloropropane	<142	ug/kg	142	142	1	12/15/16 12:36	12/19/16 18:25	96-12-8	
Dibromochloromethane	<208	ug/kg	208	62.3	1	12/15/16 12:36	12/19/16 18:25	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Sample: **SB001\_17.5-20** Lab ID: **10373134030** Collected: 12/12/16 00:00 Received: 12/13/16 17:25 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<27.3	ug/kg	27.3	27.3	1	12/15/16 12:36	12/19/16 18:25	106-93-4	
Dibromomethane	<94.4	ug/kg	94.4	28.3	1	12/15/16 12:36	12/19/16 18:25	74-95-3	
1,2-Dichlorobenzene	<14.0	ug/kg	14.0	14.0	1	12/15/16 12:36	12/19/16 18:25	95-50-1	
1,3-Dichlorobenzene	<21.4	ug/kg	21.4	21.4	1	12/15/16 12:36	12/19/16 18:25	541-73-1	
1,4-Dichlorobenzene	<70.2	ug/kg	70.2	21.1	1	12/15/16 12:36	12/19/16 18:25	106-46-7	
Dichlorodifluoromethane	<74.0	ug/kg	74.0	22.2	1	12/15/16 12:36	12/19/16 18:25	75-71-8	
1,1-Dichloroethane	<28.2	ug/kg	28.2	28.2	1	12/15/16 12:36	12/19/16 18:25	75-34-3	
1,2-Dichloroethane	<23.0	ug/kg	23.0	23.0	1	12/15/16 12:36	12/19/16 18:25	107-06-2	
1,1-Dichloroethene	<18.5	ug/kg	18.5	18.5	1	12/15/16 12:36	12/19/16 18:25	75-35-4	
cis-1,2-Dichloroethene	<90.0	ug/kg	90.0	27.0	1	12/15/16 12:36	12/19/16 18:25	156-59-2	
trans-1,2-Dichloroethene	<117	ug/kg	117	35.0	1	12/15/16 12:36	12/19/16 18:25	156-60-5	
Dichlorofluoromethane	<663	ug/kg	663	199	1	12/15/16 12:36	12/19/16 18:25	75-43-4	
1,2-Dichloropropane	<25.1	ug/kg	25.1	25.1	1	12/15/16 12:36	12/19/16 18:25	78-87-5	
1,3-Dichloropropane	<86.6	ug/kg	86.6	26.0	1	12/15/16 12:36	12/19/16 18:25	142-28-9	
2,2-Dichloropropane	<76.9	ug/kg	76.9	23.1	1	12/15/16 12:36	12/19/16 18:25	594-20-7	
1,1-Dichloropropene	<21.9	ug/kg	21.9	21.9	1	12/15/16 12:36	12/19/16 18:25	563-58-6	
cis-1,3-Dichloropropene	<110	ug/kg	110	33.1	1	12/15/16 12:36	12/19/16 18:25	10061-01-5	
trans-1,3-Dichloropropene	<82.3	ug/kg	82.3	24.7	1	12/15/16 12:36	12/19/16 18:25	10061-02-6	
Diethyl ether (Ethyl ether)	<99.7	ug/kg	99.7	29.9	1	12/15/16 12:36	12/19/16 18:25	60-29-7	
Ethylbenzene	<76.9	ug/kg	76.9	23.1	1	12/15/16 12:36	12/19/16 18:25	100-41-4	
Hexachloro-1,3-butadiene	<227	ug/kg	227	68.3	1	12/15/16 12:36	12/19/16 18:25	87-68-3	
Isopropylbenzene (Cumene)	<86.1	ug/kg	86.1	25.9	1	12/15/16 12:36	12/19/16 18:25	98-82-8	
p-Isopropyltoluene	<40.2	ug/kg	40.2	12.1	1	12/15/16 12:36	12/19/16 18:25	99-87-6	
Methylene Chloride	<448	ug/kg	448	135	1	12/15/16 12:36	12/19/16 18:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	<160	ug/kg	160	48.1	1	12/15/16 12:36	12/19/16 18:25	108-10-1	
Methyl-tert-butyl ether	<45.3	ug/kg	45.3	13.6	1	12/15/16 12:36	12/19/16 18:25	1634-04-4	
Naphthalene	<58.5	ug/kg	58.5	17.6	1	12/15/16 12:36	12/19/16 18:25	91-20-3	
n-Propylbenzene	<72.1	ug/kg	72.1	21.7	1	12/15/16 12:36	12/19/16 18:25	103-65-1	
Styrene	<62.9	ug/kg	62.9	18.9	1	12/15/16 12:36	12/19/16 18:25	100-42-5	
1,1,1,2-Tetrachloroethane	<28.8	ug/kg	28.8	28.8	1	12/15/16 12:36	12/19/16 18:25	630-20-6	
1,1,1,2,2-Tetrachloroethane	<16.1	ug/kg	16.1	16.1	1	12/15/16 12:36	12/19/16 18:25	79-34-5	
Tetrachloroethene	<92.4	ug/kg	92.4	27.8	1	12/15/16 12:36	12/19/16 18:25	127-18-4	
Tetrahydrofuran	<1200	ug/kg	1200	360	1	12/15/16 12:36	12/19/16 18:25	109-99-9	
Toluene	<76.9	ug/kg	76.9	23.1	1	12/15/16 12:36	12/19/16 18:25	108-88-3	
1,2,3-Trichlorobenzene	<20.9	ug/kg	20.9	20.9	1	12/15/16 12:36	12/19/16 18:25	87-61-6	
1,2,4-Trichlorobenzene	<22.4	ug/kg	22.4	22.4	1	12/15/16 12:36	12/19/16 18:25	120-82-1	
1,1,1-Trichloroethane	<30.4	ug/kg	30.4	30.4	1	12/15/16 12:36	12/19/16 18:25	71-55-6	
1,1,2-Trichloroethane	<15.7	ug/kg	15.7	15.7	1	12/15/16 12:36	12/19/16 18:25	79-00-5	
Trichloroethene	<69.2	ug/kg	69.2	20.8	1	12/15/16 12:36	12/19/16 18:25	79-01-6	
Trichlorofluoromethane	<243	ug/kg	243	72.9	1	12/15/16 12:36	12/19/16 18:25	75-69-4	
1,2,3-Trichloropropane	<75.3	ug/kg	75.3	75.3	1	12/15/16 12:36	12/19/16 18:25	96-18-4	
1,1,2-Trichlorotrifluoroethane	<174	ug/kg	174	52.3	1	12/15/16 12:36	12/19/16 18:25	76-13-1	
1,2,4-Trimethylbenzene	<16.0	ug/kg	16.0	16.0	1	12/15/16 12:36	12/19/16 18:25	95-63-6	
1,3,5-Trimethylbenzene	<55.6	ug/kg	55.6	16.7	1	12/15/16 12:36	12/19/16 18:25	108-67-8	
Vinyl chloride	<31.1	ug/kg	31.1	9.3	1	12/15/16 12:36	12/19/16 18:25	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample: SB001\_17.5-20**      **Lab ID: 10373134030**      Collected: 12/12/16 00:00      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<194	ug/kg	194	58.1	1	12/15/16 12:36	12/19/16 18:25	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	107	%	75-129		1	12/15/16 12:36	12/19/16 18:25	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/15/16 12:36	12/19/16 18:25	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/15/16 12:36	12/19/16 18:25	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample:** Trip Blank      **Lab ID:** 10373134031      **Collected:** 12/12/16 00:00      **Received:** 12/13/16 17:25      **Matrix:** Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	<1090	ug/kg	1090	328	1	12/15/16 12:36	12/21/16 21:41	67-64-1	
Allyl chloride	<143	ug/kg	143	42.9	1	12/15/16 12:36	12/21/16 21:41	107-05-1	
Benzene	<14.4	ug/kg	14.4	4.3	1	12/15/16 12:36	12/21/16 21:41	71-43-2	
Bromobenzene	<42.6	ug/kg	42.6	12.8	1	12/15/16 12:36	12/21/16 21:41	108-86-1	
Bromochloromethane	<49.6	ug/kg	49.6	14.9	1	12/15/16 12:36	12/21/16 21:41	74-97-5	
Bromodichloromethane	<46.6	ug/kg	46.6	14.0	1	12/15/16 12:36	12/21/16 21:41	75-27-4	
Bromoform	<144	ug/kg	144	43.1	1	12/15/16 12:36	12/21/16 21:41	75-25-2	
Bromomethane	<169	ug/kg	169	50.7	1	12/15/16 12:36	12/21/16 21:41	74-83-9	
2-Butanone (MEK)	<220	ug/kg	220	66.0	1	12/15/16 12:36	12/21/16 21:41	78-93-3	
n-Butylbenzene	<40.3	ug/kg	40.3	12.1	1	12/15/16 12:36	12/21/16 21:41	104-51-8	
sec-Butylbenzene	<39.3	ug/kg	39.3	11.8	1	12/15/16 12:36	12/21/16 21:41	135-98-8	
tert-Butylbenzene	<52.6	ug/kg	52.6	15.8	1	12/15/16 12:36	12/21/16 21:41	98-06-6	
Carbon tetrachloride	<52.3	ug/kg	52.3	15.7	1	12/15/16 12:36	12/21/16 21:41	56-23-5	
Chlorobenzene	<29.0	ug/kg	29.0	8.7	1	12/15/16 12:36	12/21/16 21:41	108-90-7	
Chloroethane	<263	ug/kg	263	79.0	1	12/15/16 12:36	12/21/16 21:41	75-00-3	
Chloroform	<80.9	ug/kg	80.9	24.3	1	12/15/16 12:36	12/21/16 21:41	67-66-3	
Chloromethane	<80.6	ug/kg	80.6	24.2	1	12/15/16 12:36	12/21/16 21:41	74-87-3	
2-Chlorotoluene	<46.0	ug/kg	46.0	13.8	1	12/15/16 12:36	12/21/16 21:41	95-49-8	
4-Chlorotoluene	<43.6	ug/kg	43.6	13.1	1	12/15/16 12:36	12/21/16 21:41	106-43-4	
1,2-Dibromo-3-chloropropane	<97.5	ug/kg	97.5	97.5	1	12/15/16 12:36	12/21/16 21:41	96-12-8	
Dibromochloromethane	<143	ug/kg	143	42.9	1	12/15/16 12:36	12/21/16 21:41	124-48-1	
1,2-Dibromoethane (EDB)	<18.8	ug/kg	18.8	18.8	1	12/15/16 12:36	12/21/16 21:41	106-93-4	
Dibromomethane	<64.9	ug/kg	64.9	19.5	1	12/15/16 12:36	12/21/16 21:41	74-95-3	
1,2-Dichlorobenzene	<9.7	ug/kg	9.7	9.7	1	12/15/16 12:36	12/21/16 21:41	95-50-1	
1,3-Dichlorobenzene	<14.7	ug/kg	14.7	9.7	1	12/15/16 12:36	12/21/16 21:41	541-73-1	
1,4-Dichlorobenzene	<48.3	ug/kg	48.3	14.5	1	12/15/16 12:36	12/21/16 21:41	106-46-7	
Dichlorodifluoromethane	<50.9	ug/kg	50.9	15.3	1	12/15/16 12:36	12/21/16 21:41	75-71-8	
1,1-Dichloroethane	<19.4	ug/kg	19.4	19.4	1	12/15/16 12:36	12/21/16 21:41	75-34-3	
1,2-Dichloroethane	<15.8	ug/kg	15.8	15.8	1	12/15/16 12:36	12/21/16 21:41	107-06-2	
1,1-Dichloroethene	<12.7	ug/kg	12.7	12.7	1	12/15/16 12:36	12/21/16 21:41	75-35-4	
cis-1,2-Dichloroethene	<61.9	ug/kg	61.9	18.6	1	12/15/16 12:36	12/21/16 21:41	156-59-2	
trans-1,2-Dichloroethene	<80.3	ug/kg	80.3	24.1	1	12/15/16 12:36	12/21/16 21:41	156-60-5	
Dichlorofluoromethane	<456	ug/kg	456	137	1	12/15/16 12:36	12/21/16 21:41	75-43-4	
1,2-Dichloropropane	<17.3	ug/kg	17.3	17.3	1	12/15/16 12:36	12/21/16 21:41	78-87-5	
1,3-Dichloropropane	<59.6	ug/kg	59.6	17.9	1	12/15/16 12:36	12/21/16 21:41	142-28-9	
2,2-Dichloropropane	<52.9	ug/kg	52.9	15.9	1	12/15/16 12:36	12/21/16 21:41	594-20-7	
1,1-Dichloropropene	<15.1	ug/kg	15.1	15.1	1	12/15/16 12:36	12/21/16 21:41	563-58-6	
cis-1,3-Dichloropropene	<75.9	ug/kg	75.9	22.8	1	12/15/16 12:36	12/21/16 21:41	10061-01-5	
trans-1,3-Dichloropropene	<56.6	ug/kg	56.6	17.0	1	12/15/16 12:36	12/21/16 21:41	10061-02-6	
Diethyl ether (Ethyl ether)	<68.6	ug/kg	68.6	20.6	1	12/15/16 12:36	12/21/16 21:41	60-29-7	
Ethylbenzene	<52.9	ug/kg	52.9	15.9	1	12/15/16 12:36	12/21/16 21:41	100-41-4	
Hexachloro-1,3-butadiene	<157	ug/kg	157	47.0	1	12/15/16 12:36	12/21/16 21:41	87-68-3	
Isopropylbenzene (Cumene)	<59.3	ug/kg	59.3	17.8	1	12/15/16 12:36	12/21/16 21:41	98-82-8	
p-Isopropyltoluene	<27.6	ug/kg	27.6	8.3	1	12/15/16 12:36	12/21/16 21:41	99-87-6	
Methylene Chloride	<308	ug/kg	308	92.6	1	12/15/16 12:36	12/21/16 21:41	75-09-2	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

**Sample:** Trip Blank      **Lab ID:** 10373134031      Collected: 12/12/16 00:00      Received: 12/13/16 17:25      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
4-Methyl-2-pentanone (MIBK)	<110	ug/kg	110	33.1	1	12/15/16 12:36	12/21/16 21:41	108-10-1	
Methyl-tert-butyl ether	<31.2	ug/kg	31.2	9.4	1	12/15/16 12:36	12/21/16 21:41	1634-04-4	
Naphthalene	<40.3	ug/kg	40.3	12.1	1	12/15/16 12:36	12/21/16 21:41	91-20-3	
n-Propylbenzene	<49.6	ug/kg	49.6	14.9	1	12/15/16 12:36	12/21/16 21:41	103-65-1	
Styrene	<43.3	ug/kg	43.3	13.0	1	12/15/16 12:36	12/21/16 21:41	100-42-5	
1,1,1,2-Tetrachloroethane	<19.8	ug/kg	19.8	19.8	1	12/15/16 12:36	12/21/16 21:41	630-20-6	
1,1,2,2-Tetrachloroethane	<11.1	ug/kg	11.1	11.1	1	12/15/16 12:36	12/21/16 21:41	79-34-5	
Tetrachloroethene	<63.6	ug/kg	63.6	19.1	1	12/15/16 12:36	12/21/16 21:41	127-18-4	
Tetrahydrofuran	<826	ug/kg	826	248	1	12/15/16 12:36	12/21/16 21:41	109-99-9	
Toluene	<52.9	ug/kg	52.9	15.9	1	12/15/16 12:36	12/21/16 21:41	108-88-3	
1,2,3-Trichlorobenzene	<14.4	ug/kg	14.4	14.4	1	12/15/16 12:36	12/21/16 21:41	87-61-6	
1,2,4-Trichlorobenzene	<15.4	ug/kg	15.4	15.4	1	12/15/16 12:36	12/21/16 21:41	120-82-1	
1,1,1-Trichloroethane	<20.9	ug/kg	20.9	20.9	1	12/15/16 12:36	12/21/16 21:41	71-55-6	
1,1,2-Trichloroethane	<10.8	ug/kg	10.8	10.8	1	12/15/16 12:36	12/21/16 21:41	79-00-5	
Trichloroethene	<47.6	ug/kg	47.6	14.3	1	12/15/16 12:36	12/21/16 21:41	79-01-6	
Trichlorofluoromethane	<167	ug/kg	167	50.2	1	12/15/16 12:36	12/21/16 21:41	75-69-4	
1,2,3-Trichloropropane	<51.8	ug/kg	51.8	51.8	1	12/15/16 12:36	12/21/16 21:41	96-18-4	
1,1,2-Trichlorotrifluoroethane	<120	ug/kg	120	36.0	1	12/15/16 12:36	12/21/16 21:41	76-13-1	
1,2,4-Trimethylbenzene	<11.0	ug/kg	11.0	11.0	1	12/15/16 12:36	12/21/16 21:41	95-63-6	
1,3,5-Trimethylbenzene	<38.3	ug/kg	38.3	11.5	1	12/15/16 12:36	12/21/16 21:41	108-67-8	
Vinyl chloride	<21.4	ug/kg	21.4	6.4	1	12/15/16 12:36	12/21/16 21:41	75-01-4	
Xylene (Total)	<133	ug/kg	133	40.0	1	12/15/16 12:36	12/21/16 21:41	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-129		1	12/15/16 12:36	12/21/16 21:41	17060-07-0	
Toluene-d8 (S)	96	%	75-125		1	12/15/16 12:36	12/21/16 21:41	2037-26-5	
4-Bromofluorobenzene (S)	94	%	75-125		1	12/15/16 12:36	12/21/16 21:41	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

QC Batch: 453358

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 10373134001, 10373134002

SAMPLE DUPLICATE: 2482023

Parameter	Units	10373805022 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.9	7.1	3	30	

SAMPLE DUPLICATE: 2482024

Parameter	Units	10373134002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	26.4	25.6	3	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

QC Batch: 451669 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10373134001, 10373134002, 10373134003

METHOD BLANK: 2473199 Matrix: Solid

Associated Lab Samples: 10373134001, 10373134002, 10373134003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/14/16 19:00	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/14/16 19:00	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/14/16 19:00	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/14/16 19:00	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/14/16 19:00	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/14/16 19:00	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/14/16 19:00	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/14/16 19:00	
1,2,3-Trichlorobenzene	ug/kg	<14.4	14.4	12/14/16 19:00	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/14/16 19:00	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/14/16 19:00	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/14/16 19:00	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/14/16 19:00	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/14/16 19:00	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/14/16 19:00	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/14/16 19:00	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/14/16 19:00	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/14/16 19:00	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/14/16 19:00	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/14/16 19:00	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/14/16 19:00	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/14/16 19:00	
2-Butanone (MEK)	ug/kg	<220	220	12/14/16 19:00	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/14/16 19:00	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/14/16 19:00	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/14/16 19:00	
Acetone	ug/kg	<1090	1090	12/14/16 19:00	
Allyl chloride	ug/kg	<143	143	12/14/16 19:00	
Benzene	ug/kg	<14.4	14.4	12/14/16 19:00	
Bromobenzene	ug/kg	<42.6	42.6	12/14/16 19:00	
Bromochloromethane	ug/kg	<49.6	49.6	12/14/16 19:00	
Bromodichloromethane	ug/kg	<46.6	46.6	12/14/16 19:00	
Bromoform	ug/kg	<144	144	12/14/16 19:00	
Bromomethane	ug/kg	<169	169	12/14/16 19:00	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/14/16 19:00	
Chlorobenzene	ug/kg	<29.0	29.0	12/14/16 19:00	
Chloroethane	ug/kg	<263	263	12/14/16 19:00	
Chloroform	ug/kg	<80.9	80.9	12/14/16 19:00	
Chloromethane	ug/kg	<80.6	80.6	12/14/16 19:00	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/14/16 19:00	
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/14/16 19:00	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

METHOD BLANK: 2473199

Matrix: Solid

Associated Lab Samples: 10373134001, 10373134002, 10373134003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<143	143	12/14/16 19:00	
Dibromomethane	ug/kg	<64.9	64.9	12/14/16 19:00	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/14/16 19:00	
Dichlorofluoromethane	ug/kg	<456	456	12/14/16 19:00	
Diethyl ether (Ethyl ether)	ug/kg	<68.6	68.6	12/14/16 19:00	
Ethylbenzene	ug/kg	<52.9	52.9	12/14/16 19:00	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/14/16 19:00	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/14/16 19:00	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/14/16 19:00	
Methylene Chloride	ug/kg	<308	308	12/14/16 19:00	
n-Butylbenzene	ug/kg	<40.3	40.3	12/14/16 19:00	
n-Propylbenzene	ug/kg	<49.6	49.6	12/14/16 19:00	
Naphthalene	ug/kg	<40.3	40.3	12/14/16 19:00	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/14/16 19:00	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/14/16 19:00	
Styrene	ug/kg	<43.3	43.3	12/14/16 19:00	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/14/16 19:00	
Tetrachloroethene	ug/kg	<63.6	63.6	12/14/16 19:00	
Tetrahydrofuran	ug/kg	<826	826	12/14/16 19:00	
Toluene	ug/kg	<52.9	52.9	12/14/16 19:00	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/14/16 19:00	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/14/16 19:00	
Trichloroethene	ug/kg	<47.6	47.6	12/14/16 19:00	
Trichlorofluoromethane	ug/kg	<167	167	12/14/16 19:00	
Vinyl chloride	ug/kg	<21.4	21.4	12/14/16 19:00	
Xylene (Total)	ug/kg	<133	133	12/14/16 19:00	
1,2-Dichloroethane-d4 (S)	%	89	75-129	12/14/16 19:00	
4-Bromofluorobenzene (S)	%	99	75-125	12/14/16 19:00	
Toluene-d8 (S)	%	98	75-125	12/14/16 19:00	

LABORATORY CONTROL SAMPLE & LCSD: 2473200

2473201

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	730	763	73	76	71-127	4	20	
1,1,1-Trichloroethane	ug/kg	1000	726	752	73	75	64-132	4	20	
1,1,2,2-Tetrachloroethane	ug/kg	1000	828	737	83	74	50-138	12	20	
1,1,2-Trichloroethane	ug/kg	1000	787	794	79	79	69-126	1	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	718	718	72	72	53-144	0	20	
1,1-Dichloroethane	ug/kg	1000	856	863	86	86	61-134	1	20	
1,1-Dichloroethene	ug/kg	1000	739	736	74	74	57-135	0	20	
1,1-Dichloropropene	ug/kg	1000	845	872	85	87	59-133	3	20	
1,2,3-Trichlorobenzene	ug/kg	1000	779	779	78	78	32-150	0	20	
1,2,3-Trichloropropane	ug/kg	1000	763	760	76	76	62-130	0	20	
1,2,4-Trichlorobenzene	ug/kg	1000	744	787	74	79	38-138	6	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

LABORATORY CONTROL SAMPLE & LCSD: 2473200

2473201

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	750	767	75	77	70-127	2	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1680	1600	67	64	40-141	5	20	
1,2-Dibromoethane (EDB)	ug/kg	1000	776	785	78	78	69-130	1	20	
1,2-Dichlorobenzene	ug/kg	1000	812	821	81	82	72-125	1	20	
1,2-Dichloroethane	ug/kg	1000	672	725	67	73	62-125	8	20	
1,2-Dichloropropane	ug/kg	1000	886	923	89	92	67-126	4	20	
1,3,5-Trimethylbenzene	ug/kg	1000	780	803	78	80	71-129	3	20	
1,3-Dichlorobenzene	ug/kg	1000	782	809	78	81	72-126	3	20	
1,3-Dichloropropane	ug/kg	1000	818	855	82	85	70-125	4	20	
1,4-Dichlorobenzene	ug/kg	1000	776	782	78	78	70-126	1	20	
2,2-Dichloropropane	ug/kg	1000	660	685	66	68	48-134	4	20	
2-Butanone (MEK)	ug/kg	5000	4350	4130	87	83	38-149	5	20	
2-Chlorotoluene	ug/kg	1000	739	764	74	76	71-129	3	20	
4-Chlorotoluene	ug/kg	1000	776	810	78	81	72-128	4	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4170	3990	83	80	52-145	4	20	
Acetone	ug/kg	5000	4700	4630	94	93	65-142	1	20	
Allyl chloride	ug/kg	1000	728	760	73	76	54-125	4	20	
Benzene	ug/kg	1000	864	900	86	90	64-125	4	20	
Bromobenzene	ug/kg	1000	777	805	78	80	70-125	4	20	
Bromochloromethane	ug/kg	1000	878	905	88	91	68-125	3	20	
Bromodichloromethane	ug/kg	1000	697	737	70	74	67-125	6	20	
Bromoform	ug/kg	1000	563	571	56	57	56-127	1	20	
Bromomethane	ug/kg	1000	680	750	68	75	34-137	10	20	
Carbon tetrachloride	ug/kg	1000	666	712	67	71	58-138	7	20	
Chlorobenzene	ug/kg	1000	781	793	78	79	72-125	2	20	
Chloroethane	ug/kg	1000	654	818	65	82	39-148	22	20	R1
Chloroform	ug/kg	1000	739	750	74	75	67-125	1	20	
Chloromethane	ug/kg	1000	675	753	68	75	54-125	11	20	
cis-1,2-Dichloroethene	ug/kg	1000	843	896	84	90	67-125	6	20	
cis-1,3-Dichloropropene	ug/kg	1000	768	803	77	80	62-127	4	20	
Dibromochloromethane	ug/kg	1000	655	680	65	68	67-125	4	20	LO
Dibromomethane	ug/kg	1000	771	812	77	81	63-129	5	20	
Dichlorodifluoromethane	ug/kg	1000	474	502	47	50	34-139	6	20	
Dichlorofluoromethane	ug/kg	1000	579	507	58	51	36-144	13	20	
Diethyl ether (Ethyl ether)	ug/kg	1000	656	648	66	65	51-125	1	20	
Ethylbenzene	ug/kg	1000	795	813	79	81	70-129	2	20	
Hexachloro-1,3-butadiene	ug/kg	1000	724	749	72	75	48-126	3	20	
Isopropylbenzene (Cumene)	ug/kg	1000	774	804	77	80	75-127	4	20	
Methyl-tert-butyl ether	ug/kg	1000	798	817	80	82	61-125	2	20	
Methylene Chloride	ug/kg	1000	777	787	78	79	60-126	1	20	
n-Butylbenzene	ug/kg	1000	796	795	80	79	67-125	0	20	
n-Propylbenzene	ug/kg	1000	786	815	79	81	72-133	4	20	
Naphthalene	ug/kg	1000	784	780	78	78	35-147	1	20	
p-Isopropyltoluene	ug/kg	1000	772	783	77	78	69-127	1	20	
sec-Butylbenzene	ug/kg	1000	819	827	82	83	70-127	1	20	
Styrene	ug/kg	1000	783	821	78	82	73-125	5	20	
tert-Butylbenzene	ug/kg	1000	790	794	79	79	71-130	1	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

LABORATORY CONTROL SAMPLE & LCSD: 2473200

2473201

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/kg	1000	831	875	83	88	66-135	5	20	
Tetrahydrofuran	ug/kg	10000	9100	9250	91	92	66-145	2	20	
Toluene	ug/kg	1000	858	867	86	87	69-125	1	20	
trans-1,2-Dichloroethene	ug/kg	1000	798	815	80	82	55-135	2	20	
trans-1,3-Dichloropropene	ug/kg	1000	762	772	76	77	67-125	1	20	
Trichloroethene	ug/kg	1000	850	931	85	93	62-141	9	20	
Trichlorofluoromethane	ug/kg	1000	702	872	70	87	38-150	22	20	R1
Vinyl chloride	ug/kg	1000	774	877	77	88	57-131	12	20	
Xylene (Total)	ug/kg	3000	2450	2460	82	82	73-128	1	20	
1,2-Dichloroethane-d4 (S)	%				85	84	75-129			
4-Bromofluorobenzene (S)	%				99	98	75-125			
Toluene-d8 (S)	%				100	100	75-125			

MATRIX SPIKE SAMPLE: 2473202

Parameter	Units	10372992033 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1310	1390	106	59-135	
1,1,1-Trichloroethane	ug/kg	ND	1310	1320	101	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1310	1490	114	40-149	
1,1,2-Trichloroethane	ug/kg	ND	1310	1410	108	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1310	1170	89	41-150	
1,1-Dichloroethane	ug/kg	ND	1310	1520	116	53-131	
1,1-Dichloroethene	ug/kg	ND	1310	1220	93	41-133	
1,1-Dichloropropene	ug/kg	ND	1310	1520	116	50-139	
1,2,3-Trichlorobenzene	ug/kg	ND	1310	1400	107	52-150	
1,2,3-Trichloropropane	ug/kg	ND	1310	1370	105	61-137	
1,2,4-Trichlorobenzene	ug/kg	ND	1310	1380	105	52-142	
1,2,4-Trimethylbenzene	ug/kg	ND	1310	1390	106	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	ND	3280	3130	95	47-143	
1,2-Dibromoethane (EDB)	ug/kg	ND	1310	1360	103	57-136	
1,2-Dichlorobenzene	ug/kg	ND	1310	1440	110	59-136	
1,2-Dichloroethane	ug/kg	ND	1310	1200	91	52-133	
1,2-Dichloropropane	ug/kg	ND	1310	1580	121	62-129	
1,3,5-Trimethylbenzene	ug/kg	ND	1310	1430	109	54-143	
1,3-Dichlorobenzene	ug/kg	ND	1310	1430	109	60-137	
1,3-Dichloropropane	ug/kg	ND	1310	1470	112	57-138	
1,4-Dichlorobenzene	ug/kg	ND	1310	1390	106	51-132	
2,2-Dichloropropane	ug/kg	ND	1310	1170	90	50-134	
2-Butanone (MEK)	ug/kg	ND	6550	7640	114	46-125	
2-Chlorotoluene	ug/kg	ND	1310	1340	102	60-141	
4-Chlorotoluene	ug/kg	ND	1310	1460	111	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	6550	7280	111	47-146	
Acetone	ug/kg	ND	6550	8430	128	45-148	
Allyl chloride	ug/kg	ND	1310	1290	98	50-135	
Benzene	ug/kg	ND	1310	1550	118	41-134	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

MATRIX SPIKE SAMPLE: 2473202		10372992033	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromobenzene	ug/kg	ND	1310	1380	105	59-134	
Bromochloromethane	ug/kg	ND	1310	1530	117	56-127	
Bromodichloromethane	ug/kg	ND	1310	1320	100	55-136	
Bromoform	ug/kg	ND	1310	1050	80	51-139	
Bromomethane	ug/kg	ND	1310	989	75	35-148	
Carbon tetrachloride	ug/kg	ND	1310	1240	94	50-140	
Chlorobenzene	ug/kg	ND	1310	1390	106	59-133	
Chloroethane	ug/kg	ND	1310	1010	77	30-150	
Chloroform	ug/kg	ND	1310	1350	103	58-128	
Chloromethane	ug/kg	ND	1310	957	73	38-125	
cis-1,2-Dichloroethene	ug/kg	ND	1310	1550	118	59-125	
cis-1,3-Dichloropropene	ug/kg	ND	1310	1400	107	57-133	
Dibromochloromethane	ug/kg	ND	1310	1220	93	54-141	
Dibromomethane	ug/kg	ND	1310	1390	106	53-134	
Dichlorodifluoromethane	ug/kg	ND	1310	464	35	30-125	
Dichlorofluoromethane	ug/kg	ND	1310	952	73	30-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	1310	1150	87	46-137	
Ethylbenzene	ug/kg	ND	1310	1420	109	56-141	
Hexachloro-1,3-butadiene	ug/kg	ND	1310	1320	101	45-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1310	1440	110	48-141	
Methyl-tert-butyl ether	ug/kg	ND	1310	1450	111	53-133	
Methylene Chloride	ug/kg	ND	1310	1380	101	42-135	
n-Butylbenzene	ug/kg	ND	1310	1460	111	52-140	
n-Propylbenzene	ug/kg	ND	1310	1440	110	57-142	
Naphthalene	ug/kg	ND	1310	1410	106	41-150	
p-Isopropyltoluene	ug/kg	ND	1310	1450	109	54-139	
sec-Butylbenzene	ug/kg	ND	1310	1510	115	30-150	
Styrene	ug/kg	ND	1310	1450	111	53-137	
tert-Butylbenzene	ug/kg	ND	1310	1470	112	59-138	
Tetrachloroethene	ug/kg	ND	1310	1470	112	53-138	
Tetrahydrofuran	ug/kg	ND	13100	16300	124	50-145	
Toluene	ug/kg	ND	1310	1550	117	55-134	
trans-1,2-Dichloroethene	ug/kg	ND	1310	1420	108	44-135	
trans-1,3-Dichloropropene	ug/kg	ND	1310	1300	99	59-139	
Trichloroethene	ug/kg	ND	1310	1550	118	52-143	
Trichlorofluoromethane	ug/kg	ND	1310	1010	77	30-150	
Vinyl chloride	ug/kg	ND	1310	1100	84	36-127	
Xylene (Total)	ug/kg	ND	3930	4360	111	56-137	
1,2-Dichloroethane-d4 (S)	%				85	75-129	
4-Bromofluorobenzene (S)	%				100	75-125	
Toluene-d8 (S)	%				98	75-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

SAMPLE DUPLICATE: 2473203

Parameter	Units	10372992034 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	<25.6		30	
1,1,1-Trichloroethane	ug/kg	ND	<27.0		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	<14.3		30	
1,1,2-Trichloroethane	ug/kg	ND	<14.0		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	<155		30	
1,1-Dichloroethane	ug/kg	ND	<25.1		30	
1,1-Dichloroethene	ug/kg	ND	<16.4		30	
1,1-Dichloropropene	ug/kg	ND	<19.5		30	
1,2,3-Trichlorobenzene	ug/kg	ND	<18.6		30	
1,2,3-Trichloropropane	ug/kg	ND	<66.9		30	
1,2,4-Trichlorobenzene	ug/kg	ND	<19.9		30	
1,2,4-Trimethylbenzene	ug/kg	ND	<14.2		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	<126		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	<24.3		30	
1,2-Dichlorobenzene	ug/kg	ND	<12.5		30	
1,2-Dichloroethane	ug/kg	ND	<20.4		30	
1,2-Dichloropropane	ug/kg	ND	<22.3		30	
1,3,5-Trimethylbenzene	ug/kg	ND	<49.5		30	
1,3-Dichlorobenzene	ug/kg	ND	<19.0		30	
1,3-Dichloropropane	ug/kg	ND	<77.0		30	
1,4-Dichlorobenzene	ug/kg	ND	<62.4		30	
2,2-Dichloropropane	ug/kg	ND	<68.4		30	
2-Butanone (MEK)	ug/kg	ND	<284		30	
2-Chlorotoluene	ug/kg	ND	<59.4		30	
4-Chlorotoluene	ug/kg	ND	<56.4		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	<142		30	
Acetone	ug/kg	ND	<1410		30	
Allyl chloride	ug/kg	ND	<185		30	
Benzene	ug/kg	ND	<18.6		30	
Bromobenzene	ug/kg	ND	<55.1		30	
Bromochloromethane	ug/kg	ND	<64.1		30	
Bromodichloromethane	ug/kg	ND	<60.2		30	
Bromoform	ug/kg	ND	<185		30	
Bromomethane	ug/kg	ND	<218		30	
Carbon tetrachloride	ug/kg	ND	<67.5		30	
Chlorobenzene	ug/kg	ND	<37.4		30	
Chloroethane	ug/kg	ND	<340		30	
Chloroform	ug/kg	ND	<105		30	
Chloromethane	ug/kg	ND	<104		30	
cis-1,2-Dichloroethene	ug/kg	ND	<80.0		30	
cis-1,3-Dichloropropene	ug/kg	ND	<98.1		30	
Dibromochloromethane	ug/kg	ND	<185		30	
Dibromomethane	ug/kg	ND	<83.9		30	
Dichlorodifluoromethane	ug/kg	ND	<65.8		30	
Dichlorofluoromethane	ug/kg	ND	<589		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	<88.6		30	
Ethylbenzene	ug/kg	ND	<68.4		30	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

SAMPLE DUPLICATE: 2473203

Parameter	Units	10372992034 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	<202		30	
Isopropylbenzene (Cumene)	ug/kg	ND	<76.6		30	
Methyl-tert-butyl ether	ug/kg	ND	<40.3		30	
Methylene Chloride	ug/kg	ND	<398		30	
n-Butylbenzene	ug/kg	ND	<52.0		30	
n-Propylbenzene	ug/kg	ND	<64.1		30	
Naphthalene	ug/kg	ND	<52.0		30	
p-Isopropyltoluene	ug/kg	ND	<35.7		30	
sec-Butylbenzene	ug/kg	ND	<50.8		30	
Styrene	ug/kg	ND	<55.9		30	
tert-Butylbenzene	ug/kg	ND	<68.0		30	
Tetrachloroethene	ug/kg	ND	<82.2		30	
Tetrahydrofuran	ug/kg	ND	<1070		30	
Toluene	ug/kg	ND	<68.4		30	
trans-1,2-Dichloroethene	ug/kg	ND	<104		30	
trans-1,3-Dichloropropene	ug/kg	ND	<73.1		30	
Trichloroethene	ug/kg	ND	<61.5		30	
Trichlorofluoromethane	ug/kg	ND	<216		30	
Vinyl chloride	ug/kg	ND	<27.6		30	
Xylene (Total)	ug/kg	ND	<172		30	
1,2-Dichloroethane-d4 (S)	%	88	90	3		
4-Bromofluorobenzene (S)	%	99	101	3		
Toluene-d8 (S)	%	96	99	1		

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

QC Batch: 451670 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
 Associated Lab Samples: 10373134004, 10373134005, 10373134006, 10373134007, 10373134008, 10373134009, 10373134010,  
 10373134011, 10373134012, 10373134013, 10373134014, 10373134015, 10373134016, 10373134017,  
 10373134018, 10373134019, 10373134020, 10373134021, 10373134022, 10373134023

METHOD BLANK: 2473204 Matrix: Solid  
 Associated Lab Samples: 10373134004, 10373134005, 10373134006, 10373134007, 10373134008, 10373134009, 10373134010,  
 10373134011, 10373134012, 10373134013, 10373134014, 10373134015, 10373134016, 10373134017,  
 10373134018, 10373134019, 10373134020, 10373134021, 10373134022, 10373134023

Parameter	Units	Blank Reporting		Analyzed	Qualifiers
		Result	Limit		
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/14/16 17:06	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/14/16 17:06	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/14/16 17:06	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/14/16 17:06	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/14/16 17:06	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/14/16 17:06	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/14/16 17:06	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/14/16 17:06	
1,2,3-Trichlorobenzene	ug/kg	<14.4	14.4	12/14/16 17:06	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/14/16 17:06	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/14/16 17:06	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/14/16 17:06	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/14/16 17:06	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/14/16 17:06	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/14/16 17:06	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/14/16 17:06	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/14/16 17:06	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/14/16 17:06	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/14/16 17:06	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/14/16 17:06	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/14/16 17:06	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/14/16 17:06	
2-Butanone (MEK)	ug/kg	<220	220	12/14/16 17:06	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/14/16 17:06	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/14/16 17:06	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/14/16 17:06	
Acetone	ug/kg	<1090	1090	12/14/16 17:06	
Allyl chloride	ug/kg	<143	143	12/14/16 17:06	
Benzene	ug/kg	<14.4	14.4	12/14/16 17:06	
Bromobenzene	ug/kg	<42.6	42.6	12/14/16 17:06	
Bromochloromethane	ug/kg	<49.6	49.6	12/14/16 17:06	
Bromodichloromethane	ug/kg	<46.6	46.6	12/14/16 17:06	
Bromoform	ug/kg	<144	144	12/14/16 17:06	
Bromomethane	ug/kg	<169	169	12/14/16 17:06	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/14/16 17:06	
Chlorobenzene	ug/kg	<29.0	29.0	12/14/16 17:06	
Chloroethane	ug/kg	<263	263	12/14/16 17:06	
Chloroform	ug/kg	<80.9	80.9	12/14/16 17:06	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

METHOD BLANK: 2473204

Matrix: Solid

Associated Lab Samples: 10373134004, 10373134005, 10373134006, 10373134007, 10373134008, 10373134009, 10373134010, 10373134011, 10373134012, 10373134013, 10373134014, 10373134015, 10373134016, 10373134017, 10373134018, 10373134019, 10373134020, 10373134021, 10373134022, 10373134023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/kg	<80.6	80.6	12/14/16 17:06	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/14/16 17:06	
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/14/16 17:06	
Dibromochloromethane	ug/kg	<143	143	12/14/16 17:06	
Dibromomethane	ug/kg	<64.9	64.9	12/14/16 17:06	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/14/16 17:06	
Dichlorofluoromethane	ug/kg	<456	456	12/14/16 17:06	
Diethyl ether (Ethyl ether)	ug/kg	<68.6	68.6	12/14/16 17:06	
Ethylbenzene	ug/kg	<52.9	52.9	12/14/16 17:06	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/14/16 17:06	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/14/16 17:06	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/14/16 17:06	
Methylene Chloride	ug/kg	<308	308	12/14/16 17:06	
n-Butylbenzene	ug/kg	<40.3	40.3	12/14/16 17:06	
n-Propylbenzene	ug/kg	<49.6	49.6	12/14/16 17:06	
Naphthalene	ug/kg	<40.3	40.3	12/14/16 17:06	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/14/16 17:06	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/14/16 17:06	
Styrene	ug/kg	<43.3	43.3	12/14/16 17:06	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/14/16 17:06	
Tetrachloroethene	ug/kg	<63.6	63.6	12/14/16 17:06	
Tetrahydrofuran	ug/kg	<826	826	12/14/16 17:06	
Toluene	ug/kg	<52.9	52.9	12/14/16 17:06	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/14/16 17:06	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/14/16 17:06	
Trichloroethene	ug/kg	<47.6	47.6	12/14/16 17:06	
Trichlorofluoromethane	ug/kg	<167	167	12/14/16 17:06	
Vinyl chloride	ug/kg	<21.4	21.4	12/14/16 17:06	
Xylene (Total)	ug/kg	<133	133	12/14/16 17:06	
1,2-Dichloroethane-d4 (S)	%	103	75-129	12/14/16 17:06	
4-Bromofluorobenzene (S)	%	100	75-125	12/14/16 17:06	
Toluene-d8 (S)	%	101	75-125	12/14/16 17:06	

LABORATORY CONTROL SAMPLE & LCSD: 2473205

2473206

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	834	913	83	91	71-127	9	20	
1,1,1-Trichloroethane	ug/kg	1000	931	1030	93	103	64-132	10	20	
1,1,2,2-Tetrachloroethane	ug/kg	1000	873	927	87	93	50-138	6	20	
1,1,2-Trichloroethane	ug/kg	1000	876	933	88	93	69-126	6	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	823	904	82	90	53-144	9	20	
1,1-Dichloroethane	ug/kg	1000	909	993	91	99	61-134	9	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

LABORATORY CONTROL SAMPLE & LCSD: 2473205		2473206									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1,1-Dichloroethene	ug/kg	1000	866	995	87	100	57-135	14	20		
1,1-Dichloropropene	ug/kg	1000	945	1030	94	103	59-133	9	20		
1,2,3-Trichlorobenzene	ug/kg	1000	793	895	79	90	32-150	12	20		
1,2,3-Trichloropropane	ug/kg	1000	884	930	88	93	62-130	5	20		
1,2,4-Trichlorobenzene	ug/kg	1000	777	875	78	87	38-138	12	20		
1,2,4-Trimethylbenzene	ug/kg	1000	889	983	89	98	70-127	10	20		
1,2-Dibromo-3-chloropropane	ug/kg	2500	1920	2040	77	82	40-141	6	20		
1,2-Dibromoethane (EDB)	ug/kg	1000	825	890	83	89	69-130	8	20		
1,2-Dichlorobenzene	ug/kg	1000	847	956	85	96	72-125	12	20		
1,2-Dichloroethane	ug/kg	1000	872	949	87	95	62-125	8	20		
1,2-Dichloropropane	ug/kg	1000	907	979	91	98	67-126	8	20		
1,3,5-Trimethylbenzene	ug/kg	1000	889	1010	89	101	71-129	12	20		
1,3-Dichlorobenzene	ug/kg	1000	847	932	85	93	72-126	10	20		
1,3-Dichloropropane	ug/kg	1000	842	933	84	93	70-125	10	20		
1,4-Dichlorobenzene	ug/kg	1000	821	931	82	93	70-126	13	20		
2,2-Dichloropropane	ug/kg	1000	824	929	82	93	48-134	12	20		
2-Butanone (MEK)	ug/kg	5000	4750	4780	95	96	38-149	1	20		
2-Chlorotoluene	ug/kg	1000	881	988	88	99	71-129	11	20		
4-Chlorotoluene	ug/kg	1000	888	968	89	97	72-128	9	20		
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5120	5330	102	107	52-145	4	20		
Acetone	ug/kg	5000	4290	4810	86	96	65-142	11	20		
Allyl chloride	ug/kg	1000	966	1020	97	102	54-125	6	20		
Benzene	ug/kg	1000	905	1000	91	100	64-125	10	20		
Bromobenzene	ug/kg	1000	894	968	89	97	70-125	8	20		
Bromochloromethane	ug/kg	1000	860	959	86	96	68-125	11	20		
Bromodichloromethane	ug/kg	1000	844	943	84	94	67-125	11	20		
Bromoform	ug/kg	1000	756	783	76	78	56-127	3	20		
Bromomethane	ug/kg	1000	815	770	82	77	34-137	6	20		
Carbon tetrachloride	ug/kg	1000	835	931	84	93	58-138	11	20		
Chlorobenzene	ug/kg	1000	888	960	89	96	72-125	8	20		
Chloroethane	ug/kg	1000	1210	1110	121	111	39-148	9	20	CH	
Chloroform	ug/kg	1000	857	952	86	95	67-125	10	20		
Chloromethane	ug/kg	1000	899	833	90	83	54-125	8	20		
cis-1,2-Dichloroethene	ug/kg	1000	869	950	87	95	67-125	9	20		
cis-1,3-Dichloropropene	ug/kg	1000	862	938	86	94	62-127	8	20		
Dibromochloromethane	ug/kg	1000	842	949	84	95	67-125	12	20		
Dibromomethane	ug/kg	1000	824	888	82	89	63-129	8	20		
Dichlorodifluoromethane	ug/kg	1000	730	694	73	69	34-139	5	20		
Dichlorofluoromethane	ug/kg	1000	1220	1130	122	113	36-144	8	20		
Diethyl ether (Ethyl ether)	ug/kg	1000	838	912	84	91	51-125	8	20		
Ethylbenzene	ug/kg	1000	920	1010	92	101	70-129	9	20		
Hexachloro-1,3-butadiene	ug/kg	1000	816	972	82	97	48-126	17	20		
Isopropylbenzene (Cumene)	ug/kg	1000	926	1030	93	103	75-127	11	20		
Methyl-tert-butyl ether	ug/kg	1000	844	923	84	92	61-125	9	20		
Methylene Chloride	ug/kg	1000	872	963	87	96	60-126	10	20		
n-Butylbenzene	ug/kg	1000	883	1020	88	102	67-125	14	20		
n-Propylbenzene	ug/kg	1000	951	1070	95	107	72-133	12	20		

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

LABORATORY CONTROL SAMPLE & LCSD: 2473205

Parameter	Units	2473206								
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Naphthalene	ug/kg	1000	858	925	86	93	35-147	8	20	
p-Isopropyltoluene	ug/kg	1000	904	1020	90	102	69-127	12	20	
sec-Butylbenzene	ug/kg	1000	925	1050	93	105	70-127	12	20	
Styrene	ug/kg	1000	882	949	88	95	73-125	7	20	
tert-Butylbenzene	ug/kg	1000	885	1010	89	101	71-130	13	20	
Tetrachloroethane	ug/kg	1000	899	1000	90	100	66-135	11	20	
Tetrahydrofuran	ug/kg	10000	7820	8730	78	87	66-145	11	20	
Toluene	ug/kg	1000	893	981	89	98	69-125	9	20	
trans-1,2-Dichloroethene	ug/kg	1000	897	1020	90	102	55-135	13	20	
trans-1,3-Dichloropropene	ug/kg	1000	845	946	84	95	67-125	11	20	
Trichloroethene	ug/kg	1000	861	961	86	96	62-141	11	20	
Trichlorofluoromethane	ug/kg	1000	1080	990	108	99	38-150	9	20	
Vinyl chloride	ug/kg	1000	989	908	99	91	57-131	8	20	
Xylene (Total)	ug/kg	3000	2750	2990	92	100	73-128	8	20	
1,2-Dichloroethane-d4 (S)	%				102	105	75-129			
4-Bromofluorobenzene (S)	%				100	100	75-125			
Toluene-d8 (S)	%				103	103	75-125			

MATRIX SPIKE SAMPLE: 2473207

Parameter	Units	10373134004					
		Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<28.4	1600	1500	94	59-135	
1,1,1-Trichloroethane	ug/kg	<30.0	1600	1650	103	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	<15.9	1600	1570	98	40-149	
1,1,2-Trichloroethane	ug/kg	<15.5	1600	1570	98	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	<172	1600	1350	84	41-150	
1,1-Dichloroethane	ug/kg	<27.9	1600	1570	99	53-131	
1,1-Dichloroethene	ug/kg	<18.2	1600	1480	93	41-133	
1,1-Dichloropropene	ug/kg	<21.7	1600	1660	104	50-139	
1,2,3-Trichlorobenzene	ug/kg	<20.7	1600	1480	93	52-150	
1,2,3-Trichloropropane	ug/kg	<74.4	1600	1510	95	61-137	
1,2,4-Trichlorobenzene	ug/kg	<22.1	1600	1460	91	52-142	
1,2,4-Trimethylbenzene	ug/kg	32.8	1600	1600	98	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	<140	3990	3510	88	47-143	
1,2-Dibromoethane (EDB)	ug/kg	<27.0	1600	1470	92	57-136	
1,2-Dichlorobenzene	ug/kg	<13.9	1600	1530	96	59-136	
1,2-Dichloroethane	ug/kg	<22.7	1600	1500	94	52-133	
1,2-Dichloropropane	ug/kg	<24.9	1600	1560	98	62-129	
1,3,5-Trimethylbenzene	ug/kg	<55.0	1600	1640	101	54-143	
1,3-Dichlorobenzene	ug/kg	<21.1	1600	1510	94	60-137	
1,3-Dichloropropane	ug/kg	<85.6	1600	1510	95	57-138	
1,4-Dichlorobenzene	ug/kg	<69.4	1600	1470	92	51-132	
2,2-Dichloropropane	ug/kg	<76.1	1600	1460	92	50-134	
2-Butanone (MEK)	ug/kg	<316	7980	7870	99	46-125	
2-Chlorotoluene	ug/kg	<66.0	1600	1560	98	60-141	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

MATRIX SPIKE SAMPLE: 2473207		10373134004	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
4-Chlorotoluene	ug/kg	<62.7	1600	1570	98	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	<158	7980	9190	115	47-146	
Acetone	ug/kg	<1570	7980	7070	89	45-148	
Allyl chloride	ug/kg	<205	1600	1590	100	50-135	
Benzene	ug/kg	67900	1600	41200	-1670	41-134	E,M1
Bromobenzene	ug/kg	<61.2	1600	1570	99	59-134	
Bromochloromethane	ug/kg	<71.3	1600	1560	98	56-127	
Bromodichloromethane	ug/kg	<67.0	1600	1560	98	55-136	
Bromoform	ug/kg	<206	1600	1360	85	51-139	
Bromomethane	ug/kg	<243	1600	1240	76	35-148	
Carbon tetrachloride	ug/kg	<75.1	1600	1470	92	50-140	
Chlorobenzene	ug/kg	<41.6	1600	1560	98	59-133	
Chloroethane	ug/kg	<378	1600	1800	113	30-150	CH
Chloroform	ug/kg	<116	1600	1520	95	58-128	
Chloromethane	ug/kg	<116	1600	1250	78	38-125	
cis-1,2-Dichloroethene	ug/kg	<89.0	1600	1540	97	59-125	
cis-1,3-Dichloropropene	ug/kg	<109	1600	1500	94	57-133	
Dibromochloromethane	ug/kg	<205	1600	1540	97	54-141	
Dibromomethane	ug/kg	<93.3	1600	1470	92	53-134	
Dichlorodifluoromethane	ug/kg	<73.2	1600	757	47	30-125	
Dichlorofluoromethane	ug/kg	<655	1600	1790	112	30-150	
Diethyl ether (Ethyl ether)	ug/kg	<98.5	1600	1490	94	46-137	
Ethylbenzene	ug/kg	115	1600	1730	101	56-141	
Hexachloro-1,3-butadiene	ug/kg	<225	1600	1560	98	45-150	
Isopropylbenzene (Cumene)	ug/kg	<85.1	1600	1660	104	48-141	
Methyl-tert-butyl ether	ug/kg	<44.8	1600	1560	98	53-133	
Methylene Chloride	ug/kg	<443	1600	1440	88	42-135	
n-Butylbenzene	ug/kg	<57.9	1600	1600	100	52-140	
n-Propylbenzene	ug/kg	<71.3	1600	1700	107	57-142	
Naphthalene	ug/kg	<57.9	1600	1550	96	41-150	
p-Isopropyltoluene	ug/kg	<39.7	1600	1610	101	54-139	
sec-Butylbenzene	ug/kg	<56.4	1600	1680	105	30-150	
Styrene	ug/kg	<62.2	1600	1540	97	53-137	
tert-Butylbenzene	ug/kg	<75.6	1600	1640	103	59-138	
Tetrachloroethene	ug/kg	<91.4	1600	1570	99	53-138	
Tetrahydrofuran	ug/kg	<1190	16000	13800	86	50-145	
Toluene	ug/kg	<76.1	1600	1580	99	55-134	
trans-1,2-Dichloroethene	ug/kg	<115	1600	1590	99	44-135	
trans-1,3-Dichloropropene	ug/kg	<81.3	1600	1520	95	59-139	
Trichloroethene	ug/kg	<68.4	1600	1530	96	52-143	
Trichlorofluoromethane	ug/kg	<240	1600	1590	100	30-150	
Vinyl chloride	ug/kg	<30.7	1600	1370	86	36-127	
Xylene (Total)	ug/kg	806	4790	5500	98	56-137	
1,2-Dichloroethane-d4 (S)	%				106	75-129	
4-Bromofluorobenzene (S)	%				101	75-125	
Toluene-d8 (S)	%				104	75-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

SAMPLE DUPLICATE: 2473208

Parameter	Units	10373134005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<26.8	<32.4		30	
1,1,1-Trichloroethane	ug/kg	<28.3	<34.2		30	
1,1,2,2-Tetrachloroethane	ug/kg	<15.0	<18.2		30	
1,1,2-Trichloroethane	ug/kg	<14.6	<17.7		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	<162	<196		30	
1,1-Dichloroethane	ug/kg	<26.3	<31.8		30	
1,1-Dichloroethene	ug/kg	<17.2	<20.8		30	
1,1-Dichloropropene	ug/kg	<20.5	<24.7		30	
1,2,3-Trichlorobenzene	ug/kg	<19.5	<23.6		30	
1,2,3-Trichloropropane	ug/kg	<70.2	<84.8		30	
1,2,4-Trichlorobenzene	ug/kg	<20.9	<25.2		30	
1,2,4-Trimethylbenzene	ug/kg	<14.9	<18.0		30	
1,2-Dibromo-3-chloropropane	ug/kg	<132	<160		30	
1,2-Dibromoethane (EDB)	ug/kg	<25.5	<30.8		30	
1,2-Dichlorobenzene	ug/kg	<13.1	<15.8		30	
1,2-Dichloroethane	ug/kg	<21.4	<25.9		30	
1,2-Dichloropropane	ug/kg	<23.4	<28.3		30	
1,3,5-Trimethylbenzene	ug/kg	<51.9	<62.7		30	
1,3-Dichlorobenzene	ug/kg	<19.9	<24.1		30	
1,3-Dichloropropane	ug/kg	<80.8	<97.6		30	
1,4-Dichlorobenzene	ug/kg	<65.4	<79.1		30	
2,2-Dichloropropane	ug/kg	<71.8	<86.7		30	
2-Butanone (MEK)	ug/kg	<298	<360		30	
2-Chlorotoluene	ug/kg	<62.3	<75.2		30	
4-Chlorotoluene	ug/kg	<59.1	<71.4		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	<149	<180		30	
Acetone	ug/kg	<1480	<1790		30	
Allyl chloride	ug/kg	<194	<234		30	
Benzene	ug/kg	<19.5	37.2		30	
Bromobenzene	ug/kg	<57.8	<69.8		30	
Bromochloromethane	ug/kg	<67.2	<81.2		30	
Bromodichloromethane	ug/kg	<63.2	<76.3		30	
Bromoform	ug/kg	<194	<235		30	
Bromomethane	ug/kg	<229	<276		30	
Carbon tetrachloride	ug/kg	<70.8	<85.6		30	
Chlorobenzene	ug/kg	<39.3	<47.4		30	
Chloroethane	ug/kg	<357	<431		30	
Chloroform	ug/kg	<110	<132		30	
Chloromethane	ug/kg	<109	<132		30	
cis-1,2-Dichloroethene	ug/kg	<83.9	<101		30	
cis-1,3-Dichloropropene	ug/kg	<103	<124		30	
Dibromochloromethane	ug/kg	<194	<234		30	
Dibromomethane	ug/kg	<88.0	<106		30	
Dichlorodifluoromethane	ug/kg	<69.0	<83.4		30	
Dichlorofluoromethane	ug/kg	<618	<747		30	
Diethyl ether (Ethyl ether)	ug/kg	<93.0	<112		30	
Ethylbenzene	ug/kg	<71.8	<86.7		30	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

SAMPLE DUPLICATE: 2473208

Parameter	Units	10373134005 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<212	<256		30	
Isopropylbenzene (Cumene)	ug/kg	<80.3	<97.0		30	
Methyl-tert-butyl ether	ug/kg	<42.2	<51.0		30	
Methylene Chloride	ug/kg	<418	<505		30	
n-Butylbenzene	ug/kg	<54.6	<66.0		30	
n-Propylbenzene	ug/kg	<67.2	<81.2		30	
Naphthalene	ug/kg	<54.6	<66.0		30	
p-Isopropyltoluene	ug/kg	<37.5	<45.3		30	
sec-Butylbenzene	ug/kg	<53.2	<64.3		30	
Styrene	ug/kg	<58.7	<70.9		30	
tert-Butylbenzene	ug/kg	<71.3	<86.1		30	
Tetrachloroethene	ug/kg	<86.2	<104		30	
Tetrahydrofuran	ug/kg	<1120	<1350		30	
Toluene	ug/kg	<71.8	<86.7		30	
trans-1,2-Dichloroethene	ug/kg	<109	<131		30	
trans-1,3-Dichloropropene	ug/kg	<76.7	<92.7		30	
Trichloroethene	ug/kg	<64.5	<78.0		30	
Trichlorofluoromethane	ug/kg	<227	<274		30	
Vinyl chloride	ug/kg	<29.0	<35.0		30	
Xylene (Total)	ug/kg	<181	<218		30	
1,2-Dichloroethane-d4 (S)	%.	104	105	20		
4-Bromofluorobenzene (S)	%.	99	102	22		
Toluene-d8 (S)	%.	102	102	18		

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

QC Batch: 451924 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
 Associated Lab Samples: 10373134024, 10373134025, 10373134026, 10373134027, 10373134028, 10373134029, 10373134030, 10373134031

METHOD BLANK: 2474461 Matrix: Solid  
 Associated Lab Samples: 10373134024, 10373134025, 10373134026, 10373134027, 10373134028, 10373134029, 10373134030, 10373134031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/16/16 01:43	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/16/16 01:43	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/16/16 01:43	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/16/16 01:43	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/16/16 01:43	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/16/16 01:43	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/16/16 01:43	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/16/16 01:43	
1,2,3-Trichlorobenzene	ug/kg	<14.4	14.4	12/16/16 01:43	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/16/16 01:43	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/16/16 01:43	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/16/16 01:43	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/16/16 01:43	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/16/16 01:43	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/16/16 01:43	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/16/16 01:43	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/16/16 01:43	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/16/16 01:43	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/16/16 01:43	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/16/16 01:43	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/16/16 01:43	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/16/16 01:43	
2-Butanone (MEK)	ug/kg	<220	220	12/16/16 01:43	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/16/16 01:43	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/16/16 01:43	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/16/16 01:43	
Acetone	ug/kg	<1090	1090	12/16/16 01:43	
Allyl chloride	ug/kg	<143	143	12/16/16 01:43	
Benzene	ug/kg	<14.4	14.4	12/16/16 01:43	
Bromobenzene	ug/kg	<42.6	42.6	12/16/16 01:43	
Bromochloromethane	ug/kg	<49.6	49.6	12/16/16 01:43	
Bromodichloromethane	ug/kg	<46.6	46.6	12/16/16 01:43	
Bromoform	ug/kg	<144	144	12/16/16 01:43	
Bromomethane	ug/kg	<169	169	12/16/16 01:43	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/16/16 01:43	
Chlorobenzene	ug/kg	<29.0	29.0	12/16/16 01:43	
Chloroethane	ug/kg	<263	263	12/16/16 01:43	
Chloroform	ug/kg	<80.9	80.9	12/16/16 01:43	
Chloromethane	ug/kg	<80.6	80.6	12/16/16 01:43	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/16/16 01:43	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

METHOD BLANK: 2474461

Matrix: Solid

Associated Lab Samples: 10373134024, 10373134025, 10373134026, 10373134027, 10373134028, 10373134029, 10373134030, 10373134031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/16/16 01:43	
Dibromochloromethane	ug/kg	<143	143	12/16/16 01:43	
Dibromomethane	ug/kg	<64.9	64.9	12/16/16 01:43	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/16/16 01:43	
Dichlorofluoromethane	ug/kg	<456	456	12/16/16 01:43	
Diethyl ether (Ethyl ether)	ug/kg	<68.6	68.6	12/16/16 01:43	
Ethylbenzene	ug/kg	<52.9	52.9	12/16/16 01:43	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/16/16 01:43	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/16/16 01:43	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/16/16 01:43	
Methylene Chloride	ug/kg	<308	308	12/16/16 01:43	
n-Butylbenzene	ug/kg	<40.3	40.3	12/16/16 01:43	
n-Propylbenzene	ug/kg	<49.6	49.6	12/16/16 01:43	
Naphthalene	ug/kg	<40.3	40.3	12/16/16 01:43	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/16/16 01:43	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/16/16 01:43	
Styrene	ug/kg	<43.3	43.3	12/16/16 01:43	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/16/16 01:43	
Tetrachloroethene	ug/kg	<63.6	63.6	12/16/16 01:43	
Tetrahydrofuran	ug/kg	<826	826	12/16/16 01:43	
Toluene	ug/kg	<52.9	52.9	12/16/16 01:43	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/16/16 01:43	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/16/16 01:43	
Trichloroethene	ug/kg	<47.6	47.6	12/16/16 01:43	
Trichlorofluoromethane	ug/kg	<167	167	12/16/16 01:43	
Vinyl chloride	ug/kg	<21.4	21.4	12/16/16 01:43	
Xylene (Total)	ug/kg	<133	133	12/16/16 01:43	
1,2-Dichloroethane-d4 (S)	%	105	75-129	12/16/16 01:43	
4-Bromofluorobenzene (S)	%	100	75-125	12/16/16 01:43	
Toluene-d8 (S)	%	101	75-125	12/16/16 01:43	

LABORATORY CONTROL SAMPLE: 2474462

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	934	93	71-127	
1,1,1-Trichloroethane	ug/kg	1000	1020	102	64-132	
1,1,2,2-Tetrachloroethane	ug/kg	1000	980	98	50-138	
1,1,2-Trichloroethane	ug/kg	1000	995	100	69-126	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	945	94	53-144	
1,1-Dichloroethane	ug/kg	1000	998	100	61-134	
1,1-Dichloroethene	ug/kg	1000	977	98	57-135	
1,1-Dichloropropene	ug/kg	1000	1070	107	59-133	
1,2,3-Trichlorobenzene	ug/kg	1000	954	95	32-150	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

LABORATORY CONTROL SAMPLE: 2474462

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	1000	996	100	62-130	
1,2,4-Trichlorobenzene	ug/kg	1000	901	90	38-138	
1,2,4-Trimethylbenzene	ug/kg	1000	960	96	70-127	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2300	92	40-141	
1,2-Dibromoethane (EDB)	ug/kg	1000	934	93	69-130	
1,2-Dichlorobenzene	ug/kg	1000	967	97	72-125	
1,2-Dichloroethane	ug/kg	1000	986	99	62-125	
1,2-Dichloropropane	ug/kg	1000	1020	102	67-126	
1,3,5-Trimethylbenzene	ug/kg	1000	941	94	71-129	
1,3-Dichlorobenzene	ug/kg	1000	920	92	72-126	
1,3-Dichloropropane	ug/kg	1000	974	97	70-125	
1,4-Dichlorobenzene	ug/kg	1000	932	93	70-126	
2,2-Dichloropropane	ug/kg	1000	770	77	48-134	
2-Butanone (MEK)	ug/kg	5000	5550	111	38-149	
2-Chlorotoluene	ug/kg	1000	962	96	71-129	
4-Chlorotoluene	ug/kg	1000	964	96	72-128	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5980	120	52-145	
Acetone	ug/kg	5000	5030	101	65-142	
Allyl chloride	ug/kg	1000	1000	100	54-125	
Benzene	ug/kg	1000	1010	101	64-125	
Bromobenzene	ug/kg	1000	952	95	70-125	
Bromochloromethane	ug/kg	1000	1020	102	68-125	
Bromodichloromethane	ug/kg	1000	988	99	67-125	
Bromoform	ug/kg	1000	808	81	56-127	
Bromomethane	ug/kg	1000	821	82	34-137	
Carbon tetrachloride	ug/kg	1000	957	96	58-138	
Chlorobenzene	ug/kg	1000	963	96	72-125	
Chloroethane	ug/kg	1000	1230	123	39-148	
Chloroform	ug/kg	1000	969	97	67-125	
Chloromethane	ug/kg	1000	935	94	54-125	
cis-1,2-Dichloroethene	ug/kg	1000	977	98	67-125	
cis-1,3-Dichloropropene	ug/kg	1000	959	96	62-127	
Dibromochloromethane	ug/kg	1000	974	97	67-125	
Dibromomethane	ug/kg	1000	951	95	63-129	
Dichlorodifluoromethane	ug/kg	1000	738	74	34-139	
Dichlorofluoromethane	ug/kg	1000	1210	121	36-144	
Diethyl ether (Ethyl ether)	ug/kg	1000	939	94	51-125	
Ethylbenzene	ug/kg	1000	1020	102	70-129	
Hexachloro-1,3-butadiene	ug/kg	1000	874	87	48-126	
Isopropylbenzene (Cumene)	ug/kg	1000	1000	100	75-127	
Methyl-tert-butyl ether	ug/kg	1000	987	99	61-125	
Methylene Chloride	ug/kg	1000	1020	102	60-126	
n-Butylbenzene	ug/kg	1000	925	93	67-125	
n-Propylbenzene	ug/kg	1000	1000	100	72-133	
Naphthalene	ug/kg	1000	994	99	35-147	
p-Isopropyltoluene	ug/kg	1000	925	92	69-127	
sec-Butylbenzene	ug/kg	1000	977	98	70-127	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

LABORATORY CONTROL SAMPLE: 2474462

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/kg	1000	963	96	73-125	
tert-Butylbenzene	ug/kg	1000	951	95	71-130	
Tetrachloroethene	ug/kg	1000	980	98	66-135	
Tetrahydrofuran	ug/kg	10000	8620	86	66-145	
Toluene	ug/kg	1000	992	99	69-125	
trans-1,2-Dichloroethene	ug/kg	1000	1040	104	55-135	
trans-1,3-Dichloropropene	ug/kg	1000	962	96	67-125	
Trichloroethene	ug/kg	1000	976	98	62-141	
Trichlorofluoromethane	ug/kg	1000	1100	110	38-150	
Vinyl chloride	ug/kg	1000	1040	104	57-131	
Xylene (Total)	ug/kg	3000	2970	99	73-128	
1,2-Dichloroethane-d4 (S)	%			103	75-129	
4-Bromofluorobenzene (S)	%			98	75-125	
Toluene-d8 (S)	%			102	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2474463 2474464

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		10373298007 Result	Spike Conc.	MSD Spike Conc.	MS Result							
1,1,1,2-Tetrachloroethane	ug/kg	ND	1040	1070	1050	1060	102	99	59-135	0	30	
1,1,1-Trichloroethane	ug/kg	ND	1040	1070	1120	1150	107	107	51-137	3	30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1040	1070	1110	1050	107	98	40-149	6	30	
1,1,2-Trichloroethane	ug/kg	ND	1040	1070	1090	1060	105	99	54-144	3	30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1040	1070	999	1060	96	99	41-150	6	30	
1,1-Dichloroethane	ug/kg	ND	1040	1070	1100	1110	106	103	53-131	1	30	
1,1-Dichloroethene	ug/kg	ND	1040	1070	1080	1050	104	98	41-133	3	30	
1,1-Dichloropropene	ug/kg	ND	1040	1070	1210	1200	117	112	50-139	1	30	
1,2,3-Trichlorobenzene	ug/kg	ND	1040	1070	1040	1040	100	97	52-150	0	30	
1,2,3-Trichloropropane	ug/kg	ND	1040	1070	1070	1060	103	99	61-137	1	30	
1,2,4-Trichlorobenzene	ug/kg	ND	1040	1070	993	1010	96	94	52-142	2	30	
1,2,4-Trimethylbenzene	ug/kg	ND	1040	1070	1050	1100	101	103	56-142	5	30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2600	2670	2620	2420	101	91	47-143	8	30	
1,2-Dibromoethane (EDB)	ug/kg	ND	1040	1070	1030	1010	99	94	57-136	2	30	
1,2-Dichlorobenzene	ug/kg	ND	1040	1070	1050	1090	101	102	59-136	4	30	
1,2-Dichloroethane	ug/kg	ND	1040	1070	1080	1090	104	102	52-133	0	30	
1,2-Dichloropropane	ug/kg	ND	1040	1070	1150	1140	111	106	62-129	2	30	
1,3,5-Trimethylbenzene	ug/kg	ND	1040	1070	1050	1100	101	103	54-143	5	30	
1,3-Dichlorobenzene	ug/kg	ND	1040	1070	1030	1070	99	100	60-137	5	30	
1,3-Dichloropropane	ug/kg	ND	1040	1070	1100	1070	106	100	57-138	3	30	
1,4-Dichlorobenzene	ug/kg	ND	1040	1070	1020	1070	99	100	51-132	4	30	
2,2-Dichloropropane	ug/kg	ND	1040	1070	862	860	83	80	50-134	0	30	
2-Butanone (MEK)	ug/kg	ND	5200	5350	6100	5780	118	108	46-125	5	30	
2-Chlorotoluene	ug/kg	ND	1040	1070	1060	1110	102	104	60-141	5	30	
4-Chlorotoluene	ug/kg	ND	1040	1070	1050	1120	102	104	65-135	6	30	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Parameter	Units	10373298007		2474463		2474464		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5200	5350	6900	6260	133	117	47-146	10	30		
Acetone	ug/kg	ND	5200	5350	5270	5420	101	101	45-148	3	30		
Allyl chloride	ug/kg	ND	1040	1070	1130	1120	108	105	50-135	0	30		
Benzene	ug/kg	ND	1040	1070	1120	1110	108	104	41-134	0	30		
Bromobenzene	ug/kg	ND	1040	1070	1060	1080	102	101	59-134	2	30		
Bromochloromethane	ug/kg	ND	1040	1070	1110	1150	106	108	56-127	4	30		
Bromodichloromethane	ug/kg	ND	1040	1070	1100	1120	106	105	55-136	2	30		
Bromoform	ug/kg	ND	1040	1070	955	917	92	86	51-139	4	30		
Bromomethane	ug/kg	ND	1040	1070	596	694	56	63	35-148	15	30		
Carbon tetrachloride	ug/kg	ND	1040	1070	1070	1090	103	102	50-140	1	30		
Chlorobenzene	ug/kg	ND	1040	1070	1080	1070	104	100	59-133	1	30		
Chloroethane	ug/kg	ND	1040	1070	773	1040	74	97	30-150	30	30		
Chloroform	ug/kg	ND	1040	1070	1070	1090	103	101	58-128	1	30		
Chloromethane	ug/kg	ND	1040	1070	603	815	58	76	38-125	30	30		
cis-1,2-Dichloroethene	ug/kg	ND	1040	1070	1060	1090	102	102	59-125	3	30		
cis-1,3-Dichloropropene	ug/kg	ND	1040	1070	1060	1070	102	100	57-133	0	30		
Dibromochloromethane	ug/kg	ND	1040	1070	1110	1080	107	101	54-141	3	30		
Dibromomethane	ug/kg	ND	1040	1070	1040	1050	101	98	53-134	1	30		
Dichlorodifluoromethane	ug/kg	ND	1040	1070	405	602	39	56	30-125	39	30 R1		
Dichlorofluoromethane	ug/kg	ND	1040	1070	738	1090	71	102	30-150	38	30 R1		
Diethyl ether (Ethyl ether)	ug/kg	ND	1040	1070	1060	1050	102	98	46-137	1	30		
Ethylbenzene	ug/kg	ND	1040	1070	1140	1160	110	108	56-141	1	30		
Hexachloro-1,3-butadiene	ug/kg	ND	1040	1070	981	1000	94	94	45-150	2	30		
Isopropylbenzene (Cumene)	ug/kg	ND	1040	1070	1130	1150	109	107	48-141	2	30		
Methyl-tert-butyl ether	ug/kg	ND	1040	1070	1100	1080	106	101	53-133	2	30		
Methylene Chloride	ug/kg	ND	1040	1070	1100	1080	104	99	42-135	2	30		
n-Butylbenzene	ug/kg	ND	1040	1070	1050	1070	101	100	52-140	2	30		
n-Propylbenzene	ug/kg	ND	1040	1070	1100	1160	106	108	57-142	5	30		
Naphthalene	ug/kg	ND	1040	1070	1150	1100	111	103	41-150	5	30		
p-Isopropyltoluene	ug/kg	ND	1040	1070	1030	1080	99	101	54-139	5	30		
sec-Butylbenzene	ug/kg	ND	1040	1070	1080	1140	104	107	30-150	5	30		
Styrene	ug/kg	ND	1040	1070	1090	1090	105	101	53-137	1	30		
tert-Butylbenzene	ug/kg	ND	1040	1070	1050	1120	102	104	59-138	6	30		
Tetrachloroethene	ug/kg	ND	1040	1070	1100	1090	106	102	53-138	1	30		
Tetrahydrofuran	ug/kg	ND	10400	10700	9420	9250	91	86	50-145	2	30		
Toluene	ug/kg	ND	1040	1070	1100	1080	106	101	55-134	2	30		
trans-1,2-Dichloroethene	ug/kg	ND	1040	1070	1110	1130	107	106	44-135	2	30		
trans-1,3-Dichloropropene	ug/kg	ND	1040	1070	1070	1060	103	99	59-139	1	30		
Trichloroethene	ug/kg	ND	1040	1070	1080	1090	104	102	52-143	1	30		
Trichlorofluoromethane	ug/kg	ND	1040	1070	629	894	61	84	30-150	35	30 R1		
Vinyl chloride	ug/kg	ND	1040	1070	613	864	59	81	36-127	34	30 R1		
Xylene (Total)	ug/kg	ND	3110	3210	3300	3330	106	104	56-137	1	30		
1,2-Dichloroethane-d4 (S)	%						108	103	75-129				
4-Bromofluorobenzene (S)	%						99	99	75-125				
Toluene-d8 (S)	%						103	101	75-125				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

QC Batch: 451739 Analysis Method: EPA 8270D by SIM  
 QC Batch Method: EPA 3550 Analysis Description: 8270D Solid PAH by SIM MSSV  
 Associated Lab Samples: 10373134001, 10373134002, 10373134003, 10373134004, 10373134005, 10373134006, 10373134007,  
 10373134008, 10373134009, 10373134010, 10373134011, 10373134012, 10373134013, 10373134014,  
 10373134015, 10373134016, 10373134017, 10373134018, 10373134019, 10373134020

METHOD BLANK: 2473476

Matrix: Solid

Associated Lab Samples: 10373134001, 10373134002, 10373134003, 10373134004, 10373134005, 10373134006, 10373134007,  
 10373134008, 10373134009, 10373134010, 10373134011, 10373134012, 10373134013, 10373134014,  
 10373134015, 10373134016, 10373134017, 10373134018, 10373134019, 10373134020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	<1.3	1.3	12/20/16 11:34	
Acenaphthylene	ug/kg	<0.91	0.91	12/20/16 11:34	
Anthracene	ug/kg	<1.5	1.5	12/20/16 11:34	
Benzo(a)anthracene	ug/kg	<1.6	1.6	12/20/16 11:34	
Benzo(a)pyrene	ug/kg	<1.2	1.2	12/20/16 11:34	
Benzo(b)fluoranthene	ug/kg	<1.9	1.9	12/20/16 11:34	
Benzo(g,h,i)perylene	ug/kg	<1.5	1.5	12/20/16 11:34	
Benzo(k)fluoranthene	ug/kg	<1.6	1.6	12/20/16 11:34	
Chrysene	ug/kg	<1.8	1.8	12/20/16 11:34	
Dibenz(a,h)anthracene	ug/kg	<1.1	1.1	12/20/16 11:34	
Fluoranthene	ug/kg	<2.6	2.6	12/20/16 11:34	
Fluorene	ug/kg	<1.3	1.3	12/20/16 11:34	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.5	2.5	12/20/16 11:34	
Naphthalene	ug/kg	<1.2	1.2	12/20/16 11:34	
Phenanthrene	ug/kg	<1.3	1.3	12/20/16 11:34	
Pyrene	ug/kg	<2.8	2.8	12/20/16 11:34	
2-Fluorobiphenyl (S)	%	103	41-125	12/20/16 11:34	
p-Terphenyl-d14 (S)	%	89	39-125	12/20/16 11:34	

LABORATORY CONTROL SAMPLE: 2473477

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	33.3	26.8	81	53-125	
Acenaphthylene	ug/kg	33.3	25.2	76	50-125	
Anthracene	ug/kg	33.3	27.2	81	60-125	
Benzo(a)anthracene	ug/kg	33.3	24.5	74	63-125	
Benzo(a)pyrene	ug/kg	33.3	29.5	89	65-125	
Benzo(b)fluoranthene	ug/kg	33.3	25.6	77	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	29.1	87	62-125	
Benzo(k)fluoranthene	ug/kg	33.3	34.2	103	65-125	
Chrysene	ug/kg	33.3	31.7	95	62-125	
Dibenz(a,h)anthracene	ug/kg	33.3	29.3	88	61-125	
Fluoranthene	ug/kg	33.3	28.8	87	64-125	
Fluorene	ug/kg	33.3	27.2	82	57-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	29.8	90	61-125	
Naphthalene	ug/kg	33.3	29.0	87	52-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

LABORATORY CONTROL SAMPLE: 2473477

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	33.3	27.3	82	58-125	
Pyrene	ug/kg	33.3	29.4	88	65-125	
2-Fluorobiphenyl (S)	%.			87	41-125	
p-Terphenyl-d14 (S)	%.			83	39-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2473551 2473552

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10373134005 Result	Spike Conc.	Spike Conc.	Conc.								
Acenaphthene	ug/kg	<1.7	44.5	44.4	44.4	39.6	34.9	89	79	53-125	13	30	
Acenaphthylene	ug/kg	<1.2	44.5	44.4	44.4	34.9	33.1	79	75	50-125	5	30	
Anthracene	ug/kg	<2.0	44.5	44.4	44.4	52.6	37.8	118	85	60-125	33	30	R1
Benzo(a)anthracene	ug/kg	<2.1	44.5	44.4	44.4	60.5	36.3	136	82	63-125	50	30	M1,R1
Benzo(a)pyrene	ug/kg	<1.5	44.5	44.4	44.4	62.9	41.7	141	94	65-125	41	30	M1,R1
Benzo(b)fluoranthene	ug/kg	<2.5	44.5	44.4	44.4	63.1	35.8	142	81	61-125	55	30	M1,R1
Benzo(g,h,i)perylene	ug/kg	<2.0	44.5	44.4	44.4	49.3	36.9	111	83	62-125	29	30	
Benzo(k)fluoranthene	ug/kg	<2.2	44.5	44.4	44.4	62.1	44.6	140	100	65-125	33	30	M1,R1
Chrysene	ug/kg	<2.5	44.5	44.4	44.4	60.1	41.9	135	94	62-125	36	30	M1,R1
Dibenz(a,h)anthracene	ug/kg	<1.5	44.5	44.4	44.4	38.4	31.8	86	72	61-125	19	30	
Fluoranthene	ug/kg	<3.5	44.5	44.4	44.4	90.7	49.5	204	111	64-125	59	30	M1,R1
Fluorene	ug/kg	<1.7	44.5	44.4	44.4	40.7	34.0	92	77	57-125	18	30	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.3	44.5	44.4	44.4	46.5	36.5	104	82	61-125	24	30	
Naphthalene	ug/kg	<1.6	44.5	44.4	44.4	45.7	38.4	103	86	52-125	18	30	
Phenanthrene	ug/kg	<1.8	44.5	44.4	44.4	77.7	42.1	175	95	58-125	60	30	M1,R1
Pyrene	ug/kg	<3.7	44.5	44.4	44.4	77.6	47.5	175	107	65-125	48	30	M1,R1
2-Fluorobiphenyl (S)	%.							84	87	41-125			
p-Terphenyl-d14 (S)	%.							77	78	39-125			

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

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QC Batch: 452206 Analysis Method: EPA 8270D by SIM  
 QC Batch Method: EPA 3550 Analysis Description: 8270D Solid PAH by SIM MSSV  
 Associated Lab Samples: 10373134021, 10373134022, 10373134023, 10373134024, 10373134025, 10373134026, 10373134027, 10373134028, 10373134030

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METHOD BLANK: 2475599 Matrix: Solid  
 Associated Lab Samples: 10373134021, 10373134022, 10373134023, 10373134024, 10373134025, 10373134026, 10373134027, 10373134028, 10373134030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	<1.3	1.3	12/21/16 21:43	
Acenaphthylene	ug/kg	<0.91	0.91	12/21/16 21:43	
Anthracene	ug/kg	<1.5	1.5	12/21/16 21:43	
Benzo(a)anthracene	ug/kg	<1.6	1.6	12/21/16 21:43	
Benzo(a)pyrene	ug/kg	<1.2	1.2	12/21/16 21:43	
Benzo(b)fluoranthene	ug/kg	<1.9	1.9	12/21/16 21:43	
Benzo(g,h,i)perylene	ug/kg	<1.5	1.5	12/21/16 21:43	
Benzo(k)fluoranthene	ug/kg	<1.6	1.6	12/21/16 21:43	
Chrysene	ug/kg	<1.8	1.8	12/21/16 21:43	
Dibenz(a,h)anthracene	ug/kg	<1.1	1.1	12/21/16 21:43	
Fluoranthene	ug/kg	<2.6	2.6	12/21/16 21:43	
Fluorene	ug/kg	<1.3	1.3	12/21/16 21:43	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.5	2.5	12/21/16 21:43	
Naphthalene	ug/kg	<1.2	1.2	12/21/16 21:43	
Phenanthrene	ug/kg	<1.3	1.3	12/21/16 21:43	
Pyrene	ug/kg	<2.8	2.8	12/21/16 21:43	
2-Fluorobiphenyl (S)	%	66	41-125	12/21/16 21:43	
p-Terphenyl-d14 (S)	%	75	39-125	12/21/16 21:43	

LABORATORY CONTROL SAMPLE: 2475600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	33.3	24.1	72	53-125	
Acenaphthylene	ug/kg	33.3	24.9	75	50-125	
Anthracene	ug/kg	33.3	27.7	83	60-125	
Benzo(a)anthracene	ug/kg	33.3	24.5	74	63-125	
Benzo(a)pyrene	ug/kg	33.3	29.2	88	65-125	
Benzo(b)fluoranthene	ug/kg	33.3	28.3	85	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	27.6	83	62-125	
Benzo(k)fluoranthene	ug/kg	33.3	30.6	92	65-125	
Chrysene	ug/kg	33.3	31.1	93	62-125	
Dibenz(a,h)anthracene	ug/kg	33.3	28.2	84	61-125	
Fluoranthene	ug/kg	33.3	28.5	86	64-125	
Fluorene	ug/kg	33.3	25.8	77	57-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	28.1	84	61-125	
Naphthalene	ug/kg	33.3	27.5	83	52-125	
Phenanthrene	ug/kg	33.3	24.8	74	58-125	
Pyrene	ug/kg	33.3	27.4	82	65-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

LABORATORY CONTROL SAMPLE: 2475600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Fluorobiphenyl (S)	%.			71	41-125	
p-Terphenyl-d14 (S)	%.			71	39-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2475967 2475968

Parameter	Units	10374080001		MSD		MSD		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Acenaphthene	ug/kg	ND	33.3	33.3	28.5	28.8	86	87	53-125	1	30		
Acenaphthylene	ug/kg	ND	33.3	33.3	29.7	31.6	89	95	50-125	6	30		
Anthracene	ug/kg	ND	33.3	33.3	33.0	33.1	99	99	60-125	0	30		
Benzo(a)anthracene	ug/kg	6.9	33.3	33.3	47.2	48.8	121	126	63-125	3	30	M1	
Benzo(a)pyrene	ug/kg	8.9	33.3	33.3	49.7	53.6	123	134	65-125	7	30	M1	
Benzo(b)fluoranthene	ug/kg	6.6	33.3	33.3	47.5	49.9	123	130	61-125	5	30	M1	
Benzo(g,h,i)perylene	ug/kg	5.2	33.3	33.3	42.0	43.7	111	116	62-125	4	30		
Benzo(k)fluoranthene	ug/kg	ND	33.3	33.3	41.0	41.5	123	124	65-125	1	30		
Chrysene	ug/kg	7.0	33.3	33.3	43.1	44.2	108	112	62-125	3	30		
Dibenz(a,h)anthracene	ug/kg	ND	33.3	33.3	31.6	31.8	95	95	61-125	1	30		
Fluoranthene	ug/kg	5.9	33.3	33.3	43.1	41.5	112	107	64-125	4	30		
Fluorene	ug/kg	ND	33.3	33.3	29.0	30.4	87	91	57-125	4	30		
Indeno(1,2,3-cd)pyrene	ug/kg	ND	33.3	33.3	38.3	40.0	115	120	61-125	4	30		
Naphthalene	ug/kg	ND	33.3	33.3	25.6	23.9	77	72	52-125	7	30		
Phenanthrene	ug/kg	ND	33.3	33.3	32.2	31.9	97	96	58-125	1	30		
Pyrene	ug/kg	18.8	33.3	33.3	77.1	75.9	175	171	65-125	2	30	M1	
2-Fluorobiphenyl (S)	%.						66	66	41-125				
p-Terphenyl-d14 (S)	%.						70	71	39-125				

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

QC Batch: 452999

Analysis Method: EPA 8270D by SIM

QC Batch Method: EPA 3550

Analysis Description: 8270D Solid PAH by SIM MSSV

Associated Lab Samples: 10373134029

METHOD BLANK: 2480002

Matrix: Solid

Associated Lab Samples: 10373134029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	<1.3	1.3	12/28/16 13:01	
Acenaphthylene	ug/kg	<0.91	0.91	12/28/16 13:01	
Anthracene	ug/kg	<1.5	1.5	12/28/16 13:01	
Benzo(a)anthracene	ug/kg	<1.6	1.6	12/28/16 13:01	
Benzo(a)pyrene	ug/kg	<1.2	1.2	12/28/16 13:01	
Benzo(b)fluoranthene	ug/kg	<1.9	1.9	12/28/16 13:01	
Benzo(g,h,i)perylene	ug/kg	<1.5	1.5	12/28/16 13:01	
Benzo(k)fluoranthene	ug/kg	<1.6	1.6	12/28/16 13:01	
Chrysene	ug/kg	<1.8	1.8	12/28/16 13:01	
Dibenz(a,h)anthracene	ug/kg	<1.1	1.1	12/28/16 13:01	
Fluoranthene	ug/kg	<2.6	2.6	12/28/16 13:01	
Fluorene	ug/kg	<1.3	1.3	12/28/16 13:01	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.5	2.5	12/28/16 13:01	
Naphthalene	ug/kg	<1.2	1.2	12/28/16 13:01	
Phenanthrene	ug/kg	<1.3	1.3	12/28/16 13:01	
Pyrene	ug/kg	<2.8	2.8	12/28/16 13:01	
2-Fluorobiphenyl (S)	%	80	41-125	12/28/16 13:01	
p-Terphenyl-d14 (S)	%	76	39-125	12/28/16 13:01	

LABORATORY CONTROL SAMPLE: 2480003

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	33.3	25.3	76	53-125	
Acenaphthylene	ug/kg	33.3	24.5	74	50-125	
Anthracene	ug/kg	33.3	27.2	82	60-125	
Benzo(a)anthracene	ug/kg	33.3	26.4	79	63-125	
Benzo(a)pyrene	ug/kg	33.3	28.2	85	65-125	
Benzo(b)fluoranthene	ug/kg	33.3	29.8	89	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	27.4	82	62-125	
Benzo(k)fluoranthene	ug/kg	33.3	28.9	87	65-125	
Chrysene	ug/kg	33.3	28.9	87	62-125	
Dibenz(a,h)anthracene	ug/kg	33.3	28.1	84	61-125	
Fluoranthene	ug/kg	33.3	27.9	84	64-125	
Fluorene	ug/kg	33.3	25.3	76	57-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	28.2	85	61-125	
Naphthalene	ug/kg	33.3	26.8	80	52-125	
Phenanthrene	ug/kg	33.3	28.4	85	58-125	
Pyrene	ug/kg	33.3	28.3	85	65-125	
2-Fluorobiphenyl (S)	%			81	41-125	
p-Terphenyl-d14 (S)	%			78	39-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2480004		2480005		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		10374074001 Result	MS Spike Conc.	MSD Spike Conc.	MSD Result							
Acenaphthene	ug/kg	<0.54	46.3	46.3	35.1	35.3	76	76	53-125	1	30	
Acenaphthylene	ug/kg	<0.38	46.3	46.3	32.8	33.0	71	71	50-125	1	30	
Anthracene	ug/kg	<0.63	46.3	46.3	36.9	37.9	80	82	60-125	3	30	
Benzo(a)anthracene	ug/kg	<0.65	46.3	46.3	35.3	36.6	76	79	63-125	4	30	
Benzo(a)pyrene	ug/kg	<0.48	46.3	46.3	36.9	38.3	80	83	65-125	4	30	
Benzo(b)fluoranthene	ug/kg	<0.79	46.3	46.3	39.5	41.2	85	89	61-125	4	30	
Benzo(g,h,i)perylene	ug/kg	<0.63	46.3	46.3	35.9	38.3	78	83	62-125	6	30	
Benzo(k)fluoranthene	ug/kg	<0.68	46.3	46.3	38.8	39.6	84	85	65-125	2	30	
Chrysene	ug/kg	<0.77	46.3	46.3	37.9	39.7	82	86	62-125	4	30	
Dibenz(a,h)anthracene	ug/kg	<0.45	46.3	46.3	38.4	39.3	83	85	61-125	2	30	
Fluoranthene	ug/kg	<1.1	46.3	46.3	37.3	37.8	80	82	64-125	1	30	
Fluorene	ug/kg	<0.53	46.3	46.3	35.0	35.7	76	77	57-125	2	30	
Indeno(1,2,3-cd)pyrene	ug/kg	<1.0	46.3	46.3	37.9	39.5	82	85	61-125	4	30	
Naphthalene	ug/kg	<0.49	46.3	46.3	37.1	37.2	80	80	52-125	0	30	
Phenanthrene	ug/kg	<0.56	46.3	46.3	39.5	40.3	85	87	58-125	2	30	
Pyrene	ug/kg	<1.1	46.3	46.3	37.0	38.7	80	84	65-125	5	30	
2-Fluorobiphenyl (S)	%.						82	81	41-125			
p-Terphenyl-d14 (S)	%.						73	75	39-125			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10373134001	GP5_10-12	ASTM D2974	453358		
10373134002	GP6_3-5	ASTM D2974	453358		
10373134003	GP6_8-10	ASTM D2974	453362		
10373134004	GP6_13-15	ASTM D2974	453362		
10373134005	GP7_3-5	ASTM D2974	453362		
10373134006	GP7_8-10	ASTM D2974	453362		
10373134007	GP7_10-12	ASTM D2974	453362		
10373134008	GP8_3-5	ASTM D2974	453362		
10373134009	GP8_8-10	ASTM D2974	453362		
10373134010	GP8_13-15	ASTM D2974	453362		
10373134011	GP9_3-5	ASTM D2974	453362		
10373134012	GP9_5-7	ASTM D2974	453362		
10373134013	GP1_3-5	ASTM D2974	453362		
10373134014	GP1_5-10	ASTM D2974	453362		
10373134015	GP1_10-12	ASTM D2974	453362		
10373134016	GP2_3-5	ASTM D2974	453362		
10373134017	GP2_8-10	ASTM D2974	453362		
10373134018	GP2_13-15	ASTM D2974	453362		
10373134019	GP3_0-4	ASTM D2974	453362		
10373134020	GP4_3-5	ASTM D2974	453362		
10373134021	GP4_5-7	ASTM D2974	453362		
10373134022	GP4_13-15	ASTM D2974	453362		
10373134023	GP5_4-5	ASTM D2974	453368		
10373134024	GP5_5-7	ASTM D2974	453368		
10373134025	GP4_10-12	ASTM D2974	453368		
10373134026	GP4_5-7D	ASTM D2974	453368		
10373134027	GP5_5-7D	ASTM D2974	453368		
10373134028	SB001_1-4	ASTM D2974	453368		
10373134029	SB001_12-15	ASTM D2974	453368		
10373134030	SB001_17.5-20	ASTM D2974	453368		
10373134001	GP5_10-12	EPA 3550	451739	EPA 8270D by SIM	452571
10373134002	GP6_3-5	EPA 3550	451739	EPA 8270D by SIM	452571
10373134003	GP6_8-10	EPA 3550	451739	EPA 8270D by SIM	452571
10373134004	GP6_13-15	EPA 3550	451739	EPA 8270D by SIM	452571
10373134005	GP7_3-5	EPA 3550	451739	EPA 8270D by SIM	452571
10373134006	GP7_8-10	EPA 3550	451739	EPA 8270D by SIM	452571
10373134007	GP7_10-12	EPA 3550	451739	EPA 8270D by SIM	452571
10373134008	GP8_3-5	EPA 3550	451739	EPA 8270D by SIM	452571
10373134009	GP8_8-10	EPA 3550	451739	EPA 8270D by SIM	452571
10373134010	GP8_13-15	EPA 3550	451739	EPA 8270D by SIM	452571
10373134011	GP9_3-5	EPA 3550	451739	EPA 8270D by SIM	452571
10373134012	GP9_5-7	EPA 3550	451739	EPA 8270D by SIM	452571
10373134013	GP1_3-5	EPA 3550	451739	EPA 8270D by SIM	452571
10373134014	GP1_5-10	EPA 3550	451739	EPA 8270D by SIM	452571
10373134015	GP1_10-12	EPA 3550	451739	EPA 8270D by SIM	452571
10373134016	GP2_3-5	EPA 3550	451739	EPA 8270D by SIM	452571
10373134017	GP2_8-10	EPA 3550	451739	EPA 8270D by SIM	452571

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10373134

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10373134018	GP2_13-15	EPA 3550	451739	EPA 8270D by SIM	452571
10373134019	GP3_0-4	EPA 3550	451739	EPA 8270D by SIM	452571
10373134020	GP4_3-5	EPA 3550	451739	EPA 8270D by SIM	452571
10373134021	GP4_5-7	EPA 3550	452206	EPA 8270D by SIM	452904
10373134022	GP4_13-15	EPA 3550	452206	EPA 8270D by SIM	452904
10373134023	GP5_4-5	EPA 3550	452206	EPA 8270D by SIM	452904
10373134024	GP5_5-7	EPA 3550	452206	EPA 8270D by SIM	452904
10373134025	GP4_10-12	EPA 3550	452206	EPA 8270D by SIM	452904
10373134026	GP4_5-7D	EPA 3550	452206	EPA 8270D by SIM	452904
10373134027	GP5_5-7D	EPA 3550	452206	EPA 8270D by SIM	452904
10373134028	SB001_1-4	EPA 3550	452206	EPA 8270D by SIM	452904
10373134029	SB001_12-15	EPA 3550	452999	EPA 8270D by SIM	453547
10373134030	SB001_17.5-20	EPA 3550	452206	EPA 8270D by SIM	452904
10373134001	GP5_10-12	EPA 5035/5030B	451669	EPA 8260B	451945
10373134002	GP6_3-5	EPA 5035/5030B	451669	EPA 8260B	451945
10373134003	GP6_8-10	EPA 5035/5030B	451669	EPA 8260B	451945
10373134004	GP6_13-15	EPA 5035/5030B	451670	EPA 8260B	452168
10373134005	GP7_3-5	EPA 5035/5030B	451670	EPA 8260B	452168
10373134006	GP7_8-10	EPA 5035/5030B	451670	EPA 8260B	452168
10373134007	GP7_10-12	EPA 5035/5030B	451670	EPA 8260B	452168
10373134008	GP8_3-5	EPA 5035/5030B	451670	EPA 8260B	452168
10373134009	GP8_8-10	EPA 5035/5030B	451670	EPA 8260B	452168
10373134010	GP8_13-15	EPA 5035/5030B	451670	EPA 8260B	452168
10373134011	GP9_3-5	EPA 5035/5030B	451670	EPA 8260B	452168
10373134012	GP9_5-7	EPA 5035/5030B	451670	EPA 8260B	452168
10373134013	GP1_3-5	EPA 5035/5030B	451670	EPA 8260B	452168
10373134014	GP1_5-10	EPA 5035/5030B	451670	EPA 8260B	452168
10373134015	GP1_10-12	EPA 5035/5030B	451670	EPA 8260B	452168
10373134016	GP2_3-5	EPA 5035/5030B	451670	EPA 8260B	452168
10373134017	GP2_8-10	EPA 5035/5030B	451670	EPA 8260B	452168
10373134018	GP2_13-15	EPA 5035/5030B	451670	EPA 8260B	452168
10373134019	GP3_0-4	EPA 5035/5030B	451670	EPA 8260B	452168
10373134020	GP4_3-5	EPA 5035/5030B	451670	EPA 8260B	452168
10373134021	GP4_5-7	EPA 5035/5030B	451670	EPA 8260B	452168
10373134022	GP4_13-15	EPA 5035/5030B	451670	EPA 8260B	452168
10373134023	GP5_4-5	EPA 5035/5030B	451670	EPA 8260B	452168
10373134024	GP5_5-7	EPA 5035/5030B	451924	EPA 8260B	452180
10373134025	GP4_10-12	EPA 5035/5030B	451924	EPA 8260B	452180
10373134026	GP4_5-7D	EPA 5035/5030B	451924	EPA 8260B	452180
10373134027	GP5_5-7D	EPA 5035/5030B	451924	EPA 8260B	452180
10373134028	SB001_1-4	EPA 5035/5030B	451924	EPA 8260B	452180
10373134029	SB001_12-15	EPA 5035/5030B	451924	EPA 8260B	452180
10373134030	SB001_17.5-20	EPA 5035/5030B	451924	EPA 8260B	452180
10373134031	Trip Blank	EPA 5035/5030B	451924	EPA 8260B	452180

### REPORT OF LABORATORY ANALYSIS

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**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 10573134 of 3

2064980

**Section A**  
Required Client Information:  
Company: Summit Environmental  
Address: P.O. Box 1000, Summit, NJ 07901  
Phone: 908-271-1000  
Fax: 908-271-1001  
Requested Due Date/TAT: 2/18/02

**Section B**  
Required Project Information:  
Report To: Bill Gregory  
Copy To: Bill Gregory  
Purchase Order No.:  
Project Name: Super MGP  
Project Number: 2118-0002

**Section C**  
Invoice Information:  
Attention: Bill Gregory  
Company Name:  
Address:  
Site Location:  NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER  
State: NJ

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub> Methanol Other	Requested Analysis Filtered (Y/N)	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time	Temp in C	Received on	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
			COMPOSITE START	COMPOSITE END/GRAB														
1	GP5-10-12								William M. Gray	12/13/01	0850	Christina Polson	12/13/01	0850	4.4	7	N	Y
2	GP6-3-5																	
3	GP6-8-10																	
4	GP6-13-15																	
5	GP7-3-5																	
6	GP7-8-10																	
7	GP7-10-12																	
8	GP8-3-5																	
9	GP8-8-10																	
10	GP8-13-15																	
11	GP9-3-5																	
12	GP9-5-7																	

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



<b>Section A</b> Required Client Information: Company: <u>Sumit Environmental</u> Address: <u>Sumit Environmental</u>		<b>Section B</b> Required Project Information: Report To: <u>Bill Gegg</u> Copy To: _____		<b>Section C</b> Invoice Information: Attention: <u>Bill Gegg</u> Company Name: _____ Address: _____	
Email To: <u>Beggs @sumitec.com</u>		Purchase Order No.: _____		Trace Quote Reference: _____	
Phone: _____		Project Name: <u>Specior M6P</u>		Trace Project Manager: <u>Kate Kery</u>	
Requested Due Date/TAT: _____		Project Number: <u>2118-0002</u>		Trace Profile #: <u>257777</u>	
REGULATORY AGENCY: <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____		Site Location STATE: _____		Requested Analysis: Filtered (Y/N) _____	

ITEM #	Section D Required Client Information Matrix Codes Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Residual Chlorine (Y/N)	Trace Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB			DATE	TIME	DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>			
1	GP4-10-12						4									
2	6P4-5-7D					12/16/10	1520									026
3	6P5-5-7D					1/05	1600									027
4	SBO01-1-4					1/05	1615									029
5	SBO01-12-15															
6	SBO01-17.5-20															
7																
8																
9																
10																
11																
12																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<u>W. Glenn N. Stark</u>	12/3/10	0850	<u>Kristina Polson</u>	12/13/10	19:50	44 Y N Y
	<u>Kristina Polson</u>	12/13/10	1739	<u>Bill Gegg</u>	12/16/10	17:35	

ORIGINAL


SAMPLER NAME AND SIGNATURE		DATE Signed (MM/DD/YY):
PRINT Name of SAMPLER:	<u>Eyle Peans</u>	12/12/10
SIGNATURE of SAMPLER:	<u>Eyle Peans</u>	

Important Note: By signing this form you are accepting Trace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

**Sample Condition Upon Receipt**

**Client Name:** Summit Environmental

**Project #:** **WO#: 10373134**



10373134

**Courier:**  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Speedee  Other: \_\_\_\_\_

**Tracking Number:** \_\_\_\_\_

**Custody Seal on Cooler/Box Present?**  Yes  No      **Seals Intact?**  Yes  No      **Optional:** Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

**Packing Material:**  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_      **Temp Blank?**  Yes  No

**Thermometer Used:**  151401163  151401164  B88A912167504  B88A0143310098      **Type of Ice:**  Wet  Blue  None  Samples on ice, cooling process has begun

**Cooler Temp Read (°C):** 4.4      **Cooler Temp Corrected (°C):** 4.4      **Biological Tissue Frozen?**  Yes  No  N/A  
**Temp should be above freezing to 6°C**      **Correction Factor:** True      **Date and Initials of Person Examining Contents:** 12/13/16 HA

**USDA Regulated Soil** (  N/A, water sample)  
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No      Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No  
**If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.**

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No -Includes Date/Time/ID/Analysis Matrix: <u>SL, WT</u>	12.
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH >9 Sulfide, NaOH >12 Cyanide) Exceptions: <u>VOA</u> Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin. <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed: _____ Lot # of added preservative: _____
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Pace Trip Blank Lot # (if purchased): <u>052316-3</u>	

**CLIENT NOTIFICATION/RESOLUTION**

**Field Data Required?**  Yes  No

**Person Contacted:** \_\_\_\_\_ **Date/Time:** \_\_\_\_\_

**Comments/Resolution:** \_\_\_\_\_

**Project Manager Review:** \_\_\_\_\_ **Date:** \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

January 12, 2017

Bill Gregg  
Summit Envirosolutions  
1217 Bandana Blvd  
Saint Paul, MN 55108

RE: Project: 2118-002 Superior MGF\_REV  
Pace Project No.: 10373306

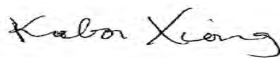
Dear Bill Gregg:

Enclosed are the analytical results for sample(s) received by the laboratory on December 14, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised on January 12, 2017 to change report format per client's request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kabor Xiong  
kabor.xiong@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

---

### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

Alaska Certification UST-107

525 N 8th Street, Salina, KS 67401

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN\_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10373306001	GP10_3-5	Solid	12/13/16 12:10	12/14/16 18:15
10373306002	GP10_5-7	Solid	12/13/16 12:15	12/14/16 18:15
10373306003	GP10_13-15	Solid	12/13/16 12:20	12/14/16 18:15
10373306004	GP11_0-2	Solid	12/13/16 12:55	12/14/16 18:15
10373306005	GP11_3-5	Solid	12/13/16 12:40	12/14/16 18:15
10373306006	GP11_8-10	Solid	12/13/16 12:45	12/14/16 18:15
10373306007	GP12_3-5	Solid	12/13/16 13:15	12/14/16 18:15
10373306008	GP12_5-7	Solid	12/13/16 13:20	12/14/16 18:15
10373306009	GP12_10-12	Solid	12/13/16 13:25	12/14/16 18:15
10373306010	GP13_3-5	Solid	12/13/16 14:00	12/14/16 18:15
10373306011	GP13_5-10	Solid	12/13/16 14:05	12/14/16 18:15
10373306012	GP13_10-15	Solid	12/13/16 14:10	12/14/16 18:15
10373306013	GP14_3-5	Solid	12/13/16 14:30	12/14/16 18:15
10373306014	GP14_9-10	Solid	12/13/16 14:35	12/14/16 18:15
10373306015	GP14_10-12	Solid	12/13/16 14:40	12/14/16 18:15
10373306016	GP15_3-5	Solid	12/13/16 14:45	12/14/16 18:15
10373306017	GP15_5-7	Solid	12/13/16 14:50	12/14/16 18:15
10373306018	GP15_13-15	Solid	12/13/16 14:55	12/14/16 18:15
10373306019	GP16_3-5	Solid	12/13/16 15:00	12/14/16 18:15
10373306020	GP16_7-8	Solid	12/13/16 15:05	12/14/16 18:15
10373306021	GP16_10-12	Solid	12/13/16 15:10	12/14/16 18:15
10373306022	GP17_3-5	Solid	12/13/16 16:00	12/14/16 18:15
10373306023	GP17_5-10	Solid	12/13/16 16:05	12/14/16 18:15
10373306024	GP17_10-15	Solid	12/13/16 16:10	12/14/16 18:15
10373306025	GP18_3-5	Solid	12/13/16 17:00	12/14/16 18:15
10373306026	GP18_5-7	Solid	12/13/16 17:05	12/14/16 18:15
10373306027	GP18_10-12	Solid	12/13/16 17:10	12/14/16 18:15
10373306028	GP13_10-15D	Solid	12/13/16 14:10	12/14/16 18:15
10373306029	GP10_5-7D	Solid	12/13/16 12:15	12/14/16 18:15
10373306030	SB0003_5-7	Solid	12/13/16 14:00	12/14/16 18:15
10373306031	SB0003_10-13	Solid	12/13/16 14:20	12/14/16 18:15
10373306032	SB0002_8-10	Solid	12/13/16 09:45	12/14/16 18:15
10373306033	SB0002_15-20	Solid	12/13/16 10:10	12/14/16 18:15
10373306034	SB0004_2.5-5	Solid	12/13/16 15:00	12/14/16 18:15
10373306035	SB0004_5-6	Solid	12/13/16 15:10	12/14/16 18:15
10373306036	Trip Blank	Solid	12/13/16 00:00	12/14/16 18:15

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10373306001	GP10_3-5	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373306002	GP10_5-7	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373306003	GP10_13-15	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373306004	GP11_0-2	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373306005	GP11_3-5	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373306006	GP11_8-10	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373306007	GP12_3-5	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373306008	GP12_5-7	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373306009	GP12_10-12	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373306010	GP13_3-5	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373306011	GP13_5-10	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373306012	GP13_10-15	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373306013	GP14_3-5	ASTM D2974	JDL	1	PASI-M

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10373306014	GP14_9-10	EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373306015	GP14_10-12	EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373306016	GP15_3-5	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
10373306017	GP15_5-7	EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373306018	GP15_13-15	EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373306019	GP16_3-5	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
10373306020	GP16_7-8	EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373306021	GP16_10-12	EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373306022	GP17_3-5	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
10373306023	GP17_5-10	EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
10373306024	GP17_10-15	EPA 8260B	CD2	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373306025	GP18_3-5	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M

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### SAMPLE ANALYTE COUNT

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10373306026	GP18_5-7	EPA 8260B	CD2	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
10373306027	GP18_10-12	EPA 8260B	CD2	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
10373306028	GP13_10-15D	EPA 8260B	CD2	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
10373306029	GP10_5-7D	EPA 8260B	CD2	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
10373306030	SB0003_5-7	EPA 8260B	CD2	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
10373306031	SB0003_10-13	EPA 8260B	CD2	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
10373306032	SB0002_8-10	EPA 8260B	CD2	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
10373306033	SB0002_15-20	EPA 8260B	CD2	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
10373306034	SB0004_2.5-5	EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
10373306035	SB0004_5-6	EPA 8260B	MRB	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
10373306036	Trip Blank	EPA 8260B	MRB	70	PASI-M
		EPA 8260B	MRB	70	PASI-M

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: GP10\_3-5 Lab ID: 10373306001 Collected: 12/13/16 12:10 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	20.1	%	0.10	0.10	1		12/28/16 11:55		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.6	ug/kg	1.6	0.49	1	12/15/16 06:57	12/22/16 17:46	83-32-9	
Acenaphthylene	6.0	ug/kg	1.1	0.34	1	12/15/16 06:57	12/22/16 17:46	208-96-8	
Anthracene	9.1	ug/kg	1.9	0.57	1	12/15/16 06:57	12/22/16 17:46	120-12-7	
Benzo(a)anthracene	46.0	ug/kg	1.9	0.59	1	12/15/16 06:57	12/22/16 17:46	56-55-3	M1
Benzo(a)pyrene	48.2	ug/kg	1.4	0.43	1	12/15/16 06:57	12/22/16 17:46	50-32-8	M1
Benzo(b)fluoranthene	54.1	ug/kg	2.4	0.72	1	12/15/16 06:57	12/22/16 17:46	205-99-2	M1
Benzo(g,h,i)perylene	29.2	ug/kg	1.9	0.57	1	12/15/16 06:57	12/22/16 17:46	191-24-2	
Benzo(k)fluoranthene	34.2	ug/kg	2.0	0.61	1	12/15/16 06:57	12/22/16 17:46	207-08-9	
Chrysene	49.4	ug/kg	2.3	0.69	1	12/15/16 06:57	12/22/16 17:46	218-01-9	M1
Dibenz(a,h)anthracene	7.8	ug/kg	1.4	0.41	1	12/15/16 06:57	12/22/16 17:46	53-70-3	
Fluoranthene	77.5	ug/kg	3.3	0.98	1	12/15/16 06:57	12/22/16 17:46	206-44-0	M1
Fluorene	<1.6	ug/kg	1.6	0.48	1	12/15/16 06:57	12/22/16 17:46	86-73-7	
Indeno(1,2,3-cd)pyrene	24.7	ug/kg	3.1	0.94	1	12/15/16 06:57	12/22/16 17:46	193-39-5	
Naphthalene	4.7	ug/kg	1.5	0.45	1	12/15/16 06:57	12/22/16 17:46	91-20-3	B
Phenanthrene	26.2	ug/kg	1.7	0.50	1	12/15/16 06:57	12/22/16 17:46	85-01-8	M1
Pyrene	76.2	ug/kg	3.4	1.0	1	12/15/16 06:57	12/22/16 17:46	129-00-0	M1
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	85	%	41-125		1	12/15/16 06:57	12/22/16 17:46	321-60-8	
p-Terphenyl-d14 (S)	88	%	39-125		1	12/15/16 06:57	12/22/16 17:46	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1320	ug/kg	1320	398	1	12/15/16 12:36	12/16/16 07:33	67-64-1	
Allyl chloride	<173	ug/kg	173	52.0	1	12/15/16 12:36	12/16/16 07:33	107-05-1	
Benzene	59.9	ug/kg	17.4	5.2	1	12/15/16 12:36	12/16/16 07:33	71-43-2	
Bromobenzene	<51.7	ug/kg	51.7	15.5	1	12/15/16 12:36	12/16/16 07:33	108-86-1	
Bromochloromethane	<60.2	ug/kg	60.2	18.1	1	12/15/16 12:36	12/16/16 07:33	74-97-5	
Bromodichloromethane	<56.5	ug/kg	56.5	17.0	1	12/15/16 12:36	12/16/16 07:33	75-27-4	
Bromoform	<174	ug/kg	174	52.3	1	12/15/16 12:36	12/16/16 07:33	75-25-2	
Bromomethane	<205	ug/kg	205	61.5	1	12/15/16 12:36	12/16/16 07:33	74-83-9	
2-Butanone (MEK)	<267	ug/kg	267	80.1	1	12/15/16 12:36	12/16/16 07:33	78-93-3	
n-Butylbenzene	<48.9	ug/kg	48.9	14.7	1	12/15/16 12:36	12/16/16 07:33	104-51-8	
sec-Butylbenzene	<47.7	ug/kg	47.7	14.3	1	12/15/16 12:36	12/16/16 07:33	135-98-8	
tert-Butylbenzene	<63.8	ug/kg	63.8	19.2	1	12/15/16 12:36	12/16/16 07:33	98-06-6	
Carbon tetrachloride	<63.4	ug/kg	63.4	19.0	1	12/15/16 12:36	12/16/16 07:33	56-23-5	
Chlorobenzene	<35.1	ug/kg	35.1	10.6	1	12/15/16 12:36	12/16/16 07:33	108-90-7	
Chloroethane	<319	ug/kg	319	95.8	1	12/15/16 12:36	12/16/16 07:33	75-00-3	
Chloroform	<98.2	ug/kg	98.2	29.5	1	12/15/16 12:36	12/16/16 07:33	67-66-3	
Chloromethane	<97.7	ug/kg	97.7	29.4	1	12/15/16 12:36	12/16/16 07:33	74-87-3	
2-Chlorotoluene	<55.7	ug/kg	55.7	16.7	1	12/15/16 12:36	12/16/16 07:33	95-49-8	
4-Chlorotoluene	<52.9	ug/kg	52.9	15.9	1	12/15/16 12:36	12/16/16 07:33	106-43-4	
1,2-Dibromo-3-chloropropane	<118	ug/kg	118	118	1	12/15/16 12:36	12/16/16 07:33	96-12-8	
Dibromochloromethane	<173	ug/kg	173	52.0	1	12/15/16 12:36	12/16/16 07:33	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: GP10\_3-5 Lab ID: 10373306001 Collected: 12/13/16 12:10 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<22.8	ug/kg	22.8	22.8	1	12/15/16 12:36	12/16/16 07:33	106-93-4	
Dibromomethane	<78.8	ug/kg	78.8	23.7	1	12/15/16 12:36	12/16/16 07:33	74-95-3	
1,2-Dichlorobenzene	<11.7	ug/kg	11.7	11.7	1	12/15/16 12:36	12/16/16 07:33	95-50-1	
1,3-Dichlorobenzene	<17.8	ug/kg	17.8	17.8	1	12/15/16 12:36	12/16/16 07:33	541-73-1	
1,4-Dichlorobenzene	<58.6	ug/kg	58.6	17.6	1	12/15/16 12:36	12/16/16 07:33	106-46-7	
Dichlorodifluoromethane	<61.8	ug/kg	61.8	18.6	1	12/15/16 12:36	12/16/16 07:33	75-71-8	
1,1-Dichloroethane	<23.5	ug/kg	23.5	23.5	1	12/15/16 12:36	12/16/16 07:33	75-34-3	
1,2-Dichloroethane	<19.2	ug/kg	19.2	19.2	1	12/15/16 12:36	12/16/16 07:33	107-06-2	
1,1-Dichloroethene	<15.4	ug/kg	15.4	15.4	1	12/15/16 12:36	12/16/16 07:33	75-35-4	
cis-1,2-Dichloroethene	<75.1	ug/kg	75.1	22.6	1	12/15/16 12:36	12/16/16 07:33	156-59-2	
trans-1,2-Dichloroethene	<97.3	ug/kg	97.3	29.2	1	12/15/16 12:36	12/16/16 07:33	156-60-5	
Dichlorofluoromethane	<553	ug/kg	553	166	1	12/15/16 12:36	12/16/16 07:33	75-43-4	
1,2-Dichloropropane	<21.0	ug/kg	21.0	21.0	1	12/15/16 12:36	12/16/16 07:33	78-87-5	
1,3-Dichloropropane	<72.3	ug/kg	72.3	21.7	1	12/15/16 12:36	12/16/16 07:33	142-28-9	
2,2-Dichloropropane	<64.2	ug/kg	64.2	19.3	1	12/15/16 12:36	12/16/16 07:33	594-20-7	
1,1-Dichloropropene	<18.3	ug/kg	18.3	18.3	1	12/15/16 12:36	12/16/16 07:33	563-58-6	
cis-1,3-Dichloropropene	<92.1	ug/kg	92.1	27.7	1	12/15/16 12:36	12/16/16 07:33	10061-01-5	
trans-1,3-Dichloropropene	<68.7	ug/kg	68.7	20.6	1	12/15/16 12:36	12/16/16 07:33	10061-02-6	
Diethyl ether (Ethyl ether)	<83.2	ug/kg	83.2	25.0	1	12/15/16 12:36	12/16/16 07:33	60-29-7	
Ethylbenzene	<64.2	ug/kg	64.2	19.3	1	12/15/16 12:36	12/16/16 07:33	100-41-4	
Hexachloro-1,3-butadiene	<190	ug/kg	190	57.0	1	12/15/16 12:36	12/16/16 07:33	87-68-3	
Isopropylbenzene (Cumene)	<71.9	ug/kg	71.9	21.6	1	12/15/16 12:36	12/16/16 07:33	98-82-8	
p-Isopropyltoluene	<33.5	ug/kg	33.5	10.1	1	12/15/16 12:36	12/16/16 07:33	99-87-6	
Methylene Chloride	<374	ug/kg	374	112	1	12/15/16 12:36	12/16/16 07:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	<134	ug/kg	134	40.1	1	12/15/16 12:36	12/16/16 07:33	108-10-1	
Methyl-tert-butyl ether	<37.8	ug/kg	37.8	11.4	1	12/15/16 12:36	12/16/16 07:33	1634-04-4	
Naphthalene	<48.9	ug/kg	48.9	14.7	1	12/15/16 12:36	12/16/16 07:33	91-20-3	
n-Propylbenzene	<60.2	ug/kg	60.2	18.1	1	12/15/16 12:36	12/16/16 07:33	103-65-1	
Styrene	<52.5	ug/kg	52.5	15.8	1	12/15/16 12:36	12/16/16 07:33	100-42-5	
1,1,1,2-Tetrachloroethane	<24.0	ug/kg	24.0	24.0	1	12/15/16 12:36	12/16/16 07:33	630-20-6	
1,1,1,2,2-Tetrachloroethane	<13.5	ug/kg	13.5	13.5	1	12/15/16 12:36	12/16/16 07:33	79-34-5	
Tetrachloroethene	<77.1	ug/kg	77.1	23.2	1	12/15/16 12:36	12/16/16 07:33	127-18-4	
Tetrahydrofuran	<1000	ug/kg	1000	301	1	12/15/16 12:36	12/16/16 07:33	109-99-9	
Toluene	<64.2	ug/kg	64.2	19.3	1	12/15/16 12:36	12/16/16 07:33	108-88-3	
1,2,3-Trichlorobenzene	<17.5	ug/kg	17.5	17.5	1	12/15/16 12:36	12/16/16 07:33	87-61-6	
1,2,4-Trichlorobenzene	<18.7	ug/kg	18.7	18.7	1	12/15/16 12:36	12/16/16 07:33	120-82-1	
1,1,1-Trichloroethane	<25.4	ug/kg	25.4	25.4	1	12/15/16 12:36	12/16/16 07:33	71-55-6	
1,1,2-Trichloroethane	<13.1	ug/kg	13.1	13.1	1	12/15/16 12:36	12/16/16 07:33	79-00-5	
Trichloroethene	<57.8	ug/kg	57.8	17.3	1	12/15/16 12:36	12/16/16 07:33	79-01-6	
Trichlorofluoromethane	<203	ug/kg	203	60.9	1	12/15/16 12:36	12/16/16 07:33	75-69-4	
1,2,3-Trichloropropane	<62.8	ug/kg	62.8	62.8	1	12/15/16 12:36	12/16/16 07:33	96-18-4	
1,1,2-Trichlorotrifluoroethane	<145	ug/kg	145	43.7	1	12/15/16 12:36	12/16/16 07:33	76-13-1	
1,2,4-Trimethylbenzene	<13.3	ug/kg	13.3	13.3	1	12/15/16 12:36	12/16/16 07:33	95-63-6	
1,3,5-Trimethylbenzene	<46.5	ug/kg	46.5	13.9	1	12/15/16 12:36	12/16/16 07:33	108-67-8	
Vinyl chloride	<25.9	ug/kg	25.9	7.8	1	12/15/16 12:36	12/16/16 07:33	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: GP10\_3-5**      **Lab ID: 10373306001**      Collected: 12/13/16 12:10      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<162	ug/kg	162	48.5	1	12/15/16 12:36	12/16/16 07:33	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%	75-129		1	12/15/16 12:36	12/16/16 07:33	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/15/16 12:36	12/16/16 07:33	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/15/16 12:36	12/16/16 07:33	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV  
Pace Project No.: 10373306

**Sample: GP10\_5-7**      **Lab ID: 10373306002**      Collected: 12/13/16 12:15      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	21.3	%	0.10	0.10	1		12/28/16 11:55		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.50	1	12/15/16 06:57	12/22/16 18:51	83-32-9	
Acenaphthylene	1.4	ug/kg	1.1	0.35	1	12/15/16 06:57	12/22/16 18:51	208-96-8	
Anthracene	<1.9	ug/kg	1.9	0.58	1	12/15/16 06:57	12/22/16 18:51	120-12-7	
Benzo(a)anthracene	2.7	ug/kg	2.0	0.60	1	12/15/16 06:57	12/22/16 18:51	56-55-3	
Benzo(a)pyrene	2.4	ug/kg	1.5	0.44	1	12/15/16 06:57	12/22/16 18:51	50-32-8	
Benzo(b)fluoranthene	3.2	ug/kg	2.4	0.73	1	12/15/16 06:57	12/22/16 18:51	205-99-2	
Benzo(g,h,i)perylene	<1.9	ug/kg	1.9	0.58	1	12/15/16 06:57	12/22/16 18:51	191-24-2	
Benzo(k)fluoranthene	2.3	ug/kg	2.1	0.62	1	12/15/16 06:57	12/22/16 18:51	207-08-9	
Chrysene	3.3	ug/kg	2.3	0.70	1	12/15/16 06:57	12/22/16 18:51	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.42	1	12/15/16 06:57	12/22/16 18:51	53-70-3	
Fluoranthene	5.3	ug/kg	3.3	1.0	1	12/15/16 06:57	12/22/16 18:51	206-44-0	
Fluorene	<1.6	ug/kg	1.6	0.49	1	12/15/16 06:57	12/22/16 18:51	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.2	ug/kg	3.2	0.95	1	12/15/16 06:57	12/22/16 18:51	193-39-5	
Naphthalene	2.2	ug/kg	1.5	0.45	1	12/15/16 06:57	12/22/16 18:51	91-20-3	B
Phenanthrene	<1.7	ug/kg	1.7	0.51	1	12/15/16 06:57	12/22/16 18:51	85-01-8	
Pyrene	5.0	ug/kg	3.5	1.1	1	12/15/16 06:57	12/22/16 18:51	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	80	%	41-125		1	12/15/16 06:57	12/22/16 18:51	321-60-8	
p-Terphenyl-d14 (S)	79	%	39-125		1	12/15/16 06:57	12/22/16 18:51	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1540	ug/kg	1540	462	1	12/15/16 13:40	12/16/16 12:32	67-64-1	
Allyl chloride	<201	ug/kg	201	60.4	1	12/15/16 13:40	12/16/16 12:32	107-05-1	
Benzene	29800	ug/kg	101	30.4	5	12/15/16 13:40	12/21/16 06:32	71-43-2	M1
Bromobenzene	<60.0	ug/kg	60.0	18.0	1	12/15/16 13:40	12/16/16 12:32	108-86-1	
Bromochloromethane	<69.8	ug/kg	69.8	21.0	1	12/15/16 13:40	12/16/16 12:32	74-97-5	
Bromodichloromethane	<65.6	ug/kg	65.6	19.7	1	12/15/16 13:40	12/16/16 12:32	75-27-4	
Bromoform	<202	ug/kg	202	60.7	1	12/15/16 13:40	12/16/16 12:32	75-25-2	
Bromomethane	<238	ug/kg	238	71.4	1	12/15/16 13:40	12/16/16 12:32	74-83-9	
2-Butanone (MEK)	<309	ug/kg	309	92.9	1	12/15/16 13:40	12/16/16 12:32	78-93-3	
n-Butylbenzene	<56.7	ug/kg	56.7	17.0	1	12/15/16 13:40	12/16/16 12:32	104-51-8	
sec-Butylbenzene	<55.3	ug/kg	55.3	16.6	1	12/15/16 13:40	12/16/16 12:32	135-98-8	
tert-Butylbenzene	<74.1	ug/kg	74.1	22.2	1	12/15/16 13:40	12/16/16 12:32	98-06-6	
Carbon tetrachloride	<73.6	ug/kg	73.6	22.1	1	12/15/16 13:40	12/16/16 12:32	56-23-5	
Chlorobenzene	<40.8	ug/kg	40.8	12.2	1	12/15/16 13:40	12/16/16 12:32	108-90-7	
Chloroethane	<370	ug/kg	370	111	1	12/15/16 13:40	12/16/16 12:32	75-00-3	
Chloroform	<114	ug/kg	114	34.2	1	12/15/16 13:40	12/16/16 12:32	67-66-3	
Chloromethane	<113	ug/kg	113	34.1	1	12/15/16 13:40	12/16/16 12:32	74-87-3	
2-Chlorotoluene	<64.7	ug/kg	64.7	19.4	1	12/15/16 13:40	12/16/16 12:32	95-49-8	
4-Chlorotoluene	<61.4	ug/kg	61.4	18.4	1	12/15/16 13:40	12/16/16 12:32	106-43-4	
1,2-Dibromo-3-chloropropane	<137	ug/kg	137	137	1	12/15/16 13:40	12/16/16 12:32	96-12-8	
Dibromochloromethane	<201	ug/kg	201	60.4	1	12/15/16 13:40	12/16/16 12:32	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: **GP10\_5-7** Lab ID: **10373306002** Collected: 12/13/16 12:15 Received: 12/14/16 18:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<26.5	ug/kg	26.5	26.5	1	12/15/16 13:40	12/16/16 12:32	106-93-4	
Dibromomethane	<91.4	ug/kg	91.4	27.5	1	12/15/16 13:40	12/16/16 12:32	74-95-3	
1,2-Dichlorobenzene	<13.6	ug/kg	13.6	13.6	1	12/15/16 13:40	12/16/16 12:32	95-50-1	
1,3-Dichlorobenzene	<20.7	ug/kg	20.7	20.7	1	12/15/16 13:40	12/16/16 12:32	541-73-1	
1,4-Dichlorobenzene	<68.0	ug/kg	68.0	20.4	1	12/15/16 13:40	12/16/16 12:32	106-46-7	
Dichlorodifluoromethane	<71.7	ug/kg	71.7	21.5	1	12/15/16 13:40	12/16/16 12:32	75-71-8	
1,1-Dichloroethane	<27.3	ug/kg	27.3	27.3	1	12/15/16 13:40	12/16/16 12:32	75-34-3	
1,2-Dichloroethane	<22.2	ug/kg	22.2	22.2	1	12/15/16 13:40	12/16/16 12:32	107-06-2	
1,1-Dichloroethene	<17.9	ug/kg	17.9	17.9	1	12/15/16 13:40	12/16/16 12:32	75-35-4	
cis-1,2-Dichloroethene	<87.2	ug/kg	87.2	26.2	1	12/15/16 13:40	12/16/16 12:32	156-59-2	
trans-1,2-Dichloroethene	<113	ug/kg	113	33.9	1	12/15/16 13:40	12/16/16 12:32	156-60-5	
Dichlorofluoromethane	<642	ug/kg	642	193	1	12/15/16 13:40	12/16/16 12:32	75-43-4	
1,2-Dichloropropane	<24.4	ug/kg	24.4	24.4	1	12/15/16 13:40	12/16/16 12:32	78-87-5	
1,3-Dichloropropane	<83.9	ug/kg	83.9	25.2	1	12/15/16 13:40	12/16/16 12:32	142-28-9	
2,2-Dichloropropane	<74.5	ug/kg	74.5	22.4	1	12/15/16 13:40	12/16/16 12:32	594-20-7	
1,1-Dichloropropene	<21.3	ug/kg	21.3	21.3	1	12/15/16 13:40	12/16/16 12:32	563-58-6	
cis-1,3-Dichloropropene	<107	ug/kg	107	32.1	1	12/15/16 13:40	12/16/16 12:32	10061-01-5	
trans-1,3-Dichloropropene	<79.7	ug/kg	79.7	23.9	1	12/15/16 13:40	12/16/16 12:32	10061-02-6	
Diethyl ether (Ethyl ether)	<96.6	ug/kg	96.6	29.0	1	12/15/16 13:40	12/16/16 12:32	60-29-7	
Ethylbenzene	<74.5	ug/kg	74.5	22.4	1	12/15/16 13:40	12/16/16 12:32	100-41-4	
Hexachloro-1,3-butadiene	<220	ug/kg	220	66.2	1	12/15/16 13:40	12/16/16 12:32	87-68-3	
Isopropylbenzene (Cumene)	<83.4	ug/kg	83.4	25.1	1	12/15/16 13:40	12/16/16 12:32	98-82-8	
p-Isopropyltoluene	<38.9	ug/kg	38.9	11.7	1	12/15/16 13:40	12/16/16 12:32	99-87-6	
Methylene Chloride	<434	ug/kg	434	130	1	12/15/16 13:40	12/16/16 12:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	<155	ug/kg	155	46.6	1	12/15/16 13:40	12/16/16 12:32	108-10-1	
Methyl-tert-butyl ether	<43.9	ug/kg	43.9	13.2	1	12/15/16 13:40	12/16/16 12:32	1634-04-4	
Naphthalene	<56.7	ug/kg	56.7	17.0	1	12/15/16 13:40	12/16/16 12:32	91-20-3	
n-Propylbenzene	<69.8	ug/kg	69.8	21.0	1	12/15/16 13:40	12/16/16 12:32	103-65-1	
Styrene	<60.9	ug/kg	60.9	18.3	1	12/15/16 13:40	12/16/16 12:32	100-42-5	
1,1,1,2-Tetrachloroethane	<27.9	ug/kg	27.9	27.9	1	12/15/16 13:40	12/16/16 12:32	630-20-6	
1,1,2,2-Tetrachloroethane	<15.6	ug/kg	15.6	15.6	1	12/15/16 13:40	12/16/16 12:32	79-34-5	
Tetrachloroethene	<89.5	ug/kg	89.5	26.9	1	12/15/16 13:40	12/16/16 12:32	127-18-4	
Tetrahydrofuran	<1160	ug/kg	1160	349	1	12/15/16 13:40	12/16/16 12:32	109-99-9	
Toluene	76.2	ug/kg	74.5	22.4	1	12/15/16 13:40	12/16/16 12:32	108-88-3	
1,2,3-Trichlorobenzene	<20.3	ug/kg	20.3	20.3	1	12/15/16 13:40	12/16/16 12:32	87-61-6	
1,2,4-Trichlorobenzene	<21.7	ug/kg	21.7	21.7	1	12/15/16 13:40	12/16/16 12:32	120-82-1	
1,1,1-Trichloroethane	<29.4	ug/kg	29.4	29.4	1	12/15/16 13:40	12/16/16 12:32	71-55-6	
1,1,2-Trichloroethane	<15.2	ug/kg	15.2	15.2	1	12/15/16 13:40	12/16/16 12:32	79-00-5	
Trichloroethene	<67.0	ug/kg	67.0	20.1	1	12/15/16 13:40	12/16/16 12:32	79-01-6	
Trichlorofluoromethane	<235	ug/kg	235	70.7	1	12/15/16 13:40	12/16/16 12:32	75-69-4	
1,2,3-Trichloropropane	<72.9	ug/kg	72.9	72.9	1	12/15/16 13:40	12/16/16 12:32	96-18-4	
1,1,2-Trichlorotrifluoroethane	<169	ug/kg	169	50.7	1	12/15/16 13:40	12/16/16 12:32	76-13-1	
1,2,4-Trimethylbenzene	<15.5	ug/kg	15.5	15.5	1	12/15/16 13:40	12/16/16 12:32	95-63-6	
1,3,5-Trimethylbenzene	<53.9	ug/kg	53.9	16.2	1	12/15/16 13:40	12/16/16 12:32	108-67-8	
Vinyl chloride	<30.1	ug/kg	30.1	9.0	1	12/15/16 13:40	12/16/16 12:32	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP10\_5-7**      **Lab ID: 10373306002**      Collected: 12/13/16 12:15      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>346</b>	ug/kg	188	56.3	1	12/15/16 13:40	12/16/16 12:32	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%	75-129		1	12/15/16 13:40	12/16/16 12:32	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/15/16 13:40	12/16/16 12:32	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/15/16 13:40	12/16/16 12:32	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP10\_13-15**      **Lab ID: 10373306003**      Collected: 12/13/16 12:20      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>28.9</b>	%	0.10	0.10	1		12/28/16 11:56		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.8	ug/kg	1.8	0.55	1	12/15/16 06:57	12/22/16 19:13	83-32-9	
Acenaphthylene	<1.3	ug/kg	1.3	0.38	1	12/15/16 06:57	12/22/16 19:13	208-96-8	
Anthracene	<2.1	ug/kg	2.1	0.64	1	12/15/16 06:57	12/22/16 19:13	120-12-7	
Benzo(a)anthracene	<2.2	ug/kg	2.2	0.66	1	12/15/16 06:57	12/22/16 19:13	56-55-3	
Benzo(a)pyrene	<1.6	ug/kg	1.6	0.49	1	12/15/16 06:57	12/22/16 19:13	50-32-8	
Benzo(b)fluoranthene	<2.7	ug/kg	2.7	0.80	1	12/15/16 06:57	12/22/16 19:13	205-99-2	
Benzo(g,h,i)perylene	<2.1	ug/kg	2.1	0.64	1	12/15/16 06:57	12/22/16 19:13	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	2.3	0.69	1	12/15/16 06:57	12/22/16 19:13	207-08-9	
Chrysene	<2.6	ug/kg	2.6	0.78	1	12/15/16 06:57	12/22/16 19:13	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.46	1	12/15/16 06:57	12/22/16 19:13	53-70-3	
Fluoranthene	<3.7	ug/kg	3.7	1.1	1	12/15/16 06:57	12/22/16 19:13	206-44-0	
Fluorene	<1.8	ug/kg	1.8	0.54	1	12/15/16 06:57	12/22/16 19:13	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.5	ug/kg	3.5	1.1	1	12/15/16 06:57	12/22/16 19:13	193-39-5	
Naphthalene	<1.7	ug/kg	1.7	0.50	1	12/15/16 06:57	12/22/16 19:13	91-20-3	B
Phenanthrene	<1.9	ug/kg	1.9	0.56	1	12/15/16 06:57	12/22/16 19:13	85-01-8	
Pyrene	<3.9	ug/kg	3.9	1.2	1	12/15/16 06:57	12/22/16 19:13	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	86	%	41-125		1	12/15/16 06:57	12/22/16 19:13	321-60-8	
p-Terphenyl-d14 (S)	83	%	39-125		1	12/15/16 06:57	12/22/16 19:13	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1780	ug/kg	1780	536	1	12/15/16 13:40	12/16/16 12:50	67-64-1	
Allyl chloride	<233	ug/kg	233	70.1	1	12/15/16 13:40	12/16/16 12:50	107-05-1	
Benzene	29900	ug/kg	235	70.6	10	12/15/16 13:40	12/20/16 19:59	71-43-2	
Bromobenzene	<69.6	ug/kg	69.6	20.9	1	12/15/16 13:40	12/16/16 12:50	108-86-1	
Bromochloromethane	<81.1	ug/kg	81.1	24.3	1	12/15/16 13:40	12/16/16 12:50	74-97-5	
Bromodichloromethane	<76.2	ug/kg	76.2	22.9	1	12/15/16 13:40	12/16/16 12:50	75-27-4	
Bromoform	<234	ug/kg	234	70.4	1	12/15/16 13:40	12/16/16 12:50	75-25-2	
Bromomethane	<276	ug/kg	276	82.8	1	12/15/16 13:40	12/16/16 12:50	74-83-9	
2-Butanone (MEK)	<359	ug/kg	359	108	1	12/15/16 13:40	12/16/16 12:50	78-93-3	
n-Butylbenzene	<65.8	ug/kg	65.8	19.8	1	12/15/16 13:40	12/16/16 12:50	104-51-8	
sec-Butylbenzene	<64.2	ug/kg	64.2	19.3	1	12/15/16 13:40	12/16/16 12:50	135-98-8	
tert-Butylbenzene	<86.0	ug/kg	86.0	25.8	1	12/15/16 13:40	12/16/16 12:50	98-06-6	
Carbon tetrachloride	<85.4	ug/kg	85.4	25.6	1	12/15/16 13:40	12/16/16 12:50	56-23-5	
Chlorobenzene	<47.3	ug/kg	47.3	14.2	1	12/15/16 13:40	12/16/16 12:50	108-90-7	
Chloroethane	<430	ug/kg	430	129	1	12/15/16 13:40	12/16/16 12:50	75-00-3	
Chloroform	<132	ug/kg	132	39.7	1	12/15/16 13:40	12/16/16 12:50	67-66-3	
Chloromethane	<132	ug/kg	132	39.5	1	12/15/16 13:40	12/16/16 12:50	74-87-3	
2-Chlorotoluene	<75.1	ug/kg	75.1	22.5	1	12/15/16 13:40	12/16/16 12:50	95-49-8	
4-Chlorotoluene	<71.3	ug/kg	71.3	21.4	1	12/15/16 13:40	12/16/16 12:50	106-43-4	
1,2-Dibromo-3-chloropropane	<159	ug/kg	159	159	1	12/15/16 13:40	12/16/16 12:50	96-12-8	
Dibromochloromethane	<233	ug/kg	233	70.1	1	12/15/16 13:40	12/16/16 12:50	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: **GP10\_13-15** Lab ID: **10373306003** Collected: 12/13/16 12:20 Received: 12/14/16 18:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<30.7	ug/kg	30.7	30.7	1	12/15/16 13:40	12/16/16 12:50	106-93-4	
Dibromomethane	<106	ug/kg	106	31.9	1	12/15/16 13:40	12/16/16 12:50	74-95-3	
1,2-Dichlorobenzene	<15.8	ug/kg	15.8	15.8	1	12/15/16 13:40	12/16/16 12:50	95-50-1	
1,3-Dichlorobenzene	<24.0	ug/kg	24.0	24.0	1	12/15/16 13:40	12/16/16 12:50	541-73-1	
1,4-Dichlorobenzene	<78.9	ug/kg	78.9	23.7	1	12/15/16 13:40	12/16/16 12:50	106-46-7	
Dichlorodifluoromethane	<83.2	ug/kg	83.2	25.0	1	12/15/16 13:40	12/16/16 12:50	75-71-8	
1,1-Dichloroethane	<31.7	ug/kg	31.7	31.7	1	12/15/16 13:40	12/16/16 12:50	75-34-3	
1,2-Dichloroethane	<25.8	ug/kg	25.8	25.8	1	12/15/16 13:40	12/16/16 12:50	107-06-2	
1,1-Dichloroethene	<20.7	ug/kg	20.7	20.7	1	12/15/16 13:40	12/16/16 12:50	75-35-4	
cis-1,2-Dichloroethene	<101	ug/kg	101	30.4	1	12/15/16 13:40	12/16/16 12:50	156-59-2	
trans-1,2-Dichloroethene	<131	ug/kg	131	39.4	1	12/15/16 13:40	12/16/16 12:50	156-60-5	
Dichlorofluoromethane	<745	ug/kg	745	224	1	12/15/16 13:40	12/16/16 12:50	75-43-4	
1,2-Dichloropropane	<28.3	ug/kg	28.3	28.3	1	12/15/16 13:40	12/16/16 12:50	78-87-5	
1,3-Dichloropropane	<97.4	ug/kg	97.4	29.2	1	12/15/16 13:40	12/16/16 12:50	142-28-9	
2,2-Dichloropropane	<86.5	ug/kg	86.5	26.0	1	12/15/16 13:40	12/16/16 12:50	594-20-7	
1,1-Dichloropropene	<24.7	ug/kg	24.7	24.7	1	12/15/16 13:40	12/16/16 12:50	563-58-6	
cis-1,3-Dichloropropene	<124	ug/kg	124	37.2	1	12/15/16 13:40	12/16/16 12:50	10061-01-5	
trans-1,3-Dichloropropene	<92.5	ug/kg	92.5	27.8	1	12/15/16 13:40	12/16/16 12:50	10061-02-6	
Diethyl ether (Ethyl ether)	<112	ug/kg	112	33.7	1	12/15/16 13:40	12/16/16 12:50	60-29-7	
Ethylbenzene	<86.5	ug/kg	86.5	26.0	1	12/15/16 13:40	12/16/16 12:50	100-41-4	
Hexachloro-1,3-butadiene	<256	ug/kg	256	76.8	1	12/15/16 13:40	12/16/16 12:50	87-68-3	
Isopropylbenzene (Cumene)	<96.8	ug/kg	96.8	29.1	1	12/15/16 13:40	12/16/16 12:50	98-82-8	
p-Isopropyltoluene	<45.2	ug/kg	45.2	13.6	1	12/15/16 13:40	12/16/16 12:50	99-87-6	
Methylene Chloride	<504	ug/kg	504	151	1	12/15/16 13:40	12/16/16 12:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	<180	ug/kg	180	54.1	1	12/15/16 13:40	12/16/16 12:50	108-10-1	
Methyl-tert-butyl ether	<50.9	ug/kg	50.9	15.3	1	12/15/16 13:40	12/16/16 12:50	1634-04-4	
Naphthalene	<65.8	ug/kg	65.8	19.8	1	12/15/16 13:40	12/16/16 12:50	91-20-3	
n-Propylbenzene	<81.1	ug/kg	81.1	24.3	1	12/15/16 13:40	12/16/16 12:50	103-65-1	
Styrene	<70.7	ug/kg	70.7	21.2	1	12/15/16 13:40	12/16/16 12:50	100-42-5	
1,1,1,2-Tetrachloroethane	<32.3	ug/kg	32.3	32.3	1	12/15/16 13:40	12/16/16 12:50	630-20-6	
1,1,2,2-Tetrachloroethane	<18.1	ug/kg	18.1	18.1	1	12/15/16 13:40	12/16/16 12:50	79-34-5	
Tetrachloroethene	<104	ug/kg	104	31.2	1	12/15/16 13:40	12/16/16 12:50	127-18-4	
Tetrahydrofuran	<1350	ug/kg	1350	405	1	12/15/16 13:40	12/16/16 12:50	109-99-9	
Toluene	<86.5	ug/kg	86.5	26.0	1	12/15/16 13:40	12/16/16 12:50	108-88-3	
1,2,3-Trichlorobenzene	<23.5	ug/kg	23.5	23.5	1	12/15/16 13:40	12/16/16 12:50	87-61-6	
1,2,4-Trichlorobenzene	<25.2	ug/kg	25.2	25.2	1	12/15/16 13:40	12/16/16 12:50	120-82-1	
1,1,1-Trichloroethane	<34.1	ug/kg	34.1	34.1	1	12/15/16 13:40	12/16/16 12:50	71-55-6	
1,1,2-Trichloroethane	<17.6	ug/kg	17.6	17.6	1	12/15/16 13:40	12/16/16 12:50	79-00-5	
Trichloroethene	<77.8	ug/kg	77.8	23.4	1	12/15/16 13:40	12/16/16 12:50	79-01-6	
Trichlorofluoromethane	<273	ug/kg	273	82.0	1	12/15/16 13:40	12/16/16 12:50	75-69-4	
1,2,3-Trichloropropane	<84.6	ug/kg	84.6	84.6	1	12/15/16 13:40	12/16/16 12:50	96-18-4	
1,1,2-Trichlorotrifluoroethane	<196	ug/kg	196	58.8	1	12/15/16 13:40	12/16/16 12:50	76-13-1	
1,2,4-Trimethylbenzene	<18.0	ug/kg	18.0	18.0	1	12/15/16 13:40	12/16/16 12:50	95-63-6	
1,3,5-Trimethylbenzene	<62.6	ug/kg	62.6	18.8	1	12/15/16 13:40	12/16/16 12:50	108-67-8	
Vinyl chloride	<34.9	ug/kg	34.9	10.5	1	12/15/16 13:40	12/16/16 12:50	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP10\_13-15**      **Lab ID: 10373306003**      Collected: 12/13/16 12:20      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>&lt;218</b>	ug/kg	218	65.3	1	12/15/16 13:40	12/16/16 12:50	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-129		1	12/15/16 13:40	12/16/16 12:50	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/15/16 13:40	12/16/16 12:50	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/15/16 13:40	12/16/16 12:50	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP11\_0-2**      **Lab ID: 10373306004**      Collected: 12/13/16 12:55      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	14.7	%	0.10	0.10	1		12/28/16 11:56		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	13.0	ug/kg	1.5	0.46	1	12/15/16 06:57	12/23/16 14:31	83-32-9	
Acenaphthylene	19.4	ug/kg	1.1	0.32	1	12/15/16 06:57	12/23/16 14:31	208-96-8	
Anthracene	32.7	ug/kg	1.8	0.53	1	12/15/16 06:57	12/23/16 14:31	120-12-7	
Benzo(a)anthracene	85.2	ug/kg	1.8	0.55	1	12/15/16 06:57	12/23/16 14:31	56-55-3	
Benzo(a)pyrene	103	ug/kg	1.4	0.41	1	12/15/16 06:57	12/23/16 14:31	50-32-8	
Benzo(b)fluoranthene	116	ug/kg	2.2	0.67	1	12/15/16 06:57	12/23/16 14:31	205-99-2	
Benzo(g,h,i)perylene	86.5	ug/kg	1.8	0.54	1	12/15/16 06:57	12/23/16 14:31	191-24-2	
Benzo(k)fluoranthene	50.2	ug/kg	1.9	0.58	1	12/15/16 06:57	12/23/16 14:31	207-08-9	
Chrysene	97.0	ug/kg	2.2	0.65	1	12/15/16 06:57	12/23/16 14:31	218-01-9	
Dibenz(a,h)anthracene	21.3	ug/kg	1.3	0.38	1	12/15/16 06:57	12/23/16 14:31	53-70-3	
Fluoranthene	157	ug/kg	3.1	0.92	1	12/15/16 06:57	12/23/16 14:31	206-44-0	
Fluorene	13.2	ug/kg	1.5	0.45	1	12/15/16 06:57	12/23/16 14:31	86-73-7	
Indeno(1,2,3-cd)pyrene	66.2	ug/kg	2.9	0.88	1	12/15/16 06:57	12/23/16 14:31	193-39-5	
Naphthalene	24.6	ug/kg	1.4	0.42	1	12/15/16 06:57	12/23/16 14:31	91-20-3	
Phenanthrene	115	ug/kg	1.6	0.47	1	12/15/16 06:57	12/23/16 14:31	85-01-8	
Pyrene	152	ug/kg	3.2	0.97	1	12/15/16 06:57	12/23/16 14:31	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	78	%	41-125		1	12/15/16 06:57	12/23/16 14:31	321-60-8	
p-Terphenyl-d14 (S)	83	%	39-125		1	12/15/16 06:57	12/23/16 14:31	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1320	ug/kg	1320	397	1	12/15/16 13:40	12/21/16 05:40	67-64-1	
Allyl chloride	<173	ug/kg	173	51.9	1	12/15/16 13:40	12/21/16 05:40	107-05-1	
Benzene	283	ug/kg	17.4	5.2	1	12/15/16 13:40	12/21/16 05:40	71-43-2	
Bromobenzene	<51.6	ug/kg	51.6	15.5	1	12/15/16 13:40	12/21/16 05:40	108-86-1	
Bromochloromethane	<60.1	ug/kg	60.1	18.0	1	12/15/16 13:40	12/21/16 05:40	74-97-5	
Bromodichloromethane	<56.4	ug/kg	56.4	17.0	1	12/15/16 13:40	12/21/16 05:40	75-27-4	
Bromoform	<174	ug/kg	174	52.2	1	12/15/16 13:40	12/21/16 05:40	75-25-2	
Bromomethane	<204	ug/kg	204	61.4	1	12/15/16 13:40	12/21/16 05:40	74-83-9	
2-Butanone (MEK)	<266	ug/kg	266	79.9	1	12/15/16 13:40	12/21/16 05:40	78-93-3	
n-Butylbenzene	<48.8	ug/kg	48.8	14.7	1	12/15/16 13:40	12/21/16 05:40	104-51-8	
sec-Butylbenzene	<47.6	ug/kg	47.6	14.3	1	12/15/16 13:40	12/21/16 05:40	135-98-8	
tert-Butylbenzene	<63.7	ug/kg	63.7	19.1	1	12/15/16 13:40	12/21/16 05:40	98-06-6	
Carbon tetrachloride	<63.3	ug/kg	63.3	19.0	1	12/15/16 13:40	12/21/16 05:40	56-23-5	
Chlorobenzene	<35.1	ug/kg	35.1	10.5	1	12/15/16 13:40	12/21/16 05:40	108-90-7	
Chloroethane	<319	ug/kg	319	95.7	1	12/15/16 13:40	12/21/16 05:40	75-00-3	
Chloroform	<98.0	ug/kg	98.0	29.4	1	12/15/16 13:40	12/21/16 05:40	67-66-3	
Chloromethane	<97.6	ug/kg	97.6	29.3	1	12/15/16 13:40	12/21/16 05:40	74-87-3	
2-Chlorotoluene	<55.6	ug/kg	55.6	16.7	1	12/15/16 13:40	12/21/16 05:40	95-49-8	
4-Chlorotoluene	<52.8	ug/kg	52.8	15.9	1	12/15/16 13:40	12/21/16 05:40	106-43-4	
1,2-Dibromo-3-chloropropane	<118	ug/kg	118	118	1	12/15/16 13:40	12/21/16 05:40	96-12-8	
Dibromochloromethane	<173	ug/kg	173	51.9	1	12/15/16 13:40	12/21/16 05:40	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP11\_0-2**      **Lab ID: 10373306004**      Collected: 12/13/16 12:55      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<22.8	ug/kg	22.8	22.8	1	12/15/16 13:40	12/21/16 05:40	106-93-4	
Dibromomethane	<78.6	ug/kg	78.6	23.6	1	12/15/16 13:40	12/21/16 05:40	74-95-3	
1,2-Dichlorobenzene	<11.7	ug/kg	11.7	11.7	1	12/15/16 13:40	12/21/16 05:40	95-50-1	
1,3-Dichlorobenzene	<17.8	ug/kg	17.8	17.8	1	12/15/16 13:40	12/21/16 05:40	541-73-1	
1,4-Dichlorobenzene	<58.5	ug/kg	58.5	17.6	1	12/15/16 13:40	12/21/16 05:40	106-46-7	
Dichlorodifluoromethane	<61.7	ug/kg	61.7	18.5	1	12/15/16 13:40	12/21/16 05:40	75-71-8	
1,1-Dichloroethane	<23.5	ug/kg	23.5	23.5	1	12/15/16 13:40	12/21/16 05:40	75-34-3	
1,2-Dichloroethane	<19.1	ug/kg	19.1	19.1	1	12/15/16 13:40	12/21/16 05:40	107-06-2	
1,1-Dichloroethene	<15.4	ug/kg	15.4	15.4	1	12/15/16 13:40	12/21/16 05:40	75-35-4	
cis-1,2-Dichloroethene	<75.0	ug/kg	75.0	22.5	1	12/15/16 13:40	12/21/16 05:40	156-59-2	
trans-1,2-Dichloroethene	<97.2	ug/kg	97.2	29.2	1	12/15/16 13:40	12/21/16 05:40	156-60-5	
Dichlorofluoromethane	<552	ug/kg	552	166	1	12/15/16 13:40	12/21/16 05:40	75-43-4	
1,2-Dichloropropane	<20.9	ug/kg	20.9	20.9	1	12/15/16 13:40	12/21/16 05:40	78-87-5	
1,3-Dichloropropane	<72.2	ug/kg	72.2	21.7	1	12/15/16 13:40	12/21/16 05:40	142-28-9	
2,2-Dichloropropane	<64.1	ug/kg	64.1	19.3	1	12/15/16 13:40	12/21/16 05:40	594-20-7	
1,1-Dichloropropene	<18.3	ug/kg	18.3	18.3	1	12/15/16 13:40	12/21/16 05:40	563-58-6	
cis-1,3-Dichloropropene	<91.9	ug/kg	91.9	27.6	1	12/15/16 13:40	12/21/16 05:40	10061-01-5	
trans-1,3-Dichloropropene	<68.5	ug/kg	68.5	20.6	1	12/15/16 13:40	12/21/16 05:40	10061-02-6	
Diethyl ether (Ethyl ether)	<83.1	ug/kg	83.1	24.9	1	12/15/16 13:40	12/21/16 05:40	60-29-7	
Ethylbenzene	74.5	ug/kg	64.1	19.3	1	12/15/16 13:40	12/21/16 05:40	100-41-4	
Hexachloro-1,3-butadiene	<189	ug/kg	189	56.9	1	12/15/16 13:40	12/21/16 05:40	87-68-3	
Isopropylbenzene (Cumene)	<71.8	ug/kg	71.8	21.6	1	12/15/16 13:40	12/21/16 05:40	98-82-8	
p-Isopropyltoluene	<33.5	ug/kg	33.5	10.0	1	12/15/16 13:40	12/21/16 05:40	99-87-6	
Methylene Chloride	<373	ug/kg	373	112	1	12/15/16 13:40	12/21/16 05:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	<133	ug/kg	133	40.1	1	12/15/16 13:40	12/21/16 05:40	108-10-1	
Methyl-tert-butyl ether	<37.7	ug/kg	37.7	11.3	1	12/15/16 13:40	12/21/16 05:40	1634-04-4	
Naphthalene	88.4	ug/kg	48.8	14.7	1	12/15/16 13:40	12/21/16 05:40	91-20-3	
n-Propylbenzene	<60.1	ug/kg	60.1	18.0	1	12/15/16 13:40	12/21/16 05:40	103-65-1	
Styrene	<52.4	ug/kg	52.4	15.7	1	12/15/16 13:40	12/21/16 05:40	100-42-5	
1,1,1,2-Tetrachloroethane	<24.0	ug/kg	24.0	24.0	1	12/15/16 13:40	12/21/16 05:40	630-20-6	
1,1,2,2-Tetrachloroethane	<13.4	ug/kg	13.4	13.4	1	12/15/16 13:40	12/21/16 05:40	79-34-5	
Tetrachloroethene	<77.0	ug/kg	77.0	23.1	1	12/15/16 13:40	12/21/16 05:40	127-18-4	
Tetrahydrofuran	<1000	ug/kg	1000	300	1	12/15/16 13:40	12/21/16 05:40	109-99-9	
Toluene	184	ug/kg	64.1	19.3	1	12/15/16 13:40	12/21/16 05:40	108-88-3	
1,2,3-Trichlorobenzene	<17.4	ug/kg	17.4	17.4	1	12/15/16 13:40	12/21/16 05:40	87-61-6	
1,2,4-Trichlorobenzene	<18.6	ug/kg	18.6	18.6	1	12/15/16 13:40	12/21/16 05:40	120-82-1	
1,1,1-Trichloroethane	<25.3	ug/kg	25.3	25.3	1	12/15/16 13:40	12/21/16 05:40	71-55-6	
1,1,2-Trichloroethane	<13.1	ug/kg	13.1	13.1	1	12/15/16 13:40	12/21/16 05:40	79-00-5	
Trichloroethene	<57.7	ug/kg	57.7	17.3	1	12/15/16 13:40	12/21/16 05:40	79-01-6	
Trichlorofluoromethane	<202	ug/kg	202	60.8	1	12/15/16 13:40	12/21/16 05:40	75-69-4	
1,2,3-Trichloropropane	<62.7	ug/kg	62.7	62.7	1	12/15/16 13:40	12/21/16 05:40	96-18-4	
1,1,2-Trichlorotrifluoroethane	<145	ug/kg	145	43.6	1	12/15/16 13:40	12/21/16 05:40	76-13-1	
1,2,4-Trimethylbenzene	27.6	ug/kg	13.3	13.3	1	12/15/16 13:40	12/21/16 05:40	95-63-6	
1,3,5-Trimethylbenzene	<46.4	ug/kg	46.4	13.9	1	12/15/16 13:40	12/21/16 05:40	108-67-8	
Vinyl chloride	<25.9	ug/kg	25.9	7.8	1	12/15/16 13:40	12/21/16 05:40	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: GP11\_0-2**      **Lab ID: 10373306004**      Collected: 12/13/16 12:55      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<161	ug/kg	161	48.4	1	12/15/16 13:40	12/21/16 05:40	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%	75-129		1	12/15/16 13:40	12/21/16 05:40	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/15/16 13:40	12/21/16 05:40	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/15/16 13:40	12/21/16 05:40	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample:** GP11\_3-5      **Lab ID:** 10373306005      Collected: 12/13/16 12:40      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	22.4	%	0.10	0.10	1		12/28/16 11:56		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.50	1	12/15/16 06:57	12/22/16 19:34	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.35	1	12/15/16 06:57	12/22/16 19:34	208-96-8	
Anthracene	<1.9	ug/kg	1.9	0.58	1	12/15/16 06:57	12/22/16 19:34	120-12-7	
Benzo(a)anthracene	<2.0	ug/kg	2.0	0.60	1	12/15/16 06:57	12/22/16 19:34	56-55-3	
Benzo(a)pyrene	<1.5	ug/kg	1.5	0.45	1	12/15/16 06:57	12/22/16 19:34	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	2.5	0.74	1	12/15/16 06:57	12/22/16 19:34	205-99-2	
Benzo(g,h,i)perylene	<2.0	ug/kg	2.0	0.59	1	12/15/16 06:57	12/22/16 19:34	191-24-2	
Benzo(k)fluoranthene	<2.1	ug/kg	2.1	0.63	1	12/15/16 06:57	12/22/16 19:34	207-08-9	
Chrysene	<2.4	ug/kg	2.4	0.71	1	12/15/16 06:57	12/22/16 19:34	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.42	1	12/15/16 06:57	12/22/16 19:34	53-70-3	
Fluoranthene	<3.4	ug/kg	3.4	1.0	1	12/15/16 06:57	12/22/16 19:34	206-44-0	
Fluorene	<1.6	ug/kg	1.6	0.49	1	12/15/16 06:57	12/22/16 19:34	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.2	ug/kg	3.2	0.96	1	12/15/16 06:57	12/22/16 19:34	193-39-5	
Naphthalene	<1.5	ug/kg	1.5	0.46	1	12/15/16 06:57	12/22/16 19:34	91-20-3	B
Phenanthrene	<1.7	ug/kg	1.7	0.52	1	12/15/16 06:57	12/22/16 19:34	85-01-8	
Pyrene	<3.5	ug/kg	3.5	1.1	1	12/15/16 06:57	12/22/16 19:34	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	79	%	41-125		1	12/15/16 06:57	12/22/16 19:34	321-60-8	
p-Terphenyl-d14 (S)	81	%	39-125		1	12/15/16 06:57	12/22/16 19:34	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1390	ug/kg	1390	417	1	12/15/16 13:40	12/23/16 19:32	67-64-1	
Allyl chloride	<182	ug/kg	182	54.5	1	12/15/16 13:40	12/23/16 19:32	107-05-1	
Benzene	<18.3	ug/kg	18.3	5.5	1	12/15/16 13:40	12/23/16 19:32	71-43-2	
Bromobenzene	<54.2	ug/kg	54.2	16.3	1	12/15/16 13:40	12/23/16 19:32	108-86-1	
Bromochloromethane	<63.1	ug/kg	63.1	18.9	1	12/15/16 13:40	12/23/16 19:32	74-97-5	
Bromodichloromethane	<59.2	ug/kg	59.2	17.8	1	12/15/16 13:40	12/23/16 19:32	75-27-4	
Bromoform	<182	ug/kg	182	54.8	1	12/15/16 13:40	12/23/16 19:32	75-25-2	
Bromomethane	<215	ug/kg	215	64.4	1	12/15/16 13:40	12/23/16 19:32	74-83-9	
2-Butanone (MEK)	<279	ug/kg	279	83.9	1	12/15/16 13:40	12/23/16 19:32	78-93-3	
n-Butylbenzene	<51.2	ug/kg	51.2	15.4	1	12/15/16 13:40	12/23/16 19:32	104-51-8	
sec-Butylbenzene	<49.9	ug/kg	49.9	15.0	1	12/15/16 13:40	12/23/16 19:32	135-98-8	
tert-Butylbenzene	<66.9	ug/kg	66.9	20.1	1	12/15/16 13:40	12/23/16 19:32	98-06-6	
Carbon tetrachloride	<66.4	ug/kg	66.4	20.0	1	12/15/16 13:40	12/23/16 19:32	56-23-5	
Chlorobenzene	<36.8	ug/kg	36.8	11.1	1	12/15/16 13:40	12/23/16 19:32	108-90-7	
Chloroethane	<334	ug/kg	334	100	1	12/15/16 13:40	12/23/16 19:32	75-00-3	
Chloroform	<103	ug/kg	103	30.9	1	12/15/16 13:40	12/23/16 19:32	67-66-3	
Chloromethane	<102	ug/kg	102	30.8	1	12/15/16 13:40	12/23/16 19:32	74-87-3	
2-Chlorotoluene	<58.4	ug/kg	58.4	17.5	1	12/15/16 13:40	12/23/16 19:32	95-49-8	
4-Chlorotoluene	<55.4	ug/kg	55.4	16.6	1	12/15/16 13:40	12/23/16 19:32	106-43-4	
1,2-Dibromo-3-chloropropane	<124	ug/kg	124	124	1	12/15/16 13:40	12/23/16 19:32	96-12-8	
Dibromochloromethane	<182	ug/kg	182	54.5	1	12/15/16 13:40	12/23/16 19:32	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: GP11\_3-5 Lab ID: 10373306005 Collected: 12/13/16 12:40 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<23.9	ug/kg	23.9	23.9	1	12/15/16 13:40	12/23/16 19:32	106-93-4	
Dibromomethane	<82.5	ug/kg	82.5	24.8	1	12/15/16 13:40	12/23/16 19:32	74-95-3	
1,2-Dichlorobenzene	<12.3	ug/kg	12.3	12.3	1	12/15/16 13:40	12/23/16 19:32	95-50-1	
1,3-Dichlorobenzene	<18.7	ug/kg	18.7	18.7	1	12/15/16 13:40	12/23/16 19:32	541-73-1	
1,4-Dichlorobenzene	<61.4	ug/kg	61.4	18.4	1	12/15/16 13:40	12/23/16 19:32	106-46-7	
Dichlorodifluoromethane	<64.7	ug/kg	64.7	19.4	1	12/15/16 13:40	12/23/16 19:32	75-71-8	
1,1-Dichloroethane	<24.7	ug/kg	24.7	24.7	1	12/15/16 13:40	12/23/16 19:32	75-34-3	
1,2-Dichloroethane	<20.1	ug/kg	20.1	20.1	1	12/15/16 13:40	12/23/16 19:32	107-06-2	
1,1-Dichloroethene	<16.1	ug/kg	16.1	16.1	1	12/15/16 13:40	12/23/16 19:32	75-35-4	
cis-1,2-Dichloroethene	<78.7	ug/kg	78.7	23.6	1	12/15/16 13:40	12/23/16 19:32	156-59-2	
trans-1,2-Dichloroethene	<102	ug/kg	102	30.6	1	12/15/16 13:40	12/23/16 19:32	156-60-5	
Dichlorofluoromethane	<580	ug/kg	580	174	1	12/15/16 13:40	12/23/16 19:32	75-43-4	
1,2-Dichloropropane	<22.0	ug/kg	22.0	22.0	1	12/15/16 13:40	12/23/16 19:32	78-87-5	
1,3-Dichloropropane	<75.7	ug/kg	75.7	22.7	1	12/15/16 13:40	12/23/16 19:32	142-28-9	
2,2-Dichloropropane	<67.3	ug/kg	67.3	20.2	1	12/15/16 13:40	12/23/16 19:32	594-20-7	
1,1-Dichloropropene	<19.2	ug/kg	19.2	19.2	1	12/15/16 13:40	12/23/16 19:32	563-58-6	
cis-1,3-Dichloropropene	<96.5	ug/kg	96.5	29.0	1	12/15/16 13:40	12/23/16 19:32	10061-01-5	
trans-1,3-Dichloropropene	<71.9	ug/kg	71.9	21.6	1	12/15/16 13:40	12/23/16 19:32	10061-02-6	
Diethyl ether (Ethyl ether)	<87.2	ug/kg	87.2	26.2	1	12/15/16 13:40	12/23/16 19:32	60-29-7	
Ethylbenzene	<67.3	ug/kg	67.3	20.2	1	12/15/16 13:40	12/23/16 19:32	100-41-4	
Hexachloro-1,3-butadiene	<199	ug/kg	199	59.7	1	12/15/16 13:40	12/23/16 19:32	87-68-3	
Isopropylbenzene (Cumene)	<75.3	ug/kg	75.3	22.6	1	12/15/16 13:40	12/23/16 19:32	98-82-8	
p-Isopropyltoluene	<35.1	ug/kg	35.1	10.5	1	12/15/16 13:40	12/23/16 19:32	99-87-6	
Methylene Chloride	<392	ug/kg	392	118	1	12/15/16 13:40	12/23/16 19:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	<140	ug/kg	140	42.1	1	12/15/16 13:40	12/23/16 19:32	108-10-1	
Methyl-tert-butyl ether	<39.6	ug/kg	39.6	11.9	1	12/15/16 13:40	12/23/16 19:32	1634-04-4	
Naphthalene	<51.2	ug/kg	51.2	15.4	1	12/15/16 13:40	12/23/16 19:32	91-20-3	
n-Propylbenzene	<63.1	ug/kg	63.1	18.9	1	12/15/16 13:40	12/23/16 19:32	103-65-1	
Styrene	<55.0	ug/kg	55.0	16.5	1	12/15/16 13:40	12/23/16 19:32	100-42-5	
1,1,1,2-Tetrachloroethane	<25.2	ug/kg	25.2	25.2	1	12/15/16 13:40	12/23/16 19:32	630-20-6	
1,1,2,2-Tetrachloroethane	<14.1	ug/kg	14.1	14.1	1	12/15/16 13:40	12/23/16 19:32	79-34-5	
Tetrachloroethene	<80.8	ug/kg	80.8	24.3	1	12/15/16 13:40	12/23/16 19:32	127-18-4	
Tetrahydrofuran	<1050	ug/kg	1050	315	1	12/15/16 13:40	12/23/16 19:32	109-99-9	
Toluene	<67.3	ug/kg	67.3	20.2	1	12/15/16 13:40	12/23/16 19:32	108-88-3	
1,2,3-Trichlorobenzene	<18.3	ug/kg	18.3	18.3	1	12/15/16 13:40	12/23/16 19:32	87-61-6	
1,2,4-Trichlorobenzene	<19.6	ug/kg	19.6	19.6	1	12/15/16 13:40	12/23/16 19:32	120-82-1	
1,1,1-Trichloroethane	<26.6	ug/kg	26.6	26.6	1	12/15/16 13:40	12/23/16 19:32	71-55-6	
1,1,2-Trichloroethane	<13.7	ug/kg	13.7	13.7	1	12/15/16 13:40	12/23/16 19:32	79-00-5	
Trichloroethene	<60.5	ug/kg	60.5	18.2	1	12/15/16 13:40	12/23/16 19:32	79-01-6	
Trichlorofluoromethane	<212	ug/kg	212	63.8	1	12/15/16 13:40	12/23/16 19:32	75-69-4	
1,2,3-Trichloropropane	<65.8	ug/kg	65.8	65.8	1	12/15/16 13:40	12/23/16 19:32	96-18-4	
1,1,2-Trichlorotrifluoroethane	<152	ug/kg	152	45.7	1	12/15/16 13:40	12/23/16 19:32	76-13-1	
1,2,4-Trimethylbenzene	<14.0	ug/kg	14.0	14.0	1	12/15/16 13:40	12/23/16 19:32	95-63-6	
1,3,5-Trimethylbenzene	<48.7	ug/kg	48.7	14.6	1	12/15/16 13:40	12/23/16 19:32	108-67-8	
Vinyl chloride	<27.2	ug/kg	27.2	8.2	1	12/15/16 13:40	12/23/16 19:32	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: GP11\_3-5**      **Lab ID: 10373306005**      Collected: 12/13/16 12:40      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<169	ug/kg	169	50.8	1	12/15/16 13:40	12/23/16 19:32	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	110	%	75-129		1	12/15/16 13:40	12/23/16 19:32	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/15/16 13:40	12/23/16 19:32	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/15/16 13:40	12/23/16 19:32	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP11\_8-10**      **Lab ID: 10373306006**      Collected: 12/13/16 12:45      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	29.7	%	0.10	0.10	1		12/28/16 13:28		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.8	ug/kg	1.8	0.56	1	12/15/16 06:57	12/22/16 19:56	83-32-9	
Acenaphthylene	<1.3	ug/kg	1.3	0.39	1	12/15/16 06:57	12/22/16 19:56	208-96-8	
Anthracene	<2.1	ug/kg	2.1	0.64	1	12/15/16 06:57	12/22/16 19:56	120-12-7	
Benzo(a)anthracene	<2.2	ug/kg	2.2	0.67	1	12/15/16 06:57	12/22/16 19:56	56-55-3	
Benzo(a)pyrene	<1.6	ug/kg	1.6	0.49	1	12/15/16 06:57	12/22/16 19:56	50-32-8	
Benzo(b)fluoranthene	<2.7	ug/kg	2.7	0.81	1	12/15/16 06:57	12/22/16 19:56	205-99-2	
Benzo(g,h,i)perylene	<2.2	ug/kg	2.2	0.65	1	12/15/16 06:57	12/22/16 19:56	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	2.3	0.70	1	12/15/16 06:57	12/22/16 19:56	207-08-9	
Chrysene	<2.6	ug/kg	2.6	0.79	1	12/15/16 06:57	12/22/16 19:56	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.46	1	12/15/16 06:57	12/22/16 19:56	53-70-3	
Fluoranthene	<3.7	ug/kg	3.7	1.1	1	12/15/16 06:57	12/22/16 19:56	206-44-0	
Fluorene	<1.8	ug/kg	1.8	0.55	1	12/15/16 06:57	12/22/16 19:56	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.5	ug/kg	3.5	1.1	1	12/15/16 06:57	12/22/16 19:56	193-39-5	
Naphthalene	40.0	ug/kg	1.7	0.51	1	12/15/16 06:57	12/22/16 19:56	91-20-3	
Phenanthrene	<1.9	ug/kg	1.9	0.57	1	12/15/16 06:57	12/22/16 19:56	85-01-8	
Pyrene	<3.9	ug/kg	3.9	1.2	1	12/15/16 06:57	12/22/16 19:56	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	74	%	41-125		1	12/15/16 06:57	12/22/16 19:56	321-60-8	
p-Terphenyl-d14 (S)	82	%	39-125		1	12/15/16 06:57	12/22/16 19:56	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1610	ug/kg	1610	482	1	12/15/16 13:40	12/16/16 14:00	67-64-1	
Allyl chloride	<210	ug/kg	210	63.1	1	12/15/16 13:40	12/16/16 14:00	107-05-1	
Benzene	197	ug/kg	21.1	6.3	1	12/15/16 13:40	12/16/16 14:00	71-43-2	
Bromobenzene	<62.6	ug/kg	62.6	18.8	1	12/15/16 13:40	12/16/16 14:00	108-86-1	
Bromochloromethane	<72.9	ug/kg	72.9	21.9	1	12/15/16 13:40	12/16/16 14:00	74-97-5	
Bromodichloromethane	<68.5	ug/kg	68.5	20.6	1	12/15/16 13:40	12/16/16 14:00	75-27-4	
Bromoform	<211	ug/kg	211	63.3	1	12/15/16 13:40	12/16/16 14:00	75-25-2	
Bromomethane	<248	ug/kg	248	74.5	1	12/15/16 13:40	12/16/16 14:00	74-83-9	
2-Butanone (MEK)	<323	ug/kg	323	97.0	1	12/15/16 13:40	12/16/16 14:00	78-93-3	
n-Butylbenzene	<59.2	ug/kg	59.2	17.8	1	12/15/16 13:40	12/16/16 14:00	104-51-8	
sec-Butylbenzene	<57.8	ug/kg	57.8	17.3	1	12/15/16 13:40	12/16/16 14:00	135-98-8	
tert-Butylbenzene	<77.3	ug/kg	77.3	23.2	1	12/15/16 13:40	12/16/16 14:00	98-06-6	
Carbon tetrachloride	<76.8	ug/kg	76.8	23.1	1	12/15/16 13:40	12/16/16 14:00	56-23-5	
Chlorobenzene	<42.6	ug/kg	42.6	12.8	1	12/15/16 13:40	12/16/16 14:00	108-90-7	
Chloroethane	<387	ug/kg	387	116	1	12/15/16 13:40	12/16/16 14:00	75-00-3	
Chloroform	<119	ug/kg	119	35.7	1	12/15/16 13:40	12/16/16 14:00	67-66-3	
Chloromethane	<118	ug/kg	118	35.6	1	12/15/16 13:40	12/16/16 14:00	74-87-3	
2-Chlorotoluene	<67.5	ug/kg	67.5	20.3	1	12/15/16 13:40	12/16/16 14:00	95-49-8	
4-Chlorotoluene	<64.1	ug/kg	64.1	19.3	1	12/15/16 13:40	12/16/16 14:00	106-43-4	
1,2-Dibromo-3-chloropropane	<143	ug/kg	143	143	1	12/15/16 13:40	12/16/16 14:00	96-12-8	
Dibromochloromethane	<210	ug/kg	210	63.1	1	12/15/16 13:40	12/16/16 14:00	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP11\_8-10**      **Lab ID: 10373306006**      Collected: 12/13/16 12:45      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<27.6	ug/kg	27.6	27.6	1	12/15/16 13:40	12/16/16 14:00	106-93-4	
Dibromomethane	<95.4	ug/kg	95.4	28.7	1	12/15/16 13:40	12/16/16 14:00	74-95-3	
1,2-Dichlorobenzene	<14.2	ug/kg	14.2	14.2	1	12/15/16 13:40	12/16/16 14:00	95-50-1	
1,3-Dichlorobenzene	<21.6	ug/kg	21.6	21.6	1	12/15/16 13:40	12/16/16 14:00	541-73-1	
1,4-Dichlorobenzene	<71.0	ug/kg	71.0	21.3	1	12/15/16 13:40	12/16/16 14:00	106-46-7	
Dichlorodifluoromethane	<74.9	ug/kg	74.9	22.5	1	12/15/16 13:40	12/16/16 14:00	75-71-8	
1,1-Dichloroethane	<28.5	ug/kg	28.5	28.5	1	12/15/16 13:40	12/16/16 14:00	75-34-3	
1,2-Dichloroethane	<23.2	ug/kg	23.2	23.2	1	12/15/16 13:40	12/16/16 14:00	107-06-2	
1,1-Dichloroethene	<18.7	ug/kg	18.7	18.7	1	12/15/16 13:40	12/16/16 14:00	75-35-4	
cis-1,2-Dichloroethene	<91.0	ug/kg	91.0	27.3	1	12/15/16 13:40	12/16/16 14:00	156-59-2	
trans-1,2-Dichloroethene	<118	ug/kg	118	35.4	1	12/15/16 13:40	12/16/16 14:00	156-60-5	
Dichlorofluoromethane	<671	ug/kg	671	201	1	12/15/16 13:40	12/16/16 14:00	75-43-4	
1,2-Dichloropropane	<25.4	ug/kg	25.4	25.4	1	12/15/16 13:40	12/16/16 14:00	78-87-5	
1,3-Dichloropropane	<87.6	ug/kg	87.6	26.3	1	12/15/16 13:40	12/16/16 14:00	142-28-9	
2,2-Dichloropropane	<77.8	ug/kg	77.8	23.4	1	12/15/16 13:40	12/16/16 14:00	594-20-7	
1,1-Dichloropropene	<22.2	ug/kg	22.2	22.2	1	12/15/16 13:40	12/16/16 14:00	563-58-6	
cis-1,3-Dichloropropene	<112	ug/kg	112	33.5	1	12/15/16 13:40	12/16/16 14:00	10061-01-5	
trans-1,3-Dichloropropene	<83.2	ug/kg	83.2	25.0	1	12/15/16 13:40	12/16/16 14:00	10061-02-6	
Diethyl ether (Ethyl ether)	<101	ug/kg	101	30.3	1	12/15/16 13:40	12/16/16 14:00	60-29-7	
Ethylbenzene	<77.8	ug/kg	77.8	23.4	1	12/15/16 13:40	12/16/16 14:00	100-41-4	
Hexachloro-1,3-butadiene	<230	ug/kg	230	69.1	1	12/15/16 13:40	12/16/16 14:00	87-68-3	
Isopropylbenzene (Cumene)	<87.1	ug/kg	87.1	26.2	1	12/15/16 13:40	12/16/16 14:00	98-82-8	
p-Isopropyltoluene	<40.6	ug/kg	40.6	12.2	1	12/15/16 13:40	12/16/16 14:00	99-87-6	
Methylene Chloride	<453	ug/kg	453	136	1	12/15/16 13:40	12/16/16 14:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	<162	ug/kg	162	48.6	1	12/15/16 13:40	12/16/16 14:00	108-10-1	
Methyl-tert-butyl ether	<45.8	ug/kg	45.8	13.8	1	12/15/16 13:40	12/16/16 14:00	1634-04-4	
Naphthalene	438	ug/kg	59.2	17.8	1	12/15/16 13:40	12/16/16 14:00	91-20-3	
n-Propylbenzene	<72.9	ug/kg	72.9	21.9	1	12/15/16 13:40	12/16/16 14:00	103-65-1	
Styrene	<63.6	ug/kg	63.6	19.1	1	12/15/16 13:40	12/16/16 14:00	100-42-5	
1,1,1,2-Tetrachloroethane	<29.1	ug/kg	29.1	29.1	1	12/15/16 13:40	12/16/16 14:00	630-20-6	
1,1,2,2-Tetrachloroethane	<16.3	ug/kg	16.3	16.3	1	12/15/16 13:40	12/16/16 14:00	79-34-5	
Tetrachloroethene	<93.5	ug/kg	93.5	28.1	1	12/15/16 13:40	12/16/16 14:00	127-18-4	
Tetrahydrofuran	<1210	ug/kg	1210	365	1	12/15/16 13:40	12/16/16 14:00	109-99-9	
Toluene	<77.8	ug/kg	77.8	23.4	1	12/15/16 13:40	12/16/16 14:00	108-88-3	
1,2,3-Trichlorobenzene	<21.2	ug/kg	21.2	21.2	1	12/15/16 13:40	12/16/16 14:00	87-61-6	
1,2,4-Trichlorobenzene	<22.6	ug/kg	22.6	22.6	1	12/15/16 13:40	12/16/16 14:00	120-82-1	
1,1,1-Trichloroethane	<30.7	ug/kg	30.7	30.7	1	12/15/16 13:40	12/16/16 14:00	71-55-6	
1,1,2-Trichloroethane	<15.9	ug/kg	15.9	15.9	1	12/15/16 13:40	12/16/16 14:00	79-00-5	
Trichloroethene	<70.0	ug/kg	70.0	21.0	1	12/15/16 13:40	12/16/16 14:00	79-01-6	
Trichlorofluoromethane	<246	ug/kg	246	73.8	1	12/15/16 13:40	12/16/16 14:00	75-69-4	
1,2,3-Trichloropropane	<76.1	ug/kg	76.1	76.1	1	12/15/16 13:40	12/16/16 14:00	96-18-4	
1,1,2-Trichlorotrifluoroethane	<176	ug/kg	176	52.9	1	12/15/16 13:40	12/16/16 14:00	76-13-1	
1,2,4-Trimethylbenzene	85.6	ug/kg	16.2	16.2	1	12/15/16 13:40	12/16/16 14:00	95-63-6	
1,3,5-Trimethylbenzene	<56.3	ug/kg	56.3	16.9	1	12/15/16 13:40	12/16/16 14:00	108-67-8	
Vinyl chloride	<31.4	ug/kg	31.4	9.4	1	12/15/16 13:40	12/16/16 14:00	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: GP11\_8-10**      **Lab ID: 10373306006**      Collected: 12/13/16 12:45      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<196	ug/kg	196	58.8	1	12/15/16 13:40	12/16/16 14:00	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	107	%	75-129		1	12/15/16 13:40	12/16/16 14:00	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/15/16 13:40	12/16/16 14:00	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/15/16 13:40	12/16/16 14:00	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP12\_3-5**      **Lab ID: 10373306007**      Collected: 12/13/16 13:15      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>21.9</b>	%	0.10	0.10	1		12/28/16 13:28		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<b>250</b>	ug/kg	16.6	5.0	10	12/15/16 06:57	12/23/16 14:53	83-32-9	
Acenaphthylene	<b>10800</b>	ug/kg	231	69.3	200	12/15/16 06:57	12/23/16 15:15	208-96-8	
Anthracene	<b>1610</b>	ug/kg	19.3	5.8	10	12/15/16 06:57	12/23/16 14:53	120-12-7	
Benzo(a)anthracene	<b>9200</b>	ug/kg	398	119	200	12/15/16 06:57	12/23/16 15:15	56-55-3	
Benzo(a)pyrene	<b>34800</b>	ug/kg	294	88.4	200	12/15/16 06:57	12/23/16 15:15	50-32-8	
Benzo(b)fluoranthene	<b>26500</b>	ug/kg	486	146	200	12/15/16 06:57	12/23/16 15:15	205-99-2	
Benzo(g,h,i)perylene	<b>19800</b>	ug/kg	388	117	200	12/15/16 06:57	12/23/16 15:15	191-24-2	
Benzo(k)fluoranthene	<b>9340</b>	ug/kg	417	125	200	12/15/16 06:57	12/23/16 15:15	207-08-9	
Chrysene	<b>13500</b>	ug/kg	471	141	200	12/15/16 06:57	12/23/16 15:15	218-01-9	
Dibenz(a,h)anthracene	<b>5290</b>	ug/kg	277	83.3	200	12/15/16 06:57	12/23/16 15:15	53-70-3	
Fluoranthene	<b>1890</b>	ug/kg	33.2	10	10	12/15/16 06:57	12/23/16 14:53	206-44-0	
Fluorene	<b>1300</b>	ug/kg	16.3	4.9	10	12/15/16 06:57	12/23/16 14:53	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>15100</b>	ug/kg	636	191	200	12/15/16 06:57	12/23/16 15:15	193-39-5	
Naphthalene	<b>29600</b>	ug/kg	303	90.9	200	12/15/16 06:57	12/23/16 15:15	91-20-3	
Phenanthrene	<b>2370</b>	ug/kg	17.1	5.1	10	12/15/16 06:57	12/23/16 14:53	85-01-8	
Pyrene	<b>6690</b>	ug/kg	703	211	200	12/15/16 06:57	12/23/16 15:15	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	89	%	41-125		10	12/15/16 06:57	12/23/16 14:53	321-60-8	
p-Terphenyl-d14 (S)	90	%	39-125		10	12/15/16 06:57	12/23/16 14:53	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<b>&lt;1380</b>	ug/kg	1380	415	1	12/15/16 13:40	12/16/16 14:18	67-64-1	
Allyl chloride	<b>&lt;181</b>	ug/kg	181	54.3	1	12/15/16 13:40	12/16/16 14:18	107-05-1	
Benzene	<b>3460</b>	ug/kg	18.2	5.5	1	12/15/16 13:40	12/16/16 14:18	71-43-2	
Bromobenzene	<b>&lt;54.0</b>	ug/kg	54.0	16.2	1	12/15/16 13:40	12/16/16 14:18	108-86-1	
Bromochloromethane	<b>&lt;62.8</b>	ug/kg	62.8	18.9	1	12/15/16 13:40	12/16/16 14:18	74-97-5	
Bromodichloromethane	<b>&lt;59.0</b>	ug/kg	59.0	17.7	1	12/15/16 13:40	12/16/16 14:18	75-27-4	
Bromoform	<b>&lt;182</b>	ug/kg	182	54.6	1	12/15/16 13:40	12/16/16 14:18	75-25-2	
Bromomethane	<b>&lt;214</b>	ug/kg	214	64.2	1	12/15/16 13:40	12/16/16 14:18	74-83-9	
2-Butanone (MEK)	<b>&lt;278</b>	ug/kg	278	83.6	1	12/15/16 13:40	12/16/16 14:18	78-93-3	
n-Butylbenzene	<b>222</b>	ug/kg	51.0	15.3	1	12/15/16 13:40	12/16/16 14:18	104-51-8	
sec-Butylbenzene	<b>68.4</b>	ug/kg	49.8	14.9	1	12/15/16 13:40	12/16/16 14:18	135-98-8	
tert-Butylbenzene	<b>1300</b>	ug/kg	66.6	20.0	1	12/15/16 13:40	12/16/16 14:18	98-06-6	
Carbon tetrachloride	<b>&lt;66.2</b>	ug/kg	66.2	19.9	1	12/15/16 13:40	12/16/16 14:18	56-23-5	
Chlorobenzene	<b>&lt;36.7</b>	ug/kg	36.7	11.0	1	12/15/16 13:40	12/16/16 14:18	108-90-7	
Chloroethane	<b>&lt;333</b>	ug/kg	333	100	1	12/15/16 13:40	12/16/16 14:18	75-00-3	
Chloroform	<b>&lt;102</b>	ug/kg	102	30.8	1	12/15/16 13:40	12/16/16 14:18	67-66-3	
Chloromethane	<b>&lt;102</b>	ug/kg	102	30.6	1	12/15/16 13:40	12/16/16 14:18	74-87-3	
2-Chlorotoluene	<b>&lt;58.2</b>	ug/kg	58.2	17.5	1	12/15/16 13:40	12/16/16 14:18	95-49-8	
4-Chlorotoluene	<b>&lt;55.2</b>	ug/kg	55.2	16.6	1	12/15/16 13:40	12/16/16 14:18	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;123</b>	ug/kg	123	123	1	12/15/16 13:40	12/16/16 14:18	96-12-8	
Dibromochloromethane	<b>&lt;181</b>	ug/kg	181	54.3	1	12/15/16 13:40	12/16/16 14:18	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP12\_3-5**      **Lab ID: 10373306007**      Collected: 12/13/16 13:15      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<23.8	ug/kg	23.8	23.8	1	12/15/16 13:40	12/16/16 14:18	106-93-4	
Dibromomethane	<82.2	ug/kg	82.2	24.7	1	12/15/16 13:40	12/16/16 14:18	74-95-3	
1,2-Dichlorobenzene	<12.2	ug/kg	12.2	12.2	1	12/15/16 13:40	12/16/16 14:18	95-50-1	
1,3-Dichlorobenzene	<18.6	ug/kg	18.6	18.6	1	12/15/16 13:40	12/16/16 14:18	541-73-1	
1,4-Dichlorobenzene	<61.1	ug/kg	61.1	18.4	1	12/15/16 13:40	12/16/16 14:18	106-46-7	
Dichlorodifluoromethane	<64.5	ug/kg	64.5	19.4	1	12/15/16 13:40	12/16/16 14:18	75-71-8	
1,1-Dichloroethane	<24.6	ug/kg	24.6	24.6	1	12/15/16 13:40	12/16/16 14:18	75-34-3	
1,2-Dichloroethane	<20.0	ug/kg	20.0	20.0	1	12/15/16 13:40	12/16/16 14:18	107-06-2	
1,1-Dichloroethene	<16.1	ug/kg	16.1	16.1	1	12/15/16 13:40	12/16/16 14:18	75-35-4	
cis-1,2-Dichloroethene	<78.4	ug/kg	78.4	23.6	1	12/15/16 13:40	12/16/16 14:18	156-59-2	
trans-1,2-Dichloroethene	<102	ug/kg	102	30.5	1	12/15/16 13:40	12/16/16 14:18	156-60-5	
Dichlorofluoromethane	<578	ug/kg	578	173	1	12/15/16 13:40	12/16/16 14:18	75-43-4	
1,2-Dichloropropane	<21.9	ug/kg	21.9	21.9	1	12/15/16 13:40	12/16/16 14:18	78-87-5	
1,3-Dichloropropane	<75.5	ug/kg	75.5	22.7	1	12/15/16 13:40	12/16/16 14:18	142-28-9	
2,2-Dichloropropane	<67.0	ug/kg	67.0	20.1	1	12/15/16 13:40	12/16/16 14:18	594-20-7	
1,1-Dichloropropene	<19.1	ug/kg	19.1	19.1	1	12/15/16 13:40	12/16/16 14:18	563-58-6	
cis-1,3-Dichloropropene	<96.1	ug/kg	96.1	28.9	1	12/15/16 13:40	12/16/16 14:18	10061-01-5	
trans-1,3-Dichloropropene	<71.7	ug/kg	71.7	21.5	1	12/15/16 13:40	12/16/16 14:18	10061-02-6	
Diethyl ether (Ethyl ether)	<86.9	ug/kg	86.9	26.1	1	12/15/16 13:40	12/16/16 14:18	60-29-7	
Ethylbenzene	4520	ug/kg	67.0	20.1	1	12/15/16 13:40	12/16/16 14:18	100-41-4	
Hexachloro-1,3-butadiene	<198	ug/kg	198	59.5	1	12/15/16 13:40	12/16/16 14:18	87-68-3	
Isopropylbenzene (Cumene)	186	ug/kg	75.1	22.5	1	12/15/16 13:40	12/16/16 14:18	98-82-8	
p-Isopropyltoluene	142	ug/kg	35.0	10.5	1	12/15/16 13:40	12/16/16 14:18	99-87-6	
Methylene Chloride	<390	ug/kg	390	117	1	12/15/16 13:40	12/16/16 14:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	<140	ug/kg	140	41.9	1	12/15/16 13:40	12/16/16 14:18	108-10-1	
Methyl-tert-butyl ether	<39.5	ug/kg	39.5	11.9	1	12/15/16 13:40	12/16/16 14:18	1634-04-4	
Naphthalene	116000	ug/kg	510	153	10	12/15/16 13:40	12/20/16 19:24	91-20-3	
n-Propylbenzene	981	ug/kg	62.8	18.9	1	12/15/16 13:40	12/16/16 14:18	103-65-1	
Styrene	<54.8	ug/kg	54.8	16.5	1	12/15/16 13:40	12/16/16 14:18	100-42-5	
1,1,1,2-Tetrachloroethane	<25.1	ug/kg	25.1	25.1	1	12/15/16 13:40	12/16/16 14:18	630-20-6	
1,1,2,2-Tetrachloroethane	<14.1	ug/kg	14.1	14.1	1	12/15/16 13:40	12/16/16 14:18	79-34-5	
Tetrachloroethene	<80.5	ug/kg	80.5	24.2	1	12/15/16 13:40	12/16/16 14:18	127-18-4	
Tetrahydrofuran	<1050	ug/kg	1050	314	1	12/15/16 13:40	12/16/16 14:18	109-99-9	
Toluene	3410	ug/kg	67.0	20.1	1	12/15/16 13:40	12/16/16 14:18	108-88-3	
1,2,3-Trichlorobenzene	<18.2	ug/kg	18.2	18.2	1	12/15/16 13:40	12/16/16 14:18	87-61-6	
1,2,4-Trichlorobenzene	<19.5	ug/kg	19.5	19.5	1	12/15/16 13:40	12/16/16 14:18	120-82-1	
1,1,1-Trichloroethane	<26.5	ug/kg	26.5	26.5	1	12/15/16 13:40	12/16/16 14:18	71-55-6	
1,1,2-Trichloroethane	<13.7	ug/kg	13.7	13.7	1	12/15/16 13:40	12/16/16 14:18	79-00-5	
Trichloroethene	<60.3	ug/kg	60.3	18.1	1	12/15/16 13:40	12/16/16 14:18	79-01-6	
Trichlorofluoromethane	<212	ug/kg	212	63.6	1	12/15/16 13:40	12/16/16 14:18	75-69-4	
1,2,3-Trichloropropane	<65.6	ug/kg	65.6	65.6	1	12/15/16 13:40	12/16/16 14:18	96-18-4	
1,1,2-Trichlorotrifluoroethane	<152	ug/kg	152	45.6	1	12/15/16 13:40	12/16/16 14:18	76-13-1	
1,2,4-Trimethylbenzene	8210	ug/kg	13.9	13.9	1	12/15/16 13:40	12/16/16 14:18	95-63-6	
1,3,5-Trimethylbenzene	2640	ug/kg	48.5	14.6	1	12/15/16 13:40	12/16/16 14:18	108-67-8	
Vinyl chloride	<27.1	ug/kg	27.1	8.1	1	12/15/16 13:40	12/16/16 14:18	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: GP12\_3-5**      **Lab ID: 10373306007**      Collected: 12/13/16 13:15      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>23700</b>	ug/kg	169	50.6	1	12/15/16 13:40	12/16/16 14:18	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-129		1	12/15/16 13:40	12/16/16 14:18	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/15/16 13:40	12/16/16 14:18	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/15/16 13:40	12/16/16 14:18	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: **GP12\_5-7** Lab ID: **10373306008** Collected: 12/13/16 13:20 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	27.1	%	0.10	0.10	1		12/28/16 13:28		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	38.6	ug/kg	1.8	0.53	1	12/15/16 06:57	12/22/16 20:18	83-32-9	
Acenaphthylene	53.0	ug/kg	1.2	0.37	1	12/15/16 06:57	12/22/16 20:18	208-96-8	
Anthracene	228	ug/kg	2.1	0.62	1	12/15/16 06:57	12/22/16 20:18	120-12-7	
Benzo(a)anthracene	245	ug/kg	2.1	0.64	1	12/15/16 06:57	12/22/16 20:18	56-55-3	
Benzo(a)pyrene	227	ug/kg	1.6	0.47	1	12/15/16 06:57	12/22/16 20:18	50-32-8	
Benzo(b)fluoranthene	156	ug/kg	2.6	0.78	1	12/15/16 06:57	12/22/16 20:18	205-99-2	
Benzo(g,h,i)perylene	104	ug/kg	2.1	0.63	1	12/15/16 06:57	12/22/16 20:18	191-24-2	
Benzo(k)fluoranthene	90.1	ug/kg	2.2	0.67	1	12/15/16 06:57	12/22/16 20:18	207-08-9	
Chrysene	229	ug/kg	2.5	0.76	1	12/15/16 06:57	12/22/16 20:18	218-01-9	
Dibenz(a,h)anthracene	22.3	ug/kg	1.5	0.45	1	12/15/16 06:57	12/22/16 20:18	53-70-3	
Fluoranthene	411	ug/kg	3.6	1.1	1	12/15/16 06:57	12/22/16 20:18	206-44-0	
Fluorene	215	ug/kg	1.7	0.53	1	12/15/16 06:57	12/22/16 20:18	86-73-7	
Indeno(1,2,3-cd)pyrene	68.8	ug/kg	3.4	1.0	1	12/15/16 06:57	12/22/16 20:18	193-39-5	
Naphthalene	1650	ug/kg	8.1	2.4	5	12/15/16 06:57	12/23/16 15:36	91-20-3	
Phenanthrene	1020	ug/kg	9.2	2.8	5	12/15/16 06:57	12/23/16 15:36	85-01-8	
Pyrene	474	ug/kg	18.9	5.7	5	12/15/16 06:57	12/23/16 15:36	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	78	%	41-125		1	12/15/16 06:57	12/22/16 20:18	321-60-8	
p-Terphenyl-d14 (S)	86	%	39-125		1	12/15/16 06:57	12/22/16 20:18	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1450	ug/kg	1450	435	1	12/15/16 13:40	12/16/16 14:36	67-64-1	
Allyl chloride	<190	ug/kg	190	57.0	1	12/15/16 13:40	12/16/16 14:36	107-05-1	
Benzene	3930	ug/kg	19.1	5.7	1	12/15/16 13:40	12/16/16 14:36	71-43-2	
Bromobenzene	<56.6	ug/kg	56.6	17.0	1	12/15/16 13:40	12/16/16 14:36	108-86-1	
Bromochloromethane	<65.9	ug/kg	65.9	19.8	1	12/15/16 13:40	12/16/16 14:36	74-97-5	
Bromodichloromethane	<61.9	ug/kg	61.9	18.6	1	12/15/16 13:40	12/16/16 14:36	75-27-4	
Bromoform	<191	ug/kg	191	57.2	1	12/15/16 13:40	12/16/16 14:36	75-25-2	
Bromomethane	<224	ug/kg	224	67.3	1	12/15/16 13:40	12/16/16 14:36	74-83-9	
2-Butanone (MEK)	<292	ug/kg	292	87.6	1	12/15/16 13:40	12/16/16 14:36	78-93-3	
n-Butylbenzene	<53.5	ug/kg	53.5	16.1	1	12/15/16 13:40	12/16/16 14:36	104-51-8	
sec-Butylbenzene	<52.2	ug/kg	52.2	15.7	1	12/15/16 13:40	12/16/16 14:36	135-98-8	
tert-Butylbenzene	<69.8	ug/kg	69.8	21.0	1	12/15/16 13:40	12/16/16 14:36	98-06-6	
Carbon tetrachloride	<69.4	ug/kg	69.4	20.8	1	12/15/16 13:40	12/16/16 14:36	56-23-5	
Chlorobenzene	<38.5	ug/kg	38.5	11.5	1	12/15/16 13:40	12/16/16 14:36	108-90-7	
Chloroethane	<349	ug/kg	349	105	1	12/15/16 13:40	12/16/16 14:36	75-00-3	
Chloroform	<107	ug/kg	107	32.3	1	12/15/16 13:40	12/16/16 14:36	67-66-3	
Chloromethane	<107	ug/kg	107	32.1	1	12/15/16 13:40	12/16/16 14:36	74-87-3	
2-Chlorotoluene	<61.0	ug/kg	61.0	18.3	1	12/15/16 13:40	12/16/16 14:36	95-49-8	
4-Chlorotoluene	<57.9	ug/kg	57.9	17.4	1	12/15/16 13:40	12/16/16 14:36	106-43-4	
1,2-Dibromo-3-chloropropane	<129	ug/kg	129	129	1	12/15/16 13:40	12/16/16 14:36	96-12-8	
Dibromochloromethane	<190	ug/kg	190	57.0	1	12/15/16 13:40	12/16/16 14:36	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: **GP12\_5-7** Lab ID: **10373306008** Collected: 12/13/16 13:20 Received: 12/14/16 18:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<25.0	ug/kg	25.0	25.0	1	12/15/16 13:40	12/16/16 14:36	106-93-4	
Dibromomethane	<86.2	ug/kg	86.2	25.9	1	12/15/16 13:40	12/16/16 14:36	74-95-3	
1,2-Dichlorobenzene	<12.8	ug/kg	12.8	12.8	1	12/15/16 13:40	12/16/16 14:36	95-50-1	
1,3-Dichlorobenzene	<19.5	ug/kg	19.5	19.5	1	12/15/16 13:40	12/16/16 14:36	541-73-1	
1,4-Dichlorobenzene	<64.1	ug/kg	64.1	19.2	1	12/15/16 13:40	12/16/16 14:36	106-46-7	
Dichlorodifluoromethane	<67.6	ug/kg	67.6	20.3	1	12/15/16 13:40	12/16/16 14:36	75-71-8	
1,1-Dichloroethane	<25.8	ug/kg	25.8	25.8	1	12/15/16 13:40	12/16/16 14:36	75-34-3	
1,2-Dichloroethane	<21.0	ug/kg	21.0	21.0	1	12/15/16 13:40	12/16/16 14:36	107-06-2	
1,1-Dichloroethene	<16.9	ug/kg	16.9	16.9	1	12/15/16 13:40	12/16/16 14:36	75-35-4	
cis-1,2-Dichloroethene	<82.2	ug/kg	82.2	24.7	1	12/15/16 13:40	12/16/16 14:36	156-59-2	
trans-1,2-Dichloroethene	<107	ug/kg	107	32.0	1	12/15/16 13:40	12/16/16 14:36	156-60-5	
Dichlorofluoromethane	<606	ug/kg	606	182	1	12/15/16 13:40	12/16/16 14:36	75-43-4	
1,2-Dichloropropane	<23.0	ug/kg	23.0	23.0	1	12/15/16 13:40	12/16/16 14:36	78-87-5	
1,3-Dichloropropane	<79.1	ug/kg	79.1	23.8	1	12/15/16 13:40	12/16/16 14:36	142-28-9	
2,2-Dichloropropane	<70.3	ug/kg	70.3	21.1	1	12/15/16 13:40	12/16/16 14:36	594-20-7	
1,1-Dichloropropene	<20.0	ug/kg	20.0	20.0	1	12/15/16 13:40	12/16/16 14:36	563-58-6	
cis-1,3-Dichloropropene	<101	ug/kg	101	30.3	1	12/15/16 13:40	12/16/16 14:36	10061-01-5	
trans-1,3-Dichloropropene	<75.2	ug/kg	75.2	22.6	1	12/15/16 13:40	12/16/16 14:36	10061-02-6	
Diethyl ether (Ethyl ether)	<91.1	ug/kg	91.1	27.3	1	12/15/16 13:40	12/16/16 14:36	60-29-7	
Ethylbenzene	1380	ug/kg	70.3	21.1	1	12/15/16 13:40	12/16/16 14:36	100-41-4	
Hexachloro-1,3-butadiene	<208	ug/kg	208	62.4	1	12/15/16 13:40	12/16/16 14:36	87-68-3	
Isopropylbenzene (Cumene)	<78.7	ug/kg	78.7	23.6	1	12/15/16 13:40	12/16/16 14:36	98-82-8	
p-Isopropyltoluene	<36.7	ug/kg	36.7	11.0	1	12/15/16 13:40	12/16/16 14:36	99-87-6	
Methylene Chloride	<409	ug/kg	409	123	1	12/15/16 13:40	12/16/16 14:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	<146	ug/kg	146	43.9	1	12/15/16 13:40	12/16/16 14:36	108-10-1	
Methyl-tert-butyl ether	<41.4	ug/kg	41.4	12.4	1	12/15/16 13:40	12/16/16 14:36	1634-04-4	
Naphthalene	24100	ug/kg	535	161	10	12/15/16 13:40	12/20/16 19:42	91-20-3	
n-Propylbenzene	186	ug/kg	65.9	19.8	1	12/15/16 13:40	12/16/16 14:36	103-65-1	
Styrene	<57.5	ug/kg	57.5	17.3	1	12/15/16 13:40	12/16/16 14:36	100-42-5	
1,1,1,2-Tetrachloroethane	<26.3	ug/kg	26.3	26.3	1	12/15/16 13:40	12/16/16 14:36	630-20-6	
1,1,2,2-Tetrachloroethane	<14.7	ug/kg	14.7	14.7	1	12/15/16 13:40	12/16/16 14:36	79-34-5	
Tetrachloroethene	<84.4	ug/kg	84.4	25.4	1	12/15/16 13:40	12/16/16 14:36	127-18-4	
Tetrahydrofuran	<1100	ug/kg	1100	329	1	12/15/16 13:40	12/16/16 14:36	109-99-9	
Toluene	2600	ug/kg	70.3	21.1	1	12/15/16 13:40	12/16/16 14:36	108-88-3	
1,2,3-Trichlorobenzene	<19.1	ug/kg	19.1	19.1	1	12/15/16 13:40	12/16/16 14:36	87-61-6	
1,2,4-Trichlorobenzene	<20.4	ug/kg	20.4	20.4	1	12/15/16 13:40	12/16/16 14:36	120-82-1	
1,1,1-Trichloroethane	<27.7	ug/kg	27.7	27.7	1	12/15/16 13:40	12/16/16 14:36	71-55-6	
1,1,2-Trichloroethane	<14.3	ug/kg	14.3	14.3	1	12/15/16 13:40	12/16/16 14:36	79-00-5	
Trichloroethene	<63.2	ug/kg	63.2	19.0	1	12/15/16 13:40	12/16/16 14:36	79-01-6	
Trichlorofluoromethane	<222	ug/kg	222	66.6	1	12/15/16 13:40	12/16/16 14:36	75-69-4	
1,2,3-Trichloropropane	<68.8	ug/kg	68.8	68.8	1	12/15/16 13:40	12/16/16 14:36	96-18-4	
1,1,2-Trichlorotrifluoroethane	<159	ug/kg	159	47.8	1	12/15/16 13:40	12/16/16 14:36	76-13-1	
1,2,4-Trimethylbenzene	1630	ug/kg	14.6	14.6	1	12/15/16 13:40	12/16/16 14:36	95-63-6	
1,3,5-Trimethylbenzene	509	ug/kg	50.8	15.3	1	12/15/16 13:40	12/16/16 14:36	108-67-8	
Vinyl chloride	<28.4	ug/kg	28.4	8.5	1	12/15/16 13:40	12/16/16 14:36	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP12\_5-7**      **Lab ID: 10373306008**      Collected: 12/13/16 13:20      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>5620</b>	ug/kg	177	53.1	1	12/15/16 13:40	12/16/16 14:36	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-129		1	12/15/16 13:40	12/16/16 14:36	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/15/16 13:40	12/16/16 14:36	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		1	12/15/16 13:40	12/16/16 14:36	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP12\_10-12**      **Lab ID: 10373306009**      Collected: 12/13/16 13:25      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	28.4	%	0.10	0.10	1		12/28/16 13:29		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.8	ug/kg	1.8	0.54	1	12/15/16 06:57	12/22/16 20:39	83-32-9	
Acenaphthylene	<1.3	ug/kg	1.3	0.38	1	12/15/16 06:57	12/22/16 20:39	208-96-8	
Anthracene	<2.1	ug/kg	2.1	0.63	1	12/15/16 06:57	12/22/16 20:39	120-12-7	
Benzo(a)anthracene	<2.2	ug/kg	2.2	0.65	1	12/15/16 06:57	12/22/16 20:39	56-55-3	
Benzo(a)pyrene	<1.6	ug/kg	1.6	0.48	1	12/15/16 06:57	12/22/16 20:39	50-32-8	
Benzo(b)fluoranthene	<2.7	ug/kg	2.7	0.80	1	12/15/16 06:57	12/22/16 20:39	205-99-2	
Benzo(g,h,i)perylene	<2.1	ug/kg	2.1	0.64	1	12/15/16 06:57	12/22/16 20:39	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	2.3	0.69	1	12/15/16 06:57	12/22/16 20:39	207-08-9	
Chrysene	<2.6	ug/kg	2.6	0.77	1	12/15/16 06:57	12/22/16 20:39	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.46	1	12/15/16 06:57	12/22/16 20:39	53-70-3	
Fluoranthene	<3.6	ug/kg	3.6	1.1	1	12/15/16 06:57	12/22/16 20:39	206-44-0	
Fluorene	<1.8	ug/kg	1.8	0.53	1	12/15/16 06:57	12/22/16 20:39	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.5	ug/kg	3.5	1.0	1	12/15/16 06:57	12/22/16 20:39	193-39-5	
Naphthalene	264	ug/kg	1.7	0.50	1	12/15/16 06:57	12/22/16 20:39	91-20-3	
Phenanthrene	<1.9	ug/kg	1.9	0.56	1	12/15/16 06:57	12/22/16 20:39	85-01-8	
Pyrene	<3.8	ug/kg	3.8	1.2	1	12/15/16 06:57	12/22/16 20:39	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	89	%	41-125		1	12/15/16 06:57	12/22/16 20:39	321-60-8	
p-Terphenyl-d14 (S)	82	%	39-125		1	12/15/16 06:57	12/22/16 20:39	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1550	ug/kg	1550	466	1	12/15/16 13:40	12/16/16 14:53	67-64-1	
Allyl chloride	<203	ug/kg	203	60.9	1	12/15/16 13:40	12/16/16 14:53	107-05-1	
Benzene	4890	ug/kg	20.4	6.1	1	12/15/16 13:40	12/16/16 14:53	71-43-2	
Bromobenzene	<60.6	ug/kg	60.6	18.2	1	12/15/16 13:40	12/16/16 14:53	108-86-1	
Bromochloromethane	<70.5	ug/kg	70.5	21.2	1	12/15/16 13:40	12/16/16 14:53	74-97-5	
Bromodichloromethane	<66.2	ug/kg	66.2	19.9	1	12/15/16 13:40	12/16/16 14:53	75-27-4	
Bromoform	<204	ug/kg	204	61.2	1	12/15/16 13:40	12/16/16 14:53	75-25-2	
Bromomethane	<240	ug/kg	240	72.0	1	12/15/16 13:40	12/16/16 14:53	74-83-9	
2-Butanone (MEK)	<312	ug/kg	312	93.8	1	12/15/16 13:40	12/16/16 14:53	78-93-3	
n-Butylbenzene	<57.2	ug/kg	57.2	17.2	1	12/15/16 13:40	12/16/16 14:53	104-51-8	
sec-Butylbenzene	<55.8	ug/kg	55.8	16.8	1	12/15/16 13:40	12/16/16 14:53	135-98-8	
tert-Butylbenzene	<74.7	ug/kg	74.7	22.4	1	12/15/16 13:40	12/16/16 14:53	98-06-6	
Carbon tetrachloride	<74.3	ug/kg	74.3	22.3	1	12/15/16 13:40	12/16/16 14:53	56-23-5	
Chlorobenzene	<41.2	ug/kg	41.2	12.4	1	12/15/16 13:40	12/16/16 14:53	108-90-7	
Chloroethane	<374	ug/kg	374	112	1	12/15/16 13:40	12/16/16 14:53	75-00-3	
Chloroform	<115	ug/kg	115	34.5	1	12/15/16 13:40	12/16/16 14:53	67-66-3	
Chloromethane	<114	ug/kg	114	34.4	1	12/15/16 13:40	12/16/16 14:53	74-87-3	
2-Chlorotoluene	<65.3	ug/kg	65.3	19.6	1	12/15/16 13:40	12/16/16 14:53	95-49-8	
4-Chlorotoluene	<62.0	ug/kg	62.0	18.6	1	12/15/16 13:40	12/16/16 14:53	106-43-4	
1,2-Dibromo-3-chloropropane	<139	ug/kg	139	139	1	12/15/16 13:40	12/16/16 14:53	96-12-8	
Dibromochloromethane	<203	ug/kg	203	60.9	1	12/15/16 13:40	12/16/16 14:53	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: **GP12\_10-12** Lab ID: **10373306009** Collected: 12/13/16 13:25 Received: 12/14/16 18:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<26.7	ug/kg	26.7	26.7	1	12/15/16 13:40	12/16/16 14:53	106-93-4	
Dibromomethane	<92.2	ug/kg	92.2	27.7	1	12/15/16 13:40	12/16/16 14:53	74-95-3	
1,2-Dichlorobenzene	<13.7	ug/kg	13.7	13.7	1	12/15/16 13:40	12/16/16 14:53	95-50-1	
1,3-Dichlorobenzene	<20.9	ug/kg	20.9	20.9	1	12/15/16 13:40	12/16/16 14:53	541-73-1	
1,4-Dichlorobenzene	<68.6	ug/kg	68.6	20.6	1	12/15/16 13:40	12/16/16 14:53	106-46-7	
Dichlorodifluoromethane	<72.4	ug/kg	72.4	21.7	1	12/15/16 13:40	12/16/16 14:53	75-71-8	
1,1-Dichloroethane	<27.6	ug/kg	27.6	27.6	1	12/15/16 13:40	12/16/16 14:53	75-34-3	
1,2-Dichloroethane	<22.4	ug/kg	22.4	22.4	1	12/15/16 13:40	12/16/16 14:53	107-06-2	
1,1-Dichloroethene	<18.0	ug/kg	18.0	18.0	1	12/15/16 13:40	12/16/16 14:53	75-35-4	
cis-1,2-Dichloroethene	<88.0	ug/kg	88.0	26.4	1	12/15/16 13:40	12/16/16 14:53	156-59-2	
trans-1,2-Dichloroethene	<114	ug/kg	114	34.2	1	12/15/16 13:40	12/16/16 14:53	156-60-5	
Dichlorofluoromethane	<648	ug/kg	648	195	1	12/15/16 13:40	12/16/16 14:53	75-43-4	
1,2-Dichloropropane	<24.6	ug/kg	24.6	24.6	1	12/15/16 13:40	12/16/16 14:53	78-87-5	
1,3-Dichloropropane	<84.7	ug/kg	84.7	25.4	1	12/15/16 13:40	12/16/16 14:53	142-28-9	
2,2-Dichloropropane	<75.2	ug/kg	75.2	22.6	1	12/15/16 13:40	12/16/16 14:53	594-20-7	
1,1-Dichloropropene	<21.5	ug/kg	21.5	21.5	1	12/15/16 13:40	12/16/16 14:53	563-58-6	
cis-1,3-Dichloropropene	<108	ug/kg	108	32.4	1	12/15/16 13:40	12/16/16 14:53	10061-01-5	
trans-1,3-Dichloropropene	<80.4	ug/kg	80.4	24.2	1	12/15/16 13:40	12/16/16 14:53	10061-02-6	
Diethyl ether (Ethyl ether)	<97.5	ug/kg	97.5	29.3	1	12/15/16 13:40	12/16/16 14:53	60-29-7	
Ethylbenzene	1360	ug/kg	75.2	22.6	1	12/15/16 13:40	12/16/16 14:53	100-41-4	
Hexachloro-1,3-butadiene	<222	ug/kg	222	66.8	1	12/15/16 13:40	12/16/16 14:53	87-68-3	
Isopropylbenzene (Cumene)	<84.2	ug/kg	84.2	25.3	1	12/15/16 13:40	12/16/16 14:53	98-82-8	
p-Isopropyltoluene	<39.3	ug/kg	39.3	11.8	1	12/15/16 13:40	12/16/16 14:53	99-87-6	
Methylene Chloride	<438	ug/kg	438	132	1	12/15/16 13:40	12/16/16 14:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	<157	ug/kg	157	47.0	1	12/15/16 13:40	12/16/16 14:53	108-10-1	
Methyl-tert-butyl ether	<44.3	ug/kg	44.3	13.3	1	12/15/16 13:40	12/16/16 14:53	1634-04-4	
Naphthalene	5280	ug/kg	57.2	17.2	1	12/15/16 13:40	12/16/16 14:53	91-20-3	
n-Propylbenzene	<70.5	ug/kg	70.5	21.2	1	12/15/16 13:40	12/16/16 14:53	103-65-1	
Styrene	<61.5	ug/kg	61.5	18.5	1	12/15/16 13:40	12/16/16 14:53	100-42-5	
1,1,1,2-Tetrachloroethane	<28.1	ug/kg	28.1	28.1	1	12/15/16 13:40	12/16/16 14:53	630-20-6	
1,1,2,2-Tetrachloroethane	<15.8	ug/kg	15.8	15.8	1	12/15/16 13:40	12/16/16 14:53	79-34-5	
Tetrachloroethene	<90.4	ug/kg	90.4	27.1	1	12/15/16 13:40	12/16/16 14:53	127-18-4	
Tetrahydrofuran	<1170	ug/kg	1170	352	1	12/15/16 13:40	12/16/16 14:53	109-99-9	
Toluene	121	ug/kg	75.2	22.6	1	12/15/16 13:40	12/16/16 14:53	108-88-3	
1,2,3-Trichlorobenzene	<20.5	ug/kg	20.5	20.5	1	12/15/16 13:40	12/16/16 14:53	87-61-6	
1,2,4-Trichlorobenzene	<21.9	ug/kg	21.9	21.9	1	12/15/16 13:40	12/16/16 14:53	120-82-1	
1,1,1-Trichloroethane	<29.7	ug/kg	29.7	29.7	1	12/15/16 13:40	12/16/16 14:53	71-55-6	
1,1,2-Trichloroethane	<15.3	ug/kg	15.3	15.3	1	12/15/16 13:40	12/16/16 14:53	79-00-5	
Trichloroethene	<67.6	ug/kg	67.6	20.3	1	12/15/16 13:40	12/16/16 14:53	79-01-6	
Trichlorofluoromethane	<237	ug/kg	237	71.3	1	12/15/16 13:40	12/16/16 14:53	75-69-4	
1,2,3-Trichloropropane	<73.6	ug/kg	73.6	73.6	1	12/15/16 13:40	12/16/16 14:53	96-18-4	
1,1,2-Trichlorotrifluoroethane	<170	ug/kg	170	51.1	1	12/15/16 13:40	12/16/16 14:53	76-13-1	
1,2,4-Trimethylbenzene	428	ug/kg	15.6	15.6	1	12/15/16 13:40	12/16/16 14:53	95-63-6	
1,3,5-Trimethylbenzene	123	ug/kg	54.4	16.3	1	12/15/16 13:40	12/16/16 14:53	108-67-8	
Vinyl chloride	<30.4	ug/kg	30.4	9.1	1	12/15/16 13:40	12/16/16 14:53	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: GP12\_10-12**      **Lab ID: 10373306009**      Collected: 12/13/16 13:25      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>1750</b>	ug/kg	189	56.8	1	12/15/16 13:40	12/16/16 14:53	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-129		1	12/15/16 13:40	12/16/16 14:53	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/15/16 13:40	12/16/16 14:53	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/15/16 13:40	12/16/16 14:53	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP13\_3-5**      **Lab ID: 10373306010**      Collected: 12/13/16 14:00      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>23.9</b>	%	0.10	0.10	1		12/28/16 13:29		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<b>86.8</b>	ug/kg	1.7	0.51	1	12/15/16 06:57	12/22/16 21:01	83-32-9	
Acenaphthylene	<b>122</b>	ug/kg	1.2	0.36	1	12/15/16 06:57	12/22/16 21:01	208-96-8	
Anthracene	<b>202</b>	ug/kg	2.0	0.60	1	12/15/16 06:57	12/22/16 21:01	120-12-7	
Benzo(a)anthracene	<b>372</b>	ug/kg	2.0	0.62	1	12/15/16 06:57	12/22/16 21:01	56-55-3	
Benzo(a)pyrene	<b>317</b>	ug/kg	1.5	0.46	1	12/15/16 06:57	12/22/16 21:01	50-32-8	
Benzo(b)fluoranthene	<b>236</b>	ug/kg	2.5	0.75	1	12/15/16 06:57	12/22/16 21:01	205-99-2	
Benzo(g,h,i)perylene	<b>131</b>	ug/kg	2.0	0.60	1	12/15/16 06:57	12/22/16 21:01	191-24-2	
Benzo(k)fluoranthene	<b>112</b>	ug/kg	2.1	0.65	1	12/15/16 06:57	12/22/16 21:01	207-08-9	
Chrysene	<b>324</b>	ug/kg	2.4	0.73	1	12/15/16 06:57	12/22/16 21:01	218-01-9	
Dibenz(a,h)anthracene	<b>36.5</b>	ug/kg	1.4	0.43	1	12/15/16 06:57	12/22/16 21:01	53-70-3	
Fluoranthene	<b>634</b>	ug/kg	17.1	5.1	5	12/15/16 06:57	12/23/16 15:58	206-44-0	
Fluorene	<b>143</b>	ug/kg	1.7	0.50	1	12/15/16 06:57	12/22/16 21:01	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>95.9</b>	ug/kg	3.3	0.98	1	12/15/16 06:57	12/22/16 21:01	193-39-5	
Naphthalene	<b>92.4</b>	ug/kg	1.6	0.47	1	12/15/16 06:57	12/22/16 21:01	91-20-3	
Phenanthrene	<b>530</b>	ug/kg	8.8	2.6	5	12/15/16 06:57	12/23/16 15:58	85-01-8	
Pyrene	<b>852</b>	ug/kg	18.1	5.4	5	12/15/16 06:57	12/23/16 15:58	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	77	%	41-125		1	12/15/16 06:57	12/22/16 21:01	321-60-8	
p-Terphenyl-d14 (S)	84	%	39-125		1	12/15/16 06:57	12/22/16 21:01	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<b>&lt;1480</b>	ug/kg	1480	444	1	12/15/16 13:40	12/21/16 05:57	67-64-1	
Allyl chloride	<b>&lt;193</b>	ug/kg	193	58.0	1	12/15/16 13:40	12/21/16 05:57	107-05-1	
Benzene	<b>68.0</b>	ug/kg	19.5	5.8	1	12/15/16 13:40	12/21/16 05:57	71-43-2	
Bromobenzene	<b>&lt;57.7</b>	ug/kg	57.7	17.3	1	12/15/16 13:40	12/21/16 05:57	108-86-1	
Bromochloromethane	<b>&lt;67.1</b>	ug/kg	67.1	20.2	1	12/15/16 13:40	12/21/16 05:57	74-97-5	
Bromodichloromethane	<b>&lt;63.1</b>	ug/kg	63.1	18.9	1	12/15/16 13:40	12/21/16 05:57	75-27-4	
Bromoform	<b>&lt;194</b>	ug/kg	194	58.3	1	12/15/16 13:40	12/21/16 05:57	75-25-2	
Bromomethane	<b>&lt;228</b>	ug/kg	228	68.6	1	12/15/16 13:40	12/21/16 05:57	74-83-9	
2-Butanone (MEK)	<b>&lt;297</b>	ug/kg	297	89.3	1	12/15/16 13:40	12/21/16 05:57	78-93-3	
n-Butylbenzene	<b>&lt;54.5</b>	ug/kg	54.5	16.4	1	12/15/16 13:40	12/21/16 05:57	104-51-8	
sec-Butylbenzene	<b>&lt;53.2</b>	ug/kg	53.2	16.0	1	12/15/16 13:40	12/21/16 05:57	135-98-8	
tert-Butylbenzene	<b>&lt;71.2</b>	ug/kg	71.2	21.4	1	12/15/16 13:40	12/21/16 05:57	98-06-6	
Carbon tetrachloride	<b>&lt;70.7</b>	ug/kg	70.7	21.2	1	12/15/16 13:40	12/21/16 05:57	56-23-5	
Chlorobenzene	<b>&lt;39.2</b>	ug/kg	39.2	11.8	1	12/15/16 13:40	12/21/16 05:57	108-90-7	
Chloroethane	<b>&lt;356</b>	ug/kg	356	107	1	12/15/16 13:40	12/21/16 05:57	75-00-3	
Chloroform	<b>&lt;109</b>	ug/kg	109	32.9	1	12/15/16 13:40	12/21/16 05:57	67-66-3	
Chloromethane	<b>&lt;109</b>	ug/kg	109	32.7	1	12/15/16 13:40	12/21/16 05:57	74-87-3	
2-Chlorotoluene	<b>&lt;62.2</b>	ug/kg	62.2	18.7	1	12/15/16 13:40	12/21/16 05:57	95-49-8	
4-Chlorotoluene	<b>&lt;59.0</b>	ug/kg	59.0	17.7	1	12/15/16 13:40	12/21/16 05:57	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;132</b>	ug/kg	132	132	1	12/15/16 13:40	12/21/16 05:57	96-12-8	
Dibromochloromethane	<b>&lt;193</b>	ug/kg	193	58.0	1	12/15/16 13:40	12/21/16 05:57	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: GP13\_3-5 Lab ID: 10373306010 Collected: 12/13/16 14:00 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<25.4	ug/kg	25.4	25.4	1	12/15/16 13:40	12/21/16 05:57	106-93-4	
Dibromomethane	<87.9	ug/kg	87.9	26.4	1	12/15/16 13:40	12/21/16 05:57	74-95-3	
1,2-Dichlorobenzene	<13.1	ug/kg	13.1	13.1	1	12/15/16 13:40	12/21/16 05:57	95-50-1	
1,3-Dichlorobenzene	<19.9	ug/kg	19.9	19.9	1	12/15/16 13:40	12/21/16 05:57	541-73-1	
1,4-Dichlorobenzene	<65.3	ug/kg	65.3	19.6	1	12/15/16 13:40	12/21/16 05:57	106-46-7	
Dichlorodifluoromethane	<68.9	ug/kg	68.9	20.7	1	12/15/16 13:40	12/21/16 05:57	75-71-8	
1,1-Dichloroethane	<26.2	ug/kg	26.2	26.2	1	12/15/16 13:40	12/21/16 05:57	75-34-3	
1,2-Dichloroethane	<21.4	ug/kg	21.4	21.4	1	12/15/16 13:40	12/21/16 05:57	107-06-2	
1,1-Dichloroethene	<17.2	ug/kg	17.2	17.2	1	12/15/16 13:40	12/21/16 05:57	75-35-4	
cis-1,2-Dichloroethene	<83.8	ug/kg	83.8	25.2	1	12/15/16 13:40	12/21/16 05:57	156-59-2	
trans-1,2-Dichloroethene	<109	ug/kg	109	32.6	1	12/15/16 13:40	12/21/16 05:57	156-60-5	
Dichlorofluoromethane	<617	ug/kg	617	185	1	12/15/16 13:40	12/21/16 05:57	75-43-4	
1,2-Dichloropropane	<23.4	ug/kg	23.4	23.4	1	12/15/16 13:40	12/21/16 05:57	78-87-5	
1,3-Dichloropropane	<80.6	ug/kg	80.6	24.2	1	12/15/16 13:40	12/21/16 05:57	142-28-9	
2,2-Dichloropropane	<71.6	ug/kg	71.6	21.5	1	12/15/16 13:40	12/21/16 05:57	594-20-7	
1,1-Dichloropropene	<20.4	ug/kg	20.4	20.4	1	12/15/16 13:40	12/21/16 05:57	563-58-6	
cis-1,3-Dichloropropene	<103	ug/kg	103	30.8	1	12/15/16 13:40	12/21/16 05:57	10061-01-5	
trans-1,3-Dichloropropene	<76.6	ug/kg	76.6	23.0	1	12/15/16 13:40	12/21/16 05:57	10061-02-6	
Diethyl ether (Ethyl ether)	<92.8	ug/kg	92.8	27.9	1	12/15/16 13:40	12/21/16 05:57	60-29-7	
Ethylbenzene	<71.6	ug/kg	71.6	21.5	1	12/15/16 13:40	12/21/16 05:57	100-41-4	
Hexachloro-1,3-butadiene	<212	ug/kg	212	63.6	1	12/15/16 13:40	12/21/16 05:57	87-68-3	
Isopropylbenzene (Cumene)	<80.2	ug/kg	80.2	24.1	1	12/15/16 13:40	12/21/16 05:57	98-82-8	
p-Isopropyltoluene	<37.4	ug/kg	37.4	11.2	1	12/15/16 13:40	12/21/16 05:57	99-87-6	
Methylene Chloride	<417	ug/kg	417	125	1	12/15/16 13:40	12/21/16 05:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	<149	ug/kg	149	44.8	1	12/15/16 13:40	12/21/16 05:57	108-10-1	
Methyl-tert-butyl ether	<42.2	ug/kg	42.2	12.7	1	12/15/16 13:40	12/21/16 05:57	1634-04-4	
Naphthalene	84.4	ug/kg	54.5	16.4	1	12/15/16 13:40	12/21/16 05:57	91-20-3	
n-Propylbenzene	<67.1	ug/kg	67.1	20.2	1	12/15/16 13:40	12/21/16 05:57	103-65-1	
Styrene	<58.6	ug/kg	58.6	17.6	1	12/15/16 13:40	12/21/16 05:57	100-42-5	
1,1,1,2-Tetrachloroethane	<26.8	ug/kg	26.8	26.8	1	12/15/16 13:40	12/21/16 05:57	630-20-6	
1,1,2,2-Tetrachloroethane	<15.0	ug/kg	15.0	15.0	1	12/15/16 13:40	12/21/16 05:57	79-34-5	
Tetrachloroethene	<86.0	ug/kg	86.0	25.8	1	12/15/16 13:40	12/21/16 05:57	127-18-4	
Tetrahydrofuran	<1120	ug/kg	1120	336	1	12/15/16 13:40	12/21/16 05:57	109-99-9	
Toluene	<71.6	ug/kg	71.6	21.5	1	12/15/16 13:40	12/21/16 05:57	108-88-3	
1,2,3-Trichlorobenzene	<19.5	ug/kg	19.5	19.5	1	12/15/16 13:40	12/21/16 05:57	87-61-6	
1,2,4-Trichlorobenzene	<20.8	ug/kg	20.8	20.8	1	12/15/16 13:40	12/21/16 05:57	120-82-1	
1,1,1-Trichloroethane	<28.3	ug/kg	28.3	28.3	1	12/15/16 13:40	12/21/16 05:57	71-55-6	
1,1,2-Trichloroethane	<14.6	ug/kg	14.6	14.6	1	12/15/16 13:40	12/21/16 05:57	79-00-5	
Trichloroethene	<64.4	ug/kg	64.4	19.3	1	12/15/16 13:40	12/21/16 05:57	79-01-6	
Trichlorofluoromethane	<226	ug/kg	226	67.9	1	12/15/16 13:40	12/21/16 05:57	75-69-4	
1,2,3-Trichloropropane	<70.1	ug/kg	70.1	70.1	1	12/15/16 13:40	12/21/16 05:57	96-18-4	
1,1,2-Trichlorotrifluoroethane	<162	ug/kg	162	48.7	1	12/15/16 13:40	12/21/16 05:57	76-13-1	
1,2,4-Trimethylbenzene	<14.9	ug/kg	14.9	14.9	1	12/15/16 13:40	12/21/16 05:57	95-63-6	
1,3,5-Trimethylbenzene	<51.8	ug/kg	51.8	15.6	1	12/15/16 13:40	12/21/16 05:57	108-67-8	
Vinyl chloride	<28.9	ug/kg	28.9	8.7	1	12/15/16 13:40	12/21/16 05:57	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: GP13\_3-5**      **Lab ID: 10373306010**      Collected: 12/13/16 14:00      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Xylene (Total)	<180	ug/kg	180	54.1	1	12/15/16 13:40	12/21/16 05:57	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%	75-129		1	12/15/16 13:40	12/21/16 05:57	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/15/16 13:40	12/21/16 05:57	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/15/16 13:40	12/21/16 05:57	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP13\_5-10**      **Lab ID: 10373306011**      Collected: 12/13/16 14:05      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	25.1	%	0.10	0.10	1		12/28/16 13:29		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	98.7	ug/kg	1.7	0.52	1	12/15/16 06:57	12/22/16 21:22	83-32-9	
Acenaphthylene	79.5	ug/kg	1.2	0.36	1	12/15/16 06:57	12/22/16 21:22	208-96-8	
Anthracene	88.7	ug/kg	2.0	0.60	1	12/15/16 06:57	12/22/16 21:22	120-12-7	
Benzo(a)anthracene	13.3	ug/kg	2.1	0.62	1	12/15/16 06:57	12/22/16 21:22	56-55-3	
Benzo(a)pyrene	4.8	ug/kg	1.5	0.46	1	12/15/16 06:57	12/22/16 21:22	50-32-8	
Benzo(b)fluoranthene	5.0	ug/kg	2.5	0.76	1	12/15/16 06:57	12/22/16 21:22	205-99-2	
Benzo(g,h,i)perylene	<2.0	ug/kg	2.0	0.61	1	12/15/16 06:57	12/22/16 21:22	191-24-2	
Benzo(k)fluoranthene	2.2	ug/kg	2.2	0.66	1	12/15/16 06:57	12/22/16 21:22	207-08-9	
Chrysene	10.5	ug/kg	2.5	0.74	1	12/15/16 06:57	12/22/16 21:22	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.44	1	12/15/16 06:57	12/22/16 21:22	53-70-3	
Fluoranthene	73.0	ug/kg	3.5	1.0	1	12/15/16 06:57	12/22/16 21:22	206-44-0	
Fluorene	133	ug/kg	1.7	0.51	1	12/15/16 06:57	12/22/16 21:22	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.3	ug/kg	3.3	1.0	1	12/15/16 06:57	12/22/16 21:22	193-39-5	
Naphthalene	1660	ug/kg	7.9	2.4	5	12/15/16 06:57	12/23/16 16:20	91-20-3	
Phenanthrene	385	ug/kg	1.8	0.54	1	12/15/16 06:57	12/22/16 21:22	85-01-8	
Pyrene	87.9	ug/kg	3.7	1.1	1	12/15/16 06:57	12/22/16 21:22	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	82	%	41-125		1	12/15/16 06:57	12/22/16 21:22	321-60-8	
p-Terphenyl-d14 (S)	83	%	39-125		1	12/15/16 06:57	12/22/16 21:22	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1490	ug/kg	1490	446	1	12/15/16 13:40	12/16/16 15:29	67-64-1	
Allyl chloride	<194	ug/kg	194	58.3	1	12/15/16 13:40	12/16/16 15:29	107-05-1	
Benzene	890	ug/kg	19.6	5.9	1	12/15/16 13:40	12/16/16 15:29	71-43-2	
Bromobenzene	<58.0	ug/kg	58.0	17.4	1	12/15/16 13:40	12/16/16 15:29	108-86-1	
Bromochloromethane	<67.5	ug/kg	67.5	20.3	1	12/15/16 13:40	12/16/16 15:29	74-97-5	
Bromodichloromethane	<63.4	ug/kg	63.4	19.0	1	12/15/16 13:40	12/16/16 15:29	75-27-4	
Bromoform	<195	ug/kg	195	58.6	1	12/15/16 13:40	12/16/16 15:29	75-25-2	
Bromomethane	<230	ug/kg	230	68.9	1	12/15/16 13:40	12/16/16 15:29	74-83-9	
2-Butanone (MEK)	<299	ug/kg	299	89.8	1	12/15/16 13:40	12/16/16 15:29	78-93-3	
n-Butylbenzene	<54.8	ug/kg	54.8	16.5	1	12/15/16 13:40	12/16/16 15:29	104-51-8	
sec-Butylbenzene	<53.4	ug/kg	53.4	16.0	1	12/15/16 13:40	12/16/16 15:29	135-98-8	
tert-Butylbenzene	<71.5	ug/kg	71.5	21.5	1	12/15/16 13:40	12/16/16 15:29	98-06-6	
Carbon tetrachloride	<71.1	ug/kg	71.1	21.3	1	12/15/16 13:40	12/16/16 15:29	56-23-5	
Chlorobenzene	<39.4	ug/kg	39.4	11.8	1	12/15/16 13:40	12/16/16 15:29	108-90-7	
Chloroethane	<358	ug/kg	358	107	1	12/15/16 13:40	12/16/16 15:29	75-00-3	
Chloroform	<110	ug/kg	110	33.0	1	12/15/16 13:40	12/16/16 15:29	67-66-3	
Chloromethane	<110	ug/kg	110	32.9	1	12/15/16 13:40	12/16/16 15:29	74-87-3	
2-Chlorotoluene	<62.5	ug/kg	62.5	18.8	1	12/15/16 13:40	12/16/16 15:29	95-49-8	
4-Chlorotoluene	<59.3	ug/kg	59.3	17.8	1	12/15/16 13:40	12/16/16 15:29	106-43-4	
1,2-Dibromo-3-chloropropane	<133	ug/kg	133	133	1	12/15/16 13:40	12/16/16 15:29	96-12-8	
Dibromochloromethane	<194	ug/kg	194	58.3	1	12/15/16 13:40	12/16/16 15:29	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: **GP13\_5-10** Lab ID: **10373306011** Collected: 12/13/16 14:05 Received: 12/14/16 18:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<25.6	ug/kg	25.6	25.6	1	12/15/16 13:40	12/16/16 15:29	106-93-4	
Dibromomethane	<88.3	ug/kg	88.3	26.5	1	12/15/16 13:40	12/16/16 15:29	74-95-3	
1,2-Dichlorobenzene	<13.1	ug/kg	13.1	13.1	1	12/15/16 13:40	12/16/16 15:29	95-50-1	
1,3-Dichlorobenzene	<20.0	ug/kg	20.0	20.0	1	12/15/16 13:40	12/16/16 15:29	541-73-1	
1,4-Dichlorobenzene	<65.7	ug/kg	65.7	19.7	1	12/15/16 13:40	12/16/16 15:29	106-46-7	
Dichlorodifluoromethane	<69.3	ug/kg	69.3	20.8	1	12/15/16 13:40	12/16/16 15:29	75-71-8	
1,1-Dichloroethane	<26.4	ug/kg	26.4	26.4	1	12/15/16 13:40	12/16/16 15:29	75-34-3	
1,2-Dichloroethane	<21.5	ug/kg	21.5	21.5	1	12/15/16 13:40	12/16/16 15:29	107-06-2	
1,1-Dichloroethene	<17.3	ug/kg	17.3	17.3	1	12/15/16 13:40	12/16/16 15:29	75-35-4	
cis-1,2-Dichloroethene	<84.2	ug/kg	84.2	25.3	1	12/15/16 13:40	12/16/16 15:29	156-59-2	
trans-1,2-Dichloroethene	<109	ug/kg	109	32.8	1	12/15/16 13:40	12/16/16 15:29	156-60-5	
Dichlorofluoromethane	<620	ug/kg	620	186	1	12/15/16 13:40	12/16/16 15:29	75-43-4	
1,2-Dichloropropane	<23.5	ug/kg	23.5	23.5	1	12/15/16 13:40	12/16/16 15:29	78-87-5	
1,3-Dichloropropane	<81.1	ug/kg	81.1	24.3	1	12/15/16 13:40	12/16/16 15:29	142-28-9	
2,2-Dichloropropane	<72.0	ug/kg	72.0	21.6	1	12/15/16 13:40	12/16/16 15:29	594-20-7	
1,1-Dichloropropene	<20.5	ug/kg	20.5	20.5	1	12/15/16 13:40	12/16/16 15:29	563-58-6	
cis-1,3-Dichloropropene	<103	ug/kg	103	31.0	1	12/15/16 13:40	12/16/16 15:29	10061-01-5	
trans-1,3-Dichloropropene	<77.0	ug/kg	77.0	23.1	1	12/15/16 13:40	12/16/16 15:29	10061-02-6	
Diethyl ether (Ethyl ether)	<93.3	ug/kg	93.3	28.0	1	12/15/16 13:40	12/16/16 15:29	60-29-7	
Ethylbenzene	919	ug/kg	72.0	21.6	1	12/15/16 13:40	12/16/16 15:29	100-41-4	
Hexachloro-1,3-butadiene	<213	ug/kg	213	63.9	1	12/15/16 13:40	12/16/16 15:29	87-68-3	
Isopropylbenzene (Cumene)	<80.6	ug/kg	80.6	24.2	1	12/15/16 13:40	12/16/16 15:29	98-82-8	
p-Isopropyltoluene	<37.6	ug/kg	37.6	11.3	1	12/15/16 13:40	12/16/16 15:29	99-87-6	
Methylene Chloride	<419	ug/kg	419	126	1	12/15/16 13:40	12/16/16 15:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	<150	ug/kg	150	45.0	1	12/15/16 13:40	12/16/16 15:29	108-10-1	
Methyl-tert-butyl ether	<42.4	ug/kg	42.4	12.7	1	12/15/16 13:40	12/16/16 15:29	1634-04-4	
Naphthalene	7290	ug/kg	54.8	16.5	1	12/15/16 13:40	12/16/16 15:29	91-20-3	
n-Propylbenzene	97.6	ug/kg	67.5	20.3	1	12/15/16 13:40	12/16/16 15:29	103-65-1	
Styrene	<58.9	ug/kg	58.9	17.7	1	12/15/16 13:40	12/16/16 15:29	100-42-5	
1,1,1,2-Tetrachloroethane	<26.9	ug/kg	26.9	26.9	1	12/15/16 13:40	12/16/16 15:29	630-20-6	
1,1,1,2,2-Tetrachloroethane	<15.1	ug/kg	15.1	15.1	1	12/15/16 13:40	12/16/16 15:29	79-34-5	
Tetrachloroethene	<86.5	ug/kg	86.5	26.0	1	12/15/16 13:40	12/16/16 15:29	127-18-4	
Tetrahydrofuran	<1120	ug/kg	1120	337	1	12/15/16 13:40	12/16/16 15:29	109-99-9	
Toluene	<72.0	ug/kg	72.0	21.6	1	12/15/16 13:40	12/16/16 15:29	108-88-3	
1,2,3-Trichlorobenzene	<19.6	ug/kg	19.6	19.6	1	12/15/16 13:40	12/16/16 15:29	87-61-6	
1,2,4-Trichlorobenzene	<20.9	ug/kg	20.9	20.9	1	12/15/16 13:40	12/16/16 15:29	120-82-1	
1,1,1-Trichloroethane	<28.4	ug/kg	28.4	28.4	1	12/15/16 13:40	12/16/16 15:29	71-55-6	
1,1,2-Trichloroethane	<14.7	ug/kg	14.7	14.7	1	12/15/16 13:40	12/16/16 15:29	79-00-5	
Trichloroethene	<64.8	ug/kg	64.8	19.4	1	12/15/16 13:40	12/16/16 15:29	79-01-6	
Trichlorofluoromethane	<227	ug/kg	227	68.3	1	12/15/16 13:40	12/16/16 15:29	75-69-4	
1,2,3-Trichloropropane	<70.4	ug/kg	70.4	70.4	1	12/15/16 13:40	12/16/16 15:29	96-18-4	
1,1,2-Trichlorotrifluoroethane	<163	ug/kg	163	49.0	1	12/15/16 13:40	12/16/16 15:29	76-13-1	
1,2,4-Trimethylbenzene	652	ug/kg	15.0	15.0	1	12/15/16 13:40	12/16/16 15:29	95-63-6	
1,3,5-Trimethylbenzene	86.9	ug/kg	52.1	15.6	1	12/15/16 13:40	12/16/16 15:29	108-67-8	
Vinyl chloride	<29.1	ug/kg	29.1	8.7	1	12/15/16 13:40	12/16/16 15:29	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: GP13\_5-10**      **Lab ID: 10373306011**      Collected: 12/13/16 14:05      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>511</b>	ug/kg	181	54.4	1	12/15/16 13:40	12/16/16 15:29	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%	75-129		1	12/15/16 13:40	12/16/16 15:29	17060-07-0	
Toluene-d8 (S)	104	%	75-125		1	12/15/16 13:40	12/16/16 15:29	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/15/16 13:40	12/16/16 15:29	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP13\_10-15**      **Lab ID: 10373306012**      Collected: 12/13/16 14:10      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	27.4	%	0.10	0.10	1		12/28/16 13:30		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	110	ug/kg	1.8	0.54	1	12/15/16 06:57	12/22/16 21:44	83-32-9	
Acenaphthylene	192	ug/kg	1.2	0.37	1	12/15/16 06:57	12/22/16 21:44	208-96-8	
Anthracene	796	ug/kg	41.6	12.5	20	12/15/16 06:57	12/23/16 16:41	120-12-7	
Benzo(a)anthracene	514	ug/kg	43.0	12.9	20	12/15/16 06:57	12/23/16 16:41	56-55-3	
Benzo(a)pyrene	503	ug/kg	31.8	9.5	20	12/15/16 06:57	12/23/16 16:41	50-32-8	
Benzo(b)fluoranthene	419	ug/kg	2.6	0.79	1	12/15/16 06:57	12/22/16 21:44	205-99-2	
Benzo(g,h,i)perylene	286	ug/kg	2.1	0.63	1	12/15/16 06:57	12/22/16 21:44	191-24-2	
Benzo(k)fluoranthene	179	ug/kg	2.3	0.68	1	12/15/16 06:57	12/22/16 21:44	207-08-9	
Chrysene	474	ug/kg	50.8	15.3	20	12/15/16 06:57	12/23/16 16:41	218-01-9	
Dibenz(a,h)anthracene	58.6	ug/kg	1.5	0.45	1	12/15/16 06:57	12/22/16 21:44	53-70-3	
Fluoranthene	1020	ug/kg	71.8	21.6	20	12/15/16 06:57	12/23/16 16:41	206-44-0	
Fluorene	476	ug/kg	35.2	10.6	20	12/15/16 06:57	12/23/16 16:41	86-73-7	
Indeno(1,2,3-cd)pyrene	188	ug/kg	3.4	1.0	1	12/15/16 06:57	12/22/16 21:44	193-39-5	
Naphthalene	5110	ug/kg	32.7	9.8	20	12/15/16 06:57	12/23/16 16:41	91-20-3	
Phenanthrene	2470	ug/kg	36.9	11.1	20	12/15/16 06:57	12/23/16 16:41	85-01-8	
Pyrene	1330	ug/kg	75.9	22.8	20	12/15/16 06:57	12/23/16 16:41	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	78	%	41-125		1	12/15/16 06:57	12/22/16 21:44	321-60-8	
p-Terphenyl-d14 (S)	83	%	39-125		1	12/15/16 06:57	12/22/16 21:44	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1540	ug/kg	1540	463	1	12/15/16 13:40	12/16/16 15:46	67-64-1	
Allyl chloride	<202	ug/kg	202	60.6	1	12/15/16 13:40	12/16/16 15:46	107-05-1	
Benzene	4950	ug/kg	20.3	6.1	1	12/15/16 13:40	12/16/16 15:46	71-43-2	
Bromobenzene	<60.2	ug/kg	60.2	18.1	1	12/15/16 13:40	12/16/16 15:46	108-86-1	
Bromochloromethane	<70.1	ug/kg	70.1	21.0	1	12/15/16 13:40	12/16/16 15:46	74-97-5	
Bromodichloromethane	<65.8	ug/kg	65.8	19.8	1	12/15/16 13:40	12/16/16 15:46	75-27-4	
Bromoform	<203	ug/kg	203	60.8	1	12/15/16 13:40	12/16/16 15:46	75-25-2	
Bromomethane	<238	ug/kg	238	71.6	1	12/15/16 13:40	12/16/16 15:46	74-83-9	
2-Butanone (MEK)	<310	ug/kg	310	93.2	1	12/15/16 13:40	12/16/16 15:46	78-93-3	
n-Butylbenzene	<56.9	ug/kg	56.9	17.1	1	12/15/16 13:40	12/16/16 15:46	104-51-8	
sec-Butylbenzene	<55.5	ug/kg	55.5	16.7	1	12/15/16 13:40	12/16/16 15:46	135-98-8	
tert-Butylbenzene	<74.3	ug/kg	74.3	22.3	1	12/15/16 13:40	12/16/16 15:46	98-06-6	
Carbon tetrachloride	<73.8	ug/kg	73.8	22.2	1	12/15/16 13:40	12/16/16 15:46	56-23-5	
Chlorobenzene	<40.9	ug/kg	40.9	12.3	1	12/15/16 13:40	12/16/16 15:46	108-90-7	
Chloroethane	<371	ug/kg	371	112	1	12/15/16 13:40	12/16/16 15:46	75-00-3	
Chloroform	<114	ug/kg	114	34.3	1	12/15/16 13:40	12/16/16 15:46	67-66-3	
Chloromethane	<114	ug/kg	114	34.2	1	12/15/16 13:40	12/16/16 15:46	74-87-3	
2-Chlorotoluene	<64.9	ug/kg	64.9	19.5	1	12/15/16 13:40	12/16/16 15:46	95-49-8	
4-Chlorotoluene	<61.6	ug/kg	61.6	18.5	1	12/15/16 13:40	12/16/16 15:46	106-43-4	
1,2-Dibromo-3-chloropropane	<138	ug/kg	138	138	1	12/15/16 13:40	12/16/16 15:46	96-12-8	
Dibromochloromethane	<202	ug/kg	202	60.6	1	12/15/16 13:40	12/16/16 15:46	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP13\_10-15**      **Lab ID: 10373306012**      Collected: 12/13/16 14:10      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<26.5	ug/kg	26.5	26.5	1	12/15/16 13:40	12/16/16 15:46	106-93-4	
Dibromomethane	<91.7	ug/kg	91.7	27.5	1	12/15/16 13:40	12/16/16 15:46	74-95-3	
1,2-Dichlorobenzene	<13.6	ug/kg	13.6	13.6	1	12/15/16 13:40	12/16/16 15:46	95-50-1	
1,3-Dichlorobenzene	<20.8	ug/kg	20.8	20.8	1	12/15/16 13:40	12/16/16 15:46	541-73-1	
1,4-Dichlorobenzene	<68.2	ug/kg	68.2	20.5	1	12/15/16 13:40	12/16/16 15:46	106-46-7	
Dichlorodifluoromethane	<71.9	ug/kg	71.9	21.6	1	12/15/16 13:40	12/16/16 15:46	75-71-8	
1,1-Dichloroethane	<27.4	ug/kg	27.4	27.4	1	12/15/16 13:40	12/16/16 15:46	75-34-3	
1,2-Dichloroethane	<22.3	ug/kg	22.3	22.3	1	12/15/16 13:40	12/16/16 15:46	107-06-2	
1,1-Dichloroethene	<17.9	ug/kg	17.9	17.9	1	12/15/16 13:40	12/16/16 15:46	75-35-4	
cis-1,2-Dichloroethene	<87.4	ug/kg	87.4	26.3	1	12/15/16 13:40	12/16/16 15:46	156-59-2	
trans-1,2-Dichloroethene	<113	ug/kg	113	34.0	1	12/15/16 13:40	12/16/16 15:46	156-60-5	
Dichlorofluoromethane	<644	ug/kg	644	193	1	12/15/16 13:40	12/16/16 15:46	75-43-4	
1,2-Dichloropropane	<24.4	ug/kg	24.4	24.4	1	12/15/16 13:40	12/16/16 15:46	78-87-5	
1,3-Dichloropropane	<84.2	ug/kg	84.2	25.3	1	12/15/16 13:40	12/16/16 15:46	142-28-9	
2,2-Dichloropropane	<74.8	ug/kg	74.8	22.4	1	12/15/16 13:40	12/16/16 15:46	594-20-7	
1,1-Dichloropropene	<21.3	ug/kg	21.3	21.3	1	12/15/16 13:40	12/16/16 15:46	563-58-6	
cis-1,3-Dichloropropene	<107	ug/kg	107	32.2	1	12/15/16 13:40	12/16/16 15:46	10061-01-5	
trans-1,3-Dichloropropene	<79.9	ug/kg	79.9	24.0	1	12/15/16 13:40	12/16/16 15:46	10061-02-6	
Diethyl ether (Ethyl ether)	<96.8	ug/kg	96.8	29.1	1	12/15/16 13:40	12/16/16 15:46	60-29-7	
Ethylbenzene	689	ug/kg	74.8	22.4	1	12/15/16 13:40	12/16/16 15:46	100-41-4	
Hexachloro-1,3-butadiene	<221	ug/kg	221	66.4	1	12/15/16 13:40	12/16/16 15:46	87-68-3	
Isopropylbenzene (Cumene)	<83.7	ug/kg	83.7	25.1	1	12/15/16 13:40	12/16/16 15:46	98-82-8	
p-Isopropyltoluene	<39.0	ug/kg	39.0	11.7	1	12/15/16 13:40	12/16/16 15:46	99-87-6	
Methylene Chloride	<435	ug/kg	435	131	1	12/15/16 13:40	12/16/16 15:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	<156	ug/kg	156	46.7	1	12/15/16 13:40	12/16/16 15:46	108-10-1	
Methyl-tert-butyl ether	<44.0	ug/kg	44.0	13.2	1	12/15/16 13:40	12/16/16 15:46	1634-04-4	
Naphthalene	11300	ug/kg	56.9	17.1	1	12/15/16 13:40	12/16/16 15:46	91-20-3	
n-Propylbenzene	72.3	ug/kg	70.1	21.0	1	12/15/16 13:40	12/16/16 15:46	103-65-1	
Styrene	84.8	ug/kg	61.1	18.4	1	12/15/16 13:40	12/16/16 15:46	100-42-5	
1,1,1,2-Tetrachloroethane	<28.0	ug/kg	28.0	28.0	1	12/15/16 13:40	12/16/16 15:46	630-20-6	
1,1,1,2,2-Tetrachloroethane	<15.7	ug/kg	15.7	15.7	1	12/15/16 13:40	12/16/16 15:46	79-34-5	
Tetrachloroethene	<89.8	ug/kg	89.8	27.0	1	12/15/16 13:40	12/16/16 15:46	127-18-4	
Tetrahydrofuran	<1170	ug/kg	1170	350	1	12/15/16 13:40	12/16/16 15:46	109-99-9	
Toluene	905	ug/kg	74.8	22.4	1	12/15/16 13:40	12/16/16 15:46	108-88-3	
1,2,3-Trichlorobenzene	<20.3	ug/kg	20.3	20.3	1	12/15/16 13:40	12/16/16 15:46	87-61-6	
1,2,4-Trichlorobenzene	<21.7	ug/kg	21.7	21.7	1	12/15/16 13:40	12/16/16 15:46	120-82-1	
1,1,1-Trichloroethane	<29.5	ug/kg	29.5	29.5	1	12/15/16 13:40	12/16/16 15:46	71-55-6	
1,1,2-Trichloroethane	<15.2	ug/kg	15.2	15.2	1	12/15/16 13:40	12/16/16 15:46	79-00-5	
Trichloroethene	<67.2	ug/kg	67.2	20.2	1	12/15/16 13:40	12/16/16 15:46	79-01-6	
Trichlorofluoromethane	<236	ug/kg	236	70.9	1	12/15/16 13:40	12/16/16 15:46	75-69-4	
1,2,3-Trichloropropane	<73.1	ug/kg	73.1	73.1	1	12/15/16 13:40	12/16/16 15:46	96-18-4	
1,1,2-Trichlorotrifluoroethane	<169	ug/kg	169	50.8	1	12/15/16 13:40	12/16/16 15:46	76-13-1	
1,2,4-Trimethylbenzene	676	ug/kg	15.5	15.5	1	12/15/16 13:40	12/16/16 15:46	95-63-6	
1,3,5-Trimethylbenzene	208	ug/kg	54.1	16.2	1	12/15/16 13:40	12/16/16 15:46	108-67-8	
Vinyl chloride	<30.2	ug/kg	30.2	9.1	1	12/15/16 13:40	12/16/16 15:46	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP13\_10-15**      **Lab ID: 10373306012**      Collected: 12/13/16 14:10      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>2320</b>	ug/kg	188	56.5	1	12/15/16 13:40	12/16/16 15:46	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-129		1	12/15/16 13:40	12/16/16 15:46	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/15/16 13:40	12/16/16 15:46	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/15/16 13:40	12/16/16 15:46	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample:** GP14\_3-5      **Lab ID:** 10373306013      Collected: 12/13/16 14:30      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	22.8	%	0.10	0.10	1		12/28/16 13:30		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.51	1	12/15/16 06:57	12/22/16 22:06	83-32-9	
Acenaphthylene	1.3	ug/kg	1.2	0.35	1	12/15/16 06:57	12/22/16 22:06	208-96-8	
Anthracene	<2.0	ug/kg	2.0	0.59	1	12/15/16 06:57	12/22/16 22:06	120-12-7	
Benzo(a)anthracene	<2.0	ug/kg	2.0	0.61	1	12/15/16 06:57	12/22/16 22:06	56-55-3	
Benzo(a)pyrene	<1.5	ug/kg	1.5	0.45	1	12/15/16 06:57	12/22/16 22:06	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	2.5	0.74	1	12/15/16 06:57	12/22/16 22:06	205-99-2	
Benzo(g,h,i)perylene	<2.0	ug/kg	2.0	0.59	1	12/15/16 06:57	12/22/16 22:06	191-24-2	
Benzo(k)fluoranthene	<2.1	ug/kg	2.1	0.64	1	12/15/16 06:57	12/22/16 22:06	207-08-9	
Chrysene	<2.4	ug/kg	2.4	0.72	1	12/15/16 06:57	12/22/16 22:06	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.42	1	12/15/16 06:57	12/22/16 22:06	53-70-3	
Fluoranthene	<3.4	ug/kg	3.4	1.0	1	12/15/16 06:57	12/22/16 22:06	206-44-0	
Fluorene	<1.7	ug/kg	1.7	0.50	1	12/15/16 06:57	12/22/16 22:06	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.2	ug/kg	3.2	0.97	1	12/15/16 06:57	12/22/16 22:06	193-39-5	
Naphthalene	3.7	ug/kg	1.5	0.46	1	12/15/16 06:57	12/22/16 22:06	91-20-3	B
Phenanthrene	<1.7	ug/kg	1.7	0.52	1	12/15/16 06:57	12/22/16 22:06	85-01-8	
Pyrene	<3.6	ug/kg	3.6	1.1	1	12/15/16 06:57	12/22/16 22:06	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	86	%	41-125		1	12/15/16 06:57	12/22/16 22:06	321-60-8	
p-Terphenyl-d14 (S)	87	%	39-125		1	12/15/16 06:57	12/22/16 22:06	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1370	ug/kg	1370	411	1	12/15/16 13:40	12/21/16 06:15	67-64-1	
Allyl chloride	<179	ug/kg	179	53.8	1	12/15/16 13:40	12/21/16 06:15	107-05-1	
Benzene	<18.0	ug/kg	18.0	5.4	1	12/15/16 13:40	12/21/16 06:15	71-43-2	
Bromobenzene	<53.5	ug/kg	53.5	16.1	1	12/15/16 13:40	12/21/16 06:15	108-86-1	
Bromochloromethane	<62.2	ug/kg	62.2	18.7	1	12/15/16 13:40	12/21/16 06:15	74-97-5	
Bromodichloromethane	<58.5	ug/kg	58.5	17.6	1	12/15/16 13:40	12/21/16 06:15	75-27-4	
Bromoform	<180	ug/kg	180	54.1	1	12/15/16 13:40	12/21/16 06:15	75-25-2	
Bromomethane	<212	ug/kg	212	63.6	1	12/15/16 13:40	12/21/16 06:15	74-83-9	
2-Butanone (MEK)	<276	ug/kg	276	82.8	1	12/15/16 13:40	12/21/16 06:15	78-93-3	
n-Butylbenzene	<50.5	ug/kg	50.5	15.2	1	12/15/16 13:40	12/21/16 06:15	104-51-8	
sec-Butylbenzene	<49.3	ug/kg	49.3	14.8	1	12/15/16 13:40	12/21/16 06:15	135-98-8	
tert-Butylbenzene	<66.0	ug/kg	66.0	19.8	1	12/15/16 13:40	12/21/16 06:15	98-06-6	
Carbon tetrachloride	<65.6	ug/kg	65.6	19.7	1	12/15/16 13:40	12/21/16 06:15	56-23-5	
Chlorobenzene	<36.3	ug/kg	36.3	10.9	1	12/15/16 13:40	12/21/16 06:15	108-90-7	
Chloroethane	<330	ug/kg	330	99.1	1	12/15/16 13:40	12/21/16 06:15	75-00-3	
Chloroform	<101	ug/kg	101	30.5	1	12/15/16 13:40	12/21/16 06:15	67-66-3	
Chloromethane	<101	ug/kg	101	30.3	1	12/15/16 13:40	12/21/16 06:15	74-87-3	
2-Chlorotoluene	<57.6	ug/kg	57.6	17.3	1	12/15/16 13:40	12/21/16 06:15	95-49-8	
4-Chlorotoluene	<54.7	ug/kg	54.7	16.4	1	12/15/16 13:40	12/21/16 06:15	106-43-4	
1,2-Dibromo-3-chloropropane	<122	ug/kg	122	122	1	12/15/16 13:40	12/21/16 06:15	96-12-8	
Dibromochloromethane	<179	ug/kg	179	53.8	1	12/15/16 13:40	12/21/16 06:15	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: GP14\_3-5 Lab ID: 10373306013 Collected: 12/13/16 14:30 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<23.6	ug/kg	23.6	23.6	1	12/15/16 13:40	12/21/16 06:15	106-93-4	
Dibromomethane	<81.4	ug/kg	81.4	24.5	1	12/15/16 13:40	12/21/16 06:15	74-95-3	
1,2-Dichlorobenzene	<12.1	ug/kg	12.1	12.1	1	12/15/16 13:40	12/21/16 06:15	95-50-1	
1,3-Dichlorobenzene	<18.4	ug/kg	18.4	18.4	1	12/15/16 13:40	12/21/16 06:15	541-73-1	
1,4-Dichlorobenzene	<60.6	ug/kg	60.6	18.2	1	12/15/16 13:40	12/21/16 06:15	106-46-7	
Dichlorodifluoromethane	<63.9	ug/kg	63.9	19.2	1	12/15/16 13:40	12/21/16 06:15	75-71-8	
1,1-Dichloroethane	<24.3	ug/kg	24.3	24.3	1	12/15/16 13:40	12/21/16 06:15	75-34-3	
1,2-Dichloroethane	<19.8	ug/kg	19.8	19.8	1	12/15/16 13:40	12/21/16 06:15	107-06-2	
1,1-Dichloroethene	<15.9	ug/kg	15.9	15.9	1	12/15/16 13:40	12/21/16 06:15	75-35-4	
cis-1,2-Dichloroethene	<77.7	ug/kg	77.7	23.3	1	12/15/16 13:40	12/21/16 06:15	156-59-2	
trans-1,2-Dichloroethene	<101	ug/kg	101	30.2	1	12/15/16 13:40	12/21/16 06:15	156-60-5	
Dichlorofluoromethane	<572	ug/kg	572	172	1	12/15/16 13:40	12/21/16 06:15	75-43-4	
1,2-Dichloropropane	<21.7	ug/kg	21.7	21.7	1	12/15/16 13:40	12/21/16 06:15	78-87-5	
1,3-Dichloropropane	<74.8	ug/kg	74.8	22.4	1	12/15/16 13:40	12/21/16 06:15	142-28-9	
2,2-Dichloropropane	<66.4	ug/kg	66.4	19.9	1	12/15/16 13:40	12/21/16 06:15	594-20-7	
1,1-Dichloropropene	<18.9	ug/kg	18.9	18.9	1	12/15/16 13:40	12/21/16 06:15	563-58-6	
cis-1,3-Dichloropropene	<95.2	ug/kg	95.2	28.6	1	12/15/16 13:40	12/21/16 06:15	10061-01-5	
trans-1,3-Dichloropropene	<71.0	ug/kg	71.0	21.3	1	12/15/16 13:40	12/21/16 06:15	10061-02-6	
Diethyl ether (Ethyl ether)	<86.0	ug/kg	86.0	25.8	1	12/15/16 13:40	12/21/16 06:15	60-29-7	
Ethylbenzene	<66.4	ug/kg	66.4	19.9	1	12/15/16 13:40	12/21/16 06:15	100-41-4	
Hexachloro-1,3-butadiene	<196	ug/kg	196	58.9	1	12/15/16 13:40	12/21/16 06:15	87-68-3	
Isopropylbenzene (Cumene)	<74.3	ug/kg	74.3	22.3	1	12/15/16 13:40	12/21/16 06:15	98-82-8	
p-Isopropyltoluene	<34.7	ug/kg	34.7	10.4	1	12/15/16 13:40	12/21/16 06:15	99-87-6	
Methylene Chloride	<387	ug/kg	387	116	1	12/15/16 13:40	12/21/16 06:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	<138	ug/kg	138	41.5	1	12/15/16 13:40	12/21/16 06:15	108-10-1	
Methyl-tert-butyl ether	<39.1	ug/kg	39.1	11.7	1	12/15/16 13:40	12/21/16 06:15	1634-04-4	
Naphthalene	<50.5	ug/kg	50.5	15.2	1	12/15/16 13:40	12/21/16 06:15	91-20-3	
n-Propylbenzene	<62.2	ug/kg	62.2	18.7	1	12/15/16 13:40	12/21/16 06:15	103-65-1	
Styrene	<54.3	ug/kg	54.3	16.3	1	12/15/16 13:40	12/21/16 06:15	100-42-5	
1,1,1,2-Tetrachloroethane	<24.8	ug/kg	24.8	24.8	1	12/15/16 13:40	12/21/16 06:15	630-20-6	
1,1,2,2-Tetrachloroethane	<13.9	ug/kg	13.9	13.9	1	12/15/16 13:40	12/21/16 06:15	79-34-5	
Tetrachloroethene	<79.8	ug/kg	79.8	24.0	1	12/15/16 13:40	12/21/16 06:15	127-18-4	
Tetrahydrofuran	<1040	ug/kg	1040	311	1	12/15/16 13:40	12/21/16 06:15	109-99-9	
Toluene	<66.4	ug/kg	66.4	19.9	1	12/15/16 13:40	12/21/16 06:15	108-88-3	
1,2,3-Trichlorobenzene	<18.1	ug/kg	18.1	18.1	1	12/15/16 13:40	12/21/16 06:15	87-61-6	
1,2,4-Trichlorobenzene	<19.3	ug/kg	19.3	19.3	1	12/15/16 13:40	12/21/16 06:15	120-82-1	
1,1,1-Trichloroethane	<26.2	ug/kg	26.2	26.2	1	12/15/16 13:40	12/21/16 06:15	71-55-6	
1,1,2-Trichloroethane	<13.5	ug/kg	13.5	13.5	1	12/15/16 13:40	12/21/16 06:15	79-00-5	
Trichloroethene	<59.7	ug/kg	59.7	17.9	1	12/15/16 13:40	12/21/16 06:15	79-01-6	
Trichlorofluoromethane	<210	ug/kg	210	63.0	1	12/15/16 13:40	12/21/16 06:15	75-69-4	
1,2,3-Trichloropropane	<65.0	ug/kg	65.0	65.0	1	12/15/16 13:40	12/21/16 06:15	96-18-4	
1,1,2-Trichlorotrifluoroethane	<150	ug/kg	150	45.1	1	12/15/16 13:40	12/21/16 06:15	76-13-1	
1,2,4-Trimethylbenzene	<13.8	ug/kg	13.8	13.8	1	12/15/16 13:40	12/21/16 06:15	95-63-6	
1,3,5-Trimethylbenzene	<48.0	ug/kg	48.0	14.4	1	12/15/16 13:40	12/21/16 06:15	108-67-8	
Vinyl chloride	<26.8	ug/kg	26.8	8.1	1	12/15/16 13:40	12/21/16 06:15	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: GP14\_3-5**      **Lab ID: 10373306013**      Collected: 12/13/16 14:30      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<167	ug/kg	167	50.2	1	12/15/16 13:40	12/21/16 06:15	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	107	%	75-129		1	12/15/16 13:40	12/21/16 06:15	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/15/16 13:40	12/21/16 06:15	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/15/16 13:40	12/21/16 06:15	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP14\_9-10**      **Lab ID: 10373306014**      Collected: 12/13/16 14:35      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	7.3	%	0.10	0.10	1		12/28/16 13:30		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.4	ug/kg	1.4	0.42	1	12/15/16 06:57	12/22/16 22:27	83-32-9	
Acenaphthylene	1.3	ug/kg	0.98	0.29	1	12/15/16 06:57	12/22/16 22:27	208-96-8	
Anthracene	<1.6	ug/kg	1.6	0.49	1	12/15/16 06:57	12/22/16 22:27	120-12-7	
Benzo(a)anthracene	<1.7	ug/kg	1.7	0.51	1	12/15/16 06:57	12/22/16 22:27	56-55-3	
Benzo(a)pyrene	1.8	ug/kg	1.2	0.37	1	12/15/16 06:57	12/22/16 22:27	50-32-8	
Benzo(b)fluoranthene	<2.1	ug/kg	2.1	0.62	1	12/15/16 06:57	12/22/16 22:27	205-99-2	
Benzo(g,h,i)perylene	1.7	ug/kg	1.6	0.49	1	12/15/16 06:57	12/22/16 22:27	191-24-2	
Benzo(k)fluoranthene	<1.8	ug/kg	1.8	0.53	1	12/15/16 06:57	12/22/16 22:27	207-08-9	
Chrysene	<2.0	ug/kg	2.0	0.60	1	12/15/16 06:57	12/22/16 22:27	218-01-9	
Dibenz(a,h)anthracene	<1.2	ug/kg	1.2	0.35	1	12/15/16 06:57	12/22/16 22:27	53-70-3	
Fluoranthene	<2.8	ug/kg	2.8	0.84	1	12/15/16 06:57	12/22/16 22:27	206-44-0	
Fluorene	<1.4	ug/kg	1.4	0.41	1	12/15/16 06:57	12/22/16 22:27	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.7	ug/kg	2.7	0.81	1	12/15/16 06:57	12/22/16 22:27	193-39-5	
Naphthalene	2.7	ug/kg	1.3	0.38	1	12/15/16 06:57	12/22/16 22:27	91-20-3	B
Phenanthrene	2.2	ug/kg	1.4	0.43	1	12/15/16 06:57	12/22/16 22:27	85-01-8	
Pyrene	<3.0	ug/kg	3.0	0.89	1	12/15/16 06:57	12/22/16 22:27	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	79	%	41-125		1	12/15/16 06:57	12/22/16 22:27	321-60-8	
p-Terphenyl-d14 (S)	77	%	39-125		1	12/15/16 06:57	12/22/16 22:27	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1760	ug/kg	1760	528	1	12/15/16 13:40	12/16/16 16:21	67-64-1	
Allyl chloride	<230	ug/kg	230	69.0	1	12/15/16 13:40	12/16/16 16:21	107-05-1	
Benzene	<23.2	ug/kg	23.2	7.0	1	12/15/16 13:40	12/16/16 16:21	71-43-2	
Bromobenzene	<68.6	ug/kg	68.6	20.6	1	12/15/16 13:40	12/16/16 16:21	108-86-1	
Bromochloromethane	<79.9	ug/kg	79.9	24.0	1	12/15/16 13:40	12/16/16 16:21	74-97-5	
Bromodichloromethane	<75.0	ug/kg	75.0	22.5	1	12/15/16 13:40	12/16/16 16:21	75-27-4	
Bromoform	<231	ug/kg	231	69.4	1	12/15/16 13:40	12/16/16 16:21	75-25-2	
Bromomethane	<272	ug/kg	272	81.6	1	12/15/16 13:40	12/16/16 16:21	74-83-9	
2-Butanone (MEK)	<354	ug/kg	354	106	1	12/15/16 13:40	12/16/16 16:21	78-93-3	
n-Butylbenzene	<64.8	ug/kg	64.8	19.5	1	12/15/16 13:40	12/16/16 16:21	104-51-8	
sec-Butylbenzene	<63.2	ug/kg	63.2	19.0	1	12/15/16 13:40	12/16/16 16:21	135-98-8	
tert-Butylbenzene	<84.7	ug/kg	84.7	25.4	1	12/15/16 13:40	12/16/16 16:21	98-06-6	
Carbon tetrachloride	<84.1	ug/kg	84.1	25.3	1	12/15/16 13:40	12/16/16 16:21	56-23-5	
Chlorobenzene	<46.6	ug/kg	46.6	14.0	1	12/15/16 13:40	12/16/16 16:21	108-90-7	
Chloroethane	<423	ug/kg	423	127	1	12/15/16 13:40	12/16/16 16:21	75-00-3	
Chloroform	<130	ug/kg	130	39.1	1	12/15/16 13:40	12/16/16 16:21	67-66-3	
Chloromethane	<130	ug/kg	130	38.9	1	12/15/16 13:40	12/16/16 16:21	74-87-3	
2-Chlorotoluene	<74.0	ug/kg	74.0	22.2	1	12/15/16 13:40	12/16/16 16:21	95-49-8	
4-Chlorotoluene	<70.2	ug/kg	70.2	21.1	1	12/15/16 13:40	12/16/16 16:21	106-43-4	
1,2-Dibromo-3-chloropropane	<157	ug/kg	157	157	1	12/15/16 13:40	12/16/16 16:21	96-12-8	
Dibromochloromethane	<230	ug/kg	230	69.0	1	12/15/16 13:40	12/16/16 16:21	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP14\_9-10**      **Lab ID: 10373306014**      Collected: 12/13/16 14:35      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<30.3	ug/kg	30.3	30.3	1	12/15/16 13:40	12/16/16 16:21	106-93-4	
Dibromomethane	<105	ug/kg	105	31.4	1	12/15/16 13:40	12/16/16 16:21	74-95-3	
1,2-Dichlorobenzene	<15.5	ug/kg	15.5	15.5	1	12/15/16 13:40	12/16/16 16:21	95-50-1	
1,3-Dichlorobenzene	<23.7	ug/kg	23.7	23.7	1	12/15/16 13:40	12/16/16 16:21	541-73-1	
1,4-Dichlorobenzene	<77.7	ug/kg	77.7	23.3	1	12/15/16 13:40	12/16/16 16:21	106-46-7	
Dichlorodifluoromethane	<82.0	ug/kg	82.0	24.6	1	12/15/16 13:40	12/16/16 16:21	75-71-8	
1,1-Dichloroethane	<31.2	ug/kg	31.2	31.2	1	12/15/16 13:40	12/16/16 16:21	75-34-3	
1,2-Dichloroethane	<25.4	ug/kg	25.4	25.4	1	12/15/16 13:40	12/16/16 16:21	107-06-2	
1,1-Dichloroethene	<20.4	ug/kg	20.4	20.4	1	12/15/16 13:40	12/16/16 16:21	75-35-4	
cis-1,2-Dichloroethene	<99.7	ug/kg	99.7	29.9	1	12/15/16 13:40	12/16/16 16:21	156-59-2	
trans-1,2-Dichloroethene	<129	ug/kg	129	38.8	1	12/15/16 13:40	12/16/16 16:21	156-60-5	
Dichlorofluoromethane	<734	ug/kg	734	220	1	12/15/16 13:40	12/16/16 16:21	75-43-4	
1,2-Dichloropropane	<27.8	ug/kg	27.8	27.8	1	12/15/16 13:40	12/16/16 16:21	78-87-5	
1,3-Dichloropropane	<95.9	ug/kg	95.9	28.8	1	12/15/16 13:40	12/16/16 16:21	142-28-9	
2,2-Dichloropropane	<85.2	ug/kg	85.2	25.6	1	12/15/16 13:40	12/16/16 16:21	594-20-7	
1,1-Dichloropropene	<24.3	ug/kg	24.3	24.3	1	12/15/16 13:40	12/16/16 16:21	563-58-6	
cis-1,3-Dichloropropene	<122	ug/kg	122	36.7	1	12/15/16 13:40	12/16/16 16:21	10061-01-5	
trans-1,3-Dichloropropene	<91.1	ug/kg	91.1	27.4	1	12/15/16 13:40	12/16/16 16:21	10061-02-6	
Diethyl ether (Ethyl ether)	<110	ug/kg	110	33.2	1	12/15/16 13:40	12/16/16 16:21	60-29-7	
Ethylbenzene	<85.2	ug/kg	85.2	25.6	1	12/15/16 13:40	12/16/16 16:21	100-41-4	
Hexachloro-1,3-butadiene	<252	ug/kg	252	75.6	1	12/15/16 13:40	12/16/16 16:21	87-68-3	
Isopropylbenzene (Cumene)	<95.4	ug/kg	95.4	28.6	1	12/15/16 13:40	12/16/16 16:21	98-82-8	
p-Isopropyltoluene	<44.5	ug/kg	44.5	13.4	1	12/15/16 13:40	12/16/16 16:21	99-87-6	
Methylene Chloride	<496	ug/kg	496	149	1	12/15/16 13:40	12/16/16 16:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	<177	ug/kg	177	53.3	1	12/15/16 13:40	12/16/16 16:21	108-10-1	
Methyl-tert-butyl ether	<50.2	ug/kg	50.2	15.1	1	12/15/16 13:40	12/16/16 16:21	1634-04-4	
Naphthalene	<64.8	ug/kg	64.8	19.5	1	12/15/16 13:40	12/16/16 16:21	91-20-3	
n-Propylbenzene	<79.9	ug/kg	79.9	24.0	1	12/15/16 13:40	12/16/16 16:21	103-65-1	
Styrene	<69.7	ug/kg	69.7	20.9	1	12/15/16 13:40	12/16/16 16:21	100-42-5	
1,1,1,2-Tetrachloroethane	<31.9	ug/kg	31.9	31.9	1	12/15/16 13:40	12/16/16 16:21	630-20-6	
1,1,1,2,2-Tetrachloroethane	<17.9	ug/kg	17.9	17.9	1	12/15/16 13:40	12/16/16 16:21	79-34-5	
Tetrachloroethene	<102	ug/kg	102	30.7	1	12/15/16 13:40	12/16/16 16:21	127-18-4	
Tetrahydrofuran	<1330	ug/kg	1330	399	1	12/15/16 13:40	12/16/16 16:21	109-99-9	
Toluene	<85.2	ug/kg	85.2	25.6	1	12/15/16 13:40	12/16/16 16:21	108-88-3	
1,2,3-Trichlorobenzene	<23.2	ug/kg	23.2	23.2	1	12/15/16 13:40	12/16/16 16:21	87-61-6	
1,2,4-Trichlorobenzene	<24.8	ug/kg	24.8	24.8	1	12/15/16 13:40	12/16/16 16:21	120-82-1	
1,1,1-Trichloroethane	<33.6	ug/kg	33.6	33.6	1	12/15/16 13:40	12/16/16 16:21	71-55-6	
1,1,2-Trichloroethane	<17.4	ug/kg	17.4	17.4	1	12/15/16 13:40	12/16/16 16:21	79-00-5	
Trichloroethene	<76.6	ug/kg	76.6	23.0	1	12/15/16 13:40	12/16/16 16:21	79-01-6	
Trichlorofluoromethane	<269	ug/kg	269	80.8	1	12/15/16 13:40	12/16/16 16:21	75-69-4	
1,2,3-Trichloropropane	<83.4	ug/kg	83.4	83.4	1	12/15/16 13:40	12/16/16 16:21	96-18-4	
1,1,2-Trichlorotrifluoroethane	<193	ug/kg	193	57.9	1	12/15/16 13:40	12/16/16 16:21	76-13-1	
1,2,4-Trimethylbenzene	<17.7	ug/kg	17.7	17.7	1	12/15/16 13:40	12/16/16 16:21	95-63-6	
1,3,5-Trimethylbenzene	<61.6	ug/kg	61.6	18.5	1	12/15/16 13:40	12/16/16 16:21	108-67-8	
Vinyl chloride	<34.4	ug/kg	34.4	10.3	1	12/15/16 13:40	12/16/16 16:21	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP14\_9-10**      **Lab ID: 10373306014**      Collected: 12/13/16 14:35      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<214	ug/kg	214	64.4	1	12/15/16 13:40	12/16/16 16:21	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-129		1	12/15/16 13:40	12/16/16 16:21	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/15/16 13:40	12/16/16 16:21	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/15/16 13:40	12/16/16 16:21	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP14\_10-12**      **Lab ID: 10373306015**      Collected: 12/13/16 14:40      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>29.2</b>	%	0.10	0.10	1		12/28/16 13:30		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.8	ug/kg	1.8	0.55	1	12/15/16 06:57	12/22/16 22:49	83-32-9	
Acenaphthylene	<1.3	ug/kg	1.3	0.38	1	12/15/16 06:57	12/22/16 22:49	208-96-8	
Anthracene	<2.1	ug/kg	2.1	0.64	1	12/15/16 06:57	12/22/16 22:49	120-12-7	
Benzo(a)anthracene	<2.2	ug/kg	2.2	0.66	1	12/15/16 06:57	12/22/16 22:49	56-55-3	
Benzo(a)pyrene	<1.6	ug/kg	1.6	0.49	1	12/15/16 06:57	12/22/16 22:49	50-32-8	
Benzo(b)fluoranthene	<2.7	ug/kg	2.7	0.81	1	12/15/16 06:57	12/22/16 22:49	205-99-2	
Benzo(g,h,i)perylene	<2.1	ug/kg	2.1	0.64	1	12/15/16 06:57	12/22/16 22:49	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	2.3	0.69	1	12/15/16 06:57	12/22/16 22:49	207-08-9	
Chrysene	<2.6	ug/kg	2.6	0.78	1	12/15/16 06:57	12/22/16 22:49	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.46	1	12/15/16 06:57	12/22/16 22:49	53-70-3	
Fluoranthene	<3.7	ug/kg	3.7	1.1	1	12/15/16 06:57	12/22/16 22:49	206-44-0	
Fluorene	<1.8	ug/kg	1.8	0.54	1	12/15/16 06:57	12/22/16 22:49	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.5	ug/kg	3.5	1.1	1	12/15/16 06:57	12/22/16 22:49	193-39-5	
Naphthalene	2.4	ug/kg	1.7	0.50	1	12/15/16 06:57	12/22/16 22:49	91-20-3	B
Phenanthrene	<1.9	ug/kg	1.9	0.57	1	12/15/16 06:57	12/22/16 22:49	85-01-8	
Pyrene	<3.9	ug/kg	3.9	1.2	1	12/15/16 06:57	12/22/16 22:49	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	90	%	41-125		1	12/15/16 06:57	12/22/16 22:49	321-60-8	
p-Terphenyl-d14 (S)	87	%	39-125		1	12/15/16 06:57	12/22/16 22:49	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1560	ug/kg	1560	469	1	12/15/16 13:40	12/16/16 16:39	67-64-1	
Allyl chloride	<204	ug/kg	204	61.4	1	12/15/16 13:40	12/16/16 16:39	107-05-1	
Benzene	998	ug/kg	20.6	6.2	1	12/15/16 13:40	12/16/16 16:39	71-43-2	
Bromobenzene	<61.0	ug/kg	61.0	18.3	1	12/15/16 13:40	12/16/16 16:39	108-86-1	
Bromochloromethane	<71.0	ug/kg	71.0	21.3	1	12/15/16 13:40	12/16/16 16:39	74-97-5	
Bromodichloromethane	<66.7	ug/kg	66.7	20.0	1	12/15/16 13:40	12/16/16 16:39	75-27-4	
Bromoform	<205	ug/kg	205	61.7	1	12/15/16 13:40	12/16/16 16:39	75-25-2	
Bromomethane	<241	ug/kg	241	72.5	1	12/15/16 13:40	12/16/16 16:39	74-83-9	
2-Butanone (MEK)	<314	ug/kg	314	94.4	1	12/15/16 13:40	12/16/16 16:39	78-93-3	
n-Butylbenzene	<57.6	ug/kg	57.6	17.3	1	12/15/16 13:40	12/16/16 16:39	104-51-8	
sec-Butylbenzene	<56.2	ug/kg	56.2	16.9	1	12/15/16 13:40	12/16/16 16:39	135-98-8	
tert-Butylbenzene	<75.3	ug/kg	75.3	22.6	1	12/15/16 13:40	12/16/16 16:39	98-06-6	
Carbon tetrachloride	<74.8	ug/kg	74.8	22.5	1	12/15/16 13:40	12/16/16 16:39	56-23-5	
Chlorobenzene	<41.4	ug/kg	41.4	12.4	1	12/15/16 13:40	12/16/16 16:39	108-90-7	
Chloroethane	<376	ug/kg	376	113	1	12/15/16 13:40	12/16/16 16:39	75-00-3	
Chloroform	<116	ug/kg	116	34.8	1	12/15/16 13:40	12/16/16 16:39	67-66-3	
Chloromethane	<115	ug/kg	115	34.6	1	12/15/16 13:40	12/16/16 16:39	74-87-3	
2-Chlorotoluene	<65.7	ug/kg	65.7	19.7	1	12/15/16 13:40	12/16/16 16:39	95-49-8	
4-Chlorotoluene	<62.4	ug/kg	62.4	18.7	1	12/15/16 13:40	12/16/16 16:39	106-43-4	
1,2-Dibromo-3-chloropropane	<139	ug/kg	139	139	1	12/15/16 13:40	12/16/16 16:39	96-12-8	
Dibromochloromethane	<204	ug/kg	204	61.4	1	12/15/16 13:40	12/16/16 16:39	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: GP14\_10-12 Lab ID: 10373306015 Collected: 12/13/16 14:40 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<26.9	ug/kg	26.9	26.9	1	12/15/16 13:40	12/16/16 16:39	106-93-4	
Dibromomethane	<92.9	ug/kg	92.9	27.9	1	12/15/16 13:40	12/16/16 16:39	74-95-3	
1,2-Dichlorobenzene	<13.8	ug/kg	13.8	13.8	1	12/15/16 13:40	12/16/16 16:39	95-50-1	
1,3-Dichlorobenzene	<21.0	ug/kg	21.0	21.0	1	12/15/16 13:40	12/16/16 16:39	541-73-1	
1,4-Dichlorobenzene	<69.1	ug/kg	69.1	20.7	1	12/15/16 13:40	12/16/16 16:39	106-46-7	
Dichlorodifluoromethane	<72.9	ug/kg	72.9	21.9	1	12/15/16 13:40	12/16/16 16:39	75-71-8	
1,1-Dichloroethane	<27.8	ug/kg	27.8	27.8	1	12/15/16 13:40	12/16/16 16:39	75-34-3	
1,2-Dichloroethane	<22.6	ug/kg	22.6	22.6	1	12/15/16 13:40	12/16/16 16:39	107-06-2	
1,1-Dichloroethene	<18.2	ug/kg	18.2	18.2	1	12/15/16 13:40	12/16/16 16:39	75-35-4	
cis-1,2-Dichloroethene	<88.6	ug/kg	88.6	26.6	1	12/15/16 13:40	12/16/16 16:39	156-59-2	
trans-1,2-Dichloroethene	<115	ug/kg	115	34.5	1	12/15/16 13:40	12/16/16 16:39	156-60-5	
Dichlorofluoromethane	<653	ug/kg	653	196	1	12/15/16 13:40	12/16/16 16:39	75-43-4	
1,2-Dichloropropane	<24.7	ug/kg	24.7	24.7	1	12/15/16 13:40	12/16/16 16:39	78-87-5	
1,3-Dichloropropane	<85.3	ug/kg	85.3	25.6	1	12/15/16 13:40	12/16/16 16:39	142-28-9	
2,2-Dichloropropane	<75.7	ug/kg	75.7	22.7	1	12/15/16 13:40	12/16/16 16:39	594-20-7	
1,1-Dichloropropene	<21.6	ug/kg	21.6	21.6	1	12/15/16 13:40	12/16/16 16:39	563-58-6	
cis-1,3-Dichloropropene	<109	ug/kg	109	32.6	1	12/15/16 13:40	12/16/16 16:39	10061-01-5	
trans-1,3-Dichloropropene	<81.0	ug/kg	81.0	24.3	1	12/15/16 13:40	12/16/16 16:39	10061-02-6	
Diethyl ether (Ethyl ether)	<98.1	ug/kg	98.1	29.5	1	12/15/16 13:40	12/16/16 16:39	60-29-7	
Ethylbenzene	<75.7	ug/kg	75.7	22.7	1	12/15/16 13:40	12/16/16 16:39	100-41-4	
Hexachloro-1,3-butadiene	<224	ug/kg	224	67.2	1	12/15/16 13:40	12/16/16 16:39	87-68-3	
Isopropylbenzene (Cumene)	<84.8	ug/kg	84.8	25.5	1	12/15/16 13:40	12/16/16 16:39	98-82-8	
p-Isopropyltoluene	<39.5	ug/kg	39.5	11.9	1	12/15/16 13:40	12/16/16 16:39	99-87-6	
Methylene Chloride	<441	ug/kg	441	132	1	12/15/16 13:40	12/16/16 16:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	<158	ug/kg	158	47.3	1	12/15/16 13:40	12/16/16 16:39	108-10-1	
Methyl-tert-butyl ether	<44.6	ug/kg	44.6	13.4	1	12/15/16 13:40	12/16/16 16:39	1634-04-4	
Naphthalene	<57.6	ug/kg	57.6	17.3	1	12/15/16 13:40	12/16/16 16:39	91-20-3	
n-Propylbenzene	<71.0	ug/kg	71.0	21.3	1	12/15/16 13:40	12/16/16 16:39	103-65-1	
Styrene	<61.9	ug/kg	61.9	18.6	1	12/15/16 13:40	12/16/16 16:39	100-42-5	
1,1,1,2-Tetrachloroethane	<28.3	ug/kg	28.3	28.3	1	12/15/16 13:40	12/16/16 16:39	630-20-6	
1,1,2,2-Tetrachloroethane	<15.9	ug/kg	15.9	15.9	1	12/15/16 13:40	12/16/16 16:39	79-34-5	
Tetrachloroethene	<91.0	ug/kg	91.0	27.3	1	12/15/16 13:40	12/16/16 16:39	127-18-4	
Tetrahydrofuran	<1180	ug/kg	1180	355	1	12/15/16 13:40	12/16/16 16:39	109-99-9	
Toluene	<75.7	ug/kg	75.7	22.7	1	12/15/16 13:40	12/16/16 16:39	108-88-3	
1,2,3-Trichlorobenzene	<20.6	ug/kg	20.6	20.6	1	12/15/16 13:40	12/16/16 16:39	87-61-6	
1,2,4-Trichlorobenzene	<22.0	ug/kg	22.0	22.0	1	12/15/16 13:40	12/16/16 16:39	120-82-1	
1,1,1-Trichloroethane	<29.9	ug/kg	29.9	29.9	1	12/15/16 13:40	12/16/16 16:39	71-55-6	
1,1,2-Trichloroethane	<15.4	ug/kg	15.4	15.4	1	12/15/16 13:40	12/16/16 16:39	79-00-5	
Trichloroethene	<68.1	ug/kg	68.1	20.5	1	12/15/16 13:40	12/16/16 16:39	79-01-6	
Trichlorofluoromethane	<239	ug/kg	239	71.8	1	12/15/16 13:40	12/16/16 16:39	75-69-4	
1,2,3-Trichloropropane	<74.1	ug/kg	74.1	74.1	1	12/15/16 13:40	12/16/16 16:39	96-18-4	
1,1,2-Trichlorotrifluoroethane	<171	ug/kg	171	51.5	1	12/15/16 13:40	12/16/16 16:39	76-13-1	
1,2,4-Trimethylbenzene	<15.7	ug/kg	15.7	15.7	1	12/15/16 13:40	12/16/16 16:39	95-63-6	
1,3,5-Trimethylbenzene	<54.8	ug/kg	54.8	16.4	1	12/15/16 13:40	12/16/16 16:39	108-67-8	
Vinyl chloride	<30.6	ug/kg	30.6	9.2	1	12/15/16 13:40	12/16/16 16:39	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: GP14\_10-12**      **Lab ID: 10373306015**      Collected: 12/13/16 14:40      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<191	ug/kg	191	57.2	1	12/15/16 13:40	12/16/16 16:39	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%	75-129		1	12/15/16 13:40	12/16/16 16:39	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/15/16 13:40	12/16/16 16:39	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/15/16 13:40	12/16/16 16:39	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP15\_3-5**      **Lab ID: 10373306016**      Collected: 12/13/16 14:45      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	21.4	%	0.10	0.10	1		12/28/16 13:31		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	9.3	ug/kg	1.6	0.50	1	12/15/16 06:57	12/22/16 23:10	83-32-9	
Acenaphthylene	77.3	ug/kg	1.1	0.34	1	12/15/16 06:57	12/22/16 23:10	208-96-8	
Anthracene	77.1	ug/kg	1.9	0.57	1	12/15/16 06:57	12/22/16 23:10	120-12-7	
Benzo(a)anthracene	48.7	ug/kg	2.0	0.59	1	12/15/16 06:57	12/22/16 23:10	56-55-3	
Benzo(a)pyrene	49.1	ug/kg	1.5	0.44	1	12/15/16 06:57	12/22/16 23:10	50-32-8	
Benzo(b)fluoranthene	38.9	ug/kg	2.4	0.73	1	12/15/16 06:57	12/22/16 23:10	205-99-2	
Benzo(g,h,i)perylene	23.0	ug/kg	1.9	0.58	1	12/15/16 06:57	12/22/16 23:10	191-24-2	
Benzo(k)fluoranthene	18.8	ug/kg	2.1	0.62	1	12/15/16 06:57	12/22/16 23:10	207-08-9	
Chrysene	51.3	ug/kg	2.3	0.70	1	12/15/16 06:57	12/22/16 23:10	218-01-9	
Dibenz(a,h)anthracene	4.3	ug/kg	1.4	0.41	1	12/15/16 06:57	12/22/16 23:10	53-70-3	
Fluoranthene	98.7	ug/kg	3.3	0.99	1	12/15/16 06:57	12/22/16 23:10	206-44-0	
Fluorene	55.1	ug/kg	1.6	0.49	1	12/15/16 06:57	12/22/16 23:10	86-73-7	
Indeno(1,2,3-cd)pyrene	16.7	ug/kg	3.2	0.95	1	12/15/16 06:57	12/22/16 23:10	193-39-5	
Naphthalene	203	ug/kg	1.5	0.45	1	12/15/16 06:57	12/22/16 23:10	91-20-3	
Phenanthrene	229	ug/kg	1.7	0.51	1	12/15/16 06:57	12/22/16 23:10	85-01-8	
Pyrene	127	ug/kg	3.5	1.0	1	12/15/16 06:57	12/22/16 23:10	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	81	%	41-125		1	12/15/16 06:57	12/22/16 23:10	321-60-8	
p-Terphenyl-d14 (S)	75	%	39-125		1	12/15/16 06:57	12/22/16 23:10	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1380	ug/kg	1380	415	1	12/15/16 13:40	12/16/16 16:57	67-64-1	
Allyl chloride	<181	ug/kg	181	54.2	1	12/15/16 13:40	12/16/16 16:57	107-05-1	
Benzene	5200	ug/kg	18.2	5.5	1	12/15/16 13:40	12/16/16 16:57	71-43-2	
Bromobenzene	<53.9	ug/kg	53.9	16.2	1	12/15/16 13:40	12/16/16 16:57	108-86-1	
Bromochloromethane	<62.7	ug/kg	62.7	18.8	1	12/15/16 13:40	12/16/16 16:57	74-97-5	
Bromodichloromethane	<58.9	ug/kg	58.9	17.7	1	12/15/16 13:40	12/16/16 16:57	75-27-4	
Bromoform	<181	ug/kg	181	54.5	1	12/15/16 13:40	12/16/16 16:57	75-25-2	
Bromomethane	<213	ug/kg	213	64.1	1	12/15/16 13:40	12/16/16 16:57	74-83-9	
2-Butanone (MEK)	<278	ug/kg	278	83.5	1	12/15/16 13:40	12/16/16 16:57	78-93-3	
n-Butylbenzene	<50.9	ug/kg	50.9	15.3	1	12/15/16 13:40	12/16/16 16:57	104-51-8	
sec-Butylbenzene	<49.7	ug/kg	49.7	14.9	1	12/15/16 13:40	12/16/16 16:57	135-98-8	
tert-Butylbenzene	<66.5	ug/kg	66.5	20.0	1	12/15/16 13:40	12/16/16 16:57	98-06-6	
Carbon tetrachloride	<66.1	ug/kg	66.1	19.9	1	12/15/16 13:40	12/16/16 16:57	56-23-5	
Chlorobenzene	<36.6	ug/kg	36.6	11.0	1	12/15/16 13:40	12/16/16 16:57	108-90-7	
Chloroethane	<333	ug/kg	333	99.9	1	12/15/16 13:40	12/16/16 16:57	75-00-3	
Chloroform	<102	ug/kg	102	30.7	1	12/15/16 13:40	12/16/16 16:57	67-66-3	
Chloromethane	<102	ug/kg	102	30.6	1	12/15/16 13:40	12/16/16 16:57	74-87-3	
2-Chlorotoluene	<58.1	ug/kg	58.1	17.4	1	12/15/16 13:40	12/16/16 16:57	95-49-8	
4-Chlorotoluene	<55.2	ug/kg	55.2	16.6	1	12/15/16 13:40	12/16/16 16:57	106-43-4	
1,2-Dibromo-3-chloropropane	<123	ug/kg	123	123	1	12/15/16 13:40	12/16/16 16:57	96-12-8	
Dibromochloromethane	<181	ug/kg	181	54.2	1	12/15/16 13:40	12/16/16 16:57	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: GP15\_3-5 Lab ID: 10373306016 Collected: 12/13/16 14:45 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<23.8	ug/kg	23.8	23.8	1	12/15/16 13:40	12/16/16 16:57	106-93-4	
Dibromomethane	<82.1	ug/kg	82.1	24.7	1	12/15/16 13:40	12/16/16 16:57	74-95-3	
1,2-Dichlorobenzene	<12.2	ug/kg	12.2	12.2	1	12/15/16 13:40	12/16/16 16:57	95-50-1	
1,3-Dichlorobenzene	<18.6	ug/kg	18.6	18.6	1	12/15/16 13:40	12/16/16 16:57	541-73-1	
1,4-Dichlorobenzene	<61.1	ug/kg	61.1	18.3	1	12/15/16 13:40	12/16/16 16:57	106-46-7	
Dichlorodifluoromethane	<64.4	ug/kg	64.4	19.3	1	12/15/16 13:40	12/16/16 16:57	75-71-8	
1,1-Dichloroethane	<24.5	ug/kg	24.5	24.5	1	12/15/16 13:40	12/16/16 16:57	75-34-3	
1,2-Dichloroethane	<20.0	ug/kg	20.0	20.0	1	12/15/16 13:40	12/16/16 16:57	107-06-2	
1,1-Dichloroethene	<16.1	ug/kg	16.1	16.1	1	12/15/16 13:40	12/16/16 16:57	75-35-4	
cis-1,2-Dichloroethene	<78.3	ug/kg	78.3	23.5	1	12/15/16 13:40	12/16/16 16:57	156-59-2	
trans-1,2-Dichloroethene	<101	ug/kg	101	30.5	1	12/15/16 13:40	12/16/16 16:57	156-60-5	
Dichlorofluoromethane	<577	ug/kg	577	173	1	12/15/16 13:40	12/16/16 16:57	75-43-4	
1,2-Dichloropropane	<21.9	ug/kg	21.9	21.9	1	12/15/16 13:40	12/16/16 16:57	78-87-5	
1,3-Dichloropropane	<75.4	ug/kg	75.4	22.6	1	12/15/16 13:40	12/16/16 16:57	142-28-9	
2,2-Dichloropropane	<66.9	ug/kg	66.9	20.1	1	12/15/16 13:40	12/16/16 16:57	594-20-7	
1,1-Dichloropropene	<19.1	ug/kg	19.1	19.1	1	12/15/16 13:40	12/16/16 16:57	563-58-6	
cis-1,3-Dichloropropene	<96.0	ug/kg	96.0	28.8	1	12/15/16 13:40	12/16/16 16:57	10061-01-5	
trans-1,3-Dichloropropene	<71.6	ug/kg	71.6	21.5	1	12/15/16 13:40	12/16/16 16:57	10061-02-6	
Diethyl ether (Ethyl ether)	<86.7	ug/kg	86.7	26.0	1	12/15/16 13:40	12/16/16 16:57	60-29-7	
Ethylbenzene	303	ug/kg	66.9	20.1	1	12/15/16 13:40	12/16/16 16:57	100-41-4	
Hexachloro-1,3-butadiene	<198	ug/kg	198	59.4	1	12/15/16 13:40	12/16/16 16:57	87-68-3	
Isopropylbenzene (Cumene)	<74.9	ug/kg	74.9	22.5	1	12/15/16 13:40	12/16/16 16:57	98-82-8	
p-Isopropyltoluene	<34.9	ug/kg	34.9	10.5	1	12/15/16 13:40	12/16/16 16:57	99-87-6	
Methylene Chloride	<390	ug/kg	390	117	1	12/15/16 13:40	12/16/16 16:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	<139	ug/kg	139	41.9	1	12/15/16 13:40	12/16/16 16:57	108-10-1	
Methyl-tert-butyl ether	<39.4	ug/kg	39.4	11.8	1	12/15/16 13:40	12/16/16 16:57	1634-04-4	
Naphthalene	5720	ug/kg	50.9	15.3	1	12/15/16 13:40	12/16/16 16:57	91-20-3	
n-Propylbenzene	<62.7	ug/kg	62.7	18.8	1	12/15/16 13:40	12/16/16 16:57	103-65-1	
Styrene	<54.7	ug/kg	54.7	16.4	1	12/15/16 13:40	12/16/16 16:57	100-42-5	
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	25.0	25.0	1	12/15/16 13:40	12/16/16 16:57	630-20-6	
1,1,1,2,2-Tetrachloroethane	<14.0	ug/kg	14.0	14.0	1	12/15/16 13:40	12/16/16 16:57	79-34-5	
Tetrachloroethene	<80.4	ug/kg	80.4	24.2	1	12/15/16 13:40	12/16/16 16:57	127-18-4	
Tetrahydrofuran	<1040	ug/kg	1040	314	1	12/15/16 13:40	12/16/16 16:57	109-99-9	
Toluene	251	ug/kg	66.9	20.1	1	12/15/16 13:40	12/16/16 16:57	108-88-3	
1,2,3-Trichlorobenzene	<18.2	ug/kg	18.2	18.2	1	12/15/16 13:40	12/16/16 16:57	87-61-6	
1,2,4-Trichlorobenzene	<19.5	ug/kg	19.5	19.5	1	12/15/16 13:40	12/16/16 16:57	120-82-1	
1,1,1-Trichloroethane	<26.4	ug/kg	26.4	26.4	1	12/15/16 13:40	12/16/16 16:57	71-55-6	
1,1,2-Trichloroethane	<13.7	ug/kg	13.7	13.7	1	12/15/16 13:40	12/16/16 16:57	79-00-5	
Trichloroethene	<60.2	ug/kg	60.2	18.1	1	12/15/16 13:40	12/16/16 16:57	79-01-6	
Trichlorofluoromethane	<211	ug/kg	211	63.5	1	12/15/16 13:40	12/16/16 16:57	75-69-4	
1,2,3-Trichloropropane	<65.5	ug/kg	65.5	65.5	1	12/15/16 13:40	12/16/16 16:57	96-18-4	
1,1,2-Trichlorotrifluoroethane	<152	ug/kg	152	45.5	1	12/15/16 13:40	12/16/16 16:57	76-13-1	
1,2,4-Trimethylbenzene	378	ug/kg	13.9	13.9	1	12/15/16 13:40	12/16/16 16:57	95-63-6	
1,3,5-Trimethylbenzene	120	ug/kg	48.4	14.5	1	12/15/16 13:40	12/16/16 16:57	108-67-8	
Vinyl chloride	<27.0	ug/kg	27.0	8.1	1	12/15/16 13:40	12/16/16 16:57	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: GP15\_3-5**      **Lab ID: 10373306016**      Collected: 12/13/16 14:45      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>1340</b>	ug/kg	168	50.6	1	12/15/16 13:40	12/16/16 16:57	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-129		1	12/15/16 13:40	12/16/16 16:57	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/15/16 13:40	12/16/16 16:57	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/15/16 13:40	12/16/16 16:57	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: **GP15\_5-7** Lab ID: **10373306017** Collected: 12/13/16 14:50 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	22.3	%	0.10	0.10	1		12/28/16 13:31		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	3.9	ug/kg	1.7	0.50	1	12/15/16 06:57	12/22/16 23:32	83-32-9	
Acenaphthylene	9.3	ug/kg	1.2	0.35	1	12/15/16 06:57	12/22/16 23:32	208-96-8	
Anthracene	20.8	ug/kg	1.9	0.58	1	12/15/16 06:57	12/22/16 23:32	120-12-7	
Benzo(a)anthracene	2.5	ug/kg	2.0	0.60	1	12/15/16 06:57	12/22/16 23:32	56-55-3	
Benzo(a)pyrene	1.9	ug/kg	1.5	0.45	1	12/15/16 06:57	12/22/16 23:32	50-32-8	
Benzo(b)fluoranthene	<2.4	ug/kg	2.4	0.74	1	12/15/16 06:57	12/22/16 23:32	205-99-2	
Benzo(g,h,i)perylene	<2.0	ug/kg	2.0	0.59	1	12/15/16 06:57	12/22/16 23:32	191-24-2	
Benzo(k)fluoranthene	<2.1	ug/kg	2.1	0.63	1	12/15/16 06:57	12/22/16 23:32	207-08-9	
Chrysene	3.0	ug/kg	2.4	0.71	1	12/15/16 06:57	12/22/16 23:32	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.42	1	12/15/16 06:57	12/22/16 23:32	53-70-3	
Fluoranthene	12.5	ug/kg	3.4	1.0	1	12/15/16 06:57	12/22/16 23:32	206-44-0	
Fluorene	16.2	ug/kg	1.6	0.49	1	12/15/16 06:57	12/22/16 23:32	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.2	ug/kg	3.2	0.96	1	12/15/16 06:57	12/22/16 23:32	193-39-5	
Naphthalene	645	ug/kg	7.6	2.3	5	12/15/16 06:57	12/23/16 17:03	91-20-3	
Phenanthrene	62.5	ug/kg	1.7	0.52	1	12/15/16 06:57	12/22/16 23:32	85-01-8	
Pyrene	17.2	ug/kg	3.5	1.1	1	12/15/16 06:57	12/22/16 23:32	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	94	%	41-125		1	12/15/16 06:57	12/22/16 23:32	321-60-8	
p-Terphenyl-d14 (S)	86	%	39-125		1	12/15/16 06:57	12/22/16 23:32	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1360	ug/kg	1360	407	1	12/15/16 13:40	12/16/16 17:15	67-64-1	
Allyl chloride	<177	ug/kg	177	53.3	1	12/15/16 13:40	12/16/16 17:15	107-05-1	
Benzene	4150	ug/kg	17.9	5.4	1	12/15/16 13:40	12/16/16 17:15	71-43-2	
Bromobenzene	<52.9	ug/kg	52.9	15.9	1	12/15/16 13:40	12/16/16 17:15	108-86-1	
Bromochloromethane	<61.6	ug/kg	61.6	18.5	1	12/15/16 13:40	12/16/16 17:15	74-97-5	
Bromodichloromethane	<57.9	ug/kg	57.9	17.4	1	12/15/16 13:40	12/16/16 17:15	75-27-4	
Bromoform	<178	ug/kg	178	53.5	1	12/15/16 13:40	12/16/16 17:15	75-25-2	
Bromomethane	<210	ug/kg	210	63.0	1	12/15/16 13:40	12/16/16 17:15	74-83-9	
2-Butanone (MEK)	<273	ug/kg	273	82.0	1	12/15/16 13:40	12/16/16 17:15	78-93-3	
n-Butylbenzene	<50.0	ug/kg	50.0	15.0	1	12/15/16 13:40	12/16/16 17:15	104-51-8	
sec-Butylbenzene	<48.8	ug/kg	48.8	14.7	1	12/15/16 13:40	12/16/16 17:15	135-98-8	
tert-Butylbenzene	<65.3	ug/kg	65.3	19.6	1	12/15/16 13:40	12/16/16 17:15	98-06-6	
Carbon tetrachloride	<64.9	ug/kg	64.9	19.5	1	12/15/16 13:40	12/16/16 17:15	56-23-5	
Chlorobenzene	<36.0	ug/kg	36.0	10.8	1	12/15/16 13:40	12/16/16 17:15	108-90-7	
Chloroethane	<327	ug/kg	327	98.1	1	12/15/16 13:40	12/16/16 17:15	75-00-3	
Chloroform	<100	ug/kg	100	30.2	1	12/15/16 13:40	12/16/16 17:15	67-66-3	
Chloromethane	<100	ug/kg	100	30.1	1	12/15/16 13:40	12/16/16 17:15	74-87-3	
2-Chlorotoluene	<57.1	ug/kg	57.1	17.1	1	12/15/16 13:40	12/16/16 17:15	95-49-8	
4-Chlorotoluene	<54.2	ug/kg	54.2	16.3	1	12/15/16 13:40	12/16/16 17:15	106-43-4	
1,2-Dibromo-3-chloropropane	<121	ug/kg	121	121	1	12/15/16 13:40	12/16/16 17:15	96-12-8	
Dibromochloromethane	<177	ug/kg	177	53.3	1	12/15/16 13:40	12/16/16 17:15	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: GP15\_5-7 Lab ID: 10373306017 Collected: 12/13/16 14:50 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<23.3	ug/kg	23.3	23.3	1	12/15/16 13:40	12/16/16 17:15	106-93-4	
Dibromomethane	<80.6	ug/kg	80.6	24.2	1	12/15/16 13:40	12/16/16 17:15	74-95-3	
1,2-Dichlorobenzene	<12.0	ug/kg	12.0	12.0	1	12/15/16 13:40	12/16/16 17:15	95-50-1	
1,3-Dichlorobenzene	<18.3	ug/kg	18.3	18.3	1	12/15/16 13:40	12/16/16 17:15	541-73-1	
1,4-Dichlorobenzene	<60.0	ug/kg	60.0	18.0	1	12/15/16 13:40	12/16/16 17:15	106-46-7	
Dichlorodifluoromethane	<63.3	ug/kg	63.3	19.0	1	12/15/16 13:40	12/16/16 17:15	75-71-8	
1,1-Dichloroethane	<24.1	ug/kg	24.1	24.1	1	12/15/16 13:40	12/16/16 17:15	75-34-3	
1,2-Dichloroethane	<19.6	ug/kg	19.6	19.6	1	12/15/16 13:40	12/16/16 17:15	107-06-2	
1,1-Dichloroethene	<15.8	ug/kg	15.8	15.8	1	12/15/16 13:40	12/16/16 17:15	75-35-4	
cis-1,2-Dichloroethene	<76.9	ug/kg	76.9	23.1	1	12/15/16 13:40	12/16/16 17:15	156-59-2	
trans-1,2-Dichloroethene	<99.7	ug/kg	99.7	29.9	1	12/15/16 13:40	12/16/16 17:15	156-60-5	
Dichlorofluoromethane	<567	ug/kg	567	170	1	12/15/16 13:40	12/16/16 17:15	75-43-4	
1,2-Dichloropropane	<21.5	ug/kg	21.5	21.5	1	12/15/16 13:40	12/16/16 17:15	78-87-5	
1,3-Dichloropropane	<74.0	ug/kg	74.0	22.2	1	12/15/16 13:40	12/16/16 17:15	142-28-9	
2,2-Dichloropropane	<65.8	ug/kg	65.8	19.7	1	12/15/16 13:40	12/16/16 17:15	594-20-7	
1,1-Dichloropropene	<18.8	ug/kg	18.8	18.8	1	12/15/16 13:40	12/16/16 17:15	563-58-6	
cis-1,3-Dichloropropene	<94.3	ug/kg	94.3	28.3	1	12/15/16 13:40	12/16/16 17:15	10061-01-5	
trans-1,3-Dichloropropene	<70.3	ug/kg	70.3	21.1	1	12/15/16 13:40	12/16/16 17:15	10061-02-6	
Diethyl ether (Ethyl ether)	<85.2	ug/kg	85.2	25.6	1	12/15/16 13:40	12/16/16 17:15	60-29-7	
Ethylbenzene	2120	ug/kg	65.8	19.7	1	12/15/16 13:40	12/16/16 17:15	100-41-4	
Hexachloro-1,3-butadiene	<194	ug/kg	194	58.4	1	12/15/16 13:40	12/16/16 17:15	87-68-3	
Isopropylbenzene (Cumene)	79.5	ug/kg	73.6	22.1	1	12/15/16 13:40	12/16/16 17:15	98-82-8	
p-Isopropyltoluene	49.8	ug/kg	34.3	10.3	1	12/15/16 13:40	12/16/16 17:15	99-87-6	
Methylene Chloride	<383	ug/kg	383	115	1	12/15/16 13:40	12/16/16 17:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	<137	ug/kg	137	41.1	1	12/15/16 13:40	12/16/16 17:15	108-10-1	
Methyl-tert-butyl ether	<38.7	ug/kg	38.7	11.6	1	12/15/16 13:40	12/16/16 17:15	1634-04-4	
Naphthalene	20700	ug/kg	500	150	10	12/15/16 13:40	12/21/16 06:50	91-20-3	
n-Propylbenzene	211	ug/kg	61.6	18.5	1	12/15/16 13:40	12/16/16 17:15	103-65-1	
Styrene	<53.8	ug/kg	53.8	16.1	1	12/15/16 13:40	12/16/16 17:15	100-42-5	
1,1,1,2-Tetrachloroethane	<24.6	ug/kg	24.6	24.6	1	12/15/16 13:40	12/16/16 17:15	630-20-6	
1,1,2,2-Tetrachloroethane	<13.8	ug/kg	13.8	13.8	1	12/15/16 13:40	12/16/16 17:15	79-34-5	
Tetrachloroethene	<79.0	ug/kg	79.0	23.7	1	12/15/16 13:40	12/16/16 17:15	127-18-4	
Tetrahydrofuran	<1030	ug/kg	1030	308	1	12/15/16 13:40	12/16/16 17:15	109-99-9	
Toluene	266	ug/kg	65.8	19.7	1	12/15/16 13:40	12/16/16 17:15	108-88-3	
1,2,3-Trichlorobenzene	<17.9	ug/kg	17.9	17.9	1	12/15/16 13:40	12/16/16 17:15	87-61-6	
1,2,4-Trichlorobenzene	<19.1	ug/kg	19.1	19.1	1	12/15/16 13:40	12/16/16 17:15	120-82-1	
1,1,1-Trichloroethane	<26.0	ug/kg	26.0	26.0	1	12/15/16 13:40	12/16/16 17:15	71-55-6	
1,1,2-Trichloroethane	<13.4	ug/kg	13.4	13.4	1	12/15/16 13:40	12/16/16 17:15	79-00-5	
Trichloroethene	<59.1	ug/kg	59.1	17.8	1	12/15/16 13:40	12/16/16 17:15	79-01-6	
Trichlorofluoromethane	<208	ug/kg	208	62.3	1	12/15/16 13:40	12/16/16 17:15	75-69-4	
1,2,3-Trichloropropane	<64.3	ug/kg	64.3	64.3	1	12/15/16 13:40	12/16/16 17:15	96-18-4	
1,1,2-Trichlorotrifluoroethane	<149	ug/kg	149	44.7	1	12/15/16 13:40	12/16/16 17:15	76-13-1	
1,2,4-Trimethylbenzene	1890	ug/kg	13.7	13.7	1	12/15/16 13:40	12/16/16 17:15	95-63-6	
1,3,5-Trimethylbenzene	595	ug/kg	47.6	14.3	1	12/15/16 13:40	12/16/16 17:15	108-67-8	
Vinyl chloride	<26.5	ug/kg	26.5	8.0	1	12/15/16 13:40	12/16/16 17:15	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: GP15\_5-7**      **Lab ID: 10373306017**      Collected: 12/13/16 14:50      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>3090</b>	ug/kg	165	49.7	1	12/15/16 13:40	12/16/16 17:15	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-129		1	12/15/16 13:40	12/16/16 17:15	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/15/16 13:40	12/16/16 17:15	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/15/16 13:40	12/16/16 17:15	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP15\_13-15**      **Lab ID: 10373306018**      Collected: 12/13/16 14:55      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	24.6	%	0.10	0.10	1		12/28/16 13:31		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	5.6	ug/kg	1.7	0.52	1	12/15/16 06:57	12/23/16 17:25	83-32-9	
Acenaphthylene	21.3	ug/kg	1.2	0.36	1	12/15/16 06:57	12/23/16 17:25	208-96-8	
Anthracene	63.2	ug/kg	2.0	0.60	1	12/15/16 06:57	12/23/16 17:25	120-12-7	
Benzo(a)anthracene	41.7	ug/kg	2.1	0.62	1	12/15/16 06:57	12/23/16 17:25	56-55-3	
Benzo(a)pyrene	39.5	ug/kg	1.5	0.46	1	12/15/16 06:57	12/23/16 17:25	50-32-8	
Benzo(b)fluoranthene	29.1	ug/kg	2.5	0.76	1	12/15/16 06:57	12/23/16 17:25	205-99-2	
Benzo(g,h,i)perylene	18.6	ug/kg	2.0	0.61	1	12/15/16 06:57	12/23/16 17:25	191-24-2	
Benzo(k)fluoranthene	13.4	ug/kg	2.2	0.65	1	12/15/16 06:57	12/23/16 17:25	207-08-9	
Chrysene	38.0	ug/kg	2.4	0.73	1	12/15/16 06:57	12/23/16 17:25	218-01-9	
Dibenz(a,h)anthracene	3.3	ug/kg	1.4	0.43	1	12/15/16 06:57	12/23/16 17:25	53-70-3	
Fluoranthene	80.0	ug/kg	3.4	1.0	1	12/15/16 06:57	12/23/16 17:25	206-44-0	
Fluorene	33.0	ug/kg	1.7	0.51	1	12/15/16 06:57	12/23/16 17:25	86-73-7	
Indeno(1,2,3-cd)pyrene	12.9	ug/kg	3.3	0.99	1	12/15/16 06:57	12/23/16 17:25	193-39-5	
Naphthalene	421	ug/kg	1.6	0.47	1	12/15/16 06:57	12/23/16 17:25	91-20-3	
Phenanthrene	188	ug/kg	1.8	0.53	1	12/15/16 06:57	12/23/16 17:25	85-01-8	
Pyrene	103	ug/kg	3.6	1.1	1	12/15/16 06:57	12/23/16 17:25	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	81	%	41-125		1	12/15/16 06:57	12/23/16 17:25	321-60-8	
p-Terphenyl-d14 (S)	78	%	39-125		1	12/15/16 06:57	12/23/16 17:25	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1510	ug/kg	1510	452	1	12/15/16 13:40	12/16/16 17:32	67-64-1	
Allyl chloride	<197	ug/kg	197	59.1	1	12/15/16 13:40	12/16/16 17:32	107-05-1	
Benzene	972	ug/kg	19.8	6.0	1	12/15/16 13:40	12/16/16 17:32	71-43-2	
Bromobenzene	<58.7	ug/kg	58.7	17.6	1	12/15/16 13:40	12/16/16 17:32	108-86-1	
Bromochloromethane	<68.4	ug/kg	68.4	20.5	1	12/15/16 13:40	12/16/16 17:32	74-97-5	
Bromodichloromethane	<64.3	ug/kg	64.3	19.3	1	12/15/16 13:40	12/16/16 17:32	75-27-4	
Bromoform	<198	ug/kg	198	59.4	1	12/15/16 13:40	12/16/16 17:32	75-25-2	
Bromomethane	<233	ug/kg	233	69.9	1	12/15/16 13:40	12/16/16 17:32	74-83-9	
2-Butanone (MEK)	<303	ug/kg	303	91.0	1	12/15/16 13:40	12/16/16 17:32	78-93-3	
n-Butylbenzene	<55.5	ug/kg	55.5	16.7	1	12/15/16 13:40	12/16/16 17:32	104-51-8	
sec-Butylbenzene	<54.2	ug/kg	54.2	16.3	1	12/15/16 13:40	12/16/16 17:32	135-98-8	
tert-Butylbenzene	<72.5	ug/kg	72.5	21.8	1	12/15/16 13:40	12/16/16 17:32	98-06-6	
Carbon tetrachloride	<72.1	ug/kg	72.1	21.6	1	12/15/16 13:40	12/16/16 17:32	56-23-5	
Chlorobenzene	<39.9	ug/kg	39.9	12.0	1	12/15/16 13:40	12/16/16 17:32	108-90-7	
Chloroethane	<363	ug/kg	363	109	1	12/15/16 13:40	12/16/16 17:32	75-00-3	
Chloroform	<112	ug/kg	112	33.5	1	12/15/16 13:40	12/16/16 17:32	67-66-3	
Chloromethane	<111	ug/kg	111	33.4	1	12/15/16 13:40	12/16/16 17:32	74-87-3	
2-Chlorotoluene	<63.3	ug/kg	63.3	19.0	1	12/15/16 13:40	12/16/16 17:32	95-49-8	
4-Chlorotoluene	<60.1	ug/kg	60.1	18.1	1	12/15/16 13:40	12/16/16 17:32	106-43-4	
1,2-Dibromo-3-chloropropane	<134	ug/kg	134	134	1	12/15/16 13:40	12/16/16 17:32	96-12-8	
Dibromochloromethane	<197	ug/kg	197	59.1	1	12/15/16 13:40	12/16/16 17:32	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: **GP15\_13-15** Lab ID: **10373306018** Collected: 12/13/16 14:55 Received: 12/14/16 18:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<25.9	ug/kg	25.9	25.9	1	12/15/16 13:40	12/16/16 17:32	106-93-4	
Dibromomethane	<89.5	ug/kg	89.5	26.9	1	12/15/16 13:40	12/16/16 17:32	74-95-3	
1,2-Dichlorobenzene	<13.3	ug/kg	13.3	13.3	1	12/15/16 13:40	12/16/16 17:32	95-50-1	
1,3-Dichlorobenzene	<20.3	ug/kg	20.3	20.3	1	12/15/16 13:40	12/16/16 17:32	541-73-1	
1,4-Dichlorobenzene	<66.5	ug/kg	66.5	20.0	1	12/15/16 13:40	12/16/16 17:32	106-46-7	
Dichlorodifluoromethane	<70.2	ug/kg	70.2	21.1	1	12/15/16 13:40	12/16/16 17:32	75-71-8	
1,1-Dichloroethane	<26.7	ug/kg	26.7	26.7	1	12/15/16 13:40	12/16/16 17:32	75-34-3	
1,2-Dichloroethane	<21.8	ug/kg	21.8	21.8	1	12/15/16 13:40	12/16/16 17:32	107-06-2	
1,1-Dichloroethene	<17.5	ug/kg	17.5	17.5	1	12/15/16 13:40	12/16/16 17:32	75-35-4	
cis-1,2-Dichloroethene	<85.4	ug/kg	85.4	25.6	1	12/15/16 13:40	12/16/16 17:32	156-59-2	
trans-1,2-Dichloroethene	<111	ug/kg	111	33.2	1	12/15/16 13:40	12/16/16 17:32	156-60-5	
Dichlorofluoromethane	<629	ug/kg	629	189	1	12/15/16 13:40	12/16/16 17:32	75-43-4	
1,2-Dichloropropane	<23.8	ug/kg	23.8	23.8	1	12/15/16 13:40	12/16/16 17:32	78-87-5	
1,3-Dichloropropane	<82.2	ug/kg	82.2	24.7	1	12/15/16 13:40	12/16/16 17:32	142-28-9	
2,2-Dichloropropane	<73.0	ug/kg	73.0	21.9	1	12/15/16 13:40	12/16/16 17:32	594-20-7	
1,1-Dichloropropene	<20.8	ug/kg	20.8	20.8	1	12/15/16 13:40	12/16/16 17:32	563-58-6	
cis-1,3-Dichloropropene	<105	ug/kg	105	31.4	1	12/15/16 13:40	12/16/16 17:32	10061-01-5	
trans-1,3-Dichloropropene	<78.0	ug/kg	78.0	23.4	1	12/15/16 13:40	12/16/16 17:32	10061-02-6	
Diethyl ether (Ethyl ether)	<94.5	ug/kg	94.5	28.4	1	12/15/16 13:40	12/16/16 17:32	60-29-7	
Ethylbenzene	1830	ug/kg	73.0	21.9	1	12/15/16 13:40	12/16/16 17:32	100-41-4	
Hexachloro-1,3-butadiene	<216	ug/kg	216	64.8	1	12/15/16 13:40	12/16/16 17:32	87-68-3	
Isopropylbenzene (Cumene)	126	ug/kg	81.7	24.5	1	12/15/16 13:40	12/16/16 17:32	98-82-8	
p-Isopropyltoluene	65.5	ug/kg	38.1	11.4	1	12/15/16 13:40	12/16/16 17:32	99-87-6	
Methylene Chloride	<425	ug/kg	425	128	1	12/15/16 13:40	12/16/16 17:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	<152	ug/kg	152	45.6	1	12/15/16 13:40	12/16/16 17:32	108-10-1	
Methyl-tert-butyl ether	<43.0	ug/kg	43.0	12.9	1	12/15/16 13:40	12/16/16 17:32	1634-04-4	
Naphthalene	17100	ug/kg	55.5	16.7	1	12/15/16 13:40	12/16/16 17:32	91-20-3	
n-Propylbenzene	186	ug/kg	68.4	20.5	1	12/15/16 13:40	12/16/16 17:32	103-65-1	
Styrene	<59.7	ug/kg	59.7	17.9	1	12/15/16 13:40	12/16/16 17:32	100-42-5	
1,1,1,2-Tetrachloroethane	<27.3	ug/kg	27.3	27.3	1	12/15/16 13:40	12/16/16 17:32	630-20-6	
1,1,2,2-Tetrachloroethane	<15.3	ug/kg	15.3	15.3	1	12/15/16 13:40	12/16/16 17:32	79-34-5	
Tetrachloroethene	<87.7	ug/kg	87.7	26.3	1	12/15/16 13:40	12/16/16 17:32	127-18-4	
Tetrahydrofuran	<1140	ug/kg	1140	342	1	12/15/16 13:40	12/16/16 17:32	109-99-9	
Toluene	280	ug/kg	73.0	21.9	1	12/15/16 13:40	12/16/16 17:32	108-88-3	
1,2,3-Trichlorobenzene	<19.8	ug/kg	19.8	19.8	1	12/15/16 13:40	12/16/16 17:32	87-61-6	
1,2,4-Trichlorobenzene	<21.2	ug/kg	21.2	21.2	1	12/15/16 13:40	12/16/16 17:32	120-82-1	
1,1,1-Trichloroethane	<28.8	ug/kg	28.8	28.8	1	12/15/16 13:40	12/16/16 17:32	71-55-6	
1,1,2-Trichloroethane	<14.9	ug/kg	14.9	14.9	1	12/15/16 13:40	12/16/16 17:32	79-00-5	
Trichloroethene	<65.6	ug/kg	65.6	19.7	1	12/15/16 13:40	12/16/16 17:32	79-01-6	
Trichlorofluoromethane	<230	ug/kg	230	69.2	1	12/15/16 13:40	12/16/16 17:32	75-69-4	
1,2,3-Trichloropropane	<71.4	ug/kg	71.4	71.4	1	12/15/16 13:40	12/16/16 17:32	96-18-4	
1,1,2-Trichlorotrifluoroethane	<165	ug/kg	165	49.6	1	12/15/16 13:40	12/16/16 17:32	76-13-1	
1,2,4-Trimethylbenzene	1750	ug/kg	15.2	15.2	1	12/15/16 13:40	12/16/16 17:32	95-63-6	
1,3,5-Trimethylbenzene	518	ug/kg	52.8	15.8	1	12/15/16 13:40	12/16/16 17:32	108-67-8	
Vinyl chloride	<29.5	ug/kg	29.5	8.8	1	12/15/16 13:40	12/16/16 17:32	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP15\_13-15**      **Lab ID: 10373306018**      Collected: 12/13/16 14:55      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>2470</b>	ug/kg	184	55.1	1	12/15/16 13:40	12/16/16 17:32	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-129		1	12/15/16 13:40	12/16/16 17:32	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/15/16 13:40	12/16/16 17:32	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/15/16 13:40	12/16/16 17:32	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP16\_3-5**      **Lab ID: 10373306019**      Collected: 12/13/16 15:00      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>22.6</b>	%	0.10	0.10	1		12/28/16 13:32		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<b>174</b>	ug/kg	16.7	5.0	10	12/15/16 06:57	12/23/16 17:46	83-32-9	
Acenaphthylene	<b>3820</b>	ug/kg	11.6	3.5	10	12/15/16 06:57	12/23/16 17:46	208-96-8	
Anthracene	<b>1110</b>	ug/kg	19.4	5.8	10	12/15/16 06:57	12/23/16 17:46	120-12-7	
Benzo(a)anthracene	<b>3970</b>	ug/kg	100	30.1	50	12/15/16 06:57	12/23/16 18:08	56-55-3	
Benzo(a)pyrene	<b>10100</b>	ug/kg	74.3	22.3	50	12/15/16 06:57	12/23/16 18:08	50-32-8	
Benzo(b)fluoranthene	<b>7630</b>	ug/kg	123	36.8	50	12/15/16 06:57	12/23/16 18:08	205-99-2	
Benzo(g,h,i)perylene	<b>6990</b>	ug/kg	98.0	29.4	50	12/15/16 06:57	12/23/16 18:08	191-24-2	
Benzo(k)fluoranthene	<b>2960</b>	ug/kg	21.1	6.3	10	12/15/16 06:57	12/23/16 17:46	207-08-9	
Chrysene	<b>5120</b>	ug/kg	119	35.7	50	12/15/16 06:57	12/23/16 18:08	218-01-9	
Dibenz(a,h)anthracene	<b>1780</b>	ug/kg	14.0	4.2	10	12/15/16 06:57	12/23/16 17:46	53-70-3	
Fluoranthene	<b>3590</b>	ug/kg	33.6	10.1	10	12/15/16 06:57	12/23/16 17:46	206-44-0	
Fluorene	<b>544</b>	ug/kg	16.4	4.9	10	12/15/16 06:57	12/23/16 17:46	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>5050</b>	ug/kg	161	48.2	50	12/15/16 06:57	12/23/16 18:08	193-39-5	
Naphthalene	<b>983</b>	ug/kg	15.3	4.6	10	12/15/16 06:57	12/23/16 17:46	91-20-3	
Phenanthrene	<b>1830</b>	ug/kg	17.3	5.2	10	12/15/16 06:57	12/23/16 17:46	85-01-8	
Pyrene	<b>5700</b>	ug/kg	177	53.3	50	12/15/16 06:57	12/23/16 18:08	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	76	%	41-125		10	12/15/16 06:57	12/23/16 17:46	321-60-8	
p-Terphenyl-d14 (S)	76	%	39-125		10	12/15/16 06:57	12/23/16 17:46	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<b>&lt;1390</b>	ug/kg	1390	418	1	12/15/16 13:40	12/16/16 17:50	67-64-1	
Allyl chloride	<b>&lt;182</b>	ug/kg	182	54.6	1	12/15/16 13:40	12/16/16 17:50	107-05-1	
Benzene	<b>1850</b>	ug/kg	18.3	5.5	1	12/15/16 13:40	12/16/16 17:50	71-43-2	
Bromobenzene	<b>&lt;54.3</b>	ug/kg	54.3	16.3	1	12/15/16 13:40	12/16/16 17:50	108-86-1	
Bromochloromethane	<b>&lt;63.2</b>	ug/kg	63.2	19.0	1	12/15/16 13:40	12/16/16 17:50	74-97-5	
Bromodichloromethane	<b>&lt;59.4</b>	ug/kg	59.4	17.8	1	12/15/16 13:40	12/16/16 17:50	75-27-4	
Bromoform	<b>&lt;183</b>	ug/kg	183	54.9	1	12/15/16 13:40	12/16/16 17:50	75-25-2	
Bromomethane	<b>&lt;215</b>	ug/kg	215	64.6	1	12/15/16 13:40	12/16/16 17:50	74-83-9	
2-Butanone (MEK)	<b>&lt;280</b>	ug/kg	280	84.0	1	12/15/16 13:40	12/16/16 17:50	78-93-3	
n-Butylbenzene	<b>&lt;51.3</b>	ug/kg	51.3	15.4	1	12/15/16 13:40	12/16/16 17:50	104-51-8	
sec-Butylbenzene	<b>&lt;50.0</b>	ug/kg	50.0	15.0	1	12/15/16 13:40	12/16/16 17:50	135-98-8	
tert-Butylbenzene	<b>&lt;67.0</b>	ug/kg	67.0	20.1	1	12/15/16 13:40	12/16/16 17:50	98-06-6	
Carbon tetrachloride	<b>&lt;66.6</b>	ug/kg	66.6	20.0	1	12/15/16 13:40	12/16/16 17:50	56-23-5	
Chlorobenzene	<b>&lt;36.9</b>	ug/kg	36.9	11.1	1	12/15/16 13:40	12/16/16 17:50	108-90-7	
Chloroethane	<b>&lt;335</b>	ug/kg	335	101	1	12/15/16 13:40	12/16/16 17:50	75-00-3	
Chloroform	<b>&lt;103</b>	ug/kg	103	30.9	1	12/15/16 13:40	12/16/16 17:50	67-66-3	
Chloromethane	<b>&lt;103</b>	ug/kg	103	30.8	1	12/15/16 13:40	12/16/16 17:50	74-87-3	
2-Chlorotoluene	<b>&lt;58.5</b>	ug/kg	58.5	17.6	1	12/15/16 13:40	12/16/16 17:50	95-49-8	
4-Chlorotoluene	<b>&lt;55.5</b>	ug/kg	55.5	16.7	1	12/15/16 13:40	12/16/16 17:50	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;124</b>	ug/kg	124	124	1	12/15/16 13:40	12/16/16 17:50	96-12-8	
Dibromochloromethane	<b>&lt;182</b>	ug/kg	182	54.6	1	12/15/16 13:40	12/16/16 17:50	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP16\_3-5**      **Lab ID: 10373306019**      Collected: 12/13/16 15:00      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<23.9	ug/kg	23.9	23.9	1	12/15/16 13:40	12/16/16 17:50	106-93-4	
Dibromomethane	<82.7	ug/kg	82.7	24.8	1	12/15/16 13:40	12/16/16 17:50	74-95-3	
1,2-Dichlorobenzene	<12.3	ug/kg	12.3	12.3	1	12/15/16 13:40	12/16/16 17:50	95-50-1	
1,3-Dichlorobenzene	<18.7	ug/kg	18.7	18.7	1	12/15/16 13:40	12/16/16 17:50	541-73-1	
1,4-Dichlorobenzene	<61.5	ug/kg	61.5	18.5	1	12/15/16 13:40	12/16/16 17:50	106-46-7	
Dichlorodifluoromethane	<64.9	ug/kg	64.9	19.5	1	12/15/16 13:40	12/16/16 17:50	75-71-8	
1,1-Dichloroethane	<24.7	ug/kg	24.7	24.7	1	12/15/16 13:40	12/16/16 17:50	75-34-3	
1,2-Dichloroethane	<20.1	ug/kg	20.1	20.1	1	12/15/16 13:40	12/16/16 17:50	107-06-2	
1,1-Dichloroethene	<16.2	ug/kg	16.2	16.2	1	12/15/16 13:40	12/16/16 17:50	75-35-4	
cis-1,2-Dichloroethene	<78.9	ug/kg	78.9	23.7	1	12/15/16 13:40	12/16/16 17:50	156-59-2	
trans-1,2-Dichloroethene	<102	ug/kg	102	30.7	1	12/15/16 13:40	12/16/16 17:50	156-60-5	
Dichlorofluoromethane	<581	ug/kg	581	174	1	12/15/16 13:40	12/16/16 17:50	75-43-4	
1,2-Dichloropropane	<22.0	ug/kg	22.0	22.0	1	12/15/16 13:40	12/16/16 17:50	78-87-5	
1,3-Dichloropropane	<75.9	ug/kg	75.9	22.8	1	12/15/16 13:40	12/16/16 17:50	142-28-9	
2,2-Dichloropropane	<67.4	ug/kg	67.4	20.2	1	12/15/16 13:40	12/16/16 17:50	594-20-7	
1,1-Dichloropropene	<19.2	ug/kg	19.2	19.2	1	12/15/16 13:40	12/16/16 17:50	563-58-6	
cis-1,3-Dichloropropene	<96.7	ug/kg	96.7	29.0	1	12/15/16 13:40	12/16/16 17:50	10061-01-5	
trans-1,3-Dichloropropene	<72.1	ug/kg	72.1	21.6	1	12/15/16 13:40	12/16/16 17:50	10061-02-6	
Diethyl ether (Ethyl ether)	<87.4	ug/kg	87.4	26.2	1	12/15/16 13:40	12/16/16 17:50	60-29-7	
Ethylbenzene	1270	ug/kg	67.4	20.2	1	12/15/16 13:40	12/16/16 17:50	100-41-4	
Hexachloro-1,3-butadiene	<199	ug/kg	199	59.8	1	12/15/16 13:40	12/16/16 17:50	87-68-3	
Isopropylbenzene (Cumene)	<75.5	ug/kg	75.5	22.7	1	12/15/16 13:40	12/16/16 17:50	98-82-8	
p-Isopropyltoluene	<35.2	ug/kg	35.2	10.6	1	12/15/16 13:40	12/16/16 17:50	99-87-6	
Methylene Chloride	<393	ug/kg	393	118	1	12/15/16 13:40	12/16/16 17:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	<140	ug/kg	140	42.1	1	12/15/16 13:40	12/16/16 17:50	108-10-1	
Methyl-tert-butyl ether	<39.7	ug/kg	39.7	11.9	1	12/15/16 13:40	12/16/16 17:50	1634-04-4	
Naphthalene	3120	ug/kg	51.3	15.4	1	12/15/16 13:40	12/16/16 17:50	91-20-3	
n-Propylbenzene	<63.2	ug/kg	63.2	19.0	1	12/15/16 13:40	12/16/16 17:50	103-65-1	
Styrene	67.9	ug/kg	55.1	16.6	1	12/15/16 13:40	12/16/16 17:50	100-42-5	
1,1,1,2-Tetrachloroethane	<25.2	ug/kg	25.2	25.2	1	12/15/16 13:40	12/16/16 17:50	630-20-6	
1,1,2,2-Tetrachloroethane	<14.1	ug/kg	14.1	14.1	1	12/15/16 13:40	12/16/16 17:50	79-34-5	
Tetrachloroethene	<81.0	ug/kg	81.0	24.3	1	12/15/16 13:40	12/16/16 17:50	127-18-4	
Tetrahydrofuran	<1050	ug/kg	1050	316	1	12/15/16 13:40	12/16/16 17:50	109-99-9	
Toluene	2030	ug/kg	67.4	20.2	1	12/15/16 13:40	12/16/16 17:50	108-88-3	
1,2,3-Trichlorobenzene	<18.3	ug/kg	18.3	18.3	1	12/15/16 13:40	12/16/16 17:50	87-61-6	
1,2,4-Trichlorobenzene	<19.6	ug/kg	19.6	19.6	1	12/15/16 13:40	12/16/16 17:50	120-82-1	
1,1,1-Trichloroethane	<26.6	ug/kg	26.6	26.6	1	12/15/16 13:40	12/16/16 17:50	71-55-6	
1,1,2-Trichloroethane	<13.8	ug/kg	13.8	13.8	1	12/15/16 13:40	12/16/16 17:50	79-00-5	
Trichloroethene	<60.6	ug/kg	60.6	18.2	1	12/15/16 13:40	12/16/16 17:50	79-01-6	
Trichlorofluoromethane	<213	ug/kg	213	63.9	1	12/15/16 13:40	12/16/16 17:50	75-69-4	
1,2,3-Trichloropropane	<66.0	ug/kg	66.0	66.0	1	12/15/16 13:40	12/16/16 17:50	96-18-4	
1,1,2-Trichlorotrifluoroethane	<153	ug/kg	153	45.8	1	12/15/16 13:40	12/16/16 17:50	76-13-1	
1,2,4-Trimethylbenzene	295	ug/kg	14.0	14.0	1	12/15/16 13:40	12/16/16 17:50	95-63-6	
1,3,5-Trimethylbenzene	113	ug/kg	48.8	14.6	1	12/15/16 13:40	12/16/16 17:50	108-67-8	
Vinyl chloride	<27.2	ug/kg	27.2	8.2	1	12/15/16 13:40	12/16/16 17:50	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: GP16\_3-5**      **Lab ID: 10373306019**      Collected: 12/13/16 15:00      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>1540</b>	ug/kg	170	50.9	1	12/15/16 13:40	12/16/16 17:50	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%	75-129		1	12/15/16 13:40	12/16/16 17:50	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/15/16 13:40	12/16/16 17:50	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/15/16 13:40	12/16/16 17:50	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: GP16\_7-8 Lab ID: 10373306020 Collected: 12/13/16 15:05 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	14.9	%	0.10	0.10	1		12/28/16 13:32		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	43800	ug/kg	305	91.7	200	12/15/16 06:57	12/23/16 18:30	83-32-9	
Acenaphthylene	22000	ug/kg	212	63.8	200	12/15/16 06:57	12/23/16 18:30	208-96-8	
Anthracene	31800	ug/kg	355	106	200	12/15/16 06:57	12/23/16 18:30	120-12-7	
Benzo(a)anthracene	20700	ug/kg	366	110	200	12/15/16 06:57	12/23/16 18:30	56-55-3	
Benzo(a)pyrene	18900	ug/kg	271	81.4	200	12/15/16 06:57	12/23/16 18:30	50-32-8	
Benzo(b)fluoranthene	13200	ug/kg	448	134	200	12/15/16 06:57	12/23/16 18:30	205-99-2	
Benzo(g,h,i)perylene	8200	ug/kg	358	107	200	12/15/16 06:57	12/23/16 18:30	191-24-2	
Benzo(k)fluoranthene	6920	ug/kg	384	115	200	12/15/16 06:57	12/23/16 18:30	207-08-9	
Chrysene	19500	ug/kg	434	130	200	12/15/16 06:57	12/23/16 18:30	218-01-9	
Dibenz(a,h)anthracene	1920	ug/kg	255	76.7	200	12/15/16 06:57	12/23/16 18:30	53-70-3	
Fluoranthene	39400	ug/kg	612	184	200	12/15/16 06:57	12/23/16 18:30	206-44-0	
Fluorene	28500	ug/kg	300	90.1	200	12/15/16 06:57	12/23/16 18:30	86-73-7	
Indeno(1,2,3-cd)pyrene	5920	ug/kg	586	176	200	12/15/16 06:57	12/23/16 18:30	193-39-5	
Naphthalene	300000	ug/kg	1390	419	1000	12/15/16 06:57	12/23/16 18:51	91-20-3	
Phenanthrene	80800	ug/kg	1570	473	1000	12/15/16 06:57	12/23/16 18:51	85-01-8	
Pyrene	55700	ug/kg	648	194	200	12/15/16 06:57	12/23/16 18:30	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	72	%	41-125		200	12/15/16 06:57	12/23/16 18:30	321-60-8	
p-Terphenyl-d14 (S)	94	%	39-125		200	12/15/16 06:57	12/23/16 18:30	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<6810	ug/kg	6810	2040	5	12/15/16 13:40	12/16/16 20:28	67-64-1	
Allyl chloride	<890	ug/kg	890	267	5	12/15/16 13:40	12/16/16 20:28	107-05-1	
Benzene	7850	ug/kg	89.6	26.9	5	12/15/16 13:40	12/16/16 20:28	71-43-2	
Bromobenzene	<266	ug/kg	266	79.8	5	12/15/16 13:40	12/16/16 20:28	108-86-1	
Bromochloromethane	<309	ug/kg	309	92.8	5	12/15/16 13:40	12/16/16 20:28	74-97-5	
Bromodichloromethane	<291	ug/kg	291	87.2	5	12/15/16 13:40	12/16/16 20:28	75-27-4	
Bromoform	<894	ug/kg	894	269	5	12/15/16 13:40	12/16/16 20:28	75-25-2	
Bromomethane	<1050	ug/kg	1050	316	5	12/15/16 13:40	12/16/16 20:28	74-83-9	
2-Butanone (MEK)	<1370	ug/kg	1370	411	5	12/15/16 13:40	12/16/16 20:28	78-93-3	
n-Butylbenzene	2080	ug/kg	251	75.4	5	12/15/16 13:40	12/16/16 20:28	104-51-8	
sec-Butylbenzene	<245	ug/kg	245	73.5	5	12/15/16 13:40	12/16/16 20:28	135-98-8	
tert-Butylbenzene	<328	ug/kg	328	98.5	5	12/15/16 13:40	12/16/16 20:28	98-06-6	
Carbon tetrachloride	<326	ug/kg	326	97.8	5	12/15/16 13:40	12/16/16 20:28	56-23-5	
Chlorobenzene	<181	ug/kg	181	54.2	5	12/15/16 13:40	12/16/16 20:28	108-90-7	
Chloroethane	<1640	ug/kg	1640	492	5	12/15/16 13:40	12/16/16 20:28	75-00-3	
Chloroform	<504	ug/kg	504	151	5	12/15/16 13:40	12/16/16 20:28	67-66-3	
Chloromethane	<502	ug/kg	502	151	5	12/15/16 13:40	12/16/16 20:28	74-87-3	
2-Chlorotoluene	<286	ug/kg	286	86.0	5	12/15/16 13:40	12/16/16 20:28	95-49-8	
4-Chlorotoluene	<272	ug/kg	272	81.6	5	12/15/16 13:40	12/16/16 20:28	106-43-4	
1,2-Dibromo-3-chloropropane	<608	ug/kg	608	608	5	12/15/16 13:40	12/16/16 20:28	96-12-8	
Dibromochloromethane	<890	ug/kg	890	267	5	12/15/16 13:40	12/16/16 20:28	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP16\_7-8**      **Lab ID: 10373306020**      Collected: 12/13/16 15:05      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<117	ug/kg	117	117	5	12/15/16 13:40	12/16/16 20:28	106-93-4	
Dibromomethane	<405	ug/kg	405	122	5	12/15/16 13:40	12/16/16 20:28	74-95-3	
1,2-Dichlorobenzene	<60.2	ug/kg	60.2	60.2	5	12/15/16 13:40	12/16/16 20:28	95-50-1	
1,3-Dichlorobenzene	<91.6	ug/kg	91.6	91.6	5	12/15/16 13:40	12/16/16 20:28	541-73-1	
1,4-Dichlorobenzene	<301	ug/kg	301	90.4	5	12/15/16 13:40	12/16/16 20:28	106-46-7	
Dichlorodifluoromethane	<317	ug/kg	317	95.3	5	12/15/16 13:40	12/16/16 20:28	75-71-8	
1,1-Dichloroethane	<121	ug/kg	121	121	5	12/15/16 13:40	12/16/16 20:28	75-34-3	
1,2-Dichloroethane	<98.5	ug/kg	98.5	98.5	5	12/15/16 13:40	12/16/16 20:28	107-06-2	
1,1-Dichloroethene	<79.1	ug/kg	79.1	79.1	5	12/15/16 13:40	12/16/16 20:28	75-35-4	
cis-1,2-Dichloroethene	<386	ug/kg	386	116	5	12/15/16 13:40	12/16/16 20:28	156-59-2	
trans-1,2-Dichloroethene	<500	ug/kg	500	150	5	12/15/16 13:40	12/16/16 20:28	156-60-5	
Dichlorofluoromethane	<2840	ug/kg	2840	854	5	12/15/16 13:40	12/16/16 20:28	75-43-4	
1,2-Dichloropropane	<108	ug/kg	108	108	5	12/15/16 13:40	12/16/16 20:28	78-87-5	
1,3-Dichloropropane	<371	ug/kg	371	112	5	12/15/16 13:40	12/16/16 20:28	142-28-9	
2,2-Dichloropropane	<330	ug/kg	330	99.1	5	12/15/16 13:40	12/16/16 20:28	594-20-7	
1,1-Dichloropropene	<94.1	ug/kg	94.1	94.1	5	12/15/16 13:40	12/16/16 20:28	563-58-6	
cis-1,3-Dichloropropene	<473	ug/kg	473	142	5	12/15/16 13:40	12/16/16 20:28	10061-01-5	
trans-1,3-Dichloropropene	<353	ug/kg	353	106	5	12/15/16 13:40	12/16/16 20:28	10061-02-6	
Diethyl ether (Ethyl ether)	<427	ug/kg	427	128	5	12/15/16 13:40	12/16/16 20:28	60-29-7	
Ethylbenzene	74000	ug/kg	330	99.1	5	12/15/16 13:40	12/16/16 20:28	100-41-4	
Hexachloro-1,3-butadiene	<975	ug/kg	975	293	5	12/15/16 13:40	12/16/16 20:28	87-68-3	
Isopropylbenzene (Cumene)	9930	ug/kg	369	111	5	12/15/16 13:40	12/16/16 20:28	98-82-8	
p-Isopropyltoluene	3880	ug/kg	172	51.7	5	12/15/16 13:40	12/16/16 20:28	99-87-6	
Methylene Chloride	<1920	ug/kg	1920	577	5	12/15/16 13:40	12/16/16 20:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	<687	ug/kg	687	206	5	12/15/16 13:40	12/16/16 20:28	108-10-1	
Methyl-tert-butyl ether	<194	ug/kg	194	58.3	5	12/15/16 13:40	12/16/16 20:28	1634-04-4	
Naphthalene	666000	ug/kg	12600	3770	250	12/15/16 13:40	12/23/16 11:54	91-20-3	
n-Propylbenzene	6730	ug/kg	309	92.8	5	12/15/16 13:40	12/16/16 20:28	103-65-1	
Styrene	1660	ug/kg	270	81.0	5	12/15/16 13:40	12/16/16 20:28	100-42-5	
1,1,1,2-Tetrachloroethane	<123	ug/kg	123	123	5	12/15/16 13:40	12/16/16 20:28	630-20-6	
1,1,2,2-Tetrachloroethane	<69.2	ug/kg	69.2	69.2	5	12/15/16 13:40	12/16/16 20:28	79-34-5	
Tetrachloroethene	<396	ug/kg	396	119	5	12/15/16 13:40	12/16/16 20:28	127-18-4	
Tetrahydrofuran	<5150	ug/kg	5150	1550	5	12/15/16 13:40	12/16/16 20:28	109-99-9	
Toluene	36400	ug/kg	330	99.1	5	12/15/16 13:40	12/16/16 20:28	108-88-3	
1,2,3-Trichlorobenzene	<89.7	ug/kg	89.7	89.7	5	12/15/16 13:40	12/16/16 20:28	87-61-6	
1,2,4-Trichlorobenzene	<96.0	ug/kg	96.0	96.0	5	12/15/16 13:40	12/16/16 20:28	120-82-1	
1,1,1-Trichloroethane	<130	ug/kg	130	130	5	12/15/16 13:40	12/16/16 20:28	71-55-6	
1,1,2-Trichloroethane	<67.3	ug/kg	67.3	67.3	5	12/15/16 13:40	12/16/16 20:28	79-00-5	
Trichloroethene	<297	ug/kg	297	89.1	5	12/15/16 13:40	12/16/16 20:28	79-01-6	
Trichlorofluoromethane	<1040	ug/kg	1040	313	5	12/15/16 13:40	12/16/16 20:28	75-69-4	
1,2,3-Trichloropropane	<323	ug/kg	323	323	5	12/15/16 13:40	12/16/16 20:28	96-18-4	
1,1,2-Trichlorotrifluoroethane	<747	ug/kg	747	224	5	12/15/16 13:40	12/16/16 20:28	76-13-1	
1,2,4-Trimethylbenzene	60300	ug/kg	68.5	68.5	5	12/15/16 13:40	12/16/16 20:28	95-63-6	
1,3,5-Trimethylbenzene	21400	ug/kg	239	71.7	5	12/15/16 13:40	12/16/16 20:28	108-67-8	
Vinyl chloride	<133	ug/kg	133	40.0	5	12/15/16 13:40	12/16/16 20:28	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: GP16\_7-8**      **Lab ID: 10373306020**      Collected: 12/13/16 15:05      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>125000</b>	ug/kg	830	249	5	12/15/16 13:40	12/16/16 20:28	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-129		5	12/15/16 13:40	12/16/16 20:28	17060-07-0	
Toluene-d8 (S)	104	%	75-125		5	12/15/16 13:40	12/16/16 20:28	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		5	12/15/16 13:40	12/16/16 20:28	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP16\_10-12**      **Lab ID: 10373306021**      Collected: 12/13/16 15:10      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	23.4	%	0.10	0.10	1		12/28/16 13:32		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.51	1	12/16/16 16:23	12/22/16 14:12	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.36	1	12/16/16 16:23	12/22/16 14:12	208-96-8	
Anthracene	<2.0	ug/kg	2.0	0.59	1	12/16/16 16:23	12/22/16 14:12	120-12-7	
Benzo(a)anthracene	<2.0	ug/kg	2.0	0.61	1	12/16/16 16:23	12/22/16 14:12	56-55-3	
Benzo(a)pyrene	<1.5	ug/kg	1.5	0.45	1	12/16/16 16:23	12/22/16 14:12	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	2.5	0.75	1	12/16/16 16:23	12/22/16 14:12	205-99-2	
Benzo(g,h,i)perylene	<2.0	ug/kg	2.0	0.60	1	12/16/16 16:23	12/22/16 14:12	191-24-2	
Benzo(k)fluoranthene	<2.1	ug/kg	2.1	0.64	1	12/16/16 16:23	12/22/16 14:12	207-08-9	
Chrysene	<2.4	ug/kg	2.4	0.72	1	12/16/16 16:23	12/22/16 14:12	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.43	1	12/16/16 16:23	12/22/16 14:12	53-70-3	
Fluoranthene	<3.4	ug/kg	3.4	1.0	1	12/16/16 16:23	12/22/16 14:12	206-44-0	
Fluorene	<1.7	ug/kg	1.7	0.50	1	12/16/16 16:23	12/22/16 14:12	86-73-7	M1
Indeno(1,2,3-cd)pyrene	<3.3	ug/kg	3.3	0.98	1	12/16/16 16:23	12/22/16 14:12	193-39-5	
Naphthalene	688	ug/kg	7.8	2.3	5	12/16/16 16:23	12/23/16 14:36	91-20-3	M1
Phenanthrene	<1.8	ug/kg	1.8	0.53	1	12/16/16 16:23	12/22/16 14:12	85-01-8	M1,R1
Pyrene	<3.6	ug/kg	3.6	1.1	1	12/16/16 16:23	12/22/16 14:12	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	77	%	41-125		1	12/16/16 16:23	12/22/16 14:12	321-60-8	
p-Terphenyl-d14 (S)	76	%	39-125		1	12/16/16 16:23	12/22/16 14:12	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1430	ug/kg	1430	429	1	12/15/16 13:40	12/16/16 18:07	67-64-1	
Allyl chloride	<187	ug/kg	187	56.1	1	12/15/16 13:40	12/16/16 18:07	107-05-1	
Benzene	6350	ug/kg	18.8	5.6	1	12/15/16 13:40	12/16/16 18:07	71-43-2	
Bromobenzene	<55.7	ug/kg	55.7	16.7	1	12/15/16 13:40	12/16/16 18:07	108-86-1	
Bromochloromethane	<64.8	ug/kg	64.8	19.5	1	12/15/16 13:40	12/16/16 18:07	74-97-5	
Bromodichloromethane	<60.9	ug/kg	60.9	18.3	1	12/15/16 13:40	12/16/16 18:07	75-27-4	
Bromoform	<188	ug/kg	188	56.3	1	12/15/16 13:40	12/16/16 18:07	75-25-2	
Bromomethane	<221	ug/kg	221	66.2	1	12/15/16 13:40	12/16/16 18:07	74-83-9	
2-Butanone (MEK)	<287	ug/kg	287	86.2	1	12/15/16 13:40	12/16/16 18:07	78-93-3	
n-Butylbenzene	<52.6	ug/kg	52.6	15.8	1	12/15/16 13:40	12/16/16 18:07	104-51-8	
sec-Butylbenzene	<51.3	ug/kg	51.3	15.4	1	12/15/16 13:40	12/16/16 18:07	135-98-8	
tert-Butylbenzene	<68.7	ug/kg	68.7	20.6	1	12/15/16 13:40	12/16/16 18:07	98-06-6	
Carbon tetrachloride	<68.3	ug/kg	68.3	20.5	1	12/15/16 13:40	12/16/16 18:07	56-23-5	
Chlorobenzene	<37.9	ug/kg	37.9	11.4	1	12/15/16 13:40	12/16/16 18:07	108-90-7	
Chloroethane	<344	ug/kg	344	103	1	12/15/16 13:40	12/16/16 18:07	75-00-3	
Chloroform	<106	ug/kg	106	31.7	1	12/15/16 13:40	12/16/16 18:07	67-66-3	
Chloromethane	<105	ug/kg	105	31.6	1	12/15/16 13:40	12/16/16 18:07	74-87-3	
2-Chlorotoluene	<60.0	ug/kg	60.0	18.0	1	12/15/16 13:40	12/16/16 18:07	95-49-8	
4-Chlorotoluene	<57.0	ug/kg	57.0	17.1	1	12/15/16 13:40	12/16/16 18:07	106-43-4	
1,2-Dibromo-3-chloropropane	<127	ug/kg	127	127	1	12/15/16 13:40	12/16/16 18:07	96-12-8	
Dibromochloromethane	<187	ug/kg	187	56.1	1	12/15/16 13:40	12/16/16 18:07	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: **GP16\_10-12** Lab ID: **10373306021** Collected: 12/13/16 15:10 Received: 12/14/16 18:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<24.6	ug/kg	24.6	24.6	1	12/15/16 13:40	12/16/16 18:07	106-93-4	
Dibromomethane	<84.8	ug/kg	84.8	25.5	1	12/15/16 13:40	12/16/16 18:07	74-95-3	
1,2-Dichlorobenzene	<12.6	ug/kg	12.6	12.6	1	12/15/16 13:40	12/16/16 18:07	95-50-1	
1,3-Dichlorobenzene	<19.2	ug/kg	19.2	19.2	1	12/15/16 13:40	12/16/16 18:07	541-73-1	
1,4-Dichlorobenzene	<63.1	ug/kg	63.1	18.9	1	12/15/16 13:40	12/16/16 18:07	106-46-7	
Dichlorodifluoromethane	<66.6	ug/kg	66.6	20.0	1	12/15/16 13:40	12/16/16 18:07	75-71-8	
1,1-Dichloroethane	<25.3	ug/kg	25.3	25.3	1	12/15/16 13:40	12/16/16 18:07	75-34-3	
1,2-Dichloroethane	<20.6	ug/kg	20.6	20.6	1	12/15/16 13:40	12/16/16 18:07	107-06-2	
1,1-Dichloroethene	<16.6	ug/kg	16.6	16.6	1	12/15/16 13:40	12/16/16 18:07	75-35-4	
cis-1,2-Dichloroethene	<80.9	ug/kg	80.9	24.3	1	12/15/16 13:40	12/16/16 18:07	156-59-2	
trans-1,2-Dichloroethene	<105	ug/kg	105	31.5	1	12/15/16 13:40	12/16/16 18:07	156-60-5	
Dichlorofluoromethane	<596	ug/kg	596	179	1	12/15/16 13:40	12/16/16 18:07	75-43-4	
1,2-Dichloropropane	<22.6	ug/kg	22.6	22.6	1	12/15/16 13:40	12/16/16 18:07	78-87-5	
1,3-Dichloropropane	<77.9	ug/kg	77.9	23.4	1	12/15/16 13:40	12/16/16 18:07	142-28-9	
2,2-Dichloropropane	<69.2	ug/kg	69.2	20.8	1	12/15/16 13:40	12/16/16 18:07	594-20-7	
1,1-Dichloropropene	<19.7	ug/kg	19.7	19.7	1	12/15/16 13:40	12/16/16 18:07	563-58-6	
cis-1,3-Dichloropropene	<99.2	ug/kg	99.2	29.8	1	12/15/16 13:40	12/16/16 18:07	10061-01-5	
trans-1,3-Dichloropropene	<74.0	ug/kg	74.0	22.2	1	12/15/16 13:40	12/16/16 18:07	10061-02-6	
Diethyl ether (Ethyl ether)	<89.6	ug/kg	89.6	26.9	1	12/15/16 13:40	12/16/16 18:07	60-29-7	
Ethylbenzene	360	ug/kg	69.2	20.8	1	12/15/16 13:40	12/16/16 18:07	100-41-4	
Hexachloro-1,3-butadiene	<204	ug/kg	204	61.4	1	12/15/16 13:40	12/16/16 18:07	87-68-3	
Isopropylbenzene (Cumene)	<77.4	ug/kg	77.4	23.3	1	12/15/16 13:40	12/16/16 18:07	98-82-8	
p-Isopropyltoluene	<36.1	ug/kg	36.1	10.8	1	12/15/16 13:40	12/16/16 18:07	99-87-6	
Methylene Chloride	<403	ug/kg	403	121	1	12/15/16 13:40	12/16/16 18:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	<144	ug/kg	144	43.2	1	12/15/16 13:40	12/16/16 18:07	108-10-1	
Methyl-tert-butyl ether	<40.7	ug/kg	40.7	12.2	1	12/15/16 13:40	12/16/16 18:07	1634-04-4	
Naphthalene	3080	ug/kg	52.6	15.8	1	12/15/16 13:40	12/16/16 18:07	91-20-3	
n-Propylbenzene	<64.8	ug/kg	64.8	19.5	1	12/15/16 13:40	12/16/16 18:07	103-65-1	
Styrene	<56.6	ug/kg	56.6	17.0	1	12/15/16 13:40	12/16/16 18:07	100-42-5	
1,1,1,2-Tetrachloroethane	<25.9	ug/kg	25.9	25.9	1	12/15/16 13:40	12/16/16 18:07	630-20-6	
1,1,2,2-Tetrachloroethane	<14.5	ug/kg	14.5	14.5	1	12/15/16 13:40	12/16/16 18:07	79-34-5	
Tetrachloroethene	<83.1	ug/kg	83.1	25.0	1	12/15/16 13:40	12/16/16 18:07	127-18-4	
Tetrahydrofuran	<1080	ug/kg	1080	324	1	12/15/16 13:40	12/16/16 18:07	109-99-9	
Toluene	<69.2	ug/kg	69.2	20.8	1	12/15/16 13:40	12/16/16 18:07	108-88-3	
1,2,3-Trichlorobenzene	<18.8	ug/kg	18.8	18.8	1	12/15/16 13:40	12/16/16 18:07	87-61-6	
1,2,4-Trichlorobenzene	<20.1	ug/kg	20.1	20.1	1	12/15/16 13:40	12/16/16 18:07	120-82-1	
1,1,1-Trichloroethane	<27.3	ug/kg	27.3	27.3	1	12/15/16 13:40	12/16/16 18:07	71-55-6	
1,1,2-Trichloroethane	<14.1	ug/kg	14.1	14.1	1	12/15/16 13:40	12/16/16 18:07	79-00-5	
Trichloroethene	<62.2	ug/kg	62.2	18.7	1	12/15/16 13:40	12/16/16 18:07	79-01-6	
Trichlorofluoromethane	<218	ug/kg	218	65.6	1	12/15/16 13:40	12/16/16 18:07	75-69-4	
1,2,3-Trichloropropane	<67.7	ug/kg	67.7	67.7	1	12/15/16 13:40	12/16/16 18:07	96-18-4	
1,1,2-Trichlorotrifluoroethane	<157	ug/kg	157	47.0	1	12/15/16 13:40	12/16/16 18:07	76-13-1	
1,2,4-Trimethylbenzene	233	ug/kg	14.4	14.4	1	12/15/16 13:40	12/16/16 18:07	95-63-6	
1,3,5-Trimethylbenzene	57.2	ug/kg	50.0	15.0	1	12/15/16 13:40	12/16/16 18:07	108-67-8	
Vinyl chloride	<27.9	ug/kg	27.9	8.4	1	12/15/16 13:40	12/16/16 18:07	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: GP16\_10-12**      **Lab ID: 10373306021**      Collected: 12/13/16 15:10      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>467</b>	ug/kg	174	52.3	1	12/15/16 13:40	12/16/16 18:07	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%	75-129		1	12/15/16 13:40	12/16/16 18:07	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/15/16 13:40	12/16/16 18:07	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/15/16 13:40	12/16/16 18:07	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: GP17\_3-5 Lab ID: 10373306022 Collected: 12/13/16 16:00 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	21.6	%	0.10	0.10	1		12/28/16 13:32		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	25100	ug/kg	166	49.9	100	12/16/16 16:23	12/23/16 18:02	83-32-9	
Acenaphthylene	12800	ug/kg	116	34.7	100	12/16/16 16:23	12/23/16 18:02	208-96-8	
Anthracene	16300	ug/kg	193	57.9	100	12/16/16 16:23	12/23/16 18:02	120-12-7	
Benzo(a)anthracene	19700	ug/kg	199	59.8	100	12/16/16 16:23	12/23/16 18:02	56-55-3	
Benzo(a)pyrene	23200	ug/kg	147	44.2	100	12/16/16 16:23	12/23/16 18:02	50-32-8	
Benzo(b)fluoranthene	18400	ug/kg	243	73.1	100	12/16/16 16:23	12/23/16 18:02	205-99-2	
Benzo(g,h,i)perylene	14500	ug/kg	194	58.4	100	12/16/16 16:23	12/23/16 18:02	191-24-2	
Benzo(k)fluoranthene	5980	ug/kg	209	62.7	100	12/16/16 16:23	12/23/16 18:02	207-08-9	
Chrysene	17600	ug/kg	236	70.8	100	12/16/16 16:23	12/23/16 18:02	218-01-9	
Dibenz(a,h)anthracene	3670	ug/kg	139	41.7	100	12/16/16 16:23	12/23/16 18:02	53-70-3	
Fluoranthene	28100	ug/kg	333	100	100	12/16/16 16:23	12/23/16 18:02	206-44-0	
Fluorene	16500	ug/kg	163	49.0	100	12/16/16 16:23	12/23/16 18:02	86-73-7	
Indeno(1,2,3-cd)pyrene	10700	ug/kg	318	95.6	100	12/16/16 16:23	12/23/16 18:02	193-39-5	
Naphthalene	190000	ug/kg	758	228	500	12/16/16 16:23	12/23/16 18:22	91-20-3	
Phenanthrene	56500	ug/kg	856	257	500	12/16/16 16:23	12/23/16 18:22	85-01-8	
Pyrene	41100	ug/kg	352	106	100	12/16/16 16:23	12/23/16 18:02	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	0	%	41-125		100	12/16/16 16:23	12/23/16 18:02	321-60-8	D4,S4
p-Terphenyl-d14 (S)	0	%	39-125		100	12/16/16 16:23	12/23/16 18:02	1718-51-0	S4
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1380	ug/kg	1380	414	1	12/15/16 11:21	12/15/16 18:22	67-64-1	
Allyl chloride	<180	ug/kg	180	54.1	1	12/15/16 11:21	12/15/16 18:22	107-05-1	
Benzene	1210	ug/kg	18.1	5.4	1	12/15/16 11:21	12/15/16 18:22	71-43-2	
Bromobenzene	<53.8	ug/kg	53.8	16.1	1	12/15/16 11:21	12/15/16 18:22	108-86-1	
Bromochloromethane	<62.6	ug/kg	62.6	18.8	1	12/15/16 11:21	12/15/16 18:22	74-97-5	
Bromodichloromethane	<58.8	ug/kg	58.8	17.7	1	12/15/16 11:21	12/15/16 18:22	75-27-4	
Bromoform	<181	ug/kg	181	54.4	1	12/15/16 11:21	12/15/16 18:22	75-25-2	
Bromomethane	<213	ug/kg	213	64.0	1	12/15/16 11:21	12/15/16 18:22	74-83-9	
2-Butanone (MEK)	<277	ug/kg	277	83.3	1	12/15/16 11:21	12/15/16 18:22	78-93-3	
n-Butylbenzene	<50.8	ug/kg	50.8	15.3	1	12/15/16 11:21	12/15/16 18:22	104-51-8	
sec-Butylbenzene	<49.6	ug/kg	49.6	14.9	1	12/15/16 11:21	12/15/16 18:22	135-98-8	
tert-Butylbenzene	<66.4	ug/kg	66.4	19.9	1	12/15/16 11:21	12/15/16 18:22	98-06-6	
Carbon tetrachloride	<65.9	ug/kg	65.9	19.8	1	12/15/16 11:21	12/15/16 18:22	56-23-5	
Chlorobenzene	<36.5	ug/kg	36.5	11.0	1	12/15/16 11:21	12/15/16 18:22	108-90-7	
Chloroethane	<332	ug/kg	332	99.7	1	12/15/16 11:21	12/15/16 18:22	75-00-3	
Chloroform	<102	ug/kg	102	30.7	1	12/15/16 11:21	12/15/16 18:22	67-66-3	
Chloromethane	<102	ug/kg	102	30.5	1	12/15/16 11:21	12/15/16 18:22	74-87-3	
2-Chlorotoluene	<58.0	ug/kg	58.0	17.4	1	12/15/16 11:21	12/15/16 18:22	95-49-8	
4-Chlorotoluene	<55.0	ug/kg	55.0	16.5	1	12/15/16 11:21	12/15/16 18:22	106-43-4	
1,2-Dibromo-3-chloropropane	<123	ug/kg	123	123	1	12/15/16 11:21	12/15/16 18:22	96-12-8	
Dibromochloromethane	<180	ug/kg	180	54.1	1	12/15/16 11:21	12/15/16 18:22	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: GP17\_3-5 Lab ID: 10373306022 Collected: 12/13/16 16:00 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
1,2-Dibromoethane (EDB)	<23.7	ug/kg	23.7	23.7	1	12/15/16 11:21	12/15/16 18:22	106-93-4	
Dibromomethane	<81.9	ug/kg	81.9	24.6	1	12/15/16 11:21	12/15/16 18:22	74-95-3	
1,2-Dichlorobenzene	<12.2	ug/kg	12.2	12.2	1	12/15/16 11:21	12/15/16 18:22	95-50-1	
1,3-Dichlorobenzene	<18.5	ug/kg	18.5	12.2	1	12/15/16 11:21	12/15/16 18:22	541-73-1	
1,4-Dichlorobenzene	<60.9	ug/kg	60.9	18.3	1	12/15/16 11:21	12/15/16 18:22	106-46-7	
Dichlorodifluoromethane	<64.3	ug/kg	64.3	19.3	1	12/15/16 11:21	12/15/16 18:22	75-71-8	CL
1,1-Dichloroethane	<24.5	ug/kg	24.5	24.5	1	12/15/16 11:21	12/15/16 18:22	75-34-3	
1,2-Dichloroethane	<19.9	ug/kg	19.9	19.9	1	12/15/16 11:21	12/15/16 18:22	107-06-2	
1,1-Dichloroethene	<16.0	ug/kg	16.0	16.0	1	12/15/16 11:21	12/15/16 18:22	75-35-4	
cis-1,2-Dichloroethene	<78.1	ug/kg	78.1	23.5	1	12/15/16 11:21	12/15/16 18:22	156-59-2	
trans-1,2-Dichloroethene	<101	ug/kg	101	30.4	1	12/15/16 11:21	12/15/16 18:22	156-60-5	
Dichlorofluoromethane	<575	ug/kg	575	173	1	12/15/16 11:21	12/15/16 18:22	75-43-4	
1,2-Dichloropropane	<21.8	ug/kg	21.8	21.8	1	12/15/16 11:21	12/15/16 18:22	78-87-5	
1,3-Dichloropropane	<75.2	ug/kg	75.2	22.6	1	12/15/16 11:21	12/15/16 18:22	142-28-9	
2,2-Dichloropropane	<66.8	ug/kg	66.8	20.1	1	12/15/16 11:21	12/15/16 18:22	594-20-7	
1,1-Dichloropropene	<19.0	ug/kg	19.0	19.0	1	12/15/16 11:21	12/15/16 18:22	563-58-6	
cis-1,3-Dichloropropene	<95.8	ug/kg	95.8	28.8	1	12/15/16 11:21	12/15/16 18:22	10061-01-5	
trans-1,3-Dichloropropene	<71.4	ug/kg	71.4	21.4	1	12/15/16 11:21	12/15/16 18:22	10061-02-6	
Diethyl ether (Ethyl ether)	<86.5	ug/kg	86.5	26.0	1	12/15/16 11:21	12/15/16 18:22	60-29-7	
Ethylbenzene	225	ug/kg	66.8	20.1	1	12/15/16 11:21	12/15/16 18:22	100-41-4	
Hexachloro-1,3-butadiene	<197	ug/kg	197	59.3	1	12/15/16 11:21	12/15/16 18:22	87-68-3	
Isopropylbenzene (Cumene)	<74.8	ug/kg	74.8	22.5	1	12/15/16 11:21	12/15/16 18:22	98-82-8	
p-Isopropyltoluene	<34.9	ug/kg	34.9	10.5	1	12/15/16 11:21	12/15/16 18:22	99-87-6	
Methylene Chloride	<389	ug/kg	389	117	1	12/15/16 11:21	12/15/16 18:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	<139	ug/kg	139	41.8	1	12/15/16 11:21	12/15/16 18:22	108-10-1	
Methyl-tert-butyl ether	<39.3	ug/kg	39.3	11.8	1	12/15/16 11:21	12/15/16 18:22	1634-04-4	
Naphthalene	1550	ug/kg	50.8	15.3	1	12/15/16 11:21	12/15/16 18:22	91-20-3	
n-Propylbenzene	<62.6	ug/kg	62.6	18.8	1	12/15/16 11:21	12/15/16 18:22	103-65-1	
Styrene	120	ug/kg	54.6	16.4	1	12/15/16 11:21	12/15/16 18:22	100-42-5	
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	25.0	25.0	1	12/15/16 11:21	12/15/16 18:22	630-20-6	
1,1,2,2-Tetrachloroethane	<14.0	ug/kg	14.0	14.0	1	12/15/16 11:21	12/15/16 18:22	79-34-5	
Tetrachloroethene	<80.2	ug/kg	80.2	24.1	1	12/15/16 11:21	12/15/16 18:22	127-18-4	
Tetrahydrofuran	<1040	ug/kg	1040	313	1	12/15/16 11:21	12/15/16 18:22	109-99-9	
Toluene	1080	ug/kg	66.8	20.1	1	12/15/16 11:21	12/15/16 18:22	108-88-3	
1,2,3-Trichlorobenzene	<18.2	ug/kg	18.2	18.2	1	12/15/16 11:21	12/15/16 18:22	87-61-6	
1,2,4-Trichlorobenzene	<19.4	ug/kg	19.4	19.4	1	12/15/16 11:21	12/15/16 18:22	120-82-1	
1,1,1-Trichloroethane	<26.4	ug/kg	26.4	26.4	1	12/15/16 11:21	12/15/16 18:22	71-55-6	
1,1,2-Trichloroethane	<13.6	ug/kg	13.6	13.6	1	12/15/16 11:21	12/15/16 18:22	79-00-5	
Trichloroethene	<60.1	ug/kg	60.1	18.0	1	12/15/16 11:21	12/15/16 18:22	79-01-6	
Trichlorofluoromethane	<211	ug/kg	211	63.3	1	12/15/16 11:21	12/15/16 18:22	75-69-4	
1,2,3-Trichloropropane	<65.3	ug/kg	65.3	65.3	1	12/15/16 11:21	12/15/16 18:22	96-18-4	
1,1,2-Trichlorotrifluoroethane	<151	ug/kg	151	45.4	1	12/15/16 11:21	12/15/16 18:22	76-13-1	
1,2,4-Trimethylbenzene	128	ug/kg	13.9	13.9	1	12/15/16 11:21	12/15/16 18:22	95-63-6	
1,3,5-Trimethylbenzene	54.9	ug/kg	48.3	14.5	1	12/15/16 11:21	12/15/16 18:22	108-67-8	
Vinyl chloride	<27.0	ug/kg	27.0	8.1	1	12/15/16 11:21	12/15/16 18:22	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: GP17\_3-5**      **Lab ID: 10373306022**      Collected: 12/13/16 16:00      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>617</b>	ug/kg	168	50.5	1	12/15/16 11:21	12/15/16 18:22	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	87	%	75-129		1	12/15/16 11:21	12/15/16 18:22	17060-07-0	
Toluene-d8 (S)	94	%	75-125		1	12/15/16 11:21	12/15/16 18:22	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/15/16 11:21	12/15/16 18:22	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP17\_5-10**      **Lab ID: 10373306023**      Collected: 12/13/16 16:05      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	24.2	%	0.10	0.10	1		12/28/16 13:33		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	5330	ug/kg	171	51.2	100	12/16/16 16:23	12/23/16 17:21	83-32-9	
Acenaphthylene	14300	ug/kg	119	35.6	100	12/16/16 16:23	12/23/16 17:21	208-96-8	
Anthracene	10900	ug/kg	198	59.5	100	12/16/16 16:23	12/23/16 17:21	120-12-7	
Benzo(a)anthracene	8370	ug/kg	205	61.5	100	12/16/16 16:23	12/23/16 17:21	56-55-3	
Benzo(a)pyrene	7760	ug/kg	151	45.5	100	12/16/16 16:23	12/23/16 17:21	50-32-8	
Benzo(b)fluoranthene	6300	ug/kg	250	75.1	100	12/16/16 16:23	12/23/16 17:21	205-99-2	
Benzo(g,h,i)perylene	3870	ug/kg	20.0	6.0	10	12/16/16 16:23	12/22/16 20:23	191-24-2	
Benzo(k)fluoranthene	1640	ug/kg	21.5	6.4	10	12/16/16 16:23	12/22/16 20:23	207-08-9	
Chrysene	6620	ug/kg	242	72.7	100	12/16/16 16:23	12/23/16 17:21	218-01-9	
Dibenz(a,h)anthracene	895	ug/kg	14.3	4.3	10	12/16/16 16:23	12/22/16 20:23	53-70-3	
Fluoranthene	14800	ug/kg	342	103	100	12/16/16 16:23	12/23/16 17:21	206-44-0	
Fluorene	8680	ug/kg	168	50.3	100	12/16/16 16:23	12/23/16 17:21	86-73-7	
Indeno(1,2,3-cd)pyrene	2750	ug/kg	32.7	9.8	10	12/16/16 16:23	12/22/16 20:23	193-39-5	
Naphthalene	88300	ug/kg	779	234	500	12/16/16 16:23	12/23/16 17:41	91-20-3	
Phenanthrene	29700	ug/kg	176	52.8	100	12/16/16 16:23	12/23/16 17:21	85-01-8	
Pyrene	18800	ug/kg	362	109	100	12/16/16 16:23	12/23/16 17:21	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	0	%	41-125		10	12/16/16 16:23	12/22/16 20:23	321-60-8	D4,S4
p-Terphenyl-d14 (S)	0	%	39-125		10	12/16/16 16:23	12/22/16 20:23	1718-51-0	S4
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1410	ug/kg	1410	424	1	12/15/16 11:21	12/15/16 18:38	67-64-1	
Allyl chloride	<185	ug/kg	185	55.5	1	12/15/16 11:21	12/15/16 18:38	107-05-1	
Benzene	211	ug/kg	18.6	5.6	1	12/15/16 11:21	12/15/16 18:38	71-43-2	
Bromobenzene	<55.1	ug/kg	55.1	16.6	1	12/15/16 11:21	12/15/16 18:38	108-86-1	
Bromochloromethane	<64.2	ug/kg	64.2	19.3	1	12/15/16 11:21	12/15/16 18:38	74-97-5	
Bromodichloromethane	<60.3	ug/kg	60.3	18.1	1	12/15/16 11:21	12/15/16 18:38	75-27-4	
Bromoform	<186	ug/kg	186	55.7	1	12/15/16 11:21	12/15/16 18:38	75-25-2	
Bromomethane	<218	ug/kg	218	65.6	1	12/15/16 11:21	12/15/16 18:38	74-83-9	
2-Butanone (MEK)	<284	ug/kg	284	85.4	1	12/15/16 11:21	12/15/16 18:38	78-93-3	
n-Butylbenzene	<52.1	ug/kg	52.1	15.6	1	12/15/16 11:21	12/15/16 18:38	104-51-8	
sec-Butylbenzene	<50.8	ug/kg	50.8	15.3	1	12/15/16 11:21	12/15/16 18:38	135-98-8	
tert-Butylbenzene	<68.0	ug/kg	68.0	20.4	1	12/15/16 11:21	12/15/16 18:38	98-06-6	
Carbon tetrachloride	<67.6	ug/kg	67.6	20.3	1	12/15/16 11:21	12/15/16 18:38	56-23-5	
Chlorobenzene	<37.5	ug/kg	37.5	11.3	1	12/15/16 11:21	12/15/16 18:38	108-90-7	
Chloroethane	<340	ug/kg	340	102	1	12/15/16 11:21	12/15/16 18:38	75-00-3	
Chloroform	<105	ug/kg	105	31.4	1	12/15/16 11:21	12/15/16 18:38	67-66-3	
Chloromethane	<104	ug/kg	104	31.3	1	12/15/16 11:21	12/15/16 18:38	74-87-3	
2-Chlorotoluene	<59.4	ug/kg	59.4	17.8	1	12/15/16 11:21	12/15/16 18:38	95-49-8	
4-Chlorotoluene	<56.4	ug/kg	56.4	16.9	1	12/15/16 11:21	12/15/16 18:38	106-43-4	
1,2-Dibromo-3-chloropropane	<126	ug/kg	126	126	1	12/15/16 11:21	12/15/16 18:38	96-12-8	
Dibromochloromethane	<185	ug/kg	185	55.5	1	12/15/16 11:21	12/15/16 18:38	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP17\_5-10**      **Lab ID: 10373306023**      Collected: 12/13/16 16:05      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<24.3	ug/kg	24.3	24.3	1	12/15/16 11:21	12/15/16 18:38	106-93-4	
Dibromomethane	<84.0	ug/kg	84.0	25.2	1	12/15/16 11:21	12/15/16 18:38	74-95-3	
1,2-Dichlorobenzene	<12.5	ug/kg	12.5	12.5	1	12/15/16 11:21	12/15/16 18:38	95-50-1	
1,3-Dichlorobenzene	<19.0	ug/kg	19.0	12.5	1	12/15/16 11:21	12/15/16 18:38	541-73-1	
1,4-Dichlorobenzene	<62.4	ug/kg	62.4	18.8	1	12/15/16 11:21	12/15/16 18:38	106-46-7	
Dichlorodifluoromethane	<65.9	ug/kg	65.9	19.8	1	12/15/16 11:21	12/15/16 18:38	75-71-8	CL
1,1-Dichloroethane	<25.1	ug/kg	25.1	25.1	1	12/15/16 11:21	12/15/16 18:38	75-34-3	
1,2-Dichloroethane	<20.4	ug/kg	20.4	20.4	1	12/15/16 11:21	12/15/16 18:38	107-06-2	
1,1-Dichloroethene	<16.4	ug/kg	16.4	16.4	1	12/15/16 11:21	12/15/16 18:38	75-35-4	
cis-1,2-Dichloroethene	<80.1	ug/kg	80.1	24.1	1	12/15/16 11:21	12/15/16 18:38	156-59-2	
trans-1,2-Dichloroethene	<104	ug/kg	104	31.2	1	12/15/16 11:21	12/15/16 18:38	156-60-5	
Dichlorofluoromethane	<590	ug/kg	590	177	1	12/15/16 11:21	12/15/16 18:38	75-43-4	
1,2-Dichloropropane	<22.4	ug/kg	22.4	22.4	1	12/15/16 11:21	12/15/16 18:38	78-87-5	
1,3-Dichloropropane	<77.1	ug/kg	77.1	23.2	1	12/15/16 11:21	12/15/16 18:38	142-28-9	
2,2-Dichloropropane	<68.5	ug/kg	68.5	20.6	1	12/15/16 11:21	12/15/16 18:38	594-20-7	
1,1-Dichloropropene	<19.5	ug/kg	19.5	19.5	1	12/15/16 11:21	12/15/16 18:38	563-58-6	
cis-1,3-Dichloropropene	<98.2	ug/kg	98.2	29.5	1	12/15/16 11:21	12/15/16 18:38	10061-01-5	
trans-1,3-Dichloropropene	<73.2	ug/kg	73.2	22.0	1	12/15/16 11:21	12/15/16 18:38	10061-02-6	
Diethyl ether (Ethyl ether)	<88.7	ug/kg	88.7	26.6	1	12/15/16 11:21	12/15/16 18:38	60-29-7	
Ethylbenzene	452	ug/kg	68.5	20.6	1	12/15/16 11:21	12/15/16 18:38	100-41-4	
Hexachloro-1,3-butadiene	<202	ug/kg	202	60.8	1	12/15/16 11:21	12/15/16 18:38	87-68-3	
Isopropylbenzene (Cumene)	<76.7	ug/kg	76.7	23.0	1	12/15/16 11:21	12/15/16 18:38	98-82-8	
p-Isopropyltoluene	<35.7	ug/kg	35.7	10.7	1	12/15/16 11:21	12/15/16 18:38	99-87-6	
Methylene Chloride	<399	ug/kg	399	120	1	12/15/16 11:21	12/15/16 18:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	<143	ug/kg	143	42.8	1	12/15/16 11:21	12/15/16 18:38	108-10-1	
Methyl-tert-butyl ether	<40.3	ug/kg	40.3	12.1	1	12/15/16 11:21	12/15/16 18:38	1634-04-4	
Naphthalene	2200	ug/kg	52.1	15.6	1	12/15/16 11:21	12/15/16 18:38	91-20-3	
n-Propylbenzene	<64.2	ug/kg	64.2	19.3	1	12/15/16 11:21	12/15/16 18:38	103-65-1	
Styrene	<56.0	ug/kg	56.0	16.8	1	12/15/16 11:21	12/15/16 18:38	100-42-5	
1,1,1,2-Tetrachloroethane	<25.6	ug/kg	25.6	25.6	1	12/15/16 11:21	12/15/16 18:38	630-20-6	
1,1,2,2-Tetrachloroethane	<14.4	ug/kg	14.4	14.4	1	12/15/16 11:21	12/15/16 18:38	79-34-5	
Tetrachloroethene	<82.3	ug/kg	82.3	24.7	1	12/15/16 11:21	12/15/16 18:38	127-18-4	
Tetrahydrofuran	<1070	ug/kg	1070	321	1	12/15/16 11:21	12/15/16 18:38	109-99-9	
Toluene	417	ug/kg	68.5	20.6	1	12/15/16 11:21	12/15/16 18:38	108-88-3	
1,2,3-Trichlorobenzene	<18.6	ug/kg	18.6	18.6	1	12/15/16 11:21	12/15/16 18:38	87-61-6	
1,2,4-Trichlorobenzene	<19.9	ug/kg	19.9	19.9	1	12/15/16 11:21	12/15/16 18:38	120-82-1	
1,1,1-Trichloroethane	<27.0	ug/kg	27.0	27.0	1	12/15/16 11:21	12/15/16 18:38	71-55-6	
1,1,2-Trichloroethane	<14.0	ug/kg	14.0	14.0	1	12/15/16 11:21	12/15/16 18:38	79-00-5	
Trichloroethene	<61.6	ug/kg	61.6	18.5	1	12/15/16 11:21	12/15/16 18:38	79-01-6	
Trichlorofluoromethane	<216	ug/kg	216	64.9	1	12/15/16 11:21	12/15/16 18:38	75-69-4	
1,2,3-Trichloropropane	<67.0	ug/kg	67.0	67.0	1	12/15/16 11:21	12/15/16 18:38	96-18-4	
1,1,2-Trichlorotrifluoroethane	<155	ug/kg	155	46.6	1	12/15/16 11:21	12/15/16 18:38	76-13-1	
1,2,4-Trimethylbenzene	162	ug/kg	14.2	14.2	1	12/15/16 11:21	12/15/16 18:38	95-63-6	
1,3,5-Trimethylbenzene	59.4	ug/kg	49.5	14.9	1	12/15/16 11:21	12/15/16 18:38	108-67-8	
Vinyl chloride	<27.7	ug/kg	27.7	8.3	1	12/15/16 11:21	12/15/16 18:38	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: GP17\_5-10**      **Lab ID: 10373306023**      Collected: 12/13/16 16:05      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>518</b>	ug/kg	172	51.7	1	12/15/16 11:21	12/15/16 18:38	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	93	%	75-129		1	12/15/16 11:21	12/15/16 18:38	17060-07-0	
Toluene-d8 (S)	96	%	75-125		1	12/15/16 11:21	12/15/16 18:38	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/15/16 11:21	12/15/16 18:38	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP17\_10-15**      **Lab ID: 10373306024**      Collected: 12/13/16 16:10      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	22.4	%	0.10	0.10	1		12/28/16 13:33		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.50	1	12/16/16 16:23	12/22/16 15:14	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.35	1	12/16/16 16:23	12/22/16 15:14	208-96-8	
Anthracene	<1.9	ug/kg	1.9	0.58	1	12/16/16 16:23	12/22/16 15:14	120-12-7	
Benzo(a)anthracene	<2.0	ug/kg	2.0	0.60	1	12/16/16 16:23	12/22/16 15:14	56-55-3	
Benzo(a)pyrene	<1.5	ug/kg	1.5	0.44	1	12/16/16 16:23	12/22/16 15:14	50-32-8	
Benzo(b)fluoranthene	<2.4	ug/kg	2.4	0.73	1	12/16/16 16:23	12/22/16 15:14	205-99-2	
Benzo(g,h,i)perylene	<2.0	ug/kg	2.0	0.59	1	12/16/16 16:23	12/22/16 15:14	191-24-2	
Benzo(k)fluoranthene	<2.1	ug/kg	2.1	0.63	1	12/16/16 16:23	12/22/16 15:14	207-08-9	
Chrysene	<2.4	ug/kg	2.4	0.71	1	12/16/16 16:23	12/22/16 15:14	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.42	1	12/16/16 16:23	12/22/16 15:14	53-70-3	
Fluoranthene	<3.3	ug/kg	3.3	1.0	1	12/16/16 16:23	12/22/16 15:14	206-44-0	
Fluorene	<1.6	ug/kg	1.6	0.49	1	12/16/16 16:23	12/22/16 15:14	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.2	ug/kg	3.2	0.96	1	12/16/16 16:23	12/22/16 15:14	193-39-5	
Naphthalene	29.3	ug/kg	1.5	0.46	1	12/16/16 16:23	12/22/16 15:14	91-20-3	
Phenanthrene	<1.7	ug/kg	1.7	0.52	1	12/16/16 16:23	12/22/16 15:14	85-01-8	
Pyrene	<3.5	ug/kg	3.5	1.1	1	12/16/16 16:23	12/22/16 15:14	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	60	%	41-125		1	12/16/16 16:23	12/22/16 15:14	321-60-8	
p-Terphenyl-d14 (S)	74	%	39-125		1	12/16/16 16:23	12/22/16 15:14	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1370	ug/kg	1370	412	1	12/15/16 11:21	12/15/16 18:54	67-64-1	
Allyl chloride	<180	ug/kg	180	53.9	1	12/15/16 11:21	12/15/16 18:54	107-05-1	
Benzene	8630	ug/kg	18.1	5.4	1	12/15/16 11:21	12/15/16 18:54	71-43-2	
Bromobenzene	<53.6	ug/kg	53.6	16.1	1	12/15/16 11:21	12/15/16 18:54	108-86-1	
Bromochloromethane	<62.3	ug/kg	62.3	18.7	1	12/15/16 11:21	12/15/16 18:54	74-97-5	
Bromodichloromethane	<58.6	ug/kg	58.6	17.6	1	12/15/16 11:21	12/15/16 18:54	75-27-4	
Bromoform	<180	ug/kg	180	54.2	1	12/15/16 11:21	12/15/16 18:54	75-25-2	
Bromomethane	<212	ug/kg	212	63.7	1	12/15/16 11:21	12/15/16 18:54	74-83-9	
2-Butanone (MEK)	<276	ug/kg	276	82.9	1	12/15/16 11:21	12/15/16 18:54	78-93-3	
n-Butylbenzene	<50.6	ug/kg	50.6	15.2	1	12/15/16 11:21	12/15/16 18:54	104-51-8	
sec-Butylbenzene	<49.4	ug/kg	49.4	14.8	1	12/15/16 11:21	12/15/16 18:54	135-98-8	
tert-Butylbenzene	<66.1	ug/kg	66.1	19.9	1	12/15/16 11:21	12/15/16 18:54	98-06-6	
Carbon tetrachloride	<65.7	ug/kg	65.7	19.7	1	12/15/16 11:21	12/15/16 18:54	56-23-5	
Chlorobenzene	<36.4	ug/kg	36.4	10.9	1	12/15/16 11:21	12/15/16 18:54	108-90-7	
Chloroethane	<331	ug/kg	331	99.3	1	12/15/16 11:21	12/15/16 18:54	75-00-3	
Chloroform	<102	ug/kg	102	30.5	1	12/15/16 11:21	12/15/16 18:54	67-66-3	
Chloromethane	<101	ug/kg	101	30.4	1	12/15/16 11:21	12/15/16 18:54	74-87-3	
2-Chlorotoluene	<57.7	ug/kg	57.7	17.3	1	12/15/16 11:21	12/15/16 18:54	95-49-8	
4-Chlorotoluene	<54.8	ug/kg	54.8	16.5	1	12/15/16 11:21	12/15/16 18:54	106-43-4	
1,2-Dibromo-3-chloropropane	<123	ug/kg	123	123	1	12/15/16 11:21	12/15/16 18:54	96-12-8	
Dibromochloromethane	<180	ug/kg	180	53.9	1	12/15/16 11:21	12/15/16 18:54	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: GP17\_10-15 Lab ID: 10373306024 Collected: 12/13/16 16:10 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<23.6	ug/kg	23.6	23.6	1	12/15/16 11:21	12/15/16 18:54	106-93-4	
Dibromomethane	<81.6	ug/kg	81.6	24.5	1	12/15/16 11:21	12/15/16 18:54	74-95-3	
1,2-Dichlorobenzene	<12.1	ug/kg	12.1	12.1	1	12/15/16 11:21	12/15/16 18:54	95-50-1	
1,3-Dichlorobenzene	<18.5	ug/kg	18.5	12.1	1	12/15/16 11:21	12/15/16 18:54	541-73-1	
1,4-Dichlorobenzene	<60.7	ug/kg	60.7	18.2	1	12/15/16 11:21	12/15/16 18:54	106-46-7	
Dichlorodifluoromethane	<64.0	ug/kg	64.0	19.2	1	12/15/16 11:21	12/15/16 18:54	75-71-8	CL
1,1-Dichloroethane	<24.4	ug/kg	24.4	24.4	1	12/15/16 11:21	12/15/16 18:54	75-34-3	
1,2-Dichloroethane	<19.9	ug/kg	19.9	19.9	1	12/15/16 11:21	12/15/16 18:54	107-06-2	
1,1-Dichloroethene	<16.0	ug/kg	16.0	16.0	1	12/15/16 11:21	12/15/16 18:54	75-35-4	
cis-1,2-Dichloroethene	<77.8	ug/kg	77.8	23.4	1	12/15/16 11:21	12/15/16 18:54	156-59-2	
trans-1,2-Dichloroethene	<101	ug/kg	101	30.3	1	12/15/16 11:21	12/15/16 18:54	156-60-5	
Dichlorofluoromethane	<573	ug/kg	573	172	1	12/15/16 11:21	12/15/16 18:54	75-43-4	
1,2-Dichloropropane	<21.7	ug/kg	21.7	21.7	1	12/15/16 11:21	12/15/16 18:54	78-87-5	
1,3-Dichloropropane	<74.9	ug/kg	74.9	22.5	1	12/15/16 11:21	12/15/16 18:54	142-28-9	
2,2-Dichloropropane	<66.5	ug/kg	66.5	20.0	1	12/15/16 11:21	12/15/16 18:54	594-20-7	
1,1-Dichloropropene	<19.0	ug/kg	19.0	19.0	1	12/15/16 11:21	12/15/16 18:54	563-58-6	
cis-1,3-Dichloropropene	<95.4	ug/kg	95.4	28.7	1	12/15/16 11:21	12/15/16 18:54	10061-01-5	
trans-1,3-Dichloropropene	<71.1	ug/kg	71.1	21.4	1	12/15/16 11:21	12/15/16 18:54	10061-02-6	
Diethyl ether (Ethyl ether)	<86.2	ug/kg	86.2	25.9	1	12/15/16 11:21	12/15/16 18:54	60-29-7	
Ethylbenzene	270	ug/kg	66.5	20.0	1	12/15/16 11:21	12/15/16 18:54	100-41-4	
Hexachloro-1,3-butadiene	<197	ug/kg	197	59.1	1	12/15/16 11:21	12/15/16 18:54	87-68-3	
Isopropylbenzene (Cumene)	<74.5	ug/kg	74.5	22.4	1	12/15/16 11:21	12/15/16 18:54	98-82-8	
p-Isopropyltoluene	<34.7	ug/kg	34.7	10.4	1	12/15/16 11:21	12/15/16 18:54	99-87-6	
Methylene Chloride	<387	ug/kg	387	116	1	12/15/16 11:21	12/15/16 18:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	<139	ug/kg	139	41.6	1	12/15/16 11:21	12/15/16 18:54	108-10-1	
Methyl-tert-butyl ether	<39.2	ug/kg	39.2	11.8	1	12/15/16 11:21	12/15/16 18:54	1634-04-4	
Naphthalene	461	ug/kg	50.6	15.2	1	12/15/16 11:21	12/15/16 18:54	91-20-3	
n-Propylbenzene	<62.3	ug/kg	62.3	18.7	1	12/15/16 11:21	12/15/16 18:54	103-65-1	
Styrene	<54.4	ug/kg	54.4	16.3	1	12/15/16 11:21	12/15/16 18:54	100-42-5	
1,1,1,2-Tetrachloroethane	<24.9	ug/kg	24.9	24.9	1	12/15/16 11:21	12/15/16 18:54	630-20-6	
1,1,2,2-Tetrachloroethane	<13.9	ug/kg	13.9	13.9	1	12/15/16 11:21	12/15/16 18:54	79-34-5	
Tetrachloroethene	<79.9	ug/kg	79.9	24.0	1	12/15/16 11:21	12/15/16 18:54	127-18-4	
Tetrahydrofuran	<1040	ug/kg	1040	312	1	12/15/16 11:21	12/15/16 18:54	109-99-9	
Toluene	<66.5	ug/kg	66.5	20.0	1	12/15/16 11:21	12/15/16 18:54	108-88-3	
1,2,3-Trichlorobenzene	<18.1	ug/kg	18.1	18.1	1	12/15/16 11:21	12/15/16 18:54	87-61-6	
1,2,4-Trichlorobenzene	<19.4	ug/kg	19.4	19.4	1	12/15/16 11:21	12/15/16 18:54	120-82-1	
1,1,1-Trichloroethane	<26.3	ug/kg	26.3	26.3	1	12/15/16 11:21	12/15/16 18:54	71-55-6	
1,1,2-Trichloroethane	<13.6	ug/kg	13.6	13.6	1	12/15/16 11:21	12/15/16 18:54	79-00-5	
Trichloroethene	<59.8	ug/kg	59.8	18.0	1	12/15/16 11:21	12/15/16 18:54	79-01-6	
Trichlorofluoromethane	<210	ug/kg	210	63.1	1	12/15/16 11:21	12/15/16 18:54	75-69-4	
1,2,3-Trichloropropane	<65.1	ug/kg	65.1	65.1	1	12/15/16 11:21	12/15/16 18:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	<151	ug/kg	151	45.2	1	12/15/16 11:21	12/15/16 18:54	76-13-1	
1,2,4-Trimethylbenzene	22.1	ug/kg	13.8	13.8	1	12/15/16 11:21	12/15/16 18:54	95-63-6	
1,3,5-Trimethylbenzene	<48.1	ug/kg	48.1	14.5	1	12/15/16 11:21	12/15/16 18:54	108-67-8	
Vinyl chloride	<26.9	ug/kg	26.9	8.1	1	12/15/16 11:21	12/15/16 18:54	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: GP17\_10-15**      **Lab ID: 10373306024**      Collected: 12/13/16 16:10      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>338</b>	ug/kg	167	50.3	1	12/15/16 11:21	12/15/16 18:54	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	89	%	75-129		1	12/15/16 11:21	12/15/16 18:54	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/15/16 11:21	12/15/16 18:54	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/15/16 11:21	12/15/16 18:54	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP18\_3-5**      **Lab ID: 10373306025**      Collected: 12/13/16 17:00      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>20.5</b>	%	0.10	0.10	1		12/28/16 13:33		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<b>12300</b>	ug/kg	816	245	100	12/16/16 16:23	12/23/16 16:40	83-32-9	
Acenaphthylene	<b>92200</b>	ug/kg	568	170	100	12/16/16 16:23	12/23/16 16:40	208-96-8	
Anthracene	<b>33400</b>	ug/kg	947	284	100	12/16/16 16:23	12/23/16 16:40	120-12-7	
Benzo(a)anthracene	<b>183000</b>	ug/kg	979	294	100	12/16/16 16:23	12/23/16 16:40	56-55-3	
Benzo(a)pyrene	<b>188000</b>	ug/kg	724	217	100	12/16/16 16:23	12/23/16 16:40	50-32-8	
Benzo(b)fluoranthene	<b>153000</b>	ug/kg	1200	359	100	12/16/16 16:23	12/23/16 16:40	205-99-2	
Benzo(g,h,i)perylene	<b>111000</b>	ug/kg	956	287	100	12/16/16 16:23	12/23/16 16:40	191-24-2	
Benzo(k)fluoranthene	<b>47900</b>	ug/kg	1030	308	100	12/16/16 16:23	12/23/16 16:40	207-08-9	
Chrysene	<b>149000</b>	ug/kg	1160	348	100	12/16/16 16:23	12/23/16 16:40	218-01-9	
Dibenz(a,h)anthracene	<b>31200</b>	ug/kg	682	205	100	12/16/16 16:23	12/23/16 16:40	53-70-3	
Fluoranthene	<b>212000</b>	ug/kg	8180	2460	500	12/16/16 16:23	12/23/16 17:00	206-44-0	
Fluorene	<b>24600</b>	ug/kg	801	241	100	12/16/16 16:23	12/23/16 16:40	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>81800</b>	ug/kg	1560	470	100	12/16/16 16:23	12/23/16 16:40	193-39-5	
Naphthalene	<b>223000</b>	ug/kg	3720	1120	500	12/16/16 16:23	12/23/16 17:00	91-20-3	
Phenanthrene	<b>70000</b>	ug/kg	841	253	100	12/16/16 16:23	12/23/16 16:40	85-01-8	
Pyrene	<b>426000</b>	ug/kg	8650	2600	500	12/16/16 16:23	12/23/16 17:00	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	0	%	41-125		100	12/16/16 16:23	12/23/16 16:40	321-60-8	D4,P3, S4
p-Terphenyl-d14 (S)	0	%	39-125		100	12/16/16 16:23	12/23/16 16:40	1718-51-0	S4
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<b>&lt;1360</b>	ug/kg	1360	407	1	12/15/16 11:21	12/15/16 21:19	67-64-1	
Allyl chloride	<b>&lt;177</b>	ug/kg	177	53.3	1	12/15/16 11:21	12/15/16 21:19	107-05-1	
Benzene	<b>61600</b>	ug/kg	893	268	50	12/15/16 11:21	12/16/16 12:20	71-43-2	
Bromobenzene	<b>&lt;52.9</b>	ug/kg	52.9	15.9	1	12/15/16 11:21	12/15/16 21:19	108-86-1	
Bromochloromethane	<b>&lt;61.6</b>	ug/kg	61.6	18.5	1	12/15/16 11:21	12/15/16 21:19	74-97-5	
Bromodichloromethane	<b>&lt;57.9</b>	ug/kg	57.9	17.4	1	12/15/16 11:21	12/15/16 21:19	75-27-4	
Bromoform	<b>&lt;178</b>	ug/kg	178	53.5	1	12/15/16 11:21	12/15/16 21:19	75-25-2	
Bromomethane	<b>&lt;210</b>	ug/kg	210	63.0	1	12/15/16 11:21	12/15/16 21:19	74-83-9	
2-Butanone (MEK)	<b>&lt;273</b>	ug/kg	273	82.0	1	12/15/16 11:21	12/15/16 21:19	78-93-3	
n-Butylbenzene	<b>3210</b>	ug/kg	50.0	15.0	1	12/15/16 11:21	12/15/16 21:19	104-51-8	
sec-Butylbenzene	<b>826</b>	ug/kg	48.8	14.7	1	12/15/16 11:21	12/15/16 21:19	135-98-8	
tert-Butylbenzene	<b>&lt;65.3</b>	ug/kg	65.3	19.6	1	12/15/16 11:21	12/15/16 21:19	98-06-6	
Carbon tetrachloride	<b>&lt;64.9</b>	ug/kg	64.9	19.5	1	12/15/16 11:21	12/15/16 21:19	56-23-5	
Chlorobenzene	<b>&lt;36.0</b>	ug/kg	36.0	10.8	1	12/15/16 11:21	12/15/16 21:19	108-90-7	
Chloroethane	<b>&lt;327</b>	ug/kg	327	98.1	1	12/15/16 11:21	12/15/16 21:19	75-00-3	
Chloroform	<b>&lt;100</b>	ug/kg	100	30.2	1	12/15/16 11:21	12/15/16 21:19	67-66-3	
Chloromethane	<b>&lt;100</b>	ug/kg	100	30.1	1	12/15/16 11:21	12/15/16 21:19	74-87-3	
2-Chlorotoluene	<b>&lt;57.1</b>	ug/kg	57.1	17.1	1	12/15/16 11:21	12/15/16 21:19	95-49-8	
4-Chlorotoluene	<b>&lt;54.2</b>	ug/kg	54.2	16.3	1	12/15/16 11:21	12/15/16 21:19	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;121</b>	ug/kg	121	121	1	12/15/16 11:21	12/15/16 21:19	96-12-8	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP18\_3-5**      **Lab ID: 10373306025**      Collected: 12/13/16 17:00      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Dibromochloromethane	<177	ug/kg	177	53.3	1	12/15/16 11:21	12/15/16 21:19	124-48-1	
1,2-Dibromoethane (EDB)	<23.3	ug/kg	23.3	23.3	1	12/15/16 11:21	12/15/16 21:19	106-93-4	
Dibromomethane	<80.6	ug/kg	80.6	24.2	1	12/15/16 11:21	12/15/16 21:19	74-95-3	
1,2-Dichlorobenzene	<12.0	ug/kg	12.0	12.0	1	12/15/16 11:21	12/15/16 21:19	95-50-1	
1,3-Dichlorobenzene	<18.3	ug/kg	18.3	12.0	1	12/15/16 11:21	12/15/16 21:19	541-73-1	
1,4-Dichlorobenzene	<60.0	ug/kg	60.0	18.0	1	12/15/16 11:21	12/15/16 21:19	106-46-7	
Dichlorodifluoromethane	<63.3	ug/kg	63.3	19.0	1	12/15/16 11:21	12/15/16 21:19	75-71-8	CL
1,1-Dichloroethane	<24.1	ug/kg	24.1	24.1	1	12/15/16 11:21	12/15/16 21:19	75-34-3	
1,2-Dichloroethane	<19.6	ug/kg	19.6	19.6	1	12/15/16 11:21	12/15/16 21:19	107-06-2	
1,1-Dichloroethene	<15.8	ug/kg	15.8	15.8	1	12/15/16 11:21	12/15/16 21:19	75-35-4	
cis-1,2-Dichloroethene	<76.9	ug/kg	76.9	23.1	1	12/15/16 11:21	12/15/16 21:19	156-59-2	
trans-1,2-Dichloroethene	<99.7	ug/kg	99.7	29.9	1	12/15/16 11:21	12/15/16 21:19	156-60-5	
Dichlorofluoromethane	<567	ug/kg	567	170	1	12/15/16 11:21	12/15/16 21:19	75-43-4	
1,2-Dichloropropane	<21.5	ug/kg	21.5	21.5	1	12/15/16 11:21	12/15/16 21:19	78-87-5	
1,3-Dichloropropane	<74.0	ug/kg	74.0	22.2	1	12/15/16 11:21	12/15/16 21:19	142-28-9	
2,2-Dichloropropane	<65.7	ug/kg	65.7	19.7	1	12/15/16 11:21	12/15/16 21:19	594-20-7	
1,1-Dichloropropene	<18.8	ug/kg	18.8	18.8	1	12/15/16 11:21	12/15/16 21:19	563-58-6	
cis-1,3-Dichloropropene	<94.3	ug/kg	94.3	28.3	1	12/15/16 11:21	12/15/16 21:19	10061-01-5	
trans-1,3-Dichloropropene	<70.3	ug/kg	70.3	21.1	1	12/15/16 11:21	12/15/16 21:19	10061-02-6	
Diethyl ether (Ethyl ether)	<85.2	ug/kg	85.2	25.6	1	12/15/16 11:21	12/15/16 21:19	60-29-7	
Ethylbenzene	40100	ug/kg	3290	987	50	12/15/16 11:21	12/16/16 12:20	100-41-4	
Hexachloro-1,3-butadiene	<194	ug/kg	194	58.4	1	12/15/16 11:21	12/15/16 21:19	87-68-3	
Isopropylbenzene (Cumene)	2150	ug/kg	73.6	22.1	1	12/15/16 11:21	12/15/16 21:19	98-82-8	
p-Isopropyltoluene	1830	ug/kg	34.3	10.3	1	12/15/16 11:21	12/15/16 21:19	99-87-6	
Methylene Chloride	<383	ug/kg	383	115	1	12/15/16 11:21	12/15/16 21:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	<137	ug/kg	137	41.1	1	12/15/16 11:21	12/15/16 21:19	108-10-1	
Methyl-tert-butyl ether	<38.7	ug/kg	38.7	11.6	1	12/15/16 11:21	12/15/16 21:19	1634-04-4	
Naphthalene	1690000	ug/kg	12500	3760	250	12/15/16 11:21	12/19/16 13:18	91-20-3	
n-Propylbenzene	10600	ug/kg	61.6	18.5	1	12/15/16 11:21	12/15/16 21:19	103-65-1	
Styrene	75400	ug/kg	2690	807	50	12/15/16 11:21	12/16/16 12:20	100-42-5	
1,1,1,2-Tetrachloroethane	<24.6	ug/kg	24.6	24.6	1	12/15/16 11:21	12/15/16 21:19	630-20-6	
1,1,1,2,2-Tetrachloroethane	<13.8	ug/kg	13.8	13.8	1	12/15/16 11:21	12/15/16 21:19	79-34-5	
Tetrachloroethene	<79.0	ug/kg	79.0	23.7	1	12/15/16 11:21	12/15/16 21:19	127-18-4	
Tetrahydrofuran	<1030	ug/kg	1030	308	1	12/15/16 11:21	12/15/16 21:19	109-99-9	
Toluene	140000	ug/kg	3290	987	50	12/15/16 11:21	12/16/16 12:20	108-88-3	
1,2,3-Trichlorobenzene	<17.9	ug/kg	17.9	17.9	1	12/15/16 11:21	12/15/16 21:19	87-61-6	
1,2,4-Trichlorobenzene	<19.1	ug/kg	19.1	19.1	1	12/15/16 11:21	12/15/16 21:19	120-82-1	
1,1,1-Trichloroethane	<26.0	ug/kg	26.0	26.0	1	12/15/16 11:21	12/15/16 21:19	71-55-6	
1,1,2-Trichloroethane	<13.4	ug/kg	13.4	13.4	1	12/15/16 11:21	12/15/16 21:19	79-00-5	
Trichloroethene	<59.1	ug/kg	59.1	17.8	1	12/15/16 11:21	12/15/16 21:19	79-01-6	
Trichlorofluoromethane	<208	ug/kg	208	62.3	1	12/15/16 11:21	12/15/16 21:19	75-69-4	
1,2,3-Trichloropropane	<64.3	ug/kg	64.3	64.3	1	12/15/16 11:21	12/15/16 21:19	96-18-4	
1,1,2-Trichlorotrifluoroethane	<149	ug/kg	149	44.7	1	12/15/16 11:21	12/15/16 21:19	76-13-1	
1,2,4-Trimethylbenzene	83600	ug/kg	683	683	50	12/15/16 11:21	12/16/16 12:20	95-63-6	
1,3,5-Trimethylbenzene	27700	ug/kg	2380	714	50	12/15/16 11:21	12/16/16 12:20	108-67-8	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP18\_3-5**      **Lab ID: 10373306025**      Collected: 12/13/16 17:00      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Vinyl chloride	<b>&lt;26.5</b>	ug/kg	26.5	8.0	1	12/15/16 11:21	12/15/16 21:19	75-01-4	
Xylene (Total)	<b>255000</b>	ug/kg	8270	2480	50	12/15/16 11:21	12/16/16 12:20	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	88	%	75-129		1	12/15/16 11:21	12/15/16 21:19	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/15/16 11:21	12/15/16 21:19	2037-26-5	
4-Bromofluorobenzene (S)	112	%	75-125		1	12/15/16 11:21	12/15/16 21:19	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: GP18\_5-7 Lab ID: 10373306026 Collected: 12/13/16 17:05 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	24.3	%	0.10	0.10	1		12/28/16 14:34		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	217	ug/kg	1.7	0.51	1	12/16/16 16:23	12/22/16 15:35	83-32-9	
Acenaphthylene	295	ug/kg	1.2	0.36	1	12/16/16 16:23	12/22/16 15:35	208-96-8	
Anthracene	1150	ug/kg	39.8	12.0	20	12/16/16 16:23	12/23/16 14:57	120-12-7	
Benzo(a)anthracene	1170	ug/kg	41.1	12.4	20	12/16/16 16:23	12/23/16 14:57	56-55-3	
Benzo(a)pyrene	1060	ug/kg	30.4	9.1	20	12/16/16 16:23	12/23/16 14:57	50-32-8	
Benzo(b)fluoranthene	771	ug/kg	50.3	15.1	20	12/16/16 16:23	12/23/16 14:57	205-99-2	
Benzo(g,h,i)perylene	434	ug/kg	2.0	0.60	1	12/16/16 16:23	12/22/16 15:35	191-24-2	
Benzo(k)fluoranthene	235	ug/kg	2.2	0.65	1	12/16/16 16:23	12/22/16 15:35	207-08-9	
Chrysene	866	ug/kg	48.7	14.6	20	12/16/16 16:23	12/23/16 14:57	218-01-9	
Dibenz(a,h)anthracene	114	ug/kg	1.4	0.43	1	12/16/16 16:23	12/22/16 15:35	53-70-3	
Fluoranthene	1680	ug/kg	68.8	20.7	20	12/16/16 16:23	12/23/16 14:57	206-44-0	
Fluorene	1130	ug/kg	33.7	10.1	20	12/16/16 16:23	12/23/16 14:57	86-73-7	
Indeno(1,2,3-cd)pyrene	322	ug/kg	3.3	0.99	1	12/16/16 16:23	12/22/16 15:35	193-39-5	
Naphthalene	8090	ug/kg	31.3	9.4	20	12/16/16 16:23	12/23/16 14:57	91-20-3	
Phenanthrene	4570	ug/kg	35.3	10.6	20	12/16/16 16:23	12/23/16 14:57	85-01-8	
Pyrene	2180	ug/kg	72.7	21.8	20	12/16/16 16:23	12/23/16 14:57	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	85	%	41-125		1	12/16/16 16:23	12/22/16 15:35	321-60-8	
p-Terphenyl-d14 (S)	104	%	39-125		1	12/16/16 16:23	12/22/16 15:35	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1500	ug/kg	1500	449	1	12/15/16 11:21	12/15/16 19:10	67-64-1	
Allyl chloride	<196	ug/kg	196	58.7	1	12/15/16 11:21	12/15/16 19:10	107-05-1	
Benzene	16000	ug/kg	197	59.2	10	12/15/16 11:21	12/16/16 11:47	71-43-2	
Bromobenzene	<58.4	ug/kg	58.4	17.5	1	12/15/16 11:21	12/15/16 19:10	108-86-1	
Bromochloromethane	<67.9	ug/kg	67.9	20.4	1	12/15/16 11:21	12/15/16 19:10	74-97-5	
Bromodichloromethane	<63.8	ug/kg	63.8	19.2	1	12/15/16 11:21	12/15/16 19:10	75-27-4	
Bromoform	<197	ug/kg	197	59.0	1	12/15/16 11:21	12/15/16 19:10	75-25-2	
Bromomethane	<231	ug/kg	231	69.4	1	12/15/16 11:21	12/15/16 19:10	74-83-9	
2-Butanone (MEK)	<301	ug/kg	301	90.4	1	12/15/16 11:21	12/15/16 19:10	78-93-3	
n-Butylbenzene	107	ug/kg	55.2	16.6	1	12/15/16 11:21	12/15/16 19:10	104-51-8	
sec-Butylbenzene	<53.8	ug/kg	53.8	16.2	1	12/15/16 11:21	12/15/16 19:10	135-98-8	
tert-Butylbenzene	<72.0	ug/kg	72.0	21.6	1	12/15/16 11:21	12/15/16 19:10	98-06-6	
Carbon tetrachloride	<71.6	ug/kg	71.6	21.5	1	12/15/16 11:21	12/15/16 19:10	56-23-5	
Chlorobenzene	<39.7	ug/kg	39.7	11.9	1	12/15/16 11:21	12/15/16 19:10	108-90-7	
Chloroethane	<360	ug/kg	360	108	1	12/15/16 11:21	12/15/16 19:10	75-00-3	
Chloroform	<111	ug/kg	111	33.3	1	12/15/16 11:21	12/15/16 19:10	67-66-3	
Chloromethane	<110	ug/kg	110	33.1	1	12/15/16 11:21	12/15/16 19:10	74-87-3	
2-Chlorotoluene	<62.9	ug/kg	62.9	18.9	1	12/15/16 11:21	12/15/16 19:10	95-49-8	
4-Chlorotoluene	<59.7	ug/kg	59.7	17.9	1	12/15/16 11:21	12/15/16 19:10	106-43-4	
1,2-Dibromo-3-chloropropane	<134	ug/kg	134	134	1	12/15/16 11:21	12/15/16 19:10	96-12-8	
Dibromochloromethane	<196	ug/kg	196	58.7	1	12/15/16 11:21	12/15/16 19:10	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: **GP18\_5-7** Lab ID: **10373306026** Collected: 12/13/16 17:05 Received: 12/14/16 18:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<25.7	ug/kg	25.7	25.7	1	12/15/16 11:21	12/15/16 19:10	106-93-4	
Dibromomethane	<88.9	ug/kg	88.9	26.7	1	12/15/16 11:21	12/15/16 19:10	74-95-3	
1,2-Dichlorobenzene	<13.2	ug/kg	13.2	13.2	1	12/15/16 11:21	12/15/16 19:10	95-50-1	
1,3-Dichlorobenzene	<20.1	ug/kg	20.1	13.2	1	12/15/16 11:21	12/15/16 19:10	541-73-1	
1,4-Dichlorobenzene	<66.1	ug/kg	66.1	19.9	1	12/15/16 11:21	12/15/16 19:10	106-46-7	
Dichlorodifluoromethane	<69.8	ug/kg	69.8	21.0	1	12/15/16 11:21	12/15/16 19:10	75-71-8	CL
1,1-Dichloroethane	<26.6	ug/kg	26.6	26.6	1	12/15/16 11:21	12/15/16 19:10	75-34-3	
1,2-Dichloroethane	<21.6	ug/kg	21.6	21.6	1	12/15/16 11:21	12/15/16 19:10	107-06-2	
1,1-Dichloroethene	<17.4	ug/kg	17.4	17.4	1	12/15/16 11:21	12/15/16 19:10	75-35-4	
cis-1,2-Dichloroethene	<84.8	ug/kg	84.8	25.5	1	12/15/16 11:21	12/15/16 19:10	156-59-2	
trans-1,2-Dichloroethene	<110	ug/kg	110	33.0	1	12/15/16 11:21	12/15/16 19:10	156-60-5	
Dichlorofluoromethane	<625	ug/kg	625	188	1	12/15/16 11:21	12/15/16 19:10	75-43-4	
1,2-Dichloropropane	<23.7	ug/kg	23.7	23.7	1	12/15/16 11:21	12/15/16 19:10	78-87-5	
1,3-Dichloropropane	<81.6	ug/kg	81.6	24.5	1	12/15/16 11:21	12/15/16 19:10	142-28-9	
2,2-Dichloropropane	<72.5	ug/kg	72.5	21.8	1	12/15/16 11:21	12/15/16 19:10	594-20-7	
1,1-Dichloropropene	<20.7	ug/kg	20.7	20.7	1	12/15/16 11:21	12/15/16 19:10	563-58-6	
cis-1,3-Dichloropropene	<104	ug/kg	104	31.2	1	12/15/16 11:21	12/15/16 19:10	10061-01-5	
trans-1,3-Dichloropropene	<77.5	ug/kg	77.5	23.3	1	12/15/16 11:21	12/15/16 19:10	10061-02-6	
Diethyl ether (Ethyl ether)	<93.9	ug/kg	93.9	28.2	1	12/15/16 11:21	12/15/16 19:10	60-29-7	
Ethylbenzene	2200	ug/kg	72.5	21.8	1	12/15/16 11:21	12/15/16 19:10	100-41-4	
Hexachloro-1,3-butadiene	<214	ug/kg	214	64.4	1	12/15/16 11:21	12/15/16 19:10	87-68-3	
Isopropylbenzene (Cumene)	88.8	ug/kg	81.2	24.4	1	12/15/16 11:21	12/15/16 19:10	98-82-8	
p-Isopropyltoluene	85.7	ug/kg	37.8	11.4	1	12/15/16 11:21	12/15/16 19:10	99-87-6	
Methylene Chloride	<422	ug/kg	422	127	1	12/15/16 11:21	12/15/16 19:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	<151	ug/kg	151	45.3	1	12/15/16 11:21	12/15/16 19:10	108-10-1	
Methyl-tert-butyl ether	<42.7	ug/kg	42.7	12.8	1	12/15/16 11:21	12/15/16 19:10	1634-04-4	
Naphthalene	52800	ug/kg	552	166	10	12/15/16 11:21	12/16/16 11:47	91-20-3	
n-Propylbenzene	468	ug/kg	67.9	20.4	1	12/15/16 11:21	12/15/16 19:10	103-65-1	
Styrene	<59.3	ug/kg	59.3	17.8	1	12/15/16 11:21	12/15/16 19:10	100-42-5	
1,1,1,2-Tetrachloroethane	<27.1	ug/kg	27.1	27.1	1	12/15/16 11:21	12/15/16 19:10	630-20-6	
1,1,2,2-Tetrachloroethane	<15.2	ug/kg	15.2	15.2	1	12/15/16 11:21	12/15/16 19:10	79-34-5	
Tetrachloroethene	<87.1	ug/kg	87.1	26.2	1	12/15/16 11:21	12/15/16 19:10	127-18-4	
Tetrahydrofuran	<1130	ug/kg	1130	340	1	12/15/16 11:21	12/15/16 19:10	109-99-9	
Toluene	11500	ug/kg	72.5	21.8	1	12/15/16 11:21	12/15/16 19:10	108-88-3	
1,2,3-Trichlorobenzene	<19.7	ug/kg	19.7	19.7	1	12/15/16 11:21	12/15/16 19:10	87-61-6	
1,2,4-Trichlorobenzene	<21.1	ug/kg	21.1	21.1	1	12/15/16 11:21	12/15/16 19:10	120-82-1	
1,1,1-Trichloroethane	<28.6	ug/kg	28.6	28.6	1	12/15/16 11:21	12/15/16 19:10	71-55-6	
1,1,2-Trichloroethane	<14.8	ug/kg	14.8	14.8	1	12/15/16 11:21	12/15/16 19:10	79-00-5	
Trichloroethene	<65.2	ug/kg	65.2	19.6	1	12/15/16 11:21	12/15/16 19:10	79-01-6	
Trichlorofluoromethane	<229	ug/kg	229	68.7	1	12/15/16 11:21	12/15/16 19:10	75-69-4	
1,2,3-Trichloropropane	<70.9	ug/kg	70.9	70.9	1	12/15/16 11:21	12/15/16 19:10	96-18-4	
1,1,2-Trichlorotrifluoroethane	<164	ug/kg	164	49.3	1	12/15/16 11:21	12/15/16 19:10	76-13-1	
1,2,4-Trimethylbenzene	4150	ug/kg	15.1	15.1	1	12/15/16 11:21	12/15/16 19:10	95-63-6	
1,3,5-Trimethylbenzene	1330	ug/kg	52.4	15.7	1	12/15/16 11:21	12/15/16 19:10	108-67-8	
Vinyl chloride	<29.3	ug/kg	29.3	8.8	1	12/15/16 11:21	12/15/16 19:10	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: GP18\_5-7**      **Lab ID: 10373306026**      Collected: 12/13/16 17:05      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>13900</b>	ug/kg	182	54.8	1	12/15/16 11:21	12/15/16 19:10	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	91	%	75-129		1	12/15/16 11:21	12/15/16 19:10	17060-07-0	
Toluene-d8 (S)	96	%	75-125		1	12/15/16 11:21	12/15/16 19:10	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		1	12/15/16 11:21	12/15/16 19:10	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: GP18\_10-12 Lab ID: 10373306027 Collected: 12/13/16 17:10 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	24.4	%	0.10	0.10	1		12/28/16 14:35		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	21.2	ug/kg	1.7	0.51	1	12/16/16 16:23	12/22/16 15:56	83-32-9	
Acenaphthylene	36.4	ug/kg	1.2	0.36	1	12/16/16 16:23	12/22/16 15:56	208-96-8	
Anthracene	118	ug/kg	2.0	0.60	1	12/16/16 16:23	12/22/16 15:56	120-12-7	
Benzo(a)anthracene	159	ug/kg	2.1	0.62	1	12/16/16 16:23	12/22/16 15:56	56-55-3	
Benzo(a)pyrene	138	ug/kg	1.5	0.46	1	12/16/16 16:23	12/22/16 15:56	50-32-8	
Benzo(b)fluoranthene	106	ug/kg	2.5	0.75	1	12/16/16 16:23	12/22/16 15:56	205-99-2	
Benzo(g,h,i)perylene	67.6	ug/kg	2.0	0.60	1	12/16/16 16:23	12/22/16 15:56	191-24-2	
Benzo(k)fluoranthene	37.4	ug/kg	2.2	0.65	1	12/16/16 16:23	12/22/16 15:56	207-08-9	
Chrysene	128	ug/kg	2.4	0.73	1	12/16/16 16:23	12/22/16 15:56	218-01-9	
Dibenz(a,h)anthracene	16.2	ug/kg	1.4	0.43	1	12/16/16 16:23	12/22/16 15:56	53-70-3	
Fluoranthene	254	ug/kg	3.4	1.0	1	12/16/16 16:23	12/22/16 15:56	206-44-0	
Fluorene	135	ug/kg	1.7	0.50	1	12/16/16 16:23	12/22/16 15:56	86-73-7	
Indeno(1,2,3-cd)pyrene	51.8	ug/kg	3.3	0.99	1	12/16/16 16:23	12/22/16 15:56	193-39-5	
Naphthalene	1700	ug/kg	7.8	2.3	5	12/16/16 16:23	12/23/16 15:17	91-20-3	
Phenanthrene	695	ug/kg	8.8	2.6	5	12/16/16 16:23	12/23/16 15:17	85-01-8	
Pyrene	340	ug/kg	3.6	1.1	1	12/16/16 16:23	12/22/16 15:56	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	75	%	41-125		1	12/16/16 16:23	12/22/16 15:56	321-60-8	
p-Terphenyl-d14 (S)	84	%	39-125		1	12/16/16 16:23	12/22/16 15:56	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1490	ug/kg	1490	448	1	12/15/16 11:21	12/15/16 19:59	67-64-1	
Allyl chloride	<195	ug/kg	195	58.6	1	12/15/16 11:21	12/15/16 19:59	107-05-1	
Benzene	16100	ug/kg	19.6	5.9	1	12/15/16 11:21	12/15/16 19:59	71-43-2	
Bromobenzene	<58.2	ug/kg	58.2	17.5	1	12/15/16 11:21	12/15/16 19:59	108-86-1	
Bromochloromethane	<67.8	ug/kg	67.8	20.3	1	12/15/16 11:21	12/15/16 19:59	74-97-5	
Bromodichloromethane	<63.7	ug/kg	63.7	19.1	1	12/15/16 11:21	12/15/16 19:59	75-27-4	
Bromoform	<196	ug/kg	196	58.9	1	12/15/16 11:21	12/15/16 19:59	75-25-2	
Bromomethane	<231	ug/kg	231	69.2	1	12/15/16 11:21	12/15/16 19:59	74-83-9	
2-Butanone (MEK)	<300	ug/kg	300	90.1	1	12/15/16 11:21	12/15/16 19:59	78-93-3	
n-Butylbenzene	<55.0	ug/kg	55.0	16.5	1	12/15/16 11:21	12/15/16 19:59	104-51-8	
sec-Butylbenzene	<53.7	ug/kg	53.7	16.1	1	12/15/16 11:21	12/15/16 19:59	135-98-8	
tert-Butylbenzene	<71.8	ug/kg	71.8	21.6	1	12/15/16 11:21	12/15/16 19:59	98-06-6	
Carbon tetrachloride	<71.4	ug/kg	71.4	21.4	1	12/15/16 11:21	12/15/16 19:59	56-23-5	
Chlorobenzene	<39.6	ug/kg	39.6	11.9	1	12/15/16 11:21	12/15/16 19:59	108-90-7	
Chloroethane	<359	ug/kg	359	108	1	12/15/16 11:21	12/15/16 19:59	75-00-3	
Chloroform	<110	ug/kg	110	33.2	1	12/15/16 11:21	12/15/16 19:59	67-66-3	
Chloromethane	<110	ug/kg	110	33.0	1	12/15/16 11:21	12/15/16 19:59	74-87-3	
2-Chlorotoluene	<62.8	ug/kg	62.8	18.8	1	12/15/16 11:21	12/15/16 19:59	95-49-8	
4-Chlorotoluene	<59.6	ug/kg	59.6	17.9	1	12/15/16 11:21	12/15/16 19:59	106-43-4	
1,2-Dibromo-3-chloropropane	<133	ug/kg	133	133	1	12/15/16 11:21	12/15/16 19:59	96-12-8	
Dibromochloromethane	<195	ug/kg	195	58.6	1	12/15/16 11:21	12/15/16 19:59	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP18\_10-12**      **Lab ID: 10373306027**      Collected: 12/13/16 17:10      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<25.7	ug/kg	25.7	25.7	1	12/15/16 11:21	12/15/16 19:59	106-93-4	
Dibromomethane	<88.7	ug/kg	88.7	26.6	1	12/15/16 11:21	12/15/16 19:59	74-95-3	
1,2-Dichlorobenzene	<13.2	ug/kg	13.2	13.2	1	12/15/16 11:21	12/15/16 19:59	95-50-1	
1,3-Dichlorobenzene	<20.1	ug/kg	20.1	13.2	1	12/15/16 11:21	12/15/16 19:59	541-73-1	
1,4-Dichlorobenzene	<65.9	ug/kg	65.9	19.8	1	12/15/16 11:21	12/15/16 19:59	106-46-7	
Dichlorodifluoromethane	<69.6	ug/kg	69.6	20.9	1	12/15/16 11:21	12/15/16 19:59	75-71-8	CL
1,1-Dichloroethane	<26.5	ug/kg	26.5	26.5	1	12/15/16 11:21	12/15/16 19:59	75-34-3	
1,2-Dichloroethane	<21.6	ug/kg	21.6	21.6	1	12/15/16 11:21	12/15/16 19:59	107-06-2	
1,1-Dichloroethene	<17.3	ug/kg	17.3	17.3	1	12/15/16 11:21	12/15/16 19:59	75-35-4	
cis-1,2-Dichloroethene	<84.6	ug/kg	84.6	25.4	1	12/15/16 11:21	12/15/16 19:59	156-59-2	
trans-1,2-Dichloroethene	<110	ug/kg	110	32.9	1	12/15/16 11:21	12/15/16 19:59	156-60-5	
Dichlorofluoromethane	<623	ug/kg	623	187	1	12/15/16 11:21	12/15/16 19:59	75-43-4	
1,2-Dichloropropane	<23.6	ug/kg	23.6	23.6	1	12/15/16 11:21	12/15/16 19:59	78-87-5	
1,3-Dichloropropane	<81.4	ug/kg	81.4	24.4	1	12/15/16 11:21	12/15/16 19:59	142-28-9	
2,2-Dichloropropane	<72.3	ug/kg	72.3	21.7	1	12/15/16 11:21	12/15/16 19:59	594-20-7	
1,1-Dichloropropene	<20.6	ug/kg	20.6	20.6	1	12/15/16 11:21	12/15/16 19:59	563-58-6	
cis-1,3-Dichloropropene	<104	ug/kg	104	31.1	1	12/15/16 11:21	12/15/16 19:59	10061-01-5	
trans-1,3-Dichloropropene	<77.3	ug/kg	77.3	23.2	1	12/15/16 11:21	12/15/16 19:59	10061-02-6	
Diethyl ether (Ethyl ether)	<93.7	ug/kg	93.7	28.1	1	12/15/16 11:21	12/15/16 19:59	60-29-7	
Ethylbenzene	986	ug/kg	72.3	21.7	1	12/15/16 11:21	12/15/16 19:59	100-41-4	
Hexachloro-1,3-butadiene	<214	ug/kg	214	64.2	1	12/15/16 11:21	12/15/16 19:59	87-68-3	
Isopropylbenzene (Cumene)	<80.9	ug/kg	80.9	24.3	1	12/15/16 11:21	12/15/16 19:59	98-82-8	
p-Isopropyltoluene	<37.7	ug/kg	37.7	11.3	1	12/15/16 11:21	12/15/16 19:59	99-87-6	
Methylene Chloride	<421	ug/kg	421	126	1	12/15/16 11:21	12/15/16 19:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	<151	ug/kg	151	45.2	1	12/15/16 11:21	12/15/16 19:59	108-10-1	
Methyl-tert-butyl ether	<42.6	ug/kg	42.6	12.8	1	12/15/16 11:21	12/15/16 19:59	1634-04-4	
Naphthalene	22600	ug/kg	275	82.6	5	12/15/16 11:21	12/16/16 11:31	91-20-3	
n-Propylbenzene	206	ug/kg	67.8	20.3	1	12/15/16 11:21	12/15/16 19:59	103-65-1	
Styrene	<59.1	ug/kg	59.1	17.8	1	12/15/16 11:21	12/15/16 19:59	100-42-5	
1,1,1,2-Tetrachloroethane	<27.0	ug/kg	27.0	27.0	1	12/15/16 11:21	12/15/16 19:59	630-20-6	
1,1,1,2,2-Tetrachloroethane	<15.2	ug/kg	15.2	15.2	1	12/15/16 11:21	12/15/16 19:59	79-34-5	
Tetrachloroethene	<86.9	ug/kg	86.9	26.1	1	12/15/16 11:21	12/15/16 19:59	127-18-4	
Tetrahydrofuran	<1130	ug/kg	1130	339	1	12/15/16 11:21	12/15/16 19:59	109-99-9	
Toluene	5790	ug/kg	72.3	21.7	1	12/15/16 11:21	12/15/16 19:59	108-88-3	
1,2,3-Trichlorobenzene	<19.7	ug/kg	19.7	19.7	1	12/15/16 11:21	12/15/16 19:59	87-61-6	
1,2,4-Trichlorobenzene	<21.0	ug/kg	21.0	21.0	1	12/15/16 11:21	12/15/16 19:59	120-82-1	
1,1,1-Trichloroethane	<28.5	ug/kg	28.5	28.5	1	12/15/16 11:21	12/15/16 19:59	71-55-6	
1,1,2-Trichloroethane	<14.7	ug/kg	14.7	14.7	1	12/15/16 11:21	12/15/16 19:59	79-00-5	
Trichloroethene	<65.0	ug/kg	65.0	19.5	1	12/15/16 11:21	12/15/16 19:59	79-01-6	
Trichlorofluoromethane	<228	ug/kg	228	68.6	1	12/15/16 11:21	12/15/16 19:59	75-69-4	
1,2,3-Trichloropropane	<70.7	ug/kg	70.7	70.7	1	12/15/16 11:21	12/15/16 19:59	96-18-4	
1,1,2-Trichlorotrifluoroethane	<164	ug/kg	164	49.2	1	12/15/16 11:21	12/15/16 19:59	76-13-1	
1,2,4-Trimethylbenzene	1720	ug/kg	15.0	15.0	1	12/15/16 11:21	12/15/16 19:59	95-63-6	
1,3,5-Trimethylbenzene	549	ug/kg	52.3	15.7	1	12/15/16 11:21	12/15/16 19:59	108-67-8	
Vinyl chloride	<29.2	ug/kg	29.2	8.8	1	12/15/16 11:21	12/15/16 19:59	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: GP18\_10-12**      **Lab ID: 10373306027**      Collected: 12/13/16 17:10      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>6520</b>	ug/kg	182	54.6	1	12/15/16 11:21	12/15/16 19:59	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	90	%	75-129		1	12/15/16 11:21	12/15/16 19:59	17060-07-0	
Toluene-d8 (S)	96	%	75-125		1	12/15/16 11:21	12/15/16 19:59	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/15/16 11:21	12/15/16 19:59	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP13\_10-15D**      **Lab ID: 10373306028**      Collected: 12/13/16 14:10      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>29.9</b>	%	0.10	0.10	1		12/28/16 14:35		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<b>12.6</b>	ug/kg	1.8	0.55	1	12/16/16 16:23	12/22/16 16:16	83-32-9	
Acenaphthylene	<b>30.7</b>	ug/kg	1.3	0.38	1	12/16/16 16:23	12/22/16 16:16	208-96-8	
Anthracene	<b>78.5</b>	ug/kg	2.1	0.64	1	12/16/16 16:23	12/22/16 16:16	120-12-7	
Benzo(a)anthracene	<b>58.0</b>	ug/kg	2.2	0.66	1	12/16/16 16:23	12/22/16 16:16	56-55-3	
Benzo(a)pyrene	<b>55.3</b>	ug/kg	1.6	0.49	1	12/16/16 16:23	12/22/16 16:16	50-32-8	
Benzo(b)fluoranthene	<b>40.6</b>	ug/kg	2.7	0.81	1	12/16/16 16:23	12/22/16 16:16	205-99-2	
Benzo(g,h,i)perylene	<b>27.3</b>	ug/kg	2.2	0.65	1	12/16/16 16:23	12/22/16 16:16	191-24-2	
Benzo(k)fluoranthene	<b>16.5</b>	ug/kg	2.3	0.69	1	12/16/16 16:23	12/22/16 16:16	207-08-9	
Chrysene	<b>45.1</b>	ug/kg	2.6	0.78	1	12/16/16 16:23	12/22/16 16:16	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;1.5</b>	ug/kg	1.5	0.46	1	12/16/16 16:23	12/22/16 16:16	53-70-3	
Fluoranthene	<b>141</b>	ug/kg	3.7	1.1	1	12/16/16 16:23	12/22/16 16:16	206-44-0	
Fluorene	<b>73.3</b>	ug/kg	1.8	0.54	1	12/16/16 16:23	12/22/16 16:16	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>21.1</b>	ug/kg	3.5	1.1	1	12/16/16 16:23	12/22/16 16:16	193-39-5	
Naphthalene	<b>1630</b>	ug/kg	8.4	2.5	5	12/16/16 16:23	12/23/16 15:38	91-20-3	
Phenanthrene	<b>323</b>	ug/kg	1.9	0.57	1	12/16/16 16:23	12/22/16 16:16	85-01-8	
Pyrene	<b>167</b>	ug/kg	3.9	1.2	1	12/16/16 16:23	12/22/16 16:16	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	67	%	41-125		1	12/16/16 16:23	12/22/16 16:16	321-60-8	
p-Terphenyl-d14 (S)	71	%	39-125		1	12/16/16 16:23	12/22/16 16:16	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<b>&lt;2250</b>	ug/kg	2250	677	1	12/15/16 11:21	12/15/16 19:27	67-64-1	
Allyl chloride	<b>&lt;295</b>	ug/kg	295	88.6	1	12/15/16 11:21	12/15/16 19:27	107-05-1	
Benzene	<b>8560</b>	ug/kg	29.7	8.9	1	12/15/16 11:21	12/15/16 19:27	71-43-2	
Bromobenzene	<b>&lt;88.0</b>	ug/kg	88.0	26.4	1	12/15/16 11:21	12/15/16 19:27	108-86-1	
Bromochloromethane	<b>&lt;102</b>	ug/kg	102	30.8	1	12/15/16 11:21	12/15/16 19:27	74-97-5	
Bromodichloromethane	<b>&lt;96.2</b>	ug/kg	96.2	28.9	1	12/15/16 11:21	12/15/16 19:27	75-27-4	
Bromoform	<b>&lt;296</b>	ug/kg	296	89.0	1	12/15/16 11:21	12/15/16 19:27	75-25-2	
Bromomethane	<b>&lt;349</b>	ug/kg	349	105	1	12/15/16 11:21	12/15/16 19:27	74-83-9	
2-Butanone (MEK)	<b>&lt;454</b>	ug/kg	454	136	1	12/15/16 11:21	12/15/16 19:27	78-93-3	
n-Butylbenzene	<b>204</b>	ug/kg	83.2	25.0	1	12/15/16 11:21	12/15/16 19:27	104-51-8	
sec-Butylbenzene	<b>&lt;81.1</b>	ug/kg	81.1	24.4	1	12/15/16 11:21	12/15/16 19:27	135-98-8	
tert-Butylbenzene	<b>&lt;109</b>	ug/kg	109	32.6	1	12/15/16 11:21	12/15/16 19:27	98-06-6	
Carbon tetrachloride	<b>&lt;108</b>	ug/kg	108	32.4	1	12/15/16 11:21	12/15/16 19:27	56-23-5	
Chlorobenzene	<b>&lt;59.8</b>	ug/kg	59.8	18.0	1	12/15/16 11:21	12/15/16 19:27	108-90-7	
Chloroethane	<b>&lt;543</b>	ug/kg	543	163	1	12/15/16 11:21	12/15/16 19:27	75-00-3	
Chloroform	<b>&lt;167</b>	ug/kg	167	50.2	1	12/15/16 11:21	12/15/16 19:27	67-66-3	
Chloromethane	<b>&lt;166</b>	ug/kg	166	50.0	1	12/15/16 11:21	12/15/16 19:27	74-87-3	
2-Chlorotoluene	<b>&lt;94.9</b>	ug/kg	94.9	28.5	1	12/15/16 11:21	12/15/16 19:27	95-49-8	
4-Chlorotoluene	<b>&lt;90.0</b>	ug/kg	90.0	27.0	1	12/15/16 11:21	12/15/16 19:27	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;201</b>	ug/kg	201	201	1	12/15/16 11:21	12/15/16 19:27	96-12-8	
Dibromochloromethane	<b>&lt;295</b>	ug/kg	295	88.6	1	12/15/16 11:21	12/15/16 19:27	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP13\_10-15D**      **Lab ID: 10373306028**      Collected: 12/13/16 14:10      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<38.8	ug/kg	38.8	38.8	1	12/15/16 11:21	12/15/16 19:27	106-93-4	
Dibromomethane	<134	ug/kg	134	40.3	1	12/15/16 11:21	12/15/16 19:27	74-95-3	
1,2-Dichlorobenzene	<19.9	ug/kg	19.9	19.9	1	12/15/16 11:21	12/15/16 19:27	95-50-1	
1,3-Dichlorobenzene	<30.3	ug/kg	30.3	19.9	1	12/15/16 11:21	12/15/16 19:27	541-73-1	
1,4-Dichlorobenzene	<99.7	ug/kg	99.7	29.9	1	12/15/16 11:21	12/15/16 19:27	106-46-7	
Dichlorodifluoromethane	<105	ug/kg	105	31.6	1	12/15/16 11:21	12/15/16 19:27	75-71-8	CL
1,1-Dichloroethane	<40.0	ug/kg	40.0	40.0	1	12/15/16 11:21	12/15/16 19:27	75-34-3	
1,2-Dichloroethane	<32.6	ug/kg	32.6	32.6	1	12/15/16 11:21	12/15/16 19:27	107-06-2	
1,1-Dichloroethene	<26.2	ug/kg	26.2	26.2	1	12/15/16 11:21	12/15/16 19:27	75-35-4	
cis-1,2-Dichloroethene	<128	ug/kg	128	38.4	1	12/15/16 11:21	12/15/16 19:27	156-59-2	
trans-1,2-Dichloroethene	<166	ug/kg	166	49.7	1	12/15/16 11:21	12/15/16 19:27	156-60-5	
Dichlorofluoromethane	<942	ug/kg	942	283	1	12/15/16 11:21	12/15/16 19:27	75-43-4	
1,2-Dichloropropane	<35.7	ug/kg	35.7	35.7	1	12/15/16 11:21	12/15/16 19:27	78-87-5	
1,3-Dichloropropane	<123	ug/kg	123	36.9	1	12/15/16 11:21	12/15/16 19:27	142-28-9	
2,2-Dichloropropane	<109	ug/kg	109	32.8	1	12/15/16 11:21	12/15/16 19:27	594-20-7	
1,1-Dichloropropene	<31.2	ug/kg	31.2	31.2	1	12/15/16 11:21	12/15/16 19:27	563-58-6	
cis-1,3-Dichloropropene	<157	ug/kg	157	47.1	1	12/15/16 11:21	12/15/16 19:27	10061-01-5	
trans-1,3-Dichloropropene	<117	ug/kg	117	35.1	1	12/15/16 11:21	12/15/16 19:27	10061-02-6	
Diethyl ether (Ethyl ether)	<142	ug/kg	142	42.5	1	12/15/16 11:21	12/15/16 19:27	60-29-7	
Ethylbenzene	2230	ug/kg	109	32.8	1	12/15/16 11:21	12/15/16 19:27	100-41-4	
Hexachloro-1,3-butadiene	<323	ug/kg	323	97.0	1	12/15/16 11:21	12/15/16 19:27	87-68-3	
Isopropylbenzene (Cumene)	<122	ug/kg	122	36.7	1	12/15/16 11:21	12/15/16 19:27	98-82-8	
p-Isopropyltoluene	103	ug/kg	57.1	17.1	1	12/15/16 11:21	12/15/16 19:27	99-87-6	
Methylene Chloride	<637	ug/kg	637	191	1	12/15/16 11:21	12/15/16 19:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	<228	ug/kg	228	68.3	1	12/15/16 11:21	12/15/16 19:27	108-10-1	
Methyl-tert-butyl ether	<64.3	ug/kg	64.3	19.3	1	12/15/16 11:21	12/15/16 19:27	1634-04-4	
Naphthalene	94200	ug/kg	2080	624	25	12/15/16 11:21	12/16/16 12:04	91-20-3	
n-Propylbenzene	633	ug/kg	102	30.8	1	12/15/16 11:21	12/15/16 19:27	103-65-1	
Styrene	570	ug/kg	89.4	26.8	1	12/15/16 11:21	12/15/16 19:27	100-42-5	
1,1,1,2-Tetrachloroethane	<40.9	ug/kg	40.9	40.9	1	12/15/16 11:21	12/15/16 19:27	630-20-6	
1,1,2,2-Tetrachloroethane	<22.9	ug/kg	22.9	22.9	1	12/15/16 11:21	12/15/16 19:27	79-34-5	
Tetrachloroethene	<131	ug/kg	131	39.4	1	12/15/16 11:21	12/15/16 19:27	127-18-4	
Tetrahydrofuran	<1700	ug/kg	1700	512	1	12/15/16 11:21	12/15/16 19:27	109-99-9	
Toluene	5620	ug/kg	109	32.8	1	12/15/16 11:21	12/15/16 19:27	108-88-3	
1,2,3-Trichlorobenzene	<29.7	ug/kg	29.7	29.7	1	12/15/16 11:21	12/15/16 19:27	87-61-6	
1,2,4-Trichlorobenzene	<31.8	ug/kg	31.8	31.8	1	12/15/16 11:21	12/15/16 19:27	120-82-1	
1,1,1-Trichloroethane	<43.1	ug/kg	43.1	43.1	1	12/15/16 11:21	12/15/16 19:27	71-55-6	
1,1,2-Trichloroethane	<22.3	ug/kg	22.3	22.3	1	12/15/16 11:21	12/15/16 19:27	79-00-5	
Trichloroethene	<98.3	ug/kg	98.3	29.5	1	12/15/16 11:21	12/15/16 19:27	79-01-6	
Trichlorofluoromethane	<345	ug/kg	345	104	1	12/15/16 11:21	12/15/16 19:27	75-69-4	
1,2,3-Trichloropropane	<107	ug/kg	107	107	1	12/15/16 11:21	12/15/16 19:27	96-18-4	
1,1,2-Trichlorotrifluoroethane	<247	ug/kg	247	74.3	1	12/15/16 11:21	12/15/16 19:27	76-13-1	
1,2,4-Trimethylbenzene	6300	ug/kg	22.7	22.7	1	12/15/16 11:21	12/15/16 19:27	95-63-6	
1,3,5-Trimethylbenzene	2060	ug/kg	79.0	23.7	1	12/15/16 11:21	12/15/16 19:27	108-67-8	
Vinyl chloride	<44.1	ug/kg	44.1	13.3	1	12/15/16 11:21	12/15/16 19:27	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: GP13\_10-15D**      **Lab ID: 10373306028**      Collected: 12/13/16 14:10      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>13300</b>	ug/kg	275	82.6	1	12/15/16 11:21	12/15/16 19:27	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	92	%	75-129		1	12/15/16 11:21	12/15/16 19:27	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/15/16 11:21	12/15/16 19:27	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/15/16 11:21	12/15/16 19:27	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP10\_5-7D**      **Lab ID: 10373306029**      Collected: 12/13/16 12:15      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	22.2	%	0.10	0.10	1		12/28/16 14:35		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.50	1	12/16/16 16:23	12/22/16 16:37	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.35	1	12/16/16 16:23	12/22/16 16:37	208-96-8	
Anthracene	<1.9	ug/kg	1.9	0.58	1	12/16/16 16:23	12/22/16 16:37	120-12-7	
Benzo(a)anthracene	<2.0	ug/kg	2.0	0.60	1	12/16/16 16:23	12/22/16 16:37	56-55-3	
Benzo(a)pyrene	<1.5	ug/kg	1.5	0.44	1	12/16/16 16:23	12/22/16 16:37	50-32-8	
Benzo(b)fluoranthene	<2.4	ug/kg	2.4	0.73	1	12/16/16 16:23	12/22/16 16:37	205-99-2	
Benzo(g,h,i)perylene	<1.9	ug/kg	1.9	0.58	1	12/16/16 16:23	12/22/16 16:37	191-24-2	
Benzo(k)fluoranthene	<2.1	ug/kg	2.1	0.63	1	12/16/16 16:23	12/22/16 16:37	207-08-9	
Chrysene	<2.4	ug/kg	2.4	0.71	1	12/16/16 16:23	12/22/16 16:37	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.42	1	12/16/16 16:23	12/22/16 16:37	53-70-3	
Fluoranthene	<3.3	ug/kg	3.3	1.0	1	12/16/16 16:23	12/22/16 16:37	206-44-0	
Fluorene	<1.6	ug/kg	1.6	0.49	1	12/16/16 16:23	12/22/16 16:37	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.2	ug/kg	3.2	0.96	1	12/16/16 16:23	12/22/16 16:37	193-39-5	
Naphthalene	18.7	ug/kg	1.5	0.46	1	12/16/16 16:23	12/22/16 16:37	91-20-3	
Phenanthrene	<1.7	ug/kg	1.7	0.51	1	12/16/16 16:23	12/22/16 16:37	85-01-8	
Pyrene	<3.5	ug/kg	3.5	1.1	1	12/16/16 16:23	12/22/16 16:37	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	81	%	41-125		1	12/16/16 16:23	12/22/16 16:37	321-60-8	
p-Terphenyl-d14 (S)	76	%	39-125		1	12/16/16 16:23	12/22/16 16:37	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1770	ug/kg	1770	530	1	12/15/16 11:21	12/16/16 11:15	67-64-1	
Allyl chloride	<231	ug/kg	231	69.3	1	12/15/16 11:21	12/16/16 11:15	107-05-1	
Benzene	1490	ug/kg	23.2	7.0	1	12/15/16 11:21	12/16/16 11:15	71-43-2	
Bromobenzene	<68.9	ug/kg	68.9	20.7	1	12/15/16 11:21	12/16/16 11:15	108-86-1	
Bromochloromethane	<80.2	ug/kg	80.2	24.1	1	12/15/16 11:21	12/16/16 11:15	74-97-5	
Bromodichloromethane	<75.3	ug/kg	75.3	22.6	1	12/15/16 11:21	12/16/16 11:15	75-27-4	
Bromoform	<232	ug/kg	232	69.7	1	12/15/16 11:21	12/16/16 11:15	75-25-2	
Bromomethane	<273	ug/kg	273	81.9	1	12/15/16 11:21	12/16/16 11:15	74-83-9	
2-Butanone (MEK)	<355	ug/kg	355	107	1	12/15/16 11:21	12/16/16 11:15	78-93-3	
n-Butylbenzene	<65.1	ug/kg	65.1	19.6	1	12/15/16 11:21	12/16/16 11:15	104-51-8	
sec-Butylbenzene	<63.5	ug/kg	63.5	19.1	1	12/15/16 11:21	12/16/16 11:15	135-98-8	
tert-Butylbenzene	<85.0	ug/kg	85.0	25.5	1	12/15/16 11:21	12/16/16 11:15	98-06-6	
Carbon tetrachloride	<84.5	ug/kg	84.5	25.4	1	12/15/16 11:21	12/16/16 11:15	56-23-5	
Chlorobenzene	<46.8	ug/kg	46.8	14.1	1	12/15/16 11:21	12/16/16 11:15	108-90-7	
Chloroethane	<425	ug/kg	425	128	1	12/15/16 11:21	12/16/16 11:15	75-00-3	
Chloroform	<131	ug/kg	131	39.3	1	12/15/16 11:21	12/16/16 11:15	67-66-3	
Chloromethane	<130	ug/kg	130	39.1	1	12/15/16 11:21	12/16/16 11:15	74-87-3	
2-Chlorotoluene	<74.3	ug/kg	74.3	22.3	1	12/15/16 11:21	12/16/16 11:15	95-49-8	
4-Chlorotoluene	<70.5	ug/kg	70.5	21.2	1	12/15/16 11:21	12/16/16 11:15	106-43-4	
1,2-Dibromo-3-chloropropane	<158	ug/kg	158	158	1	12/15/16 11:21	12/16/16 11:15	96-12-8	
Dibromochloromethane	<231	ug/kg	231	69.3	1	12/15/16 11:21	12/16/16 11:15	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: **GP10\_5-7D** Lab ID: **10373306029** Collected: 12/13/16 12:15 Received: 12/14/16 18:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<30.4	ug/kg	30.4	30.4	1	12/15/16 11:21	12/16/16 11:15	106-93-4	
Dibromomethane	<105	ug/kg	105	31.5	1	12/15/16 11:21	12/16/16 11:15	74-95-3	
1,2-Dichlorobenzene	<15.6	ug/kg	15.6	15.6	1	12/15/16 11:21	12/16/16 11:15	95-50-1	
1,3-Dichlorobenzene	<23.8	ug/kg	23.8	15.6	1	12/15/16 11:21	12/16/16 11:15	541-73-1	
1,4-Dichlorobenzene	<78.0	ug/kg	78.0	23.4	1	12/15/16 11:21	12/16/16 11:15	106-46-7	
Dichlorodifluoromethane	<82.3	ug/kg	82.3	24.7	1	12/15/16 11:21	12/16/16 11:15	75-71-8	CL
1,1-Dichloroethane	<31.4	ug/kg	31.4	31.4	1	12/15/16 11:21	12/16/16 11:15	75-34-3	
1,2-Dichloroethane	<25.5	ug/kg	25.5	25.5	1	12/15/16 11:21	12/16/16 11:15	107-06-2	
1,1-Dichloroethene	<20.5	ug/kg	20.5	20.5	1	12/15/16 11:21	12/16/16 11:15	75-35-4	
cis-1,2-Dichloroethene	<100	ug/kg	100	30.1	1	12/15/16 11:21	12/16/16 11:15	156-59-2	
trans-1,2-Dichloroethene	<130	ug/kg	130	38.9	1	12/15/16 11:21	12/16/16 11:15	156-60-5	
Dichlorofluoromethane	<737	ug/kg	737	221	1	12/15/16 11:21	12/16/16 11:15	75-43-4	
1,2-Dichloropropane	<28.0	ug/kg	28.0	28.0	1	12/15/16 11:21	12/16/16 11:15	78-87-5	
1,3-Dichloropropane	<96.3	ug/kg	96.3	28.9	1	12/15/16 11:21	12/16/16 11:15	142-28-9	
2,2-Dichloropropane	<85.6	ug/kg	85.6	25.7	1	12/15/16 11:21	12/16/16 11:15	594-20-7	
1,1-Dichloropropene	<24.4	ug/kg	24.4	24.4	1	12/15/16 11:21	12/16/16 11:15	563-58-6	
cis-1,3-Dichloropropene	<123	ug/kg	123	36.8	1	12/15/16 11:21	12/16/16 11:15	10061-01-5	
trans-1,3-Dichloropropene	<91.5	ug/kg	91.5	27.5	1	12/15/16 11:21	12/16/16 11:15	10061-02-6	
Diethyl ether (Ethyl ether)	<111	ug/kg	111	33.3	1	12/15/16 11:21	12/16/16 11:15	60-29-7	
Ethylbenzene	<85.6	ug/kg	85.6	25.7	1	12/15/16 11:21	12/16/16 11:15	100-41-4	
Hexachloro-1,3-butadiene	<253	ug/kg	253	76.0	1	12/15/16 11:21	12/16/16 11:15	87-68-3	
Isopropylbenzene (Cumene)	<95.8	ug/kg	95.8	28.8	1	12/15/16 11:21	12/16/16 11:15	98-82-8	
p-Isopropyltoluene	<44.7	ug/kg	44.7	13.4	1	12/15/16 11:21	12/16/16 11:15	99-87-6	
Methylene Chloride	<498	ug/kg	498	150	1	12/15/16 11:21	12/16/16 11:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	<178	ug/kg	178	53.5	1	12/15/16 11:21	12/16/16 11:15	108-10-1	
Methyl-tert-butyl ether	<50.4	ug/kg	50.4	15.1	1	12/15/16 11:21	12/16/16 11:15	1634-04-4	
Naphthalene	<65.1	ug/kg	65.1	19.6	1	12/15/16 11:21	12/16/16 11:15	91-20-3	
n-Propylbenzene	<80.2	ug/kg	80.2	24.1	1	12/15/16 11:21	12/16/16 11:15	103-65-1	
Styrene	<70.0	ug/kg	70.0	21.0	1	12/15/16 11:21	12/16/16 11:15	100-42-5	
1,1,1,2-Tetrachloroethane	<32.0	ug/kg	32.0	32.0	1	12/15/16 11:21	12/16/16 11:15	630-20-6	
1,1,2,2-Tetrachloroethane	<17.9	ug/kg	17.9	17.9	1	12/15/16 11:21	12/16/16 11:15	79-34-5	
Tetrachloroethene	<103	ug/kg	103	30.9	1	12/15/16 11:21	12/16/16 11:15	127-18-4	
Tetrahydrofuran	<1330	ug/kg	1330	401	1	12/15/16 11:21	12/16/16 11:15	109-99-9	
Toluene	92.4	ug/kg	85.6	25.7	1	12/15/16 11:21	12/16/16 11:15	108-88-3	
1,2,3-Trichlorobenzene	<23.3	ug/kg	23.3	23.3	1	12/15/16 11:21	12/16/16 11:15	87-61-6	
1,2,4-Trichlorobenzene	<24.9	ug/kg	24.9	24.9	1	12/15/16 11:21	12/16/16 11:15	120-82-1	
1,1,1-Trichloroethane	<33.8	ug/kg	33.8	33.8	1	12/15/16 11:21	12/16/16 11:15	71-55-6	
1,1,2-Trichloroethane	<17.5	ug/kg	17.5	17.5	1	12/15/16 11:21	12/16/16 11:15	79-00-5	
Trichloroethene	<77.0	ug/kg	77.0	23.1	1	12/15/16 11:21	12/16/16 11:15	79-01-6	
Trichlorofluoromethane	<270	ug/kg	270	81.1	1	12/15/16 11:21	12/16/16 11:15	75-69-4	
1,2,3-Trichloropropane	<83.7	ug/kg	83.7	83.7	1	12/15/16 11:21	12/16/16 11:15	96-18-4	
1,1,2-Trichlorotrifluoroethane	<194	ug/kg	194	58.2	1	12/15/16 11:21	12/16/16 11:15	76-13-1	
1,2,4-Trimethylbenzene	<17.8	ug/kg	17.8	17.8	1	12/15/16 11:21	12/16/16 11:15	95-63-6	
1,3,5-Trimethylbenzene	<61.9	ug/kg	61.9	18.6	1	12/15/16 11:21	12/16/16 11:15	108-67-8	
Vinyl chloride	<34.6	ug/kg	34.6	10.4	1	12/15/16 11:21	12/16/16 11:15	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: GP10\_5-7D**      **Lab ID: 10373306029**      Collected: 12/13/16 12:15      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<215	ug/kg	215	64.6	1	12/15/16 11:21	12/16/16 11:15	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	89	%	75-129		1	12/15/16 11:21	12/16/16 11:15	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/15/16 11:21	12/16/16 11:15	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125		1	12/15/16 11:21	12/16/16 11:15	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: **SB0003\_5-7** Lab ID: **10373306030** Collected: 12/13/16 14:00 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	29.1	%	0.10	0.10	1		12/28/16 14:36		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.8	ug/kg	1.8	0.55	1	12/16/16 16:23	12/22/16 16:58	83-32-9	
Acenaphthylene	<1.3	ug/kg	1.3	0.38	1	12/16/16 16:23	12/22/16 16:58	208-96-8	
Anthracene	<2.1	ug/kg	2.1	0.64	1	12/16/16 16:23	12/22/16 16:58	120-12-7	
Benzo(a)anthracene	<2.2	ug/kg	2.2	0.66	1	12/16/16 16:23	12/22/16 16:58	56-55-3	
Benzo(a)pyrene	<1.6	ug/kg	1.6	0.49	1	12/16/16 16:23	12/22/16 16:58	50-32-8	
Benzo(b)fluoranthene	<2.7	ug/kg	2.7	0.81	1	12/16/16 16:23	12/22/16 16:58	205-99-2	
Benzo(g,h,i)perylene	<2.2	ug/kg	2.2	0.65	1	12/16/16 16:23	12/22/16 16:58	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	2.3	0.69	1	12/16/16 16:23	12/22/16 16:58	207-08-9	
Chrysene	<2.6	ug/kg	2.6	0.78	1	12/16/16 16:23	12/22/16 16:58	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.46	1	12/16/16 16:23	12/22/16 16:58	53-70-3	
Fluoranthene	<3.7	ug/kg	3.7	1.1	1	12/16/16 16:23	12/22/16 16:58	206-44-0	
Fluorene	<1.8	ug/kg	1.8	0.54	1	12/16/16 16:23	12/22/16 16:58	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.5	ug/kg	3.5	1.1	1	12/16/16 16:23	12/22/16 16:58	193-39-5	
Naphthalene	<1.7	ug/kg	1.7	0.50	1	12/16/16 16:23	12/22/16 16:58	91-20-3	
Phenanthrene	<1.9	ug/kg	1.9	0.57	1	12/16/16 16:23	12/22/16 16:58	85-01-8	
Pyrene	<3.9	ug/kg	3.9	1.2	1	12/16/16 16:23	12/22/16 16:58	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	81	%	41-125		1	12/16/16 16:23	12/22/16 16:58	321-60-8	
p-Terphenyl-d14 (S)	75	%	39-125		1	12/16/16 16:23	12/22/16 16:58	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<2220	ug/kg	2220	667	1	12/15/16 11:21	12/15/16 20:47	67-64-1	
Allyl chloride	<291	ug/kg	291	87.3	1	12/15/16 11:21	12/15/16 20:47	107-05-1	
Benzene	<29.3	ug/kg	29.3	8.8	1	12/15/16 11:21	12/15/16 20:47	71-43-2	
Bromobenzene	<86.7	ug/kg	86.7	26.0	1	12/15/16 11:21	12/15/16 20:47	108-86-1	
Bromochloromethane	<101	ug/kg	101	30.3	1	12/15/16 11:21	12/15/16 20:47	74-97-5	
Bromodichloromethane	<94.8	ug/kg	94.8	28.5	1	12/15/16 11:21	12/15/16 20:47	75-27-4	
Bromoform	<292	ug/kg	292	87.7	1	12/15/16 11:21	12/15/16 20:47	75-25-2	
Bromomethane	<343	ug/kg	343	103	1	12/15/16 11:21	12/15/16 20:47	74-83-9	
2-Butanone (MEK)	<447	ug/kg	447	134	1	12/15/16 11:21	12/15/16 20:47	78-93-3	
n-Butylbenzene	<82.0	ug/kg	82.0	24.6	1	12/15/16 11:21	12/15/16 20:47	104-51-8	
sec-Butylbenzene	<79.9	ug/kg	79.9	24.0	1	12/15/16 11:21	12/15/16 20:47	135-98-8	
tert-Butylbenzene	<107	ug/kg	107	32.1	1	12/15/16 11:21	12/15/16 20:47	98-06-6	
Carbon tetrachloride	<106	ug/kg	106	31.9	1	12/15/16 11:21	12/15/16 20:47	56-23-5	
Chlorobenzene	<58.9	ug/kg	58.9	17.7	1	12/15/16 11:21	12/15/16 20:47	108-90-7	
Chloroethane	<535	ug/kg	535	161	1	12/15/16 11:21	12/15/16 20:47	75-00-3	
Chloroform	<165	ug/kg	165	49.4	1	12/15/16 11:21	12/15/16 20:47	67-66-3	
Chloromethane	<164	ug/kg	164	49.2	1	12/15/16 11:21	12/15/16 20:47	74-87-3	
2-Chlorotoluene	<93.5	ug/kg	93.5	28.1	1	12/15/16 11:21	12/15/16 20:47	95-49-8	
4-Chlorotoluene	<88.7	ug/kg	88.7	26.7	1	12/15/16 11:21	12/15/16 20:47	106-43-4	
1,2-Dibromo-3-chloropropane	<198	ug/kg	198	198	1	12/15/16 11:21	12/15/16 20:47	96-12-8	
Dibromochloromethane	<291	ug/kg	291	87.3	1	12/15/16 11:21	12/15/16 20:47	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: **SB0003\_5-7** Lab ID: **10373306030** Collected: 12/13/16 14:00 Received: 12/14/16 18:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<38.2	ug/kg	38.2	38.2	1	12/15/16 11:21	12/15/16 20:47	106-93-4	
Dibromomethane	<132	ug/kg	132	39.7	1	12/15/16 11:21	12/15/16 20:47	74-95-3	
1,2-Dichlorobenzene	<19.7	ug/kg	19.7	19.7	1	12/15/16 11:21	12/15/16 20:47	95-50-1	
1,3-Dichlorobenzene	<29.9	ug/kg	29.9	19.7	1	12/15/16 11:21	12/15/16 20:47	541-73-1	
1,4-Dichlorobenzene	<98.2	ug/kg	98.2	29.5	1	12/15/16 11:21	12/15/16 20:47	106-46-7	
Dichlorodifluoromethane	<104	ug/kg	104	31.1	1	12/15/16 11:21	12/15/16 20:47	75-71-8	CL
1,1-Dichloroethane	<39.5	ug/kg	39.5	39.5	1	12/15/16 11:21	12/15/16 20:47	75-34-3	
1,2-Dichloroethane	<32.1	ug/kg	32.1	32.1	1	12/15/16 11:21	12/15/16 20:47	107-06-2	
1,1-Dichloroethene	<25.8	ug/kg	25.8	25.8	1	12/15/16 11:21	12/15/16 20:47	75-35-4	
cis-1,2-Dichloroethene	<126	ug/kg	126	37.8	1	12/15/16 11:21	12/15/16 20:47	156-59-2	
trans-1,2-Dichloroethene	<163	ug/kg	163	49.0	1	12/15/16 11:21	12/15/16 20:47	156-60-5	
Dichlorofluoromethane	<928	ug/kg	928	279	1	12/15/16 11:21	12/15/16 20:47	75-43-4	
1,2-Dichloropropane	<35.2	ug/kg	35.2	35.2	1	12/15/16 11:21	12/15/16 20:47	78-87-5	
1,3-Dichloropropane	<121	ug/kg	121	36.4	1	12/15/16 11:21	12/15/16 20:47	142-28-9	
2,2-Dichloropropane	<108	ug/kg	108	32.3	1	12/15/16 11:21	12/15/16 20:47	594-20-7	
1,1-Dichloropropene	<30.7	ug/kg	30.7	30.7	1	12/15/16 11:21	12/15/16 20:47	563-58-6	
cis-1,3-Dichloropropene	<154	ug/kg	154	46.4	1	12/15/16 11:21	12/15/16 20:47	10061-01-5	
trans-1,3-Dichloropropene	<115	ug/kg	115	34.6	1	12/15/16 11:21	12/15/16 20:47	10061-02-6	
Diethyl ether (Ethyl ether)	<140	ug/kg	140	41.9	1	12/15/16 11:21	12/15/16 20:47	60-29-7	
Ethylbenzene	<108	ug/kg	108	32.3	1	12/15/16 11:21	12/15/16 20:47	100-41-4	
Hexachloro-1,3-butadiene	<318	ug/kg	318	95.6	1	12/15/16 11:21	12/15/16 20:47	87-68-3	
Isopropylbenzene (Cumene)	<121	ug/kg	121	36.2	1	12/15/16 11:21	12/15/16 20:47	98-82-8	
p-Isopropyltoluene	<56.2	ug/kg	56.2	16.9	1	12/15/16 11:21	12/15/16 20:47	99-87-6	
Methylene Chloride	<627	ug/kg	627	188	1	12/15/16 11:21	12/15/16 20:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	<224	ug/kg	224	67.3	1	12/15/16 11:21	12/15/16 20:47	108-10-1	
Methyl-tert-butyl ether	<63.4	ug/kg	63.4	19.0	1	12/15/16 11:21	12/15/16 20:47	1634-04-4	
Naphthalene	159	ug/kg	82.0	24.6	1	12/15/16 11:21	12/15/16 20:47	91-20-3	
n-Propylbenzene	<101	ug/kg	101	30.3	1	12/15/16 11:21	12/15/16 20:47	103-65-1	
Styrene	<88.1	ug/kg	88.1	26.4	1	12/15/16 11:21	12/15/16 20:47	100-42-5	
1,1,1,2-Tetrachloroethane	<40.3	ug/kg	40.3	40.3	1	12/15/16 11:21	12/15/16 20:47	630-20-6	
1,1,1,2,2-Tetrachloroethane	<22.6	ug/kg	22.6	22.6	1	12/15/16 11:21	12/15/16 20:47	79-34-5	
Tetrachloroethene	<129	ug/kg	129	38.9	1	12/15/16 11:21	12/15/16 20:47	127-18-4	
Tetrahydrofuran	<1680	ug/kg	1680	505	1	12/15/16 11:21	12/15/16 20:47	109-99-9	
Toluene	<108	ug/kg	108	32.3	1	12/15/16 11:21	12/15/16 20:47	108-88-3	
1,2,3-Trichlorobenzene	<29.3	ug/kg	29.3	29.3	1	12/15/16 11:21	12/15/16 20:47	87-61-6	
1,2,4-Trichlorobenzene	<31.3	ug/kg	31.3	31.3	1	12/15/16 11:21	12/15/16 20:47	120-82-1	
1,1,1-Trichloroethane	<42.5	ug/kg	42.5	42.5	1	12/15/16 11:21	12/15/16 20:47	71-55-6	
1,1,2-Trichloroethane	<22.0	ug/kg	22.0	22.0	1	12/15/16 11:21	12/15/16 20:47	79-00-5	
Trichloroethene	<96.9	ug/kg	96.9	29.1	1	12/15/16 11:21	12/15/16 20:47	79-01-6	
Trichlorofluoromethane	<340	ug/kg	340	102	1	12/15/16 11:21	12/15/16 20:47	75-69-4	
1,2,3-Trichloropropane	<105	ug/kg	105	105	1	12/15/16 11:21	12/15/16 20:47	96-18-4	
1,1,2-Trichlorotrifluoroethane	<244	ug/kg	244	73.2	1	12/15/16 11:21	12/15/16 20:47	76-13-1	
1,2,4-Trimethylbenzene	<22.4	ug/kg	22.4	22.4	1	12/15/16 11:21	12/15/16 20:47	95-63-6	
1,3,5-Trimethylbenzene	<77.9	ug/kg	77.9	23.4	1	12/15/16 11:21	12/15/16 20:47	108-67-8	
Vinyl chloride	<43.5	ug/kg	43.5	13.1	1	12/15/16 11:21	12/15/16 20:47	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: SB0003\_5-7**      **Lab ID: 10373306030**      Collected: 12/13/16 14:00      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<271	ug/kg	271	81.4	1	12/15/16 11:21	12/15/16 20:47	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	84	%	75-129		1	12/15/16 11:21	12/15/16 20:47	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/15/16 11:21	12/15/16 20:47	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/15/16 11:21	12/15/16 20:47	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: **SB0003\_10-13** Lab ID: **10373306031** Collected: 12/13/16 14:20 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>22.6</b>	%	0.10	0.10	1		12/28/16 14:36		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.50	1	12/16/16 16:23	12/22/16 17:18	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.35	1	12/16/16 16:23	12/22/16 17:18	208-96-8	
Anthracene	<b>16.2</b>	ug/kg	1.9	0.58	1	12/16/16 16:23	12/22/16 17:18	120-12-7	
Benzo(a)anthracene	<b>103</b>	ug/kg	2.0	0.60	1	12/16/16 16:23	12/22/16 17:18	56-55-3	
Benzo(a)pyrene	<b>123</b>	ug/kg	1.5	0.45	1	12/16/16 16:23	12/22/16 17:18	50-32-8	
Benzo(b)fluoranthene	<b>101</b>	ug/kg	2.5	0.74	1	12/16/16 16:23	12/22/16 17:18	205-99-2	
Benzo(g,h,i)perylene	<b>73.0</b>	ug/kg	2.0	0.59	1	12/16/16 16:23	12/22/16 17:18	191-24-2	
Benzo(k)fluoranthene	<b>38.1</b>	ug/kg	2.1	0.63	1	12/16/16 16:23	12/22/16 17:18	207-08-9	
Chrysene	<b>72.6</b>	ug/kg	2.4	0.71	1	12/16/16 16:23	12/22/16 17:18	218-01-9	
Dibenz(a,h)anthracene	<b>14.8</b>	ug/kg	1.4	0.42	1	12/16/16 16:23	12/22/16 17:18	53-70-3	
Fluoranthene	<b>132</b>	ug/kg	3.4	1.0	1	12/16/16 16:23	12/22/16 17:18	206-44-0	
Fluorene	<1.6	ug/kg	1.6	0.49	1	12/16/16 16:23	12/22/16 17:18	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>53.5</b>	ug/kg	3.2	0.97	1	12/16/16 16:23	12/22/16 17:18	193-39-5	
Naphthalene	<1.5	ug/kg	1.5	0.46	1	12/16/16 16:23	12/22/16 17:18	91-20-3	
Phenanthrene	<b>20.7</b>	ug/kg	1.7	0.52	1	12/16/16 16:23	12/22/16 17:18	85-01-8	
Pyrene	<b>218</b>	ug/kg	3.6	1.1	1	12/16/16 16:23	12/22/16 17:18	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	76	%	41-125		1	12/16/16 16:23	12/22/16 17:18	321-60-8	
p-Terphenyl-d14 (S)	79	%	39-125		1	12/16/16 16:23	12/22/16 17:18	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1440	ug/kg	1440	433	1	12/16/16 11:42	12/20/16 16:54	67-64-1	
Allyl chloride	<189	ug/kg	189	56.6	1	12/16/16 11:42	12/20/16 16:54	107-05-1	
Benzene	<19.0	ug/kg	19.0	5.7	1	12/16/16 11:42	12/20/16 16:54	71-43-2	
Bromobenzene	<56.3	ug/kg	56.3	16.9	1	12/16/16 11:42	12/20/16 16:54	108-86-1	
Bromochloromethane	<65.5	ug/kg	65.5	19.7	1	12/16/16 11:42	12/20/16 16:54	74-97-5	
Bromodichloromethane	<61.5	ug/kg	61.5	18.5	1	12/16/16 11:42	12/20/16 16:54	75-27-4	
Bromoform	<189	ug/kg	189	56.9	1	12/16/16 11:42	12/20/16 16:54	75-25-2	
Bromomethane	<223	ug/kg	223	66.9	1	12/16/16 11:42	12/20/16 16:54	74-83-9	
2-Butanone (MEK)	<290	ug/kg	290	87.1	1	12/16/16 11:42	12/20/16 16:54	78-93-3	
n-Butylbenzene	<53.2	ug/kg	53.2	16.0	1	12/16/16 11:42	12/20/16 16:54	104-51-8	
sec-Butylbenzene	<51.9	ug/kg	51.9	15.6	1	12/16/16 11:42	12/20/16 16:54	135-98-8	
tert-Butylbenzene	<69.4	ug/kg	69.4	20.9	1	12/16/16 11:42	12/20/16 16:54	98-06-6	
Carbon tetrachloride	<69.0	ug/kg	69.0	20.7	1	12/16/16 11:42	12/20/16 16:54	56-23-5	
Chlorobenzene	<38.2	ug/kg	38.2	11.5	1	12/16/16 11:42	12/20/16 16:54	108-90-7	
Chloroethane	<347	ug/kg	347	104	1	12/16/16 11:42	12/20/16 16:54	75-00-3	
Chloroform	<107	ug/kg	107	32.1	1	12/16/16 11:42	12/20/16 16:54	67-66-3	
Chloromethane	<106	ug/kg	106	31.9	1	12/16/16 11:42	12/20/16 16:54	74-87-3	
2-Chlorotoluene	<60.7	ug/kg	60.7	18.2	1	12/16/16 11:42	12/20/16 16:54	95-49-8	
4-Chlorotoluene	<57.6	ug/kg	57.6	17.3	1	12/16/16 11:42	12/20/16 16:54	106-43-4	
1,2-Dibromo-3-chloropropane	<129	ug/kg	129	129	1	12/16/16 11:42	12/20/16 16:54	96-12-8	
Dibromochloromethane	<189	ug/kg	189	56.6	1	12/16/16 11:42	12/20/16 16:54	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: **SB0003\_10-13** Lab ID: **10373306031** Collected: 12/13/16 14:20 Received: 12/14/16 18:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<24.8	ug/kg	24.8	24.8	1	12/16/16 11:42	12/20/16 16:54	106-93-4	
Dibromomethane	<85.7	ug/kg	85.7	25.7	1	12/16/16 11:42	12/20/16 16:54	74-95-3	
1,2-Dichlorobenzene	<12.8	ug/kg	12.8	12.8	1	12/16/16 11:42	12/20/16 16:54	95-50-1	
1,3-Dichlorobenzene	<19.4	ug/kg	19.4	12.8	1	12/16/16 11:42	12/20/16 16:54	541-73-1	
1,4-Dichlorobenzene	<63.7	ug/kg	63.7	19.1	1	12/16/16 11:42	12/20/16 16:54	106-46-7	
Dichlorodifluoromethane	<67.2	ug/kg	67.2	20.2	1	12/16/16 11:42	12/20/16 16:54	75-71-8	
1,1-Dichloroethane	<25.6	ug/kg	25.6	25.6	1	12/16/16 11:42	12/20/16 16:54	75-34-3	
1,2-Dichloroethane	<20.9	ug/kg	20.9	20.9	1	12/16/16 11:42	12/20/16 16:54	107-06-2	
1,1-Dichloroethene	<16.8	ug/kg	16.8	16.8	1	12/16/16 11:42	12/20/16 16:54	75-35-4	
cis-1,2-Dichloroethene	<81.8	ug/kg	81.8	24.6	1	12/16/16 11:42	12/20/16 16:54	156-59-2	
trans-1,2-Dichloroethene	<106	ug/kg	106	31.8	1	12/16/16 11:42	12/20/16 16:54	156-60-5	
Dichlorofluoromethane	<602	ug/kg	602	181	1	12/16/16 11:42	12/20/16 16:54	75-43-4	
1,2-Dichloropropane	<22.8	ug/kg	22.8	22.8	1	12/16/16 11:42	12/20/16 16:54	78-87-5	
1,3-Dichloropropane	<78.7	ug/kg	78.7	23.6	1	12/16/16 11:42	12/20/16 16:54	142-28-9	
2,2-Dichloropropane	<69.9	ug/kg	69.9	21.0	1	12/16/16 11:42	12/20/16 16:54	594-20-7	
1,1-Dichloropropene	<19.9	ug/kg	19.9	19.9	1	12/16/16 11:42	12/20/16 16:54	563-58-6	
cis-1,3-Dichloropropene	<100	ug/kg	100	30.1	1	12/16/16 11:42	12/20/16 16:54	10061-01-5	
trans-1,3-Dichloropropene	<74.7	ug/kg	74.7	22.4	1	12/16/16 11:42	12/20/16 16:54	10061-02-6	
Diethyl ether (Ethyl ether)	<90.5	ug/kg	90.5	27.2	1	12/16/16 11:42	12/20/16 16:54	60-29-7	
Ethylbenzene	<69.9	ug/kg	69.9	21.0	1	12/16/16 11:42	12/20/16 16:54	100-41-4	
Hexachloro-1,3-butadiene	<207	ug/kg	207	62.0	1	12/16/16 11:42	12/20/16 16:54	87-68-3	
Isopropylbenzene (Cumene)	<78.2	ug/kg	78.2	23.5	1	12/16/16 11:42	12/20/16 16:54	98-82-8	
p-Isopropyltoluene	<36.5	ug/kg	36.5	11.0	1	12/16/16 11:42	12/20/16 16:54	99-87-6	
Methylene Chloride	<407	ug/kg	407	122	1	12/16/16 11:42	12/20/16 16:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	<145	ug/kg	145	43.7	1	12/16/16 11:42	12/20/16 16:54	108-10-1	
Methyl-tert-butyl ether	<41.1	ug/kg	41.1	12.4	1	12/16/16 11:42	12/20/16 16:54	1634-04-4	
Naphthalene	<53.2	ug/kg	53.2	16.0	1	12/16/16 11:42	12/20/16 16:54	91-20-3	
n-Propylbenzene	<65.5	ug/kg	65.5	19.7	1	12/16/16 11:42	12/20/16 16:54	103-65-1	
Styrene	<57.1	ug/kg	57.1	17.2	1	12/16/16 11:42	12/20/16 16:54	100-42-5	
1,1,1,2-Tetrachloroethane	<26.1	ug/kg	26.1	26.1	1	12/16/16 11:42	12/20/16 16:54	630-20-6	
1,1,2,2-Tetrachloroethane	<14.7	ug/kg	14.7	14.7	1	12/16/16 11:42	12/20/16 16:54	79-34-5	
Tetrachloroethene	<84.0	ug/kg	84.0	25.2	1	12/16/16 11:42	12/20/16 16:54	127-18-4	
Tetrahydrofuran	<1090	ug/kg	1090	327	1	12/16/16 11:42	12/20/16 16:54	109-99-9	
Toluene	<69.9	ug/kg	69.9	21.0	1	12/16/16 11:42	12/20/16 16:54	108-88-3	
1,2,3-Trichlorobenzene	<19.0	ug/kg	19.0	19.0	1	12/16/16 11:42	12/20/16 16:54	87-61-6	
1,2,4-Trichlorobenzene	<20.3	ug/kg	20.3	20.3	1	12/16/16 11:42	12/20/16 16:54	120-82-1	
1,1,1-Trichloroethane	<27.6	ug/kg	27.6	27.6	1	12/16/16 11:42	12/20/16 16:54	71-55-6	
1,1,2-Trichloroethane	<14.3	ug/kg	14.3	14.3	1	12/16/16 11:42	12/20/16 16:54	79-00-5	
Trichloroethene	<62.9	ug/kg	62.9	18.9	1	12/16/16 11:42	12/20/16 16:54	79-01-6	
Trichlorofluoromethane	<221	ug/kg	221	66.3	1	12/16/16 11:42	12/20/16 16:54	75-69-4	
1,2,3-Trichloropropane	<68.4	ug/kg	68.4	68.4	1	12/16/16 11:42	12/20/16 16:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	<158	ug/kg	158	47.5	1	12/16/16 11:42	12/20/16 16:54	76-13-1	
1,2,4-Trimethylbenzene	<14.5	ug/kg	14.5	14.5	1	12/16/16 11:42	12/20/16 16:54	95-63-6	
1,3,5-Trimethylbenzene	<50.5	ug/kg	50.5	15.2	1	12/16/16 11:42	12/20/16 16:54	108-67-8	
Vinyl chloride	<28.2	ug/kg	28.2	8.5	1	12/16/16 11:42	12/20/16 16:54	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: SB0003\_10-13**      **Lab ID: 10373306031**      Collected: 12/13/16 14:20      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<176	ug/kg	176	52.8	1	12/16/16 11:42	12/20/16 16:54	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	95	%	75-129		1	12/16/16 11:42	12/20/16 16:54	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/16/16 11:42	12/20/16 16:54	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		1	12/16/16 11:42	12/20/16 16:54	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: **SB0002\_8-10** Lab ID: **10373306032** Collected: 12/13/16 09:45 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>28.0</b>	%	0.10	0.10	1		12/28/16 14:36		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.8	ug/kg	1.8	0.54	1	12/16/16 16:23	12/22/16 17:39	83-32-9	
Acenaphthylene	<1.3	ug/kg	1.3	0.38	1	12/16/16 16:23	12/22/16 17:39	208-96-8	
Anthracene	<2.1	ug/kg	2.1	0.63	1	12/16/16 16:23	12/22/16 17:39	120-12-7	
Benzo(a)anthracene	<2.2	ug/kg	2.2	0.65	1	12/16/16 16:23	12/22/16 17:39	56-55-3	
Benzo(a)pyrene	<1.6	ug/kg	1.6	0.48	1	12/16/16 16:23	12/22/16 17:39	50-32-8	
Benzo(b)fluoranthene	<2.6	ug/kg	2.6	0.80	1	12/16/16 16:23	12/22/16 17:39	205-99-2	
Benzo(g,h,i)perylene	<2.1	ug/kg	2.1	0.64	1	12/16/16 16:23	12/22/16 17:39	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	2.3	0.68	1	12/16/16 16:23	12/22/16 17:39	207-08-9	
Chrysene	<2.6	ug/kg	2.6	0.77	1	12/16/16 16:23	12/22/16 17:39	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.45	1	12/16/16 16:23	12/22/16 17:39	53-70-3	
Fluoranthene	<3.6	ug/kg	3.6	1.1	1	12/16/16 16:23	12/22/16 17:39	206-44-0	
Fluorene	<1.8	ug/kg	1.8	0.53	1	12/16/16 16:23	12/22/16 17:39	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.5	ug/kg	3.5	1.0	1	12/16/16 16:23	12/22/16 17:39	193-39-5	
Naphthalene	<1.7	ug/kg	1.7	0.50	1	12/16/16 16:23	12/22/16 17:39	91-20-3	
Phenanthrene	<1.9	ug/kg	1.9	0.56	1	12/16/16 16:23	12/22/16 17:39	85-01-8	
Pyrene	<3.8	ug/kg	3.8	1.2	1	12/16/16 16:23	12/22/16 17:39	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	78	%	41-125		1	12/16/16 16:23	12/22/16 17:39	321-60-8	
p-Terphenyl-d14 (S)	75	%	39-125		1	12/16/16 16:23	12/22/16 17:39	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1520	ug/kg	1520	455	1	12/16/16 11:42	12/20/16 17:11	67-64-1	
Allyl chloride	<198	ug/kg	198	59.5	1	12/16/16 11:42	12/20/16 17:11	107-05-1	
Benzene	27.7	ug/kg	20.0	6.0	1	12/16/16 11:42	12/20/16 17:11	71-43-2	
Bromobenzene	<59.1	ug/kg	59.1	17.8	1	12/16/16 11:42	12/20/16 17:11	108-86-1	
Bromochloromethane	<68.8	ug/kg	68.8	20.7	1	12/16/16 11:42	12/20/16 17:11	74-97-5	
Bromodichloromethane	<64.7	ug/kg	64.7	19.4	1	12/16/16 11:42	12/20/16 17:11	75-27-4	
Bromoform	<199	ug/kg	199	59.8	1	12/16/16 11:42	12/20/16 17:11	75-25-2	
Bromomethane	<234	ug/kg	234	70.3	1	12/16/16 11:42	12/20/16 17:11	74-83-9	
2-Butanone (MEK)	<305	ug/kg	305	91.6	1	12/16/16 11:42	12/20/16 17:11	78-93-3	
n-Butylbenzene	<55.9	ug/kg	55.9	16.8	1	12/16/16 11:42	12/20/16 17:11	104-51-8	
sec-Butylbenzene	<54.5	ug/kg	54.5	16.4	1	12/16/16 11:42	12/20/16 17:11	135-98-8	
tert-Butylbenzene	<73.0	ug/kg	73.0	21.9	1	12/16/16 11:42	12/20/16 17:11	98-06-6	
Carbon tetrachloride	<72.5	ug/kg	72.5	21.8	1	12/16/16 11:42	12/20/16 17:11	56-23-5	
Chlorobenzene	<40.2	ug/kg	40.2	12.1	1	12/16/16 11:42	12/20/16 17:11	108-90-7	
Chloroethane	<365	ug/kg	365	110	1	12/16/16 11:42	12/20/16 17:11	75-00-3	
Chloroform	<112	ug/kg	112	33.7	1	12/16/16 11:42	12/20/16 17:11	67-66-3	
Chloromethane	<112	ug/kg	112	33.6	1	12/16/16 11:42	12/20/16 17:11	74-87-3	
2-Chlorotoluene	<63.7	ug/kg	63.7	19.1	1	12/16/16 11:42	12/20/16 17:11	95-49-8	
4-Chlorotoluene	<60.5	ug/kg	60.5	18.2	1	12/16/16 11:42	12/20/16 17:11	106-43-4	
1,2-Dibromo-3-chloropropane	<135	ug/kg	135	135	1	12/16/16 11:42	12/20/16 17:11	96-12-8	
Dibromochloromethane	<198	ug/kg	198	59.5	1	12/16/16 11:42	12/20/16 17:11	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: SB0002\_8-10**      **Lab ID: 10373306032**      Collected: 12/13/16 09:45      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<26.1	ug/kg	26.1	26.1	1	12/16/16 11:42	12/20/16 17:11	106-93-4	
Dibromomethane	<90.1	ug/kg	90.1	27.1	1	12/16/16 11:42	12/20/16 17:11	74-95-3	
1,2-Dichlorobenzene	<13.4	ug/kg	13.4	13.4	1	12/16/16 11:42	12/20/16 17:11	95-50-1	
1,3-Dichlorobenzene	<20.4	ug/kg	20.4	13.4	1	12/16/16 11:42	12/20/16 17:11	541-73-1	
1,4-Dichlorobenzene	<67.0	ug/kg	67.0	20.1	1	12/16/16 11:42	12/20/16 17:11	106-46-7	
Dichlorodifluoromethane	<70.7	ug/kg	70.7	21.2	1	12/16/16 11:42	12/20/16 17:11	75-71-8	
1,1-Dichloroethane	<26.9	ug/kg	26.9	26.9	1	12/16/16 11:42	12/20/16 17:11	75-34-3	
1,2-Dichloroethane	<21.9	ug/kg	21.9	21.9	1	12/16/16 11:42	12/20/16 17:11	107-06-2	
1,1-Dichloroethene	<17.6	ug/kg	17.6	17.6	1	12/16/16 11:42	12/20/16 17:11	75-35-4	
cis-1,2-Dichloroethene	<85.9	ug/kg	85.9	25.8	1	12/16/16 11:42	12/20/16 17:11	156-59-2	
trans-1,2-Dichloroethene	<111	ug/kg	111	33.4	1	12/16/16 11:42	12/20/16 17:11	156-60-5	
Dichlorofluoromethane	<633	ug/kg	633	190	1	12/16/16 11:42	12/20/16 17:11	75-43-4	
1,2-Dichloropropane	<24.0	ug/kg	24.0	24.0	1	12/16/16 11:42	12/20/16 17:11	78-87-5	
1,3-Dichloropropane	<82.7	ug/kg	82.7	24.8	1	12/16/16 11:42	12/20/16 17:11	142-28-9	
2,2-Dichloropropane	<73.4	ug/kg	73.4	22.1	1	12/16/16 11:42	12/20/16 17:11	594-20-7	
1,1-Dichloropropene	<20.9	ug/kg	20.9	20.9	1	12/16/16 11:42	12/20/16 17:11	563-58-6	
cis-1,3-Dichloropropene	<105	ug/kg	105	31.6	1	12/16/16 11:42	12/20/16 17:11	10061-01-5	
trans-1,3-Dichloropropene	<78.5	ug/kg	78.5	23.6	1	12/16/16 11:42	12/20/16 17:11	10061-02-6	
Diethyl ether (Ethyl ether)	<95.2	ug/kg	95.2	28.6	1	12/16/16 11:42	12/20/16 17:11	60-29-7	
Ethylbenzene	<73.4	ug/kg	73.4	22.1	1	12/16/16 11:42	12/20/16 17:11	100-41-4	
Hexachloro-1,3-butadiene	<217	ug/kg	217	65.2	1	12/16/16 11:42	12/20/16 17:11	87-68-3	
Isopropylbenzene (Cumene)	<82.2	ug/kg	82.2	24.7	1	12/16/16 11:42	12/20/16 17:11	98-82-8	
p-Isopropyltoluene	<38.3	ug/kg	38.3	11.5	1	12/16/16 11:42	12/20/16 17:11	99-87-6	
Methylene Chloride	<428	ug/kg	428	128	1	12/16/16 11:42	12/20/16 17:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	<153	ug/kg	153	45.9	1	12/16/16 11:42	12/20/16 17:11	108-10-1	
Methyl-tert-butyl ether	<43.2	ug/kg	43.2	13.0	1	12/16/16 11:42	12/20/16 17:11	1634-04-4	
Naphthalene	<55.9	ug/kg	55.9	16.8	1	12/16/16 11:42	12/20/16 17:11	91-20-3	
n-Propylbenzene	<68.8	ug/kg	68.8	20.7	1	12/16/16 11:42	12/20/16 17:11	103-65-1	
Styrene	<60.1	ug/kg	60.1	18.0	1	12/16/16 11:42	12/20/16 17:11	100-42-5	
1,1,1,2-Tetrachloroethane	<27.5	ug/kg	27.5	27.5	1	12/16/16 11:42	12/20/16 17:11	630-20-6	
1,1,2,2-Tetrachloroethane	<15.4	ug/kg	15.4	15.4	1	12/16/16 11:42	12/20/16 17:11	79-34-5	
Tetrachloroethene	<88.2	ug/kg	88.2	26.5	1	12/16/16 11:42	12/20/16 17:11	127-18-4	
Tetrahydrofuran	<1150	ug/kg	1150	344	1	12/16/16 11:42	12/20/16 17:11	109-99-9	
Toluene	<73.4	ug/kg	73.4	22.1	1	12/16/16 11:42	12/20/16 17:11	108-88-3	
1,2,3-Trichlorobenzene	<20.0	ug/kg	20.0	20.0	1	12/16/16 11:42	12/20/16 17:11	87-61-6	
1,2,4-Trichlorobenzene	<21.4	ug/kg	21.4	21.4	1	12/16/16 11:42	12/20/16 17:11	120-82-1	
1,1,1-Trichloroethane	<29.0	ug/kg	29.0	29.0	1	12/16/16 11:42	12/20/16 17:11	71-55-6	
1,1,2-Trichloroethane	<15.0	ug/kg	15.0	15.0	1	12/16/16 11:42	12/20/16 17:11	79-00-5	
Trichloroethene	<66.1	ug/kg	66.1	19.8	1	12/16/16 11:42	12/20/16 17:11	79-01-6	
Trichlorofluoromethane	<232	ug/kg	232	69.6	1	12/16/16 11:42	12/20/16 17:11	75-69-4	
1,2,3-Trichloropropane	<71.9	ug/kg	71.9	71.9	1	12/16/16 11:42	12/20/16 17:11	96-18-4	
1,1,2-Trichlorotrifluoroethane	<166	ug/kg	166	49.9	1	12/16/16 11:42	12/20/16 17:11	76-13-1	
1,2,4-Trimethylbenzene	<15.3	ug/kg	15.3	15.3	1	12/16/16 11:42	12/20/16 17:11	95-63-6	
1,3,5-Trimethylbenzene	<53.1	ug/kg	53.1	16.0	1	12/16/16 11:42	12/20/16 17:11	108-67-8	
Vinyl chloride	<29.7	ug/kg	29.7	8.9	1	12/16/16 11:42	12/20/16 17:11	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: SB0002\_8-10**      **Lab ID: 10373306032**      Collected: 12/13/16 09:45      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<185	ug/kg	185	55.5	1	12/16/16 11:42	12/20/16 17:11	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	94	%	75-129		1	12/16/16 11:42	12/20/16 17:11	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/16/16 11:42	12/20/16 17:11	2037-26-5	
4-Bromofluorobenzene (S)	94	%	75-125		1	12/16/16 11:42	12/20/16 17:11	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: **SB0002\_15-20** Lab ID: **10373306033** Collected: 12/13/16 10:10 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	27.6	%	0.10	0.10	1		12/28/16 14:37		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.8	ug/kg	1.8	0.54	1	12/16/16 16:23	12/22/16 17:59	83-32-9	
Acenaphthylene	<1.3	ug/kg	1.3	0.38	1	12/16/16 16:23	12/22/16 17:59	208-96-8	
Anthracene	<2.1	ug/kg	2.1	0.63	1	12/16/16 16:23	12/22/16 17:59	120-12-7	
Benzo(a)anthracene	<2.2	ug/kg	2.2	0.65	1	12/16/16 16:23	12/22/16 17:59	56-55-3	
Benzo(a)pyrene	<1.6	ug/kg	1.6	0.48	1	12/16/16 16:23	12/22/16 17:59	50-32-8	
Benzo(b)fluoranthene	<2.6	ug/kg	2.6	0.79	1	12/16/16 16:23	12/22/16 17:59	205-99-2	
Benzo(g,h,i)perylene	<2.1	ug/kg	2.1	0.63	1	12/16/16 16:23	12/22/16 17:59	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	2.3	0.68	1	12/16/16 16:23	12/22/16 17:59	207-08-9	
Chrysene	<2.6	ug/kg	2.6	0.77	1	12/16/16 16:23	12/22/16 17:59	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.45	1	12/16/16 16:23	12/22/16 17:59	53-70-3	
Fluoranthene	<3.6	ug/kg	3.6	1.1	1	12/16/16 16:23	12/22/16 17:59	206-44-0	
Fluorene	<1.8	ug/kg	1.8	0.53	1	12/16/16 16:23	12/22/16 17:59	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.4	ug/kg	3.4	1.0	1	12/16/16 16:23	12/22/16 17:59	193-39-5	
Naphthalene	<1.6	ug/kg	1.6	0.49	1	12/16/16 16:23	12/22/16 17:59	91-20-3	
Phenanthrene	<1.9	ug/kg	1.9	0.56	1	12/16/16 16:23	12/22/16 17:59	85-01-8	
Pyrene	<3.8	ug/kg	3.8	1.1	1	12/16/16 16:23	12/22/16 17:59	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	77	%	41-125		1	12/16/16 16:23	12/22/16 17:59	321-60-8	
p-Terphenyl-d14 (S)	74	%	39-125		1	12/16/16 16:23	12/22/16 17:59	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1460	ug/kg	1460	439	1	12/16/16 10:19	12/16/16 19:18	67-64-1	
Allyl chloride	<191	ug/kg	191	57.5	1	12/16/16 10:19	12/16/16 19:18	107-05-1	
Benzene	<19.3	ug/kg	19.3	5.8	1	12/16/16 10:19	12/16/16 19:18	71-43-2	
Bromobenzene	<57.1	ug/kg	57.1	17.1	1	12/16/16 10:19	12/16/16 19:18	108-86-1	
Bromochloromethane	<66.5	ug/kg	66.5	20.0	1	12/16/16 10:19	12/16/16 19:18	74-97-5	
Bromodichloromethane	<62.5	ug/kg	62.5	18.8	1	12/16/16 10:19	12/16/16 19:18	75-27-4	
Bromoform	<192	ug/kg	192	57.7	1	12/16/16 10:19	12/16/16 19:18	75-25-2	
Bromomethane	<226	ug/kg	226	67.9	1	12/16/16 10:19	12/16/16 19:18	74-83-9	
2-Butanone (MEK)	<294	ug/kg	294	88.4	1	12/16/16 10:19	12/16/16 19:18	78-93-3	
n-Butylbenzene	<54.0	ug/kg	54.0	16.2	1	12/16/16 10:19	12/16/16 19:18	104-51-8	
sec-Butylbenzene	<52.6	ug/kg	52.6	15.8	1	12/16/16 10:19	12/16/16 19:18	135-98-8	
tert-Butylbenzene	<70.5	ug/kg	70.5	21.2	1	12/16/16 10:19	12/16/16 19:18	98-06-6	
Carbon tetrachloride	<70.0	ug/kg	70.0	21.0	1	12/16/16 10:19	12/16/16 19:18	56-23-5	
Chlorobenzene	<38.8	ug/kg	38.8	11.7	1	12/16/16 10:19	12/16/16 19:18	108-90-7	
Chloroethane	<352	ug/kg	352	106	1	12/16/16 10:19	12/16/16 19:18	75-00-3	
Chloroform	<108	ug/kg	108	32.6	1	12/16/16 10:19	12/16/16 19:18	67-66-3	
Chloromethane	<108	ug/kg	108	32.4	1	12/16/16 10:19	12/16/16 19:18	74-87-3	
2-Chlorotoluene	<61.6	ug/kg	61.6	18.5	1	12/16/16 10:19	12/16/16 19:18	95-49-8	
4-Chlorotoluene	<58.4	ug/kg	58.4	17.6	1	12/16/16 10:19	12/16/16 19:18	106-43-4	
1,2-Dibromo-3-chloropropane	<131	ug/kg	131	131	1	12/16/16 10:19	12/16/16 19:18	96-12-8	
Dibromochloromethane	<191	ug/kg	191	57.5	1	12/16/16 10:19	12/16/16 19:18	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: **SB0002\_15-20** Lab ID: **10373306033** Collected: 12/13/16 10:10 Received: 12/14/16 18:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<25.2	ug/kg	25.2	25.2	1	12/16/16 10:19	12/16/16 19:18	106-93-4	
Dibromomethane	<87.0	ug/kg	87.0	26.1	1	12/16/16 10:19	12/16/16 19:18	74-95-3	
1,2-Dichlorobenzene	<12.9	ug/kg	12.9	12.9	1	12/16/16 10:19	12/16/16 19:18	95-50-1	
1,3-Dichlorobenzene	<19.7	ug/kg	19.7	12.9	1	12/16/16 10:19	12/16/16 19:18	541-73-1	
1,4-Dichlorobenzene	<64.7	ug/kg	64.7	19.4	1	12/16/16 10:19	12/16/16 19:18	106-46-7	
Dichlorodifluoromethane	<68.3	ug/kg	68.3	20.5	1	12/16/16 10:19	12/16/16 19:18	75-71-8	CL
1,1-Dichloroethane	<26.0	ug/kg	26.0	26.0	1	12/16/16 10:19	12/16/16 19:18	75-34-3	
1,2-Dichloroethane	<21.2	ug/kg	21.2	21.2	1	12/16/16 10:19	12/16/16 19:18	107-06-2	
1,1-Dichloroethene	<17.0	ug/kg	17.0	17.0	1	12/16/16 10:19	12/16/16 19:18	75-35-4	
cis-1,2-Dichloroethene	<83.0	ug/kg	83.0	24.9	1	12/16/16 10:19	12/16/16 19:18	156-59-2	
trans-1,2-Dichloroethene	<108	ug/kg	108	32.3	1	12/16/16 10:19	12/16/16 19:18	156-60-5	
Dichlorofluoromethane	<611	ug/kg	611	184	1	12/16/16 10:19	12/16/16 19:18	75-43-4	
1,2-Dichloropropane	<23.2	ug/kg	23.2	23.2	1	12/16/16 10:19	12/16/16 19:18	78-87-5	
1,3-Dichloropropane	<79.9	ug/kg	79.9	24.0	1	12/16/16 10:19	12/16/16 19:18	142-28-9	
2,2-Dichloropropane	<70.9	ug/kg	70.9	21.3	1	12/16/16 10:19	12/16/16 19:18	594-20-7	
1,1-Dichloropropene	<20.2	ug/kg	20.2	20.2	1	12/16/16 10:19	12/16/16 19:18	563-58-6	
cis-1,3-Dichloropropene	<102	ug/kg	102	30.5	1	12/16/16 10:19	12/16/16 19:18	10061-01-5	
trans-1,3-Dichloropropene	<75.8	ug/kg	75.8	22.8	1	12/16/16 10:19	12/16/16 19:18	10061-02-6	
Diethyl ether (Ethyl ether)	<91.9	ug/kg	91.9	27.6	1	12/16/16 10:19	12/16/16 19:18	60-29-7	
Ethylbenzene	<70.9	ug/kg	70.9	21.3	1	12/16/16 10:19	12/16/16 19:18	100-41-4	
Hexachloro-1,3-butadiene	<210	ug/kg	210	63.0	1	12/16/16 10:19	12/16/16 19:18	87-68-3	
Isopropylbenzene (Cumene)	<79.4	ug/kg	79.4	23.8	1	12/16/16 10:19	12/16/16 19:18	98-82-8	
p-Isopropyltoluene	<37.0	ug/kg	37.0	11.1	1	12/16/16 10:19	12/16/16 19:18	99-87-6	
Methylene Chloride	<413	ug/kg	413	124	1	12/16/16 10:19	12/16/16 19:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	<148	ug/kg	148	44.3	1	12/16/16 10:19	12/16/16 19:18	108-10-1	
Methyl-tert-butyl ether	<41.8	ug/kg	41.8	12.5	1	12/16/16 10:19	12/16/16 19:18	1634-04-4	
Naphthalene	<54.0	ug/kg	54.0	16.2	1	12/16/16 10:19	12/16/16 19:18	91-20-3	
n-Propylbenzene	<66.5	ug/kg	66.5	20.0	1	12/16/16 10:19	12/16/16 19:18	103-65-1	
Styrene	<58.0	ug/kg	58.0	17.4	1	12/16/16 10:19	12/16/16 19:18	100-42-5	
1,1,1,2-Tetrachloroethane	<26.5	ug/kg	26.5	26.5	1	12/16/16 10:19	12/16/16 19:18	630-20-6	
1,1,2,2-Tetrachloroethane	<14.9	ug/kg	14.9	14.9	1	12/16/16 10:19	12/16/16 19:18	79-34-5	
Tetrachloroethene	<85.2	ug/kg	85.2	25.6	1	12/16/16 10:19	12/16/16 19:18	127-18-4	
Tetrahydrofuran	<1110	ug/kg	1110	332	1	12/16/16 10:19	12/16/16 19:18	109-99-9	
Toluene	<70.9	ug/kg	70.9	21.3	1	12/16/16 10:19	12/16/16 19:18	108-88-3	
1,2,3-Trichlorobenzene	<19.3	ug/kg	19.3	19.3	1	12/16/16 10:19	12/16/16 19:18	87-61-6	
1,2,4-Trichlorobenzene	<20.6	ug/kg	20.6	20.6	1	12/16/16 10:19	12/16/16 19:18	120-82-1	
1,1,1-Trichloroethane	<28.0	ug/kg	28.0	28.0	1	12/16/16 10:19	12/16/16 19:18	71-55-6	
1,1,2-Trichloroethane	<14.5	ug/kg	14.5	14.5	1	12/16/16 10:19	12/16/16 19:18	79-00-5	
Trichloroethene	<63.8	ug/kg	63.8	19.2	1	12/16/16 10:19	12/16/16 19:18	79-01-6	
Trichlorofluoromethane	<224	ug/kg	224	67.3	1	12/16/16 10:19	12/16/16 19:18	75-69-4	
1,2,3-Trichloropropane	<69.4	ug/kg	69.4	69.4	1	12/16/16 10:19	12/16/16 19:18	96-18-4	
1,1,2-Trichlorotrifluoroethane	<161	ug/kg	161	48.2	1	12/16/16 10:19	12/16/16 19:18	76-13-1	
1,2,4-Trimethylbenzene	<14.7	ug/kg	14.7	14.7	1	12/16/16 10:19	12/16/16 19:18	95-63-6	
1,3,5-Trimethylbenzene	<51.3	ug/kg	51.3	15.4	1	12/16/16 10:19	12/16/16 19:18	108-67-8	
Vinyl chloride	<28.6	ug/kg	28.6	8.6	1	12/16/16 10:19	12/16/16 19:18	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: SB0002\_15-20**      **Lab ID: 10373306033**      Collected: 12/13/16 10:10      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<178	ug/kg	178	53.6	1	12/16/16 10:19	12/16/16 19:18	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	90	%	75-129		1	12/16/16 10:19	12/16/16 19:18	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/16/16 10:19	12/16/16 19:18	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/16/16 10:19	12/16/16 19:18	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: **SB0004\_2.5-5** Lab ID: **10373306034** Collected: 12/13/16 15:00 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	12.3	%	0.10	0.10	1		12/28/16 14:37		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<3.0	ug/kg	3.0	0.89	2	12/16/16 16:23	12/23/16 18:43	83-32-9	
Acenaphthylene	<3.1	ug/kg	2.1	0.62	2	12/16/16 16:23	12/23/16 18:43	208-96-8	
Anthracene	<3.4	ug/kg	3.4	1.0	2	12/16/16 16:23	12/23/16 18:43	120-12-7	
Benzo(a)anthracene	51.4	ug/kg	3.6	1.1	2	12/16/16 16:23	12/23/16 18:43	56-55-3	
Benzo(a)pyrene	45.9	ug/kg	2.6	0.79	2	12/16/16 16:23	12/23/16 18:43	50-32-8	
Benzo(b)fluoranthene	65.5	ug/kg	4.4	1.3	2	12/16/16 16:23	12/23/16 18:43	205-99-2	
Benzo(g,h,i)perylene	41.9	ug/kg	3.5	1.0	2	12/16/16 16:23	12/23/16 18:43	191-24-2	
Benzo(k)fluoranthene	19.9	ug/kg	3.7	1.1	2	12/16/16 16:23	12/23/16 18:43	207-08-9	
Chrysene	61.8	ug/kg	4.2	1.3	2	12/16/16 16:23	12/23/16 18:43	218-01-9	
Dibenz(a,h)anthracene	<2.5	ug/kg	2.5	0.75	2	12/16/16 16:23	12/23/16 18:43	53-70-3	
Fluoranthene	104	ug/kg	6.0	1.8	2	12/16/16 16:23	12/23/16 18:43	206-44-0	
Fluorene	<2.9	ug/kg	2.9	0.88	2	12/16/16 16:23	12/23/16 18:43	86-73-7	
Indeno(1,2,3-cd)pyrene	25.2	ug/kg	5.7	1.7	2	12/16/16 16:23	12/23/16 18:43	193-39-5	
Naphthalene	94.1	ug/kg	2.7	0.81	2	12/16/16 16:23	12/23/16 18:43	91-20-3	
Phenanthrene	144	ug/kg	3.1	0.92	2	12/16/16 16:23	12/23/16 18:43	85-01-8	
Pyrene	86.7	ug/kg	6.3	1.9	2	12/16/16 16:23	12/23/16 18:43	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	78	%	41-125		2	12/16/16 16:23	12/23/16 18:43	321-60-8	D3
p-Terphenyl-d14 (S)	68	%	39-125		2	12/16/16 16:23	12/23/16 18:43	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1300	ug/kg	1300	390	1	12/16/16 10:19	12/16/16 19:34	67-64-1	
Allyl chloride	<170	ug/kg	170	51.0	1	12/16/16 10:19	12/16/16 19:34	107-05-1	
Benzene	38.5	ug/kg	17.1	5.1	1	12/16/16 10:19	12/16/16 19:34	71-43-2	
Bromobenzene	<50.7	ug/kg	50.7	15.2	1	12/16/16 10:19	12/16/16 19:34	108-86-1	
Bromochloromethane	<59.0	ug/kg	59.0	17.7	1	12/16/16 10:19	12/16/16 19:34	74-97-5	
Bromodichloromethane	<55.4	ug/kg	55.4	16.6	1	12/16/16 10:19	12/16/16 19:34	75-27-4	
Bromoform	<171	ug/kg	171	51.2	1	12/16/16 10:19	12/16/16 19:34	75-25-2	
Bromomethane	<201	ug/kg	201	60.3	1	12/16/16 10:19	12/16/16 19:34	74-83-9	
2-Butanone (MEK)	<261	ug/kg	261	78.4	1	12/16/16 10:19	12/16/16 19:34	78-93-3	
n-Butylbenzene	<47.9	ug/kg	47.9	14.4	1	12/16/16 10:19	12/16/16 19:34	104-51-8	
sec-Butylbenzene	<46.7	ug/kg	46.7	14.0	1	12/16/16 10:19	12/16/16 19:34	135-98-8	
tert-Butylbenzene	<62.5	ug/kg	62.5	18.8	1	12/16/16 10:19	12/16/16 19:34	98-06-6	
Carbon tetrachloride	<62.1	ug/kg	62.1	18.7	1	12/16/16 10:19	12/16/16 19:34	56-23-5	
Chlorobenzene	<34.4	ug/kg	34.4	10.3	1	12/16/16 10:19	12/16/16 19:34	108-90-7	
Chloroethane	<313	ug/kg	313	93.9	1	12/16/16 10:19	12/16/16 19:34	75-00-3	
Chloroform	<96.2	ug/kg	96.2	28.9	1	12/16/16 10:19	12/16/16 19:34	67-66-3	
Chloromethane	<95.8	ug/kg	95.8	28.8	1	12/16/16 10:19	12/16/16 19:34	74-87-3	
2-Chlorotoluene	<54.6	ug/kg	54.6	16.4	1	12/16/16 10:19	12/16/16 19:34	95-49-8	
4-Chlorotoluene	<51.8	ug/kg	51.8	15.6	1	12/16/16 10:19	12/16/16 19:34	106-43-4	
1,2-Dibromo-3-chloropropane	<116	ug/kg	116	116	1	12/16/16 10:19	12/16/16 19:34	96-12-8	
Dibromochloromethane	<170	ug/kg	170	51.0	1	12/16/16 10:19	12/16/16 19:34	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV  
Pace Project No.: 10373306

Sample: **SB0004\_2.5-5** Lab ID: **10373306034** Collected: 12/13/16 15:00 Received: 12/14/16 18:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<22.3	ug/kg	22.3	22.3	1	12/16/16 10:19	12/16/16 19:34	106-93-4	
Dibromomethane	<77.2	ug/kg	77.2	23.2	1	12/16/16 10:19	12/16/16 19:34	74-95-3	
1,2-Dichlorobenzene	<11.5	ug/kg	11.5	11.5	1	12/16/16 10:19	12/16/16 19:34	95-50-1	
1,3-Dichlorobenzene	<17.5	ug/kg	17.5	11.5	1	12/16/16 10:19	12/16/16 19:34	541-73-1	
1,4-Dichlorobenzene	<57.4	ug/kg	57.4	17.2	1	12/16/16 10:19	12/16/16 19:34	106-46-7	
Dichlorodifluoromethane	<60.6	ug/kg	60.6	18.2	1	12/16/16 10:19	12/16/16 19:34	75-71-8	CL
1,1-Dichloroethane	<23.1	ug/kg	23.1	23.1	1	12/16/16 10:19	12/16/16 19:34	75-34-3	
1,2-Dichloroethane	<18.8	ug/kg	18.8	18.8	1	12/16/16 10:19	12/16/16 19:34	107-06-2	
1,1-Dichloroethene	<15.1	ug/kg	15.1	15.1	1	12/16/16 10:19	12/16/16 19:34	75-35-4	
cis-1,2-Dichloroethene	<73.6	ug/kg	73.6	22.1	1	12/16/16 10:19	12/16/16 19:34	156-59-2	
trans-1,2-Dichloroethene	<95.4	ug/kg	95.4	28.6	1	12/16/16 10:19	12/16/16 19:34	156-60-5	
Dichlorofluoromethane	<542	ug/kg	542	163	1	12/16/16 10:19	12/16/16 19:34	75-43-4	
1,2-Dichloropropane	<20.6	ug/kg	20.6	20.6	1	12/16/16 10:19	12/16/16 19:34	78-87-5	
1,3-Dichloropropane	<70.8	ug/kg	70.8	21.3	1	12/16/16 10:19	12/16/16 19:34	142-28-9	
2,2-Dichloropropane	<62.9	ug/kg	62.9	18.9	1	12/16/16 10:19	12/16/16 19:34	594-20-7	
1,1-Dichloropropene	<17.9	ug/kg	17.9	17.9	1	12/16/16 10:19	12/16/16 19:34	563-58-6	
cis-1,3-Dichloropropene	<90.2	ug/kg	90.2	27.1	1	12/16/16 10:19	12/16/16 19:34	10061-01-5	
trans-1,3-Dichloropropene	<67.3	ug/kg	67.3	20.2	1	12/16/16 10:19	12/16/16 19:34	10061-02-6	
Diethyl ether (Ethyl ether)	<81.5	ug/kg	81.5	24.5	1	12/16/16 10:19	12/16/16 19:34	60-29-7	
Ethylbenzene	<62.9	ug/kg	62.9	18.9	1	12/16/16 10:19	12/16/16 19:34	100-41-4	
Hexachloro-1,3-butadiene	<186	ug/kg	186	55.9	1	12/16/16 10:19	12/16/16 19:34	87-68-3	
Isopropylbenzene (Cumene)	<70.4	ug/kg	70.4	21.2	1	12/16/16 10:19	12/16/16 19:34	98-82-8	
p-Isopropyltoluene	<32.8	ug/kg	32.8	9.9	1	12/16/16 10:19	12/16/16 19:34	99-87-6	
Methylene Chloride	<366	ug/kg	366	110	1	12/16/16 10:19	12/16/16 19:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	<131	ug/kg	131	39.3	1	12/16/16 10:19	12/16/16 19:34	108-10-1	
Methyl-tert-butyl ether	<37.0	ug/kg	37.0	11.1	1	12/16/16 10:19	12/16/16 19:34	1634-04-4	
Naphthalene	149	ug/kg	47.9	14.4	1	12/16/16 10:19	12/16/16 19:34	91-20-3	B
n-Propylbenzene	<59.0	ug/kg	59.0	17.7	1	12/16/16 10:19	12/16/16 19:34	103-65-1	
Styrene	<51.4	ug/kg	51.4	15.5	1	12/16/16 10:19	12/16/16 19:34	100-42-5	
1,1,1,2-Tetrachloroethane	<23.5	ug/kg	23.5	23.5	1	12/16/16 10:19	12/16/16 19:34	630-20-6	
1,1,2,2-Tetrachloroethane	<13.2	ug/kg	13.2	13.2	1	12/16/16 10:19	12/16/16 19:34	79-34-5	
Tetrachloroethene	<75.6	ug/kg	75.6	22.7	1	12/16/16 10:19	12/16/16 19:34	127-18-4	
Tetrahydrofuran	<981	ug/kg	981	295	1	12/16/16 10:19	12/16/16 19:34	109-99-9	
Toluene	151	ug/kg	62.9	18.9	1	12/16/16 10:19	12/16/16 19:34	108-88-3	
1,2,3-Trichlorobenzene	<17.1	ug/kg	17.1	17.1	1	12/16/16 10:19	12/16/16 19:34	87-61-6	
1,2,4-Trichlorobenzene	<18.3	ug/kg	18.3	18.3	1	12/16/16 10:19	12/16/16 19:34	120-82-1	
1,1,1-Trichloroethane	<24.8	ug/kg	24.8	24.8	1	12/16/16 10:19	12/16/16 19:34	71-55-6	
1,1,2-Trichloroethane	<12.8	ug/kg	12.8	12.8	1	12/16/16 10:19	12/16/16 19:34	79-00-5	
Trichloroethene	<56.6	ug/kg	56.6	17.0	1	12/16/16 10:19	12/16/16 19:34	79-01-6	
Trichlorofluoromethane	<199	ug/kg	199	59.7	1	12/16/16 10:19	12/16/16 19:34	75-69-4	
1,2,3-Trichloropropane	<61.6	ug/kg	61.6	61.6	1	12/16/16 10:19	12/16/16 19:34	96-18-4	
1,1,2-Trichlorotrifluoroethane	<142	ug/kg	142	42.8	1	12/16/16 10:19	12/16/16 19:34	76-13-1	
1,2,4-Trimethylbenzene	68.1	ug/kg	13.1	13.1	1	12/16/16 10:19	12/16/16 19:34	95-63-6	
1,3,5-Trimethylbenzene	<45.5	ug/kg	45.5	13.7	1	12/16/16 10:19	12/16/16 19:34	108-67-8	
Vinyl chloride	<25.4	ug/kg	25.4	7.6	1	12/16/16 10:19	12/16/16 19:34	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: SB0004\_2.5-5**      **Lab ID: 10373306034**      Collected: 12/13/16 15:00      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>233</b>	ug/kg	158	47.5	1	12/16/16 10:19	12/16/16 19:34	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	87	%	75-129		1	12/16/16 10:19	12/16/16 19:34	17060-07-0	
Toluene-d8 (S)	96	%	75-125		1	12/16/16 10:19	12/16/16 19:34	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		1	12/16/16 10:19	12/16/16 19:34	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: **SB0004\_5-6** Lab ID: **10373306035** Collected: 12/13/16 15:10 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	17.9	%	0.10	0.10	1		12/28/16 14:37		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	26.0	ug/kg	1.6	0.47	1	12/16/16 16:23	12/22/16 18:20	83-32-9	
Acenaphthylene	13.0	ug/kg	1.1	0.33	1	12/16/16 16:23	12/22/16 18:20	208-96-8	
Anthracene	28.0	ug/kg	1.8	0.55	1	12/16/16 16:23	12/22/16 18:20	120-12-7	
Benzo(a)anthracene	112	ug/kg	1.9	0.57	1	12/16/16 16:23	12/22/16 18:20	56-55-3	
Benzo(a)pyrene	66.2	ug/kg	1.4	0.42	1	12/16/16 16:23	12/22/16 18:20	50-32-8	
Benzo(b)fluoranthene	108	ug/kg	2.3	0.70	1	12/16/16 16:23	12/22/16 18:20	205-99-2	
Benzo(g,h,i)perylene	35.6	ug/kg	1.9	0.56	1	12/16/16 16:23	12/22/16 18:20	191-24-2	
Benzo(k)fluoranthene	35.0	ug/kg	2.0	0.60	1	12/16/16 16:23	12/22/16 18:20	207-08-9	
Chrysene	72.1	ug/kg	2.2	0.67	1	12/16/16 16:23	12/22/16 18:20	218-01-9	
Dibenz(a,h)anthracene	12.7	ug/kg	1.3	0.40	1	12/16/16 16:23	12/22/16 18:20	53-70-3	
Fluoranthene	515	ug/kg	15.8	4.8	5	12/16/16 16:23	12/23/16 15:58	206-44-0	
Fluorene	26.8	ug/kg	1.6	0.47	1	12/16/16 16:23	12/22/16 18:20	86-73-7	
Indeno(1,2,3-cd)pyrene	30.2	ug/kg	3.0	0.91	1	12/16/16 16:23	12/22/16 18:20	193-39-5	
Naphthalene	52.6	ug/kg	1.4	0.43	1	12/16/16 16:23	12/22/16 18:20	91-20-3	
Phenanthrene	105	ug/kg	1.6	0.49	1	12/16/16 16:23	12/22/16 18:20	85-01-8	
Pyrene	349	ug/kg	3.4	1.0	1	12/16/16 16:23	12/22/16 18:20	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	75	%	41-125		1	12/16/16 16:23	12/22/16 18:20	321-60-8	
p-Terphenyl-d14 (S)	79	%	39-125		1	12/16/16 16:23	12/22/16 18:20	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1310	ug/kg	1310	394	1	12/16/16 10:19	12/16/16 19:50	67-64-1	
Allyl chloride	<172	ug/kg	172	51.5	1	12/16/16 10:19	12/16/16 19:50	107-05-1	
Benzene	<17.3	ug/kg	17.3	5.2	1	12/16/16 10:19	12/16/16 19:50	71-43-2	
Bromobenzene	<51.2	ug/kg	51.2	15.4	1	12/16/16 10:19	12/16/16 19:50	108-86-1	
Bromochloromethane	<59.6	ug/kg	59.6	17.9	1	12/16/16 10:19	12/16/16 19:50	74-97-5	
Bromodichloromethane	<56.0	ug/kg	56.0	16.8	1	12/16/16 10:19	12/16/16 19:50	75-27-4	
Bromoform	<172	ug/kg	172	51.8	1	12/16/16 10:19	12/16/16 19:50	75-25-2	
Bromomethane	<203	ug/kg	203	60.9	1	12/16/16 10:19	12/16/16 19:50	74-83-9	
2-Butanone (MEK)	<264	ug/kg	264	79.3	1	12/16/16 10:19	12/16/16 19:50	78-93-3	
n-Butylbenzene	<48.4	ug/kg	48.4	14.5	1	12/16/16 10:19	12/16/16 19:50	104-51-8	
sec-Butylbenzene	<47.2	ug/kg	47.2	14.2	1	12/16/16 10:19	12/16/16 19:50	135-98-8	
tert-Butylbenzene	<63.2	ug/kg	63.2	19.0	1	12/16/16 10:19	12/16/16 19:50	98-06-6	
Carbon tetrachloride	<62.8	ug/kg	62.8	18.9	1	12/16/16 10:19	12/16/16 19:50	56-23-5	
Chlorobenzene	<34.8	ug/kg	34.8	10.5	1	12/16/16 10:19	12/16/16 19:50	108-90-7	
Chloroethane	<316	ug/kg	316	94.9	1	12/16/16 10:19	12/16/16 19:50	75-00-3	
Chloroform	<97.2	ug/kg	97.2	29.2	1	12/16/16 10:19	12/16/16 19:50	67-66-3	
Chloromethane	<96.8	ug/kg	96.8	29.1	1	12/16/16 10:19	12/16/16 19:50	74-87-3	
2-Chlorotoluene	<55.2	ug/kg	55.2	16.6	1	12/16/16 10:19	12/16/16 19:50	95-49-8	
4-Chlorotoluene	<52.4	ug/kg	52.4	15.7	1	12/16/16 10:19	12/16/16 19:50	106-43-4	
1,2-Dibromo-3-chloropropane	<117	ug/kg	117	117	1	12/16/16 10:19	12/16/16 19:50	96-12-8	
Dibromochloromethane	<172	ug/kg	172	51.5	1	12/16/16 10:19	12/16/16 19:50	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: **SB0004\_5-6** Lab ID: **10373306035** Collected: 12/13/16 15:10 Received: 12/14/16 18:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
1,2-Dibromoethane (EDB)	<22.6	ug/kg	22.6	22.6	1	12/16/16 10:19	12/16/16 19:50	106-93-4	
Dibromomethane	<78.0	ug/kg	78.0	23.4	1	12/16/16 10:19	12/16/16 19:50	74-95-3	
1,2-Dichlorobenzene	<11.6	ug/kg	11.6	11.6	1	12/16/16 10:19	12/16/16 19:50	95-50-1	
1,3-Dichlorobenzene	<17.7	ug/kg	17.7	11.6	1	12/16/16 10:19	12/16/16 19:50	541-73-1	
1,4-Dichlorobenzene	<58.0	ug/kg	58.0	17.4	1	12/16/16 10:19	12/16/16 19:50	106-46-7	
Dichlorodifluoromethane	<61.2	ug/kg	61.2	18.4	1	12/16/16 10:19	12/16/16 19:50	75-71-8	CL
1,1-Dichloroethane	<23.3	ug/kg	23.3	23.3	1	12/16/16 10:19	12/16/16 19:50	75-34-3	
1,2-Dichloroethane	<19.0	ug/kg	19.0	19.0	1	12/16/16 10:19	12/16/16 19:50	107-06-2	
1,1-Dichloroethene	<15.3	ug/kg	15.3	15.3	1	12/16/16 10:19	12/16/16 19:50	75-35-4	
cis-1,2-Dichloroethene	<74.4	ug/kg	74.4	22.3	1	12/16/16 10:19	12/16/16 19:50	156-59-2	
trans-1,2-Dichloroethene	<96.4	ug/kg	96.4	29.0	1	12/16/16 10:19	12/16/16 19:50	156-60-5	
Dichlorofluoromethane	<548	ug/kg	548	165	1	12/16/16 10:19	12/16/16 19:50	75-43-4	
1,2-Dichloropropane	<20.8	ug/kg	20.8	20.8	1	12/16/16 10:19	12/16/16 19:50	78-87-5	
1,3-Dichloropropane	<71.6	ug/kg	71.6	21.5	1	12/16/16 10:19	12/16/16 19:50	142-28-9	
2,2-Dichloropropane	<63.6	ug/kg	63.6	19.1	1	12/16/16 10:19	12/16/16 19:50	594-20-7	
1,1-Dichloropropene	<18.1	ug/kg	18.1	18.1	1	12/16/16 10:19	12/16/16 19:50	563-58-6	
cis-1,3-Dichloropropene	<91.2	ug/kg	91.2	27.4	1	12/16/16 10:19	12/16/16 19:50	10061-01-5	
trans-1,3-Dichloropropene	<68.0	ug/kg	68.0	20.4	1	12/16/16 10:19	12/16/16 19:50	10061-02-6	
Diethyl ether (Ethyl ether)	<82.4	ug/kg	82.4	24.8	1	12/16/16 10:19	12/16/16 19:50	60-29-7	
Ethylbenzene	<63.6	ug/kg	63.6	19.1	1	12/16/16 10:19	12/16/16 19:50	100-41-4	
Hexachloro-1,3-butadiene	<188	ug/kg	188	56.5	1	12/16/16 10:19	12/16/16 19:50	87-68-3	
Isopropylbenzene (Cumene)	<71.2	ug/kg	71.2	21.4	1	12/16/16 10:19	12/16/16 19:50	98-82-8	
p-Isopropyltoluene	<33.2	ug/kg	33.2	10	1	12/16/16 10:19	12/16/16 19:50	99-87-6	
Methylene Chloride	<371	ug/kg	371	111	1	12/16/16 10:19	12/16/16 19:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	<132	ug/kg	132	39.8	1	12/16/16 10:19	12/16/16 19:50	108-10-1	
Methyl-tert-butyl ether	<37.5	ug/kg	37.5	11.2	1	12/16/16 10:19	12/16/16 19:50	1634-04-4	
Naphthalene	90.7	ug/kg	48.4	14.5	1	12/16/16 10:19	12/16/16 19:50	91-20-3	B
n-Propylbenzene	<59.6	ug/kg	59.6	17.9	1	12/16/16 10:19	12/16/16 19:50	103-65-1	
Styrene	<52.0	ug/kg	52.0	15.6	1	12/16/16 10:19	12/16/16 19:50	100-42-5	
1,1,1,2-Tetrachloroethane	<23.8	ug/kg	23.8	23.8	1	12/16/16 10:19	12/16/16 19:50	630-20-6	
1,1,2,2-Tetrachloroethane	<13.3	ug/kg	13.3	13.3	1	12/16/16 10:19	12/16/16 19:50	79-34-5	
Tetrachloroethene	<76.4	ug/kg	76.4	22.9	1	12/16/16 10:19	12/16/16 19:50	127-18-4	
Tetrahydrofuran	<992	ug/kg	992	298	1	12/16/16 10:19	12/16/16 19:50	109-99-9	
Toluene	67.1	ug/kg	63.6	19.1	1	12/16/16 10:19	12/16/16 19:50	108-88-3	
1,2,3-Trichlorobenzene	<17.3	ug/kg	17.3	17.3	1	12/16/16 10:19	12/16/16 19:50	87-61-6	
1,2,4-Trichlorobenzene	<18.5	ug/kg	18.5	18.5	1	12/16/16 10:19	12/16/16 19:50	120-82-1	
1,1,1-Trichloroethane	<25.1	ug/kg	25.1	25.1	1	12/16/16 10:19	12/16/16 19:50	71-55-6	
1,1,2-Trichloroethane	<13.0	ug/kg	13.0	13.0	1	12/16/16 10:19	12/16/16 19:50	79-00-5	
Trichloroethene	<57.2	ug/kg	57.2	17.2	1	12/16/16 10:19	12/16/16 19:50	79-01-6	
Trichlorofluoromethane	<201	ug/kg	201	60.3	1	12/16/16 10:19	12/16/16 19:50	75-69-4	
1,2,3-Trichloropropane	<62.2	ug/kg	62.2	62.2	1	12/16/16 10:19	12/16/16 19:50	96-18-4	
1,1,2-Trichlorotrifluoroethane	<144	ug/kg	144	43.3	1	12/16/16 10:19	12/16/16 19:50	76-13-1	
1,2,4-Trimethylbenzene	29.8	ug/kg	13.2	13.2	1	12/16/16 10:19	12/16/16 19:50	95-63-6	
1,3,5-Trimethylbenzene	<46.0	ug/kg	46.0	13.8	1	12/16/16 10:19	12/16/16 19:50	108-67-8	
Vinyl chloride	<25.7	ug/kg	25.7	7.7	1	12/16/16 10:19	12/16/16 19:50	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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**Sample: SB0004\_5-6**      **Lab ID: 10373306035**      Collected: 12/13/16 15:10      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<160	ug/kg	160	48.1	1	12/16/16 10:19	12/16/16 19:50	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	88	%	75-129		1	12/16/16 10:19	12/16/16 19:50	17060-07-0	
Toluene-d8 (S)	94	%	75-125		1	12/16/16 10:19	12/16/16 19:50	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/16/16 10:19	12/16/16 19:50	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Sample: Trip Blank Lab ID: 10373306036 Collected: 12/13/16 00:00 Received: 12/14/16 18:15 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	<1090	ug/kg	1090	328	1	12/16/16 10:19	12/16/16 15:00	67-64-1	
Allyl chloride	<143	ug/kg	143	42.9	1	12/16/16 10:19	12/16/16 15:00	107-05-1	
Benzene	<14.4	ug/kg	14.4	4.3	1	12/16/16 10:19	12/16/16 15:00	71-43-2	
Bromobenzene	<42.6	ug/kg	42.6	12.8	1	12/16/16 10:19	12/16/16 15:00	108-86-1	
Bromochloromethane	<49.6	ug/kg	49.6	14.9	1	12/16/16 10:19	12/16/16 15:00	74-97-5	
Bromodichloromethane	<46.6	ug/kg	46.6	14.0	1	12/16/16 10:19	12/16/16 15:00	75-27-4	
Bromoform	<144	ug/kg	144	43.1	1	12/16/16 10:19	12/16/16 15:00	75-25-2	
Bromomethane	<169	ug/kg	169	50.7	1	12/16/16 10:19	12/16/16 15:00	74-83-9	
2-Butanone (MEK)	<220	ug/kg	220	66.0	1	12/16/16 10:19	12/16/16 15:00	78-93-3	
n-Butylbenzene	<40.3	ug/kg	40.3	12.1	1	12/16/16 10:19	12/16/16 15:00	104-51-8	
sec-Butylbenzene	<39.3	ug/kg	39.3	11.8	1	12/16/16 10:19	12/16/16 15:00	135-98-8	
tert-Butylbenzene	<52.6	ug/kg	52.6	15.8	1	12/16/16 10:19	12/16/16 15:00	98-06-6	
Carbon tetrachloride	<52.3	ug/kg	52.3	15.7	1	12/16/16 10:19	12/16/16 15:00	56-23-5	
Chlorobenzene	<29.0	ug/kg	29.0	8.7	1	12/16/16 10:19	12/16/16 15:00	108-90-7	
Chloroethane	<263	ug/kg	263	79.0	1	12/16/16 10:19	12/16/16 15:00	75-00-3	
Chloroform	<80.9	ug/kg	80.9	24.3	1	12/16/16 10:19	12/16/16 15:00	67-66-3	
Chloromethane	<80.6	ug/kg	80.6	24.2	1	12/16/16 10:19	12/16/16 15:00	74-87-3	
2-Chlorotoluene	<46.0	ug/kg	46.0	13.8	1	12/16/16 10:19	12/16/16 15:00	95-49-8	
4-Chlorotoluene	<43.6	ug/kg	43.6	13.1	1	12/16/16 10:19	12/16/16 15:00	106-43-4	
1,2-Dibromo-3-chloropropane	<97.5	ug/kg	97.5	97.5	1	12/16/16 10:19	12/16/16 15:00	96-12-8	
Dibromochloromethane	<143	ug/kg	143	42.9	1	12/16/16 10:19	12/16/16 15:00	124-48-1	
1,2-Dibromoethane (EDB)	<18.8	ug/kg	18.8	18.8	1	12/16/16 10:19	12/16/16 15:00	106-93-4	
Dibromomethane	<64.9	ug/kg	64.9	19.5	1	12/16/16 10:19	12/16/16 15:00	74-95-3	
1,2-Dichlorobenzene	<9.7	ug/kg	9.7	9.7	1	12/16/16 10:19	12/16/16 15:00	95-50-1	
1,3-Dichlorobenzene	<14.7	ug/kg	14.7	9.7	1	12/16/16 10:19	12/16/16 15:00	541-73-1	
1,4-Dichlorobenzene	<48.3	ug/kg	48.3	14.5	1	12/16/16 10:19	12/16/16 15:00	106-46-7	
Dichlorodifluoromethane	<50.9	ug/kg	50.9	15.3	1	12/16/16 10:19	12/16/16 15:00	75-71-8	CL
1,1-Dichloroethane	<19.4	ug/kg	19.4	19.4	1	12/16/16 10:19	12/16/16 15:00	75-34-3	
1,2-Dichloroethane	<15.8	ug/kg	15.8	15.8	1	12/16/16 10:19	12/16/16 15:00	107-06-2	
1,1-Dichloroethene	<12.7	ug/kg	12.7	12.7	1	12/16/16 10:19	12/16/16 15:00	75-35-4	
cis-1,2-Dichloroethene	<61.9	ug/kg	61.9	18.6	1	12/16/16 10:19	12/16/16 15:00	156-59-2	
trans-1,2-Dichloroethene	<80.3	ug/kg	80.3	24.1	1	12/16/16 10:19	12/16/16 15:00	156-60-5	
Dichlorofluoromethane	<456	ug/kg	456	137	1	12/16/16 10:19	12/16/16 15:00	75-43-4	
1,2-Dichloropropane	<17.3	ug/kg	17.3	17.3	1	12/16/16 10:19	12/16/16 15:00	78-87-5	
1,3-Dichloropropane	<59.6	ug/kg	59.6	17.9	1	12/16/16 10:19	12/16/16 15:00	142-28-9	
2,2-Dichloropropane	<52.9	ug/kg	52.9	15.9	1	12/16/16 10:19	12/16/16 15:00	594-20-7	
1,1-Dichloropropene	<15.1	ug/kg	15.1	15.1	1	12/16/16 10:19	12/16/16 15:00	563-58-6	
cis-1,3-Dichloropropene	<75.9	ug/kg	75.9	22.8	1	12/16/16 10:19	12/16/16 15:00	10061-01-5	
trans-1,3-Dichloropropene	<56.6	ug/kg	56.6	17.0	1	12/16/16 10:19	12/16/16 15:00	10061-02-6	
Diethyl ether (Ethyl ether)	<68.6	ug/kg	68.6	20.6	1	12/16/16 10:19	12/16/16 15:00	60-29-7	
Ethylbenzene	<52.9	ug/kg	52.9	15.9	1	12/16/16 10:19	12/16/16 15:00	100-41-4	
Hexachloro-1,3-butadiene	<157	ug/kg	157	47.0	1	12/16/16 10:19	12/16/16 15:00	87-68-3	
Isopropylbenzene (Cumene)	<59.3	ug/kg	59.3	17.8	1	12/16/16 10:19	12/16/16 15:00	98-82-8	
p-Isopropyltoluene	<27.6	ug/kg	27.6	8.3	1	12/16/16 10:19	12/16/16 15:00	99-87-6	
Methylene Chloride	<308	ug/kg	308	92.6	1	12/16/16 10:19	12/16/16 15:00	75-09-2	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

**Sample: Trip Blank**      **Lab ID: 10373306036**      Collected: 12/13/16 00:00      Received: 12/14/16 18:15      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
4-Methyl-2-pentanone (MIBK)	<110	ug/kg	110	33.1	1	12/16/16 10:19	12/16/16 15:00	108-10-1	
Methyl-tert-butyl ether	<31.2	ug/kg	31.2	9.4	1	12/16/16 10:19	12/16/16 15:00	1634-04-4	
Naphthalene	<40.3	ug/kg	40.3	12.1	1	12/16/16 10:19	12/16/16 15:00	91-20-3	
n-Propylbenzene	<49.6	ug/kg	49.6	14.9	1	12/16/16 10:19	12/16/16 15:00	103-65-1	
Styrene	<43.3	ug/kg	43.3	13.0	1	12/16/16 10:19	12/16/16 15:00	100-42-5	
1,1,1,2-Tetrachloroethane	<19.8	ug/kg	19.8	19.8	1	12/16/16 10:19	12/16/16 15:00	630-20-6	
1,1,2,2-Tetrachloroethane	<11.1	ug/kg	11.1	11.1	1	12/16/16 10:19	12/16/16 15:00	79-34-5	
Tetrachloroethene	<63.6	ug/kg	63.6	19.1	1	12/16/16 10:19	12/16/16 15:00	127-18-4	
Tetrahydrofuran	<826	ug/kg	826	248	1	12/16/16 10:19	12/16/16 15:00	109-99-9	
Toluene	<52.9	ug/kg	52.9	15.9	1	12/16/16 10:19	12/16/16 15:00	108-88-3	
1,2,3-Trichlorobenzene	<14.4	ug/kg	14.4	14.4	1	12/16/16 10:19	12/16/16 15:00	87-61-6	
1,2,4-Trichlorobenzene	<15.4	ug/kg	15.4	15.4	1	12/16/16 10:19	12/16/16 15:00	120-82-1	
1,1,1-Trichloroethane	<20.9	ug/kg	20.9	20.9	1	12/16/16 10:19	12/16/16 15:00	71-55-6	
1,1,2-Trichloroethane	<10.8	ug/kg	10.8	10.8	1	12/16/16 10:19	12/16/16 15:00	79-00-5	
Trichloroethene	<47.6	ug/kg	47.6	14.3	1	12/16/16 10:19	12/16/16 15:00	79-01-6	
Trichlorofluoromethane	<167	ug/kg	167	50.2	1	12/16/16 10:19	12/16/16 15:00	75-69-4	
1,2,3-Trichloropropane	<51.8	ug/kg	51.8	51.8	1	12/16/16 10:19	12/16/16 15:00	96-18-4	
1,1,2-Trichlorotrifluoroethane	<120	ug/kg	120	36.0	1	12/16/16 10:19	12/16/16 15:00	76-13-1	
1,2,4-Trimethylbenzene	<11.0	ug/kg	11.0	11.0	1	12/16/16 10:19	12/16/16 15:00	95-63-6	
1,3,5-Trimethylbenzene	<38.3	ug/kg	38.3	11.5	1	12/16/16 10:19	12/16/16 15:00	108-67-8	
Vinyl chloride	<21.4	ug/kg	21.4	6.4	1	12/16/16 10:19	12/16/16 15:00	75-01-4	
Xylene (Total)	<133	ug/kg	133	40.0	1	12/16/16 10:19	12/16/16 15:00	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	87	%	75-129		1	12/16/16 10:19	12/16/16 15:00	17060-07-0	
Toluene-d8 (S)	95	%	75-125		1	12/16/16 10:19	12/16/16 15:00	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125		1	12/16/16 10:19	12/16/16 15:00	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

QC Batch: 453550 Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 10373306001, 10373306002, 10373306003, 10373306004, 10373306005

SAMPLE DUPLICATE: 2482699

Parameter	Units	10373306005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.4	22.4	0	30	

SAMPLE DUPLICATE: 2482769

Parameter	Units	10374216020 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	2.9	2.9	2	30	

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**QUALITY CONTROL DATA**

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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QC Batch: 453569 Analysis Method: ASTM D2974  
 QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture  
 Associated Lab Samples: 10373306006, 10373306007, 10373306008, 10373306009, 10373306010, 10373306011, 10373306012,  
 10373306013, 10373306014, 10373306015, 10373306016, 10373306017, 10373306018, 10373306019,  
 10373306020, 10373306021, 10373306022, 10373306023, 10373306024, 10373306025

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SAMPLE DUPLICATE: 2482792

Parameter	Units	10373306006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	29.7	29.8	0	30	

SAMPLE DUPLICATE: 2482793

Parameter	Units	10373306025 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.5	20.7	1	30	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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QC Batch:	453593	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	10373306026, 10373306027, 10373306028, 10373306029, 10373306030, 10373306031, 10373306032, 10373306033, 10373306034, 10373306035		

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SAMPLE DUPLICATE: 2482874

Parameter	Units	10373306026 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	24.3	24.6	1	30	

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SAMPLE DUPLICATE: 2482891

Parameter	Units	10373617004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.9	18.8	0	30	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV  
Pace Project No.: 10373306

QC Batch: 451924 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10373306001

METHOD BLANK: 2474461 Matrix: Solid  
Associated Lab Samples: 10373306001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/16/16 01:43	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/16/16 01:43	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/16/16 01:43	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/16/16 01:43	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/16/16 01:43	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/16/16 01:43	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/16/16 01:43	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/16/16 01:43	
1,2,3-Trichlorobenzene	ug/kg	<14.4	14.4	12/16/16 01:43	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/16/16 01:43	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/16/16 01:43	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/16/16 01:43	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/16/16 01:43	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/16/16 01:43	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/16/16 01:43	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/16/16 01:43	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/16/16 01:43	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/16/16 01:43	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/16/16 01:43	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/16/16 01:43	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/16/16 01:43	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/16/16 01:43	
2-Butanone (MEK)	ug/kg	<220	220	12/16/16 01:43	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/16/16 01:43	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/16/16 01:43	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/16/16 01:43	
Acetone	ug/kg	<1090	1090	12/16/16 01:43	
Allyl chloride	ug/kg	<143	143	12/16/16 01:43	
Benzene	ug/kg	<14.4	14.4	12/16/16 01:43	
Bromobenzene	ug/kg	<42.6	42.6	12/16/16 01:43	
Bromochloromethane	ug/kg	<49.6	49.6	12/16/16 01:43	
Bromodichloromethane	ug/kg	<46.6	46.6	12/16/16 01:43	
Bromoform	ug/kg	<144	144	12/16/16 01:43	
Bromomethane	ug/kg	<169	169	12/16/16 01:43	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/16/16 01:43	
Chlorobenzene	ug/kg	<29.0	29.0	12/16/16 01:43	
Chloroethane	ug/kg	<263	263	12/16/16 01:43	
Chloroform	ug/kg	<80.9	80.9	12/16/16 01:43	
Chloromethane	ug/kg	<80.6	80.6	12/16/16 01:43	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/16/16 01:43	
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/16/16 01:43	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

METHOD BLANK: 2474461

Matrix: Solid

Associated Lab Samples: 10373306001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<143	143	12/16/16 01:43	
Dibromomethane	ug/kg	<64.9	64.9	12/16/16 01:43	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/16/16 01:43	
Dichlorofluoromethane	ug/kg	<456	456	12/16/16 01:43	
Diethyl ether (Ethyl ether)	ug/kg	<68.6	68.6	12/16/16 01:43	
Ethylbenzene	ug/kg	<52.9	52.9	12/16/16 01:43	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/16/16 01:43	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/16/16 01:43	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/16/16 01:43	
Methylene Chloride	ug/kg	<308	308	12/16/16 01:43	
n-Butylbenzene	ug/kg	<40.3	40.3	12/16/16 01:43	
n-Propylbenzene	ug/kg	<49.6	49.6	12/16/16 01:43	
Naphthalene	ug/kg	<40.3	40.3	12/16/16 01:43	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/16/16 01:43	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/16/16 01:43	
Styrene	ug/kg	<43.3	43.3	12/16/16 01:43	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/16/16 01:43	
Tetrachloroethene	ug/kg	<63.6	63.6	12/16/16 01:43	
Tetrahydrofuran	ug/kg	<826	826	12/16/16 01:43	
Toluene	ug/kg	<52.9	52.9	12/16/16 01:43	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/16/16 01:43	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/16/16 01:43	
Trichloroethene	ug/kg	<47.6	47.6	12/16/16 01:43	
Trichlorofluoromethane	ug/kg	<167	167	12/16/16 01:43	
Vinyl chloride	ug/kg	<21.4	21.4	12/16/16 01:43	
Xylene (Total)	ug/kg	<133	133	12/16/16 01:43	
1,2-Dichloroethane-d4 (S)	%	105	75-129	12/16/16 01:43	
4-Bromofluorobenzene (S)	%	100	75-125	12/16/16 01:43	
Toluene-d8 (S)	%	101	75-125	12/16/16 01:43	

LABORATORY CONTROL SAMPLE: 2474462

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	934	93	71-127	
1,1,1-Trichloroethane	ug/kg	1000	1020	102	64-132	
1,1,2,2-Tetrachloroethane	ug/kg	1000	980	98	50-138	
1,1,2-Trichloroethane	ug/kg	1000	995	100	69-126	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	945	94	53-144	
1,1-Dichloroethane	ug/kg	1000	998	100	61-134	
1,1-Dichloroethene	ug/kg	1000	977	98	57-135	
1,1-Dichloropropene	ug/kg	1000	1070	107	59-133	
1,2,3-Trichlorobenzene	ug/kg	1000	954	95	32-150	
1,2,3-Trichloropropane	ug/kg	1000	996	100	62-130	
1,2,4-Trichlorobenzene	ug/kg	1000	901	90	38-138	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

LABORATORY CONTROL SAMPLE: 2474462

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	960	96	70-127	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2300	92	40-141	
1,2-Dibromoethane (EDB)	ug/kg	1000	934	93	69-130	
1,2-Dichlorobenzene	ug/kg	1000	967	97	72-125	
1,2-Dichloroethane	ug/kg	1000	986	99	62-125	
1,2-Dichloropropane	ug/kg	1000	1020	102	67-126	
1,3,5-Trimethylbenzene	ug/kg	1000	941	94	71-129	
1,3-Dichlorobenzene	ug/kg	1000	920	92	72-126	
1,3-Dichloropropane	ug/kg	1000	974	97	70-125	
1,4-Dichlorobenzene	ug/kg	1000	932	93	70-126	
2,2-Dichloropropane	ug/kg	1000	770	77	48-134	
2-Butanone (MEK)	ug/kg	5000	5550	111	38-149	
2-Chlorotoluene	ug/kg	1000	962	96	71-129	
4-Chlorotoluene	ug/kg	1000	964	96	72-128	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5980	120	52-145	
Acetone	ug/kg	5000	5030	101	65-142	
Allyl chloride	ug/kg	1000	1000	100	54-125	
Benzene	ug/kg	1000	1010	101	64-125	
Bromobenzene	ug/kg	1000	952	95	70-125	
Bromochloromethane	ug/kg	1000	1020	102	68-125	
Bromodichloromethane	ug/kg	1000	988	99	67-125	
Bromoform	ug/kg	1000	808	81	56-127	
Bromomethane	ug/kg	1000	821	82	34-137	
Carbon tetrachloride	ug/kg	1000	957	96	58-138	
Chlorobenzene	ug/kg	1000	963	96	72-125	
Chloroethane	ug/kg	1000	1230	123	39-148	
Chloroform	ug/kg	1000	969	97	67-125	
Chloromethane	ug/kg	1000	935	94	54-125	
cis-1,2-Dichloroethene	ug/kg	1000	977	98	67-125	
cis-1,3-Dichloropropene	ug/kg	1000	959	96	62-127	
Dibromochloromethane	ug/kg	1000	974	97	67-125	
Dibromomethane	ug/kg	1000	951	95	63-129	
Dichlorodifluoromethane	ug/kg	1000	738	74	34-139	
Dichlorofluoromethane	ug/kg	1000	1210	121	36-144	
Diethyl ether (Ethyl ether)	ug/kg	1000	939	94	51-125	
Ethylbenzene	ug/kg	1000	1020	102	70-129	
Hexachloro-1,3-butadiene	ug/kg	1000	874	87	48-126	
Isopropylbenzene (Cumene)	ug/kg	1000	1000	100	75-127	
Methyl-tert-butyl ether	ug/kg	1000	987	99	61-125	
Methylene Chloride	ug/kg	1000	1020	102	60-126	
n-Butylbenzene	ug/kg	1000	925	93	67-125	
n-Propylbenzene	ug/kg	1000	1000	100	72-133	
Naphthalene	ug/kg	1000	994	99	35-147	
p-Isopropyltoluene	ug/kg	1000	925	92	69-127	
sec-Butylbenzene	ug/kg	1000	977	98	70-127	
Styrene	ug/kg	1000	963	96	73-125	
tert-Butylbenzene	ug/kg	1000	951	95	71-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

LABORATORY CONTROL SAMPLE: 2474462

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethane	ug/kg	1000	980	98	66-135	
Tetrahydrofuran	ug/kg	10000	8620	86	66-145	
Toluene	ug/kg	1000	992	99	69-125	
trans-1,2-Dichloroethene	ug/kg	1000	1040	104	55-135	
trans-1,3-Dichloropropene	ug/kg	1000	962	96	67-125	
Trichloroethene	ug/kg	1000	976	98	62-141	
Trichlorofluoromethane	ug/kg	1000	1100	110	38-150	
Vinyl chloride	ug/kg	1000	1040	104	57-131	
Xylene (Total)	ug/kg	3000	2970	99	73-128	
1,2-Dichloroethane-d4 (S)	%			103	75-129	
4-Bromofluorobenzene (S)	%			98	75-125	
Toluene-d8 (S)	%			102	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2474463 2474464

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10373298007 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	ug/kg	ND	1040	1070	1050	1060	102	99	59-135	0	30
1,1,1-Trichloroethane	ug/kg	ND	1040	1070	1120	1150	107	107	51-137	3	30
1,1,1,2-Tetrachloroethane	ug/kg	ND	1040	1070	1110	1050	107	98	40-149	6	30
1,1,2-Trichloroethane	ug/kg	ND	1040	1070	1090	1060	105	99	54-144	3	30
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1040	1070	999	1060	96	99	41-150	6	30
1,1-Dichloroethane	ug/kg	ND	1040	1070	1100	1110	106	103	53-131	1	30
1,1-Dichloroethene	ug/kg	ND	1040	1070	1080	1050	104	98	41-133	3	30
1,1-Dichloropropene	ug/kg	ND	1040	1070	1210	1200	117	112	50-139	1	30
1,2,3-Trichlorobenzene	ug/kg	ND	1040	1070	1040	1040	100	97	52-150	0	30
1,2,3-Trichloropropane	ug/kg	ND	1040	1070	1070	1060	103	99	61-137	1	30
1,2,4-Trichlorobenzene	ug/kg	ND	1040	1070	993	1010	96	94	52-142	2	30
1,2,4-Trimethylbenzene	ug/kg	ND	1040	1070	1050	1100	101	103	56-142	5	30
1,2-Dibromo-3-chloropropane	ug/kg	ND	2600	2670	2620	2420	101	91	47-143	8	30
1,2-Dibromoethane (EDB)	ug/kg	ND	1040	1070	1030	1010	99	94	57-136	2	30
1,2-Dichlorobenzene	ug/kg	ND	1040	1070	1050	1090	101	102	59-136	4	30
1,2-Dichloroethane	ug/kg	ND	1040	1070	1080	1090	104	102	52-133	0	30
1,2-Dichloropropane	ug/kg	ND	1040	1070	1150	1140	111	106	62-129	2	30
1,3,5-Trimethylbenzene	ug/kg	ND	1040	1070	1050	1100	101	103	54-143	5	30
1,3-Dichlorobenzene	ug/kg	ND	1040	1070	1030	1070	99	100	60-137	5	30
1,3-Dichloropropane	ug/kg	ND	1040	1070	1100	1070	106	100	57-138	3	30
1,4-Dichlorobenzene	ug/kg	ND	1040	1070	1020	1070	99	100	51-132	4	30
2,2-Dichloropropane	ug/kg	ND	1040	1070	862	860	83	80	50-134	0	30
2-Butanone (MEK)	ug/kg	ND	5200	5350	6100	5780	118	108	46-125	5	30
2-Chlorotoluene	ug/kg	ND	1040	1070	1060	1110	102	104	60-141	5	30
4-Chlorotoluene	ug/kg	ND	1040	1070	1050	1120	102	104	65-135	6	30
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5200	5350	6900	6260	133	117	47-146	10	30
Acetone	ug/kg	ND	5200	5350	5270	5420	101	101	45-148	3	30

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2474463 2474464												
Parameter	Units	MS		MSD		MS	MSD	MS	MSD	% Rec	Max	Qual
		10373298007	Spike	Spike	MS							
Allyl chloride	ug/kg	ND	1040	1070	1130	1120	108	105	50-135	0	30	
Benzene	ug/kg	ND	1040	1070	1120	1110	108	104	41-134	0	30	
Bromobenzene	ug/kg	ND	1040	1070	1060	1080	102	101	59-134	2	30	
Bromochloromethane	ug/kg	ND	1040	1070	1110	1150	106	108	56-127	4	30	
Bromodichloromethane	ug/kg	ND	1040	1070	1100	1120	106	105	55-136	2	30	
Bromoform	ug/kg	ND	1040	1070	955	917	92	86	51-139	4	30	
Bromomethane	ug/kg	ND	1040	1070	596	694	56	63	35-148	15	30	
Carbon tetrachloride	ug/kg	ND	1040	1070	1070	1090	103	102	50-140	1	30	
Chlorobenzene	ug/kg	ND	1040	1070	1080	1070	104	100	59-133	1	30	
Chloroethane	ug/kg	ND	1040	1070	773	1040	74	97	30-150	30	30	
Chloroform	ug/kg	ND	1040	1070	1070	1090	103	101	58-128	1	30	
Chloromethane	ug/kg	ND	1040	1070	603	815	58	76	38-125	30	30	
cis-1,2-Dichloroethene	ug/kg	ND	1040	1070	1060	1090	102	102	59-125	3	30	
cis-1,3-Dichloropropene	ug/kg	ND	1040	1070	1060	1070	102	100	57-133	0	30	
Dibromochloromethane	ug/kg	ND	1040	1070	1110	1080	107	101	54-141	3	30	
Dibromomethane	ug/kg	ND	1040	1070	1040	1050	101	98	53-134	1	30	
Dichlorodifluoromethane	ug/kg	ND	1040	1070	405	602	39	56	30-125	39	30	R1
Dichlorofluoromethane	ug/kg	ND	1040	1070	738	1090	71	102	30-150	38	30	R1
Diethyl ether (Ethyl ether)	ug/kg	ND	1040	1070	1060	1050	102	98	46-137	1	30	
Ethylbenzene	ug/kg	ND	1040	1070	1140	1160	110	108	56-141	1	30	
Hexachloro-1,3-butadiene	ug/kg	ND	1040	1070	981	1000	94	94	45-150	2	30	
Isopropylbenzene (Cumene)	ug/kg	ND	1040	1070	1130	1150	109	107	48-141	2	30	
Methyl-tert-butyl ether	ug/kg	ND	1040	1070	1100	1080	106	101	53-133	2	30	
Methylene Chloride	ug/kg	ND	1040	1070	1100	1080	104	99	42-135	2	30	
n-Butylbenzene	ug/kg	ND	1040	1070	1050	1070	101	100	52-140	2	30	
n-Propylbenzene	ug/kg	ND	1040	1070	1100	1160	106	108	57-142	5	30	
Naphthalene	ug/kg	ND	1040	1070	1150	1100	111	103	41-150	5	30	
p-Isopropyltoluene	ug/kg	ND	1040	1070	1030	1080	99	101	54-139	5	30	
sec-Butylbenzene	ug/kg	ND	1040	1070	1080	1140	104	107	30-150	5	30	
Styrene	ug/kg	ND	1040	1070	1090	1090	105	101	53-137	1	30	
tert-Butylbenzene	ug/kg	ND	1040	1070	1050	1120	102	104	59-138	6	30	
Tetrachloroethene	ug/kg	ND	1040	1070	1100	1090	106	102	53-138	1	30	
Tetrahydrofuran	ug/kg	ND	10400	10700	9420	9250	91	86	50-145	2	30	
Toluene	ug/kg	ND	1040	1070	1100	1080	106	101	55-134	2	30	
trans-1,2-Dichloroethene	ug/kg	ND	1040	1070	1110	1130	107	106	44-135	2	30	
trans-1,3-Dichloropropene	ug/kg	ND	1040	1070	1070	1060	103	99	59-139	1	30	
Trichloroethene	ug/kg	ND	1040	1070	1080	1090	104	102	52-143	1	30	
Trichlorofluoromethane	ug/kg	ND	1040	1070	629	894	61	84	30-150	35	30	R1
Vinyl chloride	ug/kg	ND	1040	1070	613	864	59	81	36-127	34	30	R1
Xylene (Total)	ug/kg	ND	3110	3210	3300	3330	106	104	56-137	1	30	
1,2-Dichloroethane-d4 (S)	%						108	103	75-129			
4-Bromofluorobenzene (S)	%						99	99	75-125			
Toluene-d8 (S)	%						103	101	75-125			

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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QC Batch: 451926 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
 Associated Lab Samples: 10373306002, 10373306003, 10373306004, 10373306005, 10373306006, 10373306007, 10373306008,  
 10373306009, 10373306010, 10373306011, 10373306012, 10373306013, 10373306014, 10373306015,  
 10373306016, 10373306017, 10373306018, 10373306019, 10373306020, 10373306021

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METHOD BLANK: 2474465 Matrix: Solid  
 Associated Lab Samples: 10373306002, 10373306003, 10373306004, 10373306005, 10373306006, 10373306007, 10373306008,  
 10373306009, 10373306010, 10373306011, 10373306012, 10373306013, 10373306014, 10373306015,  
 10373306016, 10373306017, 10373306018, 10373306019, 10373306020, 10373306021

Parameter	Units	Blank Reporting		Analyzed	Qualifiers
		Result	Limit		
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/16/16 12:15	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/16/16 12:15	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/16/16 12:15	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/16/16 12:15	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/16/16 12:15	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/16/16 12:15	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/16/16 12:15	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/16/16 12:15	
1,2,3-Trichlorobenzene	ug/kg	<14.4	14.4	12/16/16 12:15	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/16/16 12:15	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/16/16 12:15	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/16/16 12:15	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/16/16 12:15	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/16/16 12:15	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/16/16 12:15	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/16/16 12:15	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/16/16 12:15	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/16/16 12:15	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/16/16 12:15	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/16/16 12:15	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/16/16 12:15	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/16/16 12:15	
2-Butanone (MEK)	ug/kg	<220	220	12/16/16 12:15	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/16/16 12:15	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/16/16 12:15	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/16/16 12:15	
Acetone	ug/kg	<1090	1090	12/16/16 12:15	
Allyl chloride	ug/kg	<143	143	12/16/16 12:15	
Benzene	ug/kg	<14.4	14.4	12/16/16 12:15	
Bromobenzene	ug/kg	<42.6	42.6	12/16/16 12:15	
Bromochloromethane	ug/kg	<49.6	49.6	12/16/16 12:15	
Bromodichloromethane	ug/kg	<46.6	46.6	12/16/16 12:15	
Bromoform	ug/kg	<144	144	12/16/16 12:15	
Bromomethane	ug/kg	<169	169	12/16/16 12:15	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/16/16 12:15	
Chlorobenzene	ug/kg	<29.0	29.0	12/16/16 12:15	
Chloroethane	ug/kg	<263	263	12/16/16 12:15	
Chloroform	ug/kg	<80.9	80.9	12/16/16 12:15	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

METHOD BLANK: 2474465

Matrix: Solid

Associated Lab Samples: 10373306002, 10373306003, 10373306004, 10373306005, 10373306006, 10373306007, 10373306008, 10373306009, 10373306010, 10373306011, 10373306012, 10373306013, 10373306014, 10373306015, 10373306016, 10373306017, 10373306018, 10373306019, 10373306020, 10373306021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/kg	<80.6	80.6	12/16/16 12:15	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/16/16 12:15	
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/16/16 12:15	
Dibromochloromethane	ug/kg	<143	143	12/16/16 12:15	
Dibromomethane	ug/kg	<64.9	64.9	12/16/16 12:15	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/16/16 12:15	
Dichlorofluoromethane	ug/kg	<456	456	12/16/16 12:15	
Diethyl ether (Ethyl ether)	ug/kg	<68.6	68.6	12/16/16 12:15	
Ethylbenzene	ug/kg	<52.9	52.9	12/16/16 12:15	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/16/16 12:15	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/16/16 12:15	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/16/16 12:15	
Methylene Chloride	ug/kg	<308	308	12/16/16 12:15	
n-Butylbenzene	ug/kg	<40.3	40.3	12/16/16 12:15	
n-Propylbenzene	ug/kg	<49.6	49.6	12/16/16 12:15	
Naphthalene	ug/kg	<40.3	40.3	12/16/16 12:15	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/16/16 12:15	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/16/16 12:15	
Styrene	ug/kg	<43.3	43.3	12/16/16 12:15	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/16/16 12:15	
Tetrachloroethene	ug/kg	<63.6	63.6	12/16/16 12:15	
Tetrahydrofuran	ug/kg	<826	826	12/16/16 12:15	
Toluene	ug/kg	<52.9	52.9	12/16/16 12:15	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/16/16 12:15	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/16/16 12:15	
Trichloroethene	ug/kg	<47.6	47.6	12/16/16 12:15	
Trichlorofluoromethane	ug/kg	<167	167	12/16/16 12:15	
Vinyl chloride	ug/kg	<21.4	21.4	12/16/16 12:15	
Xylene (Total)	ug/kg	<133	133	12/16/16 12:15	
1,2-Dichloroethane-d4 (S)	%	106	75-129	12/16/16 12:15	
4-Bromofluorobenzene (S)	%	99	75-125	12/16/16 12:15	
Toluene-d8 (S)	%	101	75-125	12/16/16 12:15	

LABORATORY CONTROL SAMPLE & LCSD: 2474466

2474467

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	1000	905	100	91	71-127	10	20	
1,1,1-Trichloroethane	ug/kg	1000	1160	1050	116	105	64-132	10	20	
1,1,2,2-Tetrachloroethane	ug/kg	1000	1090	956	109	96	50-138	13	20	
1,1,2-Trichloroethane	ug/kg	1000	1090	966	109	97	69-126	12	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	1030	930	103	93	53-144	10	20	
1,1-Dichloroethane	ug/kg	1000	1150	1030	115	103	61-134	11	20	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

LABORATORY CONTROL SAMPLE & LCSD: 2474466		2474467									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1,1-Dichloroethene	ug/kg	1000	1130	999	113	100	57-135	12	20		
1,1-Dichloropropene	ug/kg	1000	1190	1050	119	105	59-133	12	20		
1,2,3-Trichlorobenzene	ug/kg	1000	1000	885	100	88	32-150	12	20		
1,2,3-Trichloropropane	ug/kg	1000	1130	958	113	96	62-130	17	20		
1,2,4-Trichlorobenzene	ug/kg	1000	986	844	99	84	38-138	16	20		
1,2,4-Trimethylbenzene	ug/kg	1000	1060	939	106	94	70-127	12	20		
1,2-Dibromo-3-chloropropane	ug/kg	2500	2520	2220	101	89	40-141	13	20		
1,2-Dibromoethane (EDB)	ug/kg	1000	1070	929	107	93	69-130	14	20		
1,2-Dichlorobenzene	ug/kg	1000	1040	914	104	91	72-125	13	20		
1,2-Dichloroethane	ug/kg	1000	1110	1020	111	102	62-125	9	20		
1,2-Dichloropropane	ug/kg	1000	1130	1010	113	101	67-126	12	20		
1,3,5-Trimethylbenzene	ug/kg	1000	1070	951	107	95	71-129	12	20		
1,3-Dichlorobenzene	ug/kg	1000	1000	898	100	90	72-126	11	20		
1,3-Dichloropropane	ug/kg	1000	1070	953	107	95	70-125	12	20		
1,4-Dichlorobenzene	ug/kg	1000	1020	896	102	90	70-126	13	20		
2,2-Dichloropropane	ug/kg	1000	1100	992	110	99	48-134	10	20		
2-Butanone (MEK)	ug/kg	5000	6190	5640	124	113	38-149	9	20		
2-Chlorotoluene	ug/kg	1000	1080	940	108	94	71-129	14	20		
4-Chlorotoluene	ug/kg	1000	1060	944	106	94	72-128	12	20		
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	6610	5920	132	118	52-145	11	20		
Acetone	ug/kg	5000	5260	4900	105	98	65-142	7	20		
Allyl chloride	ug/kg	1000	1220	1120	122	112	54-125	8	20		
Benzene	ug/kg	1000	1150	1030	115	103	64-125	11	20		
Bromobenzene	ug/kg	1000	1070	927	107	93	70-125	15	20		
Bromochloromethane	ug/kg	1000	1160	1030	116	103	68-125	12	20		
Bromodichloromethane	ug/kg	1000	1070	954	107	95	67-125	11	20		
Bromoform	ug/kg	1000	955	830	96	83	56-127	14	20		
Bromomethane	ug/kg	1000	880	825	88	82	34-137	7	20		
Carbon tetrachloride	ug/kg	1000	1060	960	106	96	58-138	10	20		
Chlorobenzene	ug/kg	1000	1080	965	108	96	72-125	11	20		
Chloroethane	ug/kg	1000	1400	1210	140	121	39-148	15	20		
Chloroform	ug/kg	1000	1080	974	108	97	67-125	10	20		
Chloromethane	ug/kg	1000	994	902	99	90	54-125	10	20		
cis-1,2-Dichloroethene	ug/kg	1000	1110	991	111	99	67-125	12	20		
cis-1,3-Dichloropropene	ug/kg	1000	1110	986	111	99	62-127	12	20		
Dibromochloromethane	ug/kg	1000	1090	977	109	98	67-125	11	20		
Dibromomethane	ug/kg	1000	1060	949	106	95	63-129	11	20		
Dichlorodifluoromethane	ug/kg	1000	804	757	80	76	34-139	6	20		
Dichlorofluoromethane	ug/kg	1000	1360	1220	136	122	36-144	11	20		
Diethyl ether (Ethyl ether)	ug/kg	1000	1090	981	109	98	51-125	10	20		
Ethylbenzene	ug/kg	1000	1120	980	112	98	70-129	13	20		
Hexachloro-1,3-butadiene	ug/kg	1000	970	880	97	88	48-126	10	20		
Isopropylbenzene (Cumene)	ug/kg	1000	1110	997	111	100	75-127	11	20		
Methyl-tert-butyl ether	ug/kg	1000	1100	976	110	98	61-125	12	20		
Methylene Chloride	ug/kg	1000	1080	965	108	97	60-126	11	20		
n-Butylbenzene	ug/kg	1000	1060	962	106	96	67-125	10	20		
n-Propylbenzene	ug/kg	1000	1130	1020	113	102	72-133	11	20		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

LABORATORY CONTROL SAMPLE & LCSD: 2474466

2474467

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Naphthalene	ug/kg	1000	1120	962	112	96	35-147	15	20	
p-Isopropyltoluene	ug/kg	1000	1080	964	108	96	69-127	11	20	
sec-Butylbenzene	ug/kg	1000	1100	983	110	98	70-127	12	20	
Styrene	ug/kg	1000	1080	959	108	96	73-125	12	20	
tert-Butylbenzene	ug/kg	1000	1070	950	107	95	71-130	12	20	
Tetrachloroethane	ug/kg	1000	1100	985	110	99	66-135	11	20	
Tetrahydrofuran	ug/kg	10000	9740	8990	97	90	66-145	8	20	
Toluene	ug/kg	1000	1080	977	108	98	69-125	10	20	
trans-1,2-Dichloroethene	ug/kg	1000	1150	1040	115	104	55-135	11	20	
trans-1,3-Dichloropropene	ug/kg	1000	1090	949	109	95	67-125	14	20	
Trichloroethene	ug/kg	1000	1090	957	109	96	62-141	13	20	
Trichlorofluoromethane	ug/kg	1000	1190	1090	119	109	38-150	8	20	
Vinyl chloride	ug/kg	1000	1120	1030	112	103	57-131	8	20	
Xylene (Total)	ug/kg	3000	3330	2940	111	98	73-128	12	20	
1,2-Dichloroethane-d4 (S)	%				105	107	75-129			
4-Bromofluorobenzene (S)	%				97	98	75-125			
Toluene-d8 (S)	%				101	101	75-125			

MATRIX SPIKE SAMPLE: 2474468

Parameter	Units	10373306002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<27.9	1680	1490	89	59-135	
1,1,1-Trichloroethane	ug/kg	<29.4	1680	1710	102	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	<15.6	1680	1680	100	40-149	
1,1,2-Trichloroethane	ug/kg	<15.2	1680	1600	95	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	<169	1680	1410	84	41-150	
1,1-Dichloroethane	ug/kg	<27.3	1680	1640	98	53-131	
1,1-Dichloroethene	ug/kg	<17.9	1680	1520	91	41-133	
1,1-Dichloropropene	ug/kg	<21.3	1680	1720	102	50-139	
1,2,3-Trichlorobenzene	ug/kg	<20.3	1680	1630	97	52-150	
1,2,3-Trichloropropane	ug/kg	<72.9	1680	1700	101	61-137	
1,2,4-Trichlorobenzene	ug/kg	<21.7	1680	1530	91	52-142	
1,2,4-Trimethylbenzene	ug/kg	<15.5	1680	1630	97	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	<137	4190	4070	97	47-143	
1,2-Dibromoethane (EDB)	ug/kg	<26.5	1680	1560	93	57-136	
1,2-Dichlorobenzene	ug/kg	<13.6	1680	1600	96	59-136	
1,2-Dichloroethane	ug/kg	<22.2	1680	1570	94	52-133	
1,2-Dichloropropane	ug/kg	<24.4	1680	1650	98	62-129	
1,3,5-Trimethylbenzene	ug/kg	<53.9	1680	1660	97	54-143	
1,3-Dichlorobenzene	ug/kg	<20.7	1680	1560	93	60-137	
1,3-Dichloropropane	ug/kg	<83.9	1680	1580	94	57-138	
1,4-Dichlorobenzene	ug/kg	<68.0	1680	1550	92	51-132	
2,2-Dichloropropane	ug/kg	<74.5	1680	1580	94	50-134	
2-Butanone (MEK)	ug/kg	<309	8390	8800	105	46-125	
2-Chlorotoluene	ug/kg	<64.7	1680	1630	97	60-141	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

MATRIX SPIKE SAMPLE: 2474468		10373306002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
4-Chlorotoluene	ug/kg	<61.4	1680	1630	97	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	<155	8390	10200	121	47-146	
Acetone	ug/kg	<1540	8390	7900	94	45-148	
Allyl chloride	ug/kg	<201	1680	1710	102	50-135	
Benzene	ug/kg	29800	1680	4200	-1530	41-134	M1
Bromobenzene	ug/kg	<60.0	1680	1570	94	59-134	
Bromochloromethane	ug/kg	<69.8	1680	1610	96	56-127	
Bromodichloromethane	ug/kg	<65.6	1680	1580	94	55-136	
Bromoform	ug/kg	<202	1680	1420	84	51-139	
Bromomethane	ug/kg	<238	1680	1290	74	35-148	
Carbon tetrachloride	ug/kg	<73.6	1680	1540	92	50-140	
Chlorobenzene	ug/kg	<40.8	1680	1580	94	59-133	
Chloroethane	ug/kg	<370	1680	1840	110	30-150	
Chloroform	ug/kg	<114	1680	1590	95	58-128	
Chloromethane	ug/kg	<113	1680	1360	81	38-125	
cis-1,2-Dichloroethene	ug/kg	<87.2	1680	1560	93	59-125	
cis-1,3-Dichloropropene	ug/kg	<107	1680	1610	96	57-133	
Dibromochloromethane	ug/kg	<201	1680	1640	98	54-141	
Dibromomethane	ug/kg	<91.4	1680	1550	92	53-134	
Dichlorodifluoromethane	ug/kg	<71.7	1680	902	54	30-125	
Dichlorofluoromethane	ug/kg	<642	1680	1870	112	30-150	
Diethyl ether (Ethyl ether)	ug/kg	<96.6	1680	1610	96	46-137	
Ethylbenzene	ug/kg	<74.5	1680	1680	98	56-141	
Hexachloro-1,3-butadiene	ug/kg	<220	1680	1600	96	45-150	
Isopropylbenzene (Cumene)	ug/kg	<83.4	1680	1720	103	48-141	
Methyl-tert-butyl ether	ug/kg	<43.9	1680	1650	98	53-133	
Methylene Chloride	ug/kg	<434	1680	1660	97	42-135	
n-Butylbenzene	ug/kg	<56.7	1680	1690	101	52-140	
n-Propylbenzene	ug/kg	<69.8	1680	1750	104	57-142	
Naphthalene	ug/kg	<56.7	1680	1770	103	41-150	
p-Isopropyltoluene	ug/kg	<38.9	1680	1710	102	54-139	
sec-Butylbenzene	ug/kg	<55.3	1680	1740	104	30-150	
Styrene	ug/kg	<60.9	1680	1610	96	53-137	
tert-Butylbenzene	ug/kg	<74.1	1680	1670	100	59-138	
Tetrachloroethene	ug/kg	<89.5	1680	1650	99	53-138	
Tetrahydrofuran	ug/kg	<1160	16800	14200	85	50-145	
Toluene	ug/kg	76.2	1680	1840	105	55-134	
trans-1,2-Dichloroethene	ug/kg	<113	1680	1670	99	44-135	
trans-1,3-Dichloropropene	ug/kg	<79.7	1680	1620	97	59-139	
Trichloroethene	ug/kg	<67.0	1680	1620	97	52-143	
Trichlorofluoromethane	ug/kg	<235	1680	1600	96	30-150	
Vinyl chloride	ug/kg	<30.1	1680	1540	92	36-127	
Xylene (Total)	ug/kg	346	5030	5050	94	56-137	
1,2-Dichloroethane-d4 (S)	%				109	75-129	
4-Bromofluorobenzene (S)	%				100	75-125	
Toluene-d8 (S)	%				103	75-125	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

SAMPLE DUPLICATE: 2474469

Parameter	Units	10373306003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<32.3	<36.3		30	
1,1,1-Trichloroethane	ug/kg	<34.1	<38.3		30	
1,1,2,2-Tetrachloroethane	ug/kg	<18.1	<20.3		30	
1,1,2-Trichloroethane	ug/kg	<17.6	<19.8		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	<196	<220		30	
1,1-Dichloroethane	ug/kg	<31.7	<35.5		30	
1,1-Dichloroethene	ug/kg	<20.7	<23.3		30	
1,1-Dichloropropene	ug/kg	<24.7	<27.7		30	
1,2,3-Trichlorobenzene	ug/kg	<23.5	<26.4		30	
1,2,3-Trichloropropane	ug/kg	<84.6	<94.9		30	
1,2,4-Trichlorobenzene	ug/kg	<25.2	<28.2		30	
1,2,4-Trimethylbenzene	ug/kg	<18.0	<20.1		30	
1,2-Dibromo-3-chloropropane	ug/kg	<159	<179		30	
1,2-Dibromoethane (EDB)	ug/kg	<30.7	<34.4		30	
1,2-Dichlorobenzene	ug/kg	<15.8	<17.7		30	
1,2-Dichloroethane	ug/kg	<25.8	<28.9		30	
1,2-Dichloropropane	ug/kg	<28.3	<31.7		30	
1,3,5-Trimethylbenzene	ug/kg	<62.6	<70.1		30	
1,3-Dichlorobenzene	ug/kg	<24.0	<26.9		30	
1,3-Dichloropropane	ug/kg	<97.4	<109		30	
1,4-Dichlorobenzene	ug/kg	<78.9	<88.4		30	
2,2-Dichloropropane	ug/kg	<86.5	<97.0		30	
2-Butanone (MEK)	ug/kg	<359	<403		30	
2-Chlorotoluene	ug/kg	<75.1	<84.2		30	
4-Chlorotoluene	ug/kg	<71.3	<79.9		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	<180	<202		30	
Acetone	ug/kg	<1780	<2000		30	
Allyl chloride	ug/kg	<233	<262		30	
Benzene	ug/kg	29900	38400	25	30	E
Bromobenzene	ug/kg	<69.6	<78.1		30	
Bromochloromethane	ug/kg	<81.1	<90.9		30	
Bromodichloromethane	ug/kg	<76.2	<85.4		30	
Bromoform	ug/kg	<234	<263		30	
Bromomethane	ug/kg	<276	<309		30	
Carbon tetrachloride	ug/kg	<85.4	<95.7		30	
Chlorobenzene	ug/kg	<47.3	<53.1		30	
Chloroethane	ug/kg	<430	<482		30	
Chloroform	ug/kg	<132	<148		30	
Chloromethane	ug/kg	<132	<148		30	
cis-1,2-Dichloroethene	ug/kg	<101	<113		30	
cis-1,3-Dichloropropene	ug/kg	<124	<139		30	
Dibromochloromethane	ug/kg	<233	<262		30	
Dibromomethane	ug/kg	<106	<119		30	
Dichlorodifluoromethane	ug/kg	<83.2	<93.3		30	
Dichlorofluoromethane	ug/kg	<745	<836		30	
Diethyl ether (Ethyl ether)	ug/kg	<112	<126		30	
Ethylbenzene	ug/kg	<86.5	<97.0		30	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

SAMPLE DUPLICATE: 2474469

Parameter	Units	10373306003 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<256	<287		30	
Isopropylbenzene (Cumene)	ug/kg	<96.8	<109		30	
Methyl-tert-butyl ether	ug/kg	<50.9	<57.1		30	
Methylene Chloride	ug/kg	<504	<565		30	
n-Butylbenzene	ug/kg	<65.8	<73.8		30	
n-Propylbenzene	ug/kg	<81.1	<90.9		30	
Naphthalene	ug/kg	<65.8	<73.8		30	
p-Isopropyltoluene	ug/kg	<45.2	<50.6		30	
sec-Butylbenzene	ug/kg	<64.2	<72.0		30	
Styrene	ug/kg	<70.7	<79.3		30	
tert-Butylbenzene	ug/kg	<86.0	<96.4		30	
Tetrachloroethene	ug/kg	<104	<116		30	
Tetrahydrofuran	ug/kg	<1350	<1510		30	
Toluene	ug/kg	<86.5	<97.0		30	
trans-1,2-Dichloroethene	ug/kg	<131	<147		30	
trans-1,3-Dichloropropene	ug/kg	<92.5	<104		30	
Trichloroethene	ug/kg	<77.8	<87.2		30	
Trichlorofluoromethane	ug/kg	<273	<306		30	
Vinyl chloride	ug/kg	<34.9	<39.2		30	
Xylene (Total)	ug/kg	<218	446		30	
1,2-Dichloroethane-d4 (S)	%	104	105	12		
4-Bromofluorobenzene (S)	%	101	99	10		
Toluene-d8 (S)	%	101	101	12		

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

QC Batch: 451962 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
 Associated Lab Samples: 10373306022, 10373306023, 10373306024, 10373306025, 10373306026, 10373306027, 10373306028, 10373306029, 10373306030

METHOD BLANK: 2474576 Matrix: Solid  
 Associated Lab Samples: 10373306022, 10373306023, 10373306024, 10373306025, 10373306026, 10373306027, 10373306028, 10373306029, 10373306030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/15/16 15:41	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/15/16 15:41	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/15/16 15:41	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/15/16 15:41	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/15/16 15:41	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/15/16 15:41	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/15/16 15:41	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/15/16 15:41	
1,2,3-Trichlorobenzene	ug/kg	18.7	14.4	12/15/16 15:41	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/15/16 15:41	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/15/16 15:41	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/15/16 15:41	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/15/16 15:41	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/15/16 15:41	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/15/16 15:41	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/15/16 15:41	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/15/16 15:41	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/15/16 15:41	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/15/16 15:41	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/15/16 15:41	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/15/16 15:41	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/15/16 15:41	
2-Butanone (MEK)	ug/kg	<220	220	12/15/16 15:41	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/15/16 15:41	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/15/16 15:41	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/15/16 15:41	
Acetone	ug/kg	<1090	1090	12/15/16 15:41	
Allyl chloride	ug/kg	<143	143	12/15/16 15:41	
Benzene	ug/kg	<14.4	14.4	12/15/16 15:41	
Bromobenzene	ug/kg	<42.6	42.6	12/15/16 15:41	
Bromochloromethane	ug/kg	<49.6	49.6	12/15/16 15:41	
Bromodichloromethane	ug/kg	<46.6	46.6	12/15/16 15:41	
Bromoform	ug/kg	<144	144	12/15/16 15:41	
Bromomethane	ug/kg	<169	169	12/15/16 15:41	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/15/16 15:41	
Chlorobenzene	ug/kg	<29.0	29.0	12/15/16 15:41	
Chloroethane	ug/kg	<263	263	12/15/16 15:41	
Chloroform	ug/kg	<80.9	80.9	12/15/16 15:41	
Chloromethane	ug/kg	<80.6	80.6	12/15/16 15:41	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/15/16 15:41	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

METHOD BLANK: 2474576

Matrix: Solid

Associated Lab Samples: 10373306022, 10373306023, 10373306024, 10373306025, 10373306026, 10373306027, 10373306028, 10373306029, 10373306030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/15/16 15:41	
Dibromochloromethane	ug/kg	<143	143	12/15/16 15:41	
Dibromomethane	ug/kg	<64.9	64.9	12/15/16 15:41	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/15/16 15:41	CL
Dichlorofluoromethane	ug/kg	<456	456	12/15/16 15:41	
Diethyl ether (Ethyl ether)	ug/kg	<68.6	68.6	12/15/16 15:41	
Ethylbenzene	ug/kg	<52.9	52.9	12/15/16 15:41	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/15/16 15:41	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/15/16 15:41	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/15/16 15:41	
Methylene Chloride	ug/kg	<308	308	12/15/16 15:41	
n-Butylbenzene	ug/kg	<40.3	40.3	12/15/16 15:41	
n-Propylbenzene	ug/kg	<49.6	49.6	12/15/16 15:41	
Naphthalene	ug/kg	<40.3	40.3	12/15/16 15:41	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/15/16 15:41	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/15/16 15:41	
Styrene	ug/kg	<43.3	43.3	12/15/16 15:41	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/15/16 15:41	
Tetrachloroethene	ug/kg	<63.6	63.6	12/15/16 15:41	
Tetrahydrofuran	ug/kg	<826	826	12/15/16 15:41	
Toluene	ug/kg	<52.9	52.9	12/15/16 15:41	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/15/16 15:41	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/15/16 15:41	
Trichloroethene	ug/kg	<47.6	47.6	12/15/16 15:41	
Trichlorofluoromethane	ug/kg	<167	167	12/15/16 15:41	
Vinyl chloride	ug/kg	<21.4	21.4	12/15/16 15:41	
Xylene (Total)	ug/kg	<133	133	12/15/16 15:41	
1,2-Dichloroethane-d4 (S)	%	88	75-129	12/15/16 15:41	
4-Bromofluorobenzene (S)	%	99	75-125	12/15/16 15:41	
Toluene-d8 (S)	%	98	75-125	12/15/16 15:41	

LABORATORY CONTROL SAMPLE & LCSD: 2474577

2474578

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	737	802	74	80	71-127	8	20	
1,1,1-Trichloroethane	ug/kg	1000	768	868	77	87	64-132	12	20	
1,1,2,2-Tetrachloroethane	ug/kg	1000	820	968	82	97	50-138	17	20	
1,1,2-Trichloroethane	ug/kg	1000	799	881	80	88	69-126	10	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	798	849	80	85	53-144	6	20	
1,1-Dichloroethane	ug/kg	1000	870	1010	87	101	61-134	15	20	
1,1-Dichloroethene	ug/kg	1000	787	885	79	89	57-135	12	20	
1,1-Dichloropropene	ug/kg	1000	895	1020	90	102	59-133	13	20	
1,2,3-Trichlorobenzene	ug/kg	1000	744	826	74	83	32-150	10	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

LABORATORY CONTROL SAMPLE & LCSD: 2474577

2474578

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,3-Trichloropropane	ug/kg	1000	777	869	78	87	62-130	11	20	
1,2,4-Trichlorobenzene	ug/kg	1000	753	839	75	84	38-138	11	20	
1,2,4-Trimethylbenzene	ug/kg	1000	783	873	78	87	70-127	11	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1630	1850	65	74	40-141	12	20	
1,2-Dibromoethane (EDB)	ug/kg	1000	752	849	75	85	69-130	12	20	
1,2-Dichlorobenzene	ug/kg	1000	797	887	80	89	72-125	11	20	
1,2-Dichloroethane	ug/kg	1000	720	836	72	84	62-125	15	20	
1,2-Dichloropropane	ug/kg	1000	920	1040	92	104	67-126	13	20	
1,3,5-Trimethylbenzene	ug/kg	1000	799	891	80	89	71-129	11	20	
1,3-Dichlorobenzene	ug/kg	1000	823	860	82	86	72-126	4	20	
1,3-Dichloropropane	ug/kg	1000	848	931	85	93	70-125	9	20	
1,4-Dichlorobenzene	ug/kg	1000	800	848	80	85	70-126	6	20	
2,2-Dichloropropane	ug/kg	1000	760	874	76	87	48-134	14	20	
2-Butanone (MEK)	ug/kg	5000	4230	5200	85	104	38-149	21	20	R1
2-Chlorotoluene	ug/kg	1000	759	843	76	84	71-129	10	20	
4-Chlorotoluene	ug/kg	1000	808	907	81	91	72-128	12	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4000	4780	80	96	52-145	18	20	
Acetone	ug/kg	5000	4810	4810	96	96	65-142	0	20	
Allyl chloride	ug/kg	1000	810	969	81	97	54-125	18	20	
Benzene	ug/kg	1000	900	1030	90	103	64-125	14	20	
Bromobenzene	ug/kg	1000	796	857	80	86	70-125	7	20	
Bromochloromethane	ug/kg	1000	896	1010	90	101	68-125	12	20	
Bromodichloromethane	ug/kg	1000	741	811	74	81	67-125	9	20	
Bromoform	ug/kg	1000	560	593	56	59	56-127	6	20	
Bromomethane	ug/kg	1000	694	769	69	77	34-137	10	20	
Carbon tetrachloride	ug/kg	1000	721	800	72	80	58-138	10	20	
Chlorobenzene	ug/kg	1000	808	845	81	84	72-125	4	20	
Chloroethane	ug/kg	1000	687	725	69	72	39-148	5	20	
Chloroform	ug/kg	1000	781	875	78	88	67-125	11	20	
Chloromethane	ug/kg	1000	656	760	66	76	54-125	15	20	
cis-1,2-Dichloroethene	ug/kg	1000	921	997	92	100	67-125	8	20	
cis-1,3-Dichloropropene	ug/kg	1000	818	880	82	88	62-127	7	20	
Dibromochloromethane	ug/kg	1000	687	709	69	71	67-125	3	20	
Dibromomethane	ug/kg	1000	819	850	82	85	63-129	4	20	
Dichlorodifluoromethane	ug/kg	1000	410	483	41	48	34-139	16	20	CL
Dichlorofluoromethane	ug/kg	1000	577	686	58	69	36-144	17	20	
Diethyl ether (Ethyl ether)	ug/kg	1000	717	786	72	79	51-125	9	20	
Ethylbenzene	ug/kg	1000	808	858	81	86	70-129	6	20	
Hexachloro-1,3-butadiene	ug/kg	1000	764	821	76	82	48-126	7	20	
Isopropylbenzene (Cumene)	ug/kg	1000	818	864	82	86	75-127	5	20	
Methyl-tert-butyl ether	ug/kg	1000	795	938	79	94	61-125	17	20	
Methylene Chloride	ug/kg	1000	818	952	82	95	60-126	15	20	
n-Butylbenzene	ug/kg	1000	837	920	84	92	67-125	9	20	
n-Propylbenzene	ug/kg	1000	824	904	82	90	72-133	9	20	
Naphthalene	ug/kg	1000	736	872	74	87	35-147	17	20	
p-Isopropyltoluene	ug/kg	1000	799	846	80	85	69-127	6	20	
sec-Butylbenzene	ug/kg	1000	830	908	83	91	70-127	9	20	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

LABORATORY CONTROL SAMPLE & LCSD: 2474577		2474578								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Styrene	ug/kg	1000	812	867	81	87	73-125	7	20	
tert-Butylbenzene	ug/kg	1000	805	872	81	87	71-130	8	20	
Tetrachloroethene	ug/kg	1000	853	876	85	88	66-135	3	20	
Tetrahydrofuran	ug/kg	10000	9270	9230	93	92	66-145	0	20	
Toluene	ug/kg	1000	869	940	87	94	69-125	8	20	
trans-1,2-Dichloroethene	ug/kg	1000	842	928	84	93	55-135	10	20	
trans-1,3-Dichloropropene	ug/kg	1000	763	868	76	87	67-125	13	20	
Trichloroethene	ug/kg	1000	888	913	89	91	62-141	3	20	
Trichlorofluoromethane	ug/kg	1000	805	747	81	75	38-150	7	20	
Vinyl chloride	ug/kg	1000	781	865	78	87	57-131	10	20	
Xylene (Total)	ug/kg	3000	2480	2630	83	88	73-128	6	20	
1,2-Dichloroethane-d4 (S)	%				86	96	75-129			
4-Bromofluorobenzene (S)	%				95	104	75-125			
Toluene-d8 (S)	%				96	99	75-125			

MATRIX SPIKE SAMPLE: 2474705		10373310002	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1060	1220	114	59-135	
1,1,1-Trichloroethane	ug/kg	ND	1060	1140	107	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1060	1280	121	40-149	
1,1,2-Trichloroethane	ug/kg	ND	1060	1260	119	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1060	1020	96	41-150	
1,1-Dichloroethane	ug/kg	ND	1060	1290	121	53-131	
1,1-Dichloroethene	ug/kg	ND	1060	1070	101	41-133	
1,1-Dichloropropene	ug/kg	ND	1060	1280	121	50-139	
1,2,3-Trichlorobenzene	ug/kg	ND	1060	1280	120	52-150	
1,2,3-Trichloropropane	ug/kg	ND	1060	1220	115	61-137	
1,2,4-Trichlorobenzene	ug/kg	ND	1060	1240	117	52-142	
1,2,4-Trimethylbenzene	ug/kg	ND	1060	1220	115	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2650	2630	99	47-143	
1,2-Dibromoethane (EDB)	ug/kg	ND	1060	1210	114	57-136	
1,2-Dichlorobenzene	ug/kg	ND	1060	1260	119	59-136	
1,2-Dichloroethane	ug/kg	ND	1060	1100	104	52-133	
1,2-Dichloropropane	ug/kg	ND	1060	1430	135	62-129 M1	
1,3,5-Trimethylbenzene	ug/kg	ND	1060	1220	115	54-143	
1,3-Dichlorobenzene	ug/kg	ND	1060	1260	119	60-137	
1,3-Dichloropropane	ug/kg	ND	1060	1280	120	57-138	
1,4-Dichlorobenzene	ug/kg	ND	1060	1230	115	51-132	
2,2-Dichloropropane	ug/kg	ND	1060	1100	104	50-134	
2-Butanone (MEK)	ug/kg	ND	5310	6620	125	46-125	
2-Chlorotoluene	ug/kg	ND	1060	1180	111	60-141	
4-Chlorotoluene	ug/kg	ND	1060	1270	119	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5310	6480	122	47-146	
Acetone	ug/kg	ND	5310	7150	135	45-148	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

MATRIX SPIKE SAMPLE: 2474705		10373310002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Allyl chloride	ug/kg	ND	1060	1140	108	50-135	
Benzene	ug/kg	ND	1060	1320	124	41-134	
Bromobenzene	ug/kg	ND	1060	1210	114	59-134	
Bromochloromethane	ug/kg	ND	1060	1370	129	56-127	M1
Bromodichloromethane	ug/kg	ND	1060	1140	107	55-136	
Bromoform	ug/kg	ND	1060	949	89	51-139	
Bromomethane	ug/kg	ND	1060	834	79	35-148	
Carbon tetrachloride	ug/kg	ND	1060	1070	101	50-140	
Chlorobenzene	ug/kg	ND	1060	1250	118	59-133	
Chloroethane	ug/kg	ND	1060	769	72	30-150	
Chloroform	ug/kg	ND	1060	1150	108	58-128	
Chloromethane	ug/kg	ND	1060	771	73	38-125	
cis-1,2-Dichloroethene	ug/kg	ND	1060	1350	127	59-125	M1
cis-1,3-Dichloropropene	ug/kg	ND	1060	1240	116	57-133	
Dibromochloromethane	ug/kg	ND	1060	1080	102	54-141	
Dibromomethane	ug/kg	ND	1060	1240	117	53-134	
Dichlorodifluoromethane	ug/kg	ND	1060	382	36	30-125	CL
Dichlorofluoromethane	ug/kg	ND	1060	808	76	30-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	1060	1040	98	46-137	
Ethylbenzene	ug/kg	ND	1060	1250	118	56-141	
Hexachloro-1,3-butadiene	ug/kg	ND	1060	1210	114	45-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1060	1260	119	48-141	
Methyl-tert-butyl ether	ug/kg	ND	1060	1280	120	53-133	
Methylene Chloride	ug/kg	ND	1060	1180	107	42-135	
n-Butylbenzene	ug/kg	ND	1060	1270	119	52-140	
n-Propylbenzene	ug/kg	ND	1060	1240	117	57-142	
Naphthalene	ug/kg	ND	1060	1230	116	41-150	
p-Isopropyltoluene	ug/kg	ND	1060	1220	115	54-139	
sec-Butylbenzene	ug/kg	ND	1060	1300	122	30-150	
Styrene	ug/kg	ND	1060	1270	120	53-137	
tert-Butylbenzene	ug/kg	ND	1060	1250	118	59-138	
Tetrachloroethene	ug/kg	ND	1060	1310	124	53-138	
Tetrahydrofuran	ug/kg	ND	10600	14200	134	50-145	
Toluene	ug/kg	ND	1060	1340	126	55-134	
trans-1,2-Dichloroethene	ug/kg	ND	1060	1190	112	44-135	
trans-1,3-Dichloropropene	ug/kg	ND	1060	1200	113	59-139	
Trichloroethene	ug/kg	ND	1060	1300	122	52-143	
Trichlorofluoromethane	ug/kg	ND	1060	795	75	30-150	
Vinyl chloride	ug/kg	ND	1060	916	86	36-127	
Xylene (Total)	ug/kg	ND	3180	3800	119	56-137	
1,2-Dichloroethane-d4 (S)	%					85	75-129
4-Bromofluorobenzene (S)	%					97	75-125
Toluene-d8 (S)	%					99	75-125

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

SAMPLE DUPLICATE: 2474580

Parameter	Units	10373310014 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	<23.3		30	
1,1,1-Trichloroethane	ug/kg	ND	<24.6		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	<13.1		30	
1,1,2-Trichloroethane	ug/kg	ND	<12.7		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	<141		30	
1,1-Dichloroethane	ug/kg	ND	<22.8		30	
1,1-Dichloroethene	ug/kg	ND	<14.9		30	
1,1-Dichloropropene	ug/kg	ND	<17.8		30	
1,2,3-Trichlorobenzene	ug/kg	ND	<16.9		30	
1,2,3-Trichloropropane	ug/kg	ND	<60.9		30	
1,2,4-Trichlorobenzene	ug/kg	ND	<18.1		30	
1,2,4-Trimethylbenzene	ug/kg	ND	<12.9		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	<115		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	<22.1		30	
1,2-Dichlorobenzene	ug/kg	ND	<11.4		30	
1,2-Dichloroethane	ug/kg	ND	<18.6		30	
1,2-Dichloropropane	ug/kg	ND	<20.3		30	
1,3,5-Trimethylbenzene	ug/kg	ND	<45.0		30	
1,3-Dichlorobenzene	ug/kg	ND	<17.3		30	
1,3-Dichloropropane	ug/kg	ND	<70.1		30	
1,4-Dichlorobenzene	ug/kg	ND	<56.8		30	
2,2-Dichloropropane	ug/kg	ND	<62.3		30	
2-Butanone (MEK)	ug/kg	ND	<259		30	
2-Chlorotoluene	ug/kg	ND	<54.1		30	
4-Chlorotoluene	ug/kg	ND	<51.3		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	<130		30	
Acetone	ug/kg	ND	<1280		30	
Allyl chloride	ug/kg	ND	<168		30	
Benzene	ug/kg	ND	<16.9		30	
Bromobenzene	ug/kg	ND	<50.1		30	
Bromochloromethane	ug/kg	ND	<58.4		30	
Bromodichloromethane	ug/kg	ND	<54.8		30	
Bromoform	ug/kg	ND	<169		30	
Bromomethane	ug/kg	ND	<199		30	
Carbon tetrachloride	ug/kg	ND	<61.5		30	
Chlorobenzene	ug/kg	ND	<34.1		30	
Chloroethane	ug/kg	ND	<309		30	
Chloroform	ug/kg	ND	<95.2		30	
Chloromethane	ug/kg	ND	<94.8		30	
cis-1,2-Dichloroethene	ug/kg	ND	<72.9		30	
cis-1,3-Dichloropropene	ug/kg	ND	<89.3		30	
Dibromochloromethane	ug/kg	ND	<168		30	
Dibromomethane	ug/kg	ND	<76.4		30	
Dichlorodifluoromethane	ug/kg	ND	<59.9		30	CL
Dichlorofluoromethane	ug/kg	ND	<537		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	<80.7		30	
Ethylbenzene	ug/kg	ND	<62.3		30	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

SAMPLE DUPLICATE: 2474580

Parameter	Units	10373310014 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	<184		30	
Isopropylbenzene (Cumene)	ug/kg	ND	<69.7		30	
Methyl-tert-butyl ether	ug/kg	ND	<36.7		30	
Methylene Chloride	ug/kg	ND	<363		30	
n-Butylbenzene	ug/kg	ND	<47.4		30	
n-Propylbenzene	ug/kg	ND	<58.4		30	
Naphthalene	ug/kg	ND	<47.4		30	
p-Isopropyltoluene	ug/kg	ND	<32.5		30	
sec-Butylbenzene	ug/kg	ND	<46.2		30	
Styrene	ug/kg	ND	<50.9		30	
tert-Butylbenzene	ug/kg	ND	<61.9		30	
Tetrachloroethene	ug/kg	ND	<74.8		30	
Tetrahydrofuran	ug/kg	ND	<971		30	
Toluene	ug/kg	ND	<62.3		30	
trans-1,2-Dichloroethene	ug/kg	ND	<94.4		30	
trans-1,3-Dichloropropene	ug/kg	ND	<66.6		30	
Trichloroethene	ug/kg	ND	<56.0		30	
Trichlorofluoromethane	ug/kg	ND	<197		30	
Vinyl chloride	ug/kg	ND	<25.1		30	
Xylene (Total)	ug/kg	ND	<157		30	
1,2-Dichloroethane-d4 (S)	%.	87	89	7		
4-Bromofluorobenzene (S)	%.	99	98	3		
Toluene-d8 (S)	%.	98	96	2		

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

QC Batch: 452111

Analysis Method: EPA 8260B

QC Batch Method: EPA 5035/5030B

Analysis Description: 8260B MSV 5030 Med Level

Associated Lab Samples: 10373306031, 10373306032

METHOD BLANK: 2475282

Matrix: Solid

Associated Lab Samples: 10373306031, 10373306032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/20/16 13:40	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/20/16 13:40	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/20/16 13:40	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/20/16 13:40	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/20/16 13:40	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/20/16 13:40	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/20/16 13:40	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/20/16 13:40	
1,2,3-Trichlorobenzene	ug/kg	<14.4	14.4	12/20/16 13:40	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/20/16 13:40	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/20/16 13:40	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/20/16 13:40	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/20/16 13:40	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/20/16 13:40	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/20/16 13:40	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/20/16 13:40	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/20/16 13:40	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/20/16 13:40	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/20/16 13:40	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/20/16 13:40	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/20/16 13:40	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/20/16 13:40	
2-Butanone (MEK)	ug/kg	<220	220	12/20/16 13:40	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/20/16 13:40	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/20/16 13:40	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/20/16 13:40	
Acetone	ug/kg	<1090	1090	12/20/16 13:40	
Allyl chloride	ug/kg	<143	143	12/20/16 13:40	
Benzene	ug/kg	<14.4	14.4	12/20/16 13:40	
Bromobenzene	ug/kg	<42.6	42.6	12/20/16 13:40	
Bromochloromethane	ug/kg	<49.6	49.6	12/20/16 13:40	
Bromodichloromethane	ug/kg	<46.6	46.6	12/20/16 13:40	
Bromoform	ug/kg	<144	144	12/20/16 13:40	
Bromomethane	ug/kg	<169	169	12/20/16 13:40	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/20/16 13:40	
Chlorobenzene	ug/kg	<29.0	29.0	12/20/16 13:40	
Chloroethane	ug/kg	<263	263	12/20/16 13:40	
Chloroform	ug/kg	<80.9	80.9	12/20/16 13:40	
Chloromethane	ug/kg	<80.6	80.6	12/20/16 13:40	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/20/16 13:40	
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/20/16 13:40	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

METHOD BLANK: 2475282

Matrix: Solid

Associated Lab Samples: 10373306031, 10373306032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<143	143	12/20/16 13:40	
Dibromomethane	ug/kg	<64.9	64.9	12/20/16 13:40	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/20/16 13:40	
Dichlorofluoromethane	ug/kg	<456	456	12/20/16 13:40	
Diethyl ether (Ethyl ether)	ug/kg	<68.6	68.6	12/20/16 13:40	
Ethylbenzene	ug/kg	<52.9	52.9	12/20/16 13:40	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/20/16 13:40	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/20/16 13:40	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/20/16 13:40	
Methylene Chloride	ug/kg	<308	308	12/20/16 13:40	
n-Butylbenzene	ug/kg	<40.3	40.3	12/20/16 13:40	
n-Propylbenzene	ug/kg	<49.6	49.6	12/20/16 13:40	
Naphthalene	ug/kg	<40.3	40.3	12/20/16 13:40	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/20/16 13:40	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/20/16 13:40	
Styrene	ug/kg	<43.3	43.3	12/20/16 13:40	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/20/16 13:40	
Tetrachloroethene	ug/kg	<63.6	63.6	12/20/16 13:40	
Tetrahydrofuran	ug/kg	<826	826	12/20/16 13:40	
Toluene	ug/kg	<52.9	52.9	12/20/16 13:40	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/20/16 13:40	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/20/16 13:40	
Trichloroethene	ug/kg	<47.6	47.6	12/20/16 13:40	
Trichlorofluoromethane	ug/kg	<167	167	12/20/16 13:40	
Vinyl chloride	ug/kg	<21.4	21.4	12/20/16 13:40	
Xylene (Total)	ug/kg	<133	133	12/20/16 13:40	
1,2-Dichloroethane-d4 (S)	%	89	75-129	12/20/16 13:40	
4-Bromofluorobenzene (S)	%	97	75-125	12/20/16 13:40	
Toluene-d8 (S)	%	97	75-125	12/20/16 13:40	

LABORATORY CONTROL SAMPLE: 2475283

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	930	93	71-127	
1,1,1-Trichloroethane	ug/kg	1000	857	86	64-132	
1,1,2,2-Tetrachloroethane	ug/kg	1000	988	99	50-138	
1,1,2-Trichloroethane	ug/kg	1000	940	94	69-126	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	856	86	53-144	
1,1-Dichloroethane	ug/kg	1000	899	90	61-134	
1,1-Dichloroethene	ug/kg	1000	843	84	57-135	
1,1-Dichloropropene	ug/kg	1000	918	92	59-133	
1,2,3-Trichlorobenzene	ug/kg	1000	1010	101	32-150	
1,2,3-Trichloropropane	ug/kg	1000	973	97	62-130	
1,2,4-Trichlorobenzene	ug/kg	1000	986	99	38-138	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

LABORATORY CONTROL SAMPLE: 2475283

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	946	95	70-127	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2260	90	40-141	
1,2-Dibromoethane (EDB)	ug/kg	1000	922	92	69-130	
1,2-Dichlorobenzene	ug/kg	1000	982	98	72-125	
1,2-Dichloroethane	ug/kg	1000	813	81	62-125	
1,2-Dichloropropane	ug/kg	1000	1000	100	67-126	
1,3,5-Trimethylbenzene	ug/kg	1000	939	94	71-129	
1,3-Dichlorobenzene	ug/kg	1000	975	98	72-126	
1,3-Dichloropropane	ug/kg	1000	956	96	70-125	
1,4-Dichlorobenzene	ug/kg	1000	933	93	70-126	
2,2-Dichloropropane	ug/kg	1000	851	85	48-134	
2-Butanone (MEK)	ug/kg	5000	4660	93	38-149	
2-Chlorotoluene	ug/kg	1000	881	88	71-129	
4-Chlorotoluene	ug/kg	1000	943	94	72-128	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5060	101	52-145	
Acetone	ug/kg	5000	4650	93	65-142	
Allyl chloride	ug/kg	1000	826	83	54-125	
Benzene	ug/kg	1000	897	90	64-125	
Bromobenzene	ug/kg	1000	941	94	70-125	
Bromochloromethane	ug/kg	1000	930	93	68-125	
Bromodichloromethane	ug/kg	1000	884	88	67-125	
Bromoform	ug/kg	1000	738	74	56-127	
Bromomethane	ug/kg	1000	743	74	34-137	
Carbon tetrachloride	ug/kg	1000	816	82	58-138	
Chlorobenzene	ug/kg	1000	916	92	72-125	
Chloroethane	ug/kg	1000	700	70	39-148	
Chloroform	ug/kg	1000	847	85	67-125	
Chloromethane	ug/kg	1000	609	61	54-125	
cis-1,2-Dichloroethene	ug/kg	1000	943	94	67-125	
cis-1,3-Dichloropropene	ug/kg	1000	886	89	62-127	
Dibromochloromethane	ug/kg	1000	854	85	67-125	
Dibromomethane	ug/kg	1000	953	95	63-129	
Dichlorodifluoromethane	ug/kg	1000	402	40	34-139	
Dichlorofluoromethane	ug/kg	1000	728	73	36-144	
Diethyl ether (Ethyl ether)	ug/kg	1000	776	78	51-125	
Ethylbenzene	ug/kg	1000	934	93	70-129	
Hexachloro-1,3-butadiene	ug/kg	1000	951	95	48-126	
Isopropylbenzene (Cumene)	ug/kg	1000	961	96	75-127	
Methyl-tert-butyl ether	ug/kg	1000	893	89	61-125	
Methylene Chloride	ug/kg	1000	850	85	60-126	
n-Butylbenzene	ug/kg	1000	972	97	67-125	
n-Propylbenzene	ug/kg	1000	938	94	72-133	
Naphthalene	ug/kg	1000	1020	102	35-147	
p-Isopropyltoluene	ug/kg	1000	928	93	69-127	
sec-Butylbenzene	ug/kg	1000	972	97	70-127	
Styrene	ug/kg	1000	916	92	73-125	
tert-Butylbenzene	ug/kg	1000	971	97	71-130	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

LABORATORY CONTROL SAMPLE: 2475283

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethane	ug/kg	1000	1010	101	66-135	
Tetrahydrofuran	ug/kg	10000	9000	90	66-145	
Toluene	ug/kg	1000	980	98	69-125	
trans-1,2-Dichloroethene	ug/kg	1000	889	89	55-135	
trans-1,3-Dichloropropene	ug/kg	1000	907	91	67-125	
Trichloroethene	ug/kg	1000	985	99	62-141	
Trichlorofluoromethane	ug/kg	1000	772	77	38-150	
Vinyl chloride	ug/kg	1000	722	72	57-131	
Xylene (Total)	ug/kg	3000	2820	94	73-128	
1,2-Dichloroethane-d4 (S)	%			88	75-129	
4-Bromofluorobenzene (S)	%			96	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2475285 2475286

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10373456010 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	ug/kg	ND	1080	1120	1010	1060	93	95	59-135	5	30
1,1,1-Trichloroethane	ug/kg	ND	1080	1120	937	957	87	86	51-137	2	30
1,1,2,2-Tetrachloroethane	ug/kg	ND	1080	1120	1080	1200	100	108	40-149	11	30
1,1,2-Trichloroethane	ug/kg	ND	1080	1120	1080	1060	100	95	54-144	1	30
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1080	1120	927	776	86	69	41-150	18	30
1,1-Dichloroethane	ug/kg	ND	1080	1120	1040	989	96	88	53-131	5	30
1,1-Dichloroethene	ug/kg	ND	1080	1120	940	791	87	71	41-133	17	30
1,1-Dichloropropene	ug/kg	ND	1080	1120	1060	1020	98	91	50-139	3	30
1,2,3-Trichlorobenzene	ug/kg	ND	1080	1120	1090	1190	101	107	52-150	9	30
1,2,3-Trichloropropane	ug/kg	ND	1080	1120	1020	1150	95	103	61-137	12	30
1,2,4-Trichlorobenzene	ug/kg	ND	1080	1120	1060	1150	98	103	52-142	8	30
1,2,4-Trimethylbenzene	ug/kg	ND	1080	1120	1020	1100	94	98	56-142	7	30
1,2-Dibromo-3-chloropropane	ug/kg	ND	2700	2800	2330	2510	86	90	47-143	7	30
1,2-Dibromoethane (EDB)	ug/kg	ND	1080	1120	993	1050	92	94	57-136	6	30
1,2-Dichlorobenzene	ug/kg	ND	1080	1120	1060	1150	98	103	59-136	9	30
1,2-Dichloroethane	ug/kg	ND	1080	1120	915	906	85	81	52-133	1	30
1,2-Dichloropropane	ug/kg	ND	1080	1120	1040	1050	96	94	62-129	0	30
1,3,5-Trimethylbenzene	ug/kg	ND	1080	1120	1060	1160	98	104	54-143	9	30
1,3-Dichlorobenzene	ug/kg	ND	1080	1120	1050	1110	97	100	60-137	6	30
1,3-Dichloropropane	ug/kg	ND	1080	1120	1010	1120	94	100	57-138	9	30
1,4-Dichlorobenzene	ug/kg	ND	1080	1120	1020	1120	95	100	51-132	9	30
2,2-Dichloropropane	ug/kg	ND	1080	1120	932	890	86	80	50-134	5	30
2-Butanone (MEK)	ug/kg	ND	5400	5590	5020	5400	93	97	46-125	7	30
2-Chlorotoluene	ug/kg	ND	1080	1120	987	1080	91	96	60-141	9	30
4-Chlorotoluene	ug/kg	ND	1080	1120	1060	1150	98	103	65-135	8	30
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5400	5590	5690	5780	105	103	47-146	2	30
Acetone	ug/kg	ND	5400	5590	5120	5010	95	90	45-148	2	30

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**QUALITY CONTROL DATA**

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2475285												2475286											
Parameter	Units	MS		MSD		MS		MSD		% Rec		Max		Qual									
		10373456010	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD												
Allyl chloride	ug/kg	ND	1080	1120	979	902	91	81	50-135	8	30												
Benzene	ug/kg	ND	1080	1120	981	1020	91	91	41-134	3	30												
Bromobenzene	ug/kg	ND	1080	1120	1010	1090	94	97	59-134	7	30												
Bromochloromethane	ug/kg	ND	1080	1120	1010	1030	94	92	56-127	2	30												
Bromodichloromethane	ug/kg	ND	1080	1120	927	989	86	88	55-136	6	30												
Bromoform	ug/kg	ND	1080	1120	789	818	73	73	51-139	4	30												
Bromomethane	ug/kg	ND	1080	1120	779	549	72	49	35-148		30												
Carbon tetrachloride	ug/kg	ND	1080	1120	906	871	84	78	50-140	4	30												
Chlorobenzene	ug/kg	ND	1080	1120	1030	1050	95	94	59-133	2	30												
Chloroethane	ug/kg	ND	1080	1120	721	477	67	43	30-150		30												
Chloroform	ug/kg	ND	1080	1120	919	920	85	82	58-128	0	30												
Chloromethane	ug/kg	ND	1080	1120	667	285	62	26	38-125	80	30	M1, R1											
cis-1,2-Dichloroethene	ug/kg	ND	1080	1120	1010	1020	93	91	59-125	1	30												
cis-1,3-Dichloropropene	ug/kg	ND	1080	1120	938	979	87	88	57-133	4	30												
Dibromochloromethane	ug/kg	ND	1080	1120	915	965	85	86	54-141	5	30												
Dibromomethane	ug/kg	ND	1080	1120	984	1010	91	90	53-134	2	30												
Dichlorodifluoromethane	ug/kg	ND	1080	1120	362	67.0	34	6	30-125		30	M1											
Dichlorofluoromethane	ug/kg	ND	1080	1120	732	619	68	55	30-150	17	30												
Diethyl ether (Ethyl ether)	ug/kg	ND	1080	1120	870	853	81	76	46-137	2	30												
Ethylbenzene	ug/kg	ND	1080	1120	1050	1080	97	97	56-141	3	30												
Hexachloro-1,3-butadiene	ug/kg	ND	1080	1120	1040	1120	96	100	45-150	8	30												
Isopropylbenzene (Cumene)	ug/kg	ND	1080	1120	1060	1110	98	99	48-141	5	30												
Methyl-tert-butyl ether	ug/kg	ND	1080	1120	979	1040	91	93	53-133	6	30												
Methylene Chloride	ug/kg	ND	1080	1120	935	932	83	80	42-135	0	30												
n-Butylbenzene	ug/kg	ND	1080	1120	1090	1180	101	105	52-140	8	30												
n-Propylbenzene	ug/kg	ND	1080	1120	1070	1150	99	103	57-142	7	30												
Naphthalene	ug/kg	ND	1080	1120	1070	1170	99	105	41-150	9	30												
p-Isopropyltoluene	ug/kg	ND	1080	1120	1040	1100	97	98	54-139	5	30												
sec-Butylbenzene	ug/kg	ND	1080	1120	1100	1170	102	104	30-150	5	30												
Styrene	ug/kg	ND	1080	1120	1010	1060	94	95	53-137	5	30												
tert-Butylbenzene	ug/kg	ND	1080	1120	1080	1130	100	101	59-138	5	30												
Tetrachloroethene	ug/kg	ND	1080	1120	1120	1150	103	102	53-138	3	30												
Tetrahydrofuran	ug/kg	ND	10800	11200	9120	10200	84	91	50-145	11	30												
Toluene	ug/kg	ND	1080	1120	1100	1110	102	99	55-134	1	30												
trans-1,2-Dichloroethene	ug/kg	ND	1080	1120	986	958	91	86	44-135	3	30												
trans-1,3-Dichloropropene	ug/kg	ND	1080	1120	1030	1070	95	96	59-139	4	30												
Trichloroethene	ug/kg	ND	1080	1120	1080	1060	100	95	52-143	1	30												
Trichlorofluoromethane	ug/kg	ND	1080	1120	705	514	65	46	30-150	31	30	R1											
Vinyl chloride	ug/kg	ND	1080	1120	764	393	71	35	36-127	64	30	M1, R1											
Xylene (Total)	ug/kg	ND	3240	3360	3140	3200	97	95	56-137	2	30												
1,2-Dichloroethane-d4 (S)	%						94	93	75-129														
4-Bromofluorobenzene (S)	%						100	100	75-125														
Toluene-d8 (S)	%						101	102	75-125														

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV  
Pace Project No.: 10373306

QC Batch: 452138 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10373306033, 10373306034, 10373306035, 10373306036

METHOD BLANK: 2475357 Matrix: Solid  
Associated Lab Samples: 10373306033, 10373306034, 10373306035, 10373306036

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/16/16 14:27	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/16/16 14:27	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/16/16 14:27	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/16/16 14:27	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/16/16 14:27	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/16/16 14:27	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/16/16 14:27	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/16/16 14:27	
1,2,3-Trichlorobenzene	ug/kg	<14.4	14.4	12/16/16 14:27	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/16/16 14:27	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/16/16 14:27	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/16/16 14:27	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/16/16 14:27	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/16/16 14:27	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/16/16 14:27	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/16/16 14:27	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/16/16 14:27	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/16/16 14:27	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/16/16 14:27	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/16/16 14:27	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/16/16 14:27	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/16/16 14:27	
2-Butanone (MEK)	ug/kg	<220	220	12/16/16 14:27	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/16/16 14:27	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/16/16 14:27	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/16/16 14:27	
Acetone	ug/kg	<1090	1090	12/16/16 14:27	
Allyl chloride	ug/kg	<143	143	12/16/16 14:27	
Benzene	ug/kg	<14.4	14.4	12/16/16 14:27	
Bromobenzene	ug/kg	<42.6	42.6	12/16/16 14:27	
Bromochloromethane	ug/kg	<49.6	49.6	12/16/16 14:27	
Bromodichloromethane	ug/kg	<46.6	46.6	12/16/16 14:27	
Bromoform	ug/kg	<144	144	12/16/16 14:27	
Bromomethane	ug/kg	<169	169	12/16/16 14:27	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/16/16 14:27	
Chlorobenzene	ug/kg	<29.0	29.0	12/16/16 14:27	
Chloroethane	ug/kg	<263	263	12/16/16 14:27	
Chloroform	ug/kg	<80.9	80.9	12/16/16 14:27	
Chloromethane	ug/kg	<80.6	80.6	12/16/16 14:27	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/16/16 14:27	
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/16/16 14:27	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

METHOD BLANK: 2475357

Matrix: Solid

Associated Lab Samples: 10373306033, 10373306034, 10373306035, 10373306036

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<143	143	12/16/16 14:27	
Dibromomethane	ug/kg	<64.9	64.9	12/16/16 14:27	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/16/16 14:27	CL
Dichlorofluoromethane	ug/kg	<456	456	12/16/16 14:27	
Diethyl ether (Ethyl ether)	ug/kg	<68.6	68.6	12/16/16 14:27	
Ethylbenzene	ug/kg	<52.9	52.9	12/16/16 14:27	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/16/16 14:27	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/16/16 14:27	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/16/16 14:27	
Methylene Chloride	ug/kg	<308	308	12/16/16 14:27	
n-Butylbenzene	ug/kg	<40.3	40.3	12/16/16 14:27	
n-Propylbenzene	ug/kg	<49.6	49.6	12/16/16 14:27	
Naphthalene	ug/kg	<40.3	40.3	12/16/16 14:27	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/16/16 14:27	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/16/16 14:27	
Styrene	ug/kg	<43.3	43.3	12/16/16 14:27	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/16/16 14:27	
Tetrachloroethene	ug/kg	<63.6	63.6	12/16/16 14:27	
Tetrahydrofuran	ug/kg	<826	826	12/16/16 14:27	
Toluene	ug/kg	<52.9	52.9	12/16/16 14:27	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/16/16 14:27	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/16/16 14:27	
Trichloroethene	ug/kg	<47.6	47.6	12/16/16 14:27	
Trichlorofluoromethane	ug/kg	<167	167	12/16/16 14:27	
Vinyl chloride	ug/kg	<21.4	21.4	12/16/16 14:27	
Xylene (Total)	ug/kg	<133	133	12/16/16 14:27	
1,2-Dichloroethane-d4 (S)	%	88	75-129	12/16/16 14:27	
4-Bromofluorobenzene (S)	%	100	75-125	12/16/16 14:27	
Toluene-d8 (S)	%	95	75-125	12/16/16 14:27	

LABORATORY CONTROL SAMPLE & LCSD: 2475358

2475359

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	776	799	78	80	71-127	3	20	
1,1,1-Trichloroethane	ug/kg	1000	755	831	76	83	64-132	10	20	
1,1,2,2-Tetrachloroethane	ug/kg	1000	882	917	88	92	50-138	4	20	
1,1,2-Trichloroethane	ug/kg	1000	810	826	81	83	69-126	2	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	743	796	74	80	53-144	7	20	
1,1-Dichloroethane	ug/kg	1000	903	956	90	96	61-134	6	20	
1,1-Dichloroethene	ug/kg	1000	792	780	79	78	57-135	2	20	
1,1-Dichloropropene	ug/kg	1000	841	903	84	90	59-133	7	20	
1,2,3-Trichlorobenzene	ug/kg	1000	808	897	81	90	32-150	10	20	
1,2,3-Trichloropropane	ug/kg	1000	828	795	83	80	62-130	4	20	
1,2,4-Trichlorobenzene	ug/kg	1000	801	842	80	84	38-138	5	20	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

LABORATORY CONTROL SAMPLE & LCSD: 2475358		2475359									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1,2,4-Trimethylbenzene	ug/kg	1000	798	840	80	84	70-127	5	20		
1,2-Dibromo-3-chloropropane	ug/kg	2500	1950	1950	78	78	40-141	0	20		
1,2-Dibromoethane (EDB)	ug/kg	1000	838	843	84	84	69-130	1	20		
1,2-Dichlorobenzene	ug/kg	1000	827	844	83	84	72-125	2	20		
1,2-Dichloroethane	ug/kg	1000	705	768	71	77	62-125	8	20		
1,2-Dichloropropane	ug/kg	1000	922	965	92	96	67-126	5	20		
1,3,5-Trimethylbenzene	ug/kg	1000	823	850	82	85	71-129	3	20		
1,3-Dichlorobenzene	ug/kg	1000	835	850	83	85	72-126	2	20		
1,3-Dichloropropane	ug/kg	1000	832	870	83	87	70-125	4	20		
1,4-Dichlorobenzene	ug/kg	1000	806	819	81	82	70-126	2	20		
2,2-Dichloropropane	ug/kg	1000	766	807	77	81	48-134	5	20		
2-Butanone (MEK)	ug/kg	5000	4400	4980	88	100	38-149	12	20		
2-Chlorotoluene	ug/kg	1000	772	807	77	81	71-129	4	20		
4-Chlorotoluene	ug/kg	1000	809	864	81	86	72-128	7	20		
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4440	4550	89	91	52-145	3	20		
Acetone	ug/kg	5000	4800	4940	96	99	65-142	3	20		
Allyl chloride	ug/kg	1000	837	921	84	92	54-125	10	20		
Benzene	ug/kg	1000	892	951	89	95	64-125	6	20		
Bromobenzene	ug/kg	1000	808	830	81	83	70-125	3	20		
Bromochloromethane	ug/kg	1000	873	910	87	91	68-125	4	20		
Bromodichloromethane	ug/kg	1000	741	772	74	77	67-125	4	20		
Bromoform	ug/kg	1000	648	661	65	66	56-127	2	20		
Bromomethane	ug/kg	1000	670	689	67	69	34-137	3	20		
Carbon tetrachloride	ug/kg	1000	707	767	71	77	58-138	8	20		
Chlorobenzene	ug/kg	1000	807	843	81	84	72-125	4	20		
Chloroethane	ug/kg	1000	712	646	71	65	39-148	10	20		
Chloroform	ug/kg	1000	756	804	76	80	67-125	6	20		
Chloromethane	ug/kg	1000	612	687	61	69	54-125	12	20		
cis-1,2-Dichloroethene	ug/kg	1000	881	967	88	97	67-125	9	20		
cis-1,3-Dichloropropene	ug/kg	1000	811	833	81	83	62-127	3	20		
Dibromochloromethane	ug/kg	1000	702	723	70	72	67-125	3	20		
Dibromomethane	ug/kg	1000	807	839	81	84	63-129	4	20		
Dichlorodifluoromethane	ug/kg	1000	406	454	41	45	34-139	11	20	CL	
Dichlorofluoromethane	ug/kg	1000	619	620	62	62	36-144	0	20		
Diethyl ether (Ethyl ether)	ug/kg	1000	747	750	75	75	51-125	0	20		
Ethylbenzene	ug/kg	1000	813	854	81	85	70-129	5	20		
Hexachloro-1,3-butadiene	ug/kg	1000	764	789	76	79	48-126	3	20		
Isopropylbenzene (Cumene)	ug/kg	1000	863	870	86	87	75-127	1	20		
Methyl-tert-butyl ether	ug/kg	1000	840	906	84	91	61-125	8	20		
Methylene Chloride	ug/kg	1000	801	841	80	84	60-126	5	20		
n-Butylbenzene	ug/kg	1000	858	893	86	89	67-125	4	20		
n-Propylbenzene	ug/kg	1000	847	902	85	90	72-133	6	20		
Naphthalene	ug/kg	1000	890	948	89	95	35-147	6	20		
p-Isopropyltoluene	ug/kg	1000	854	889	85	89	69-127	4	20		
sec-Butylbenzene	ug/kg	1000	854	901	85	90	70-127	5	20		
Styrene	ug/kg	1000	811	870	81	87	73-125	7	20		
tert-Butylbenzene	ug/kg	1000	849	892	85	89	71-130	5	20		

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

LABORATORY CONTROL SAMPLE & LCSD: 2475358

2475359

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/kg	1000	866	921	87	92	66-135	6	20	
Tetrahydrofuran	ug/kg	10000	10000	9800	100	98	66-145	2	20	
Toluene	ug/kg	1000	879	914	88	91	69-125	4	20	
trans-1,2-Dichloroethene	ug/kg	1000	842	883	84	88	55-135	5	20	
trans-1,3-Dichloropropene	ug/kg	1000	760	808	76	81	67-125	6	20	
Trichloroethene	ug/kg	1000	893	915	89	92	62-141	2	20	
Trichlorofluoromethane	ug/kg	1000	822	666	82	67	38-150	21	20	R1
Vinyl chloride	ug/kg	1000	747	797	75	80	57-131	6	20	
Xylene (Total)	ug/kg	3000	2510	2650	84	88	73-128	5	20	
1,2-Dichloroethane-d4 (S)	%				86	91	75-129			
4-Bromofluorobenzene (S)	%				98	99	75-125			
Toluene-d8 (S)	%				97	99	75-125			

MATRIX SPIKE SAMPLE: 2475360

Parameter	Units	10372649002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1350	916	68	59-135	
1,1,1-Trichloroethane	ug/kg	ND	1350	919	68	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1350	1130	84	40-149	
1,1,2-Trichloroethane	ug/kg	ND	1350	1010	75	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1350	761	57	41-150	
1,1-Dichloroethane	ug/kg	ND	1350	1090	81	53-131	
1,1-Dichloroethene	ug/kg	ND	1350	886	66	41-133	
1,1-Dichloropropene	ug/kg	ND	1350	1010	75	50-139	
1,2,3-Trichlorobenzene	ug/kg	ND	1350	1070	79	52-150	
1,2,3-Trichloropropane	ug/kg	ND	1350	943	70	61-137	
1,2,4-Trichlorobenzene	ug/kg	ND	1350	978	73	52-142	
1,2,4-Trimethylbenzene	ug/kg	ND	1350	1030	73	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	ND	3360	2170	65	47-143	
1,2-Dibromoethane (EDB)	ug/kg	ND	1350	986	73	57-136	
1,2-Dichlorobenzene	ug/kg	ND	1350	981	73	59-136	
1,2-Dichloroethane	ug/kg	ND	1350	852	63	52-133	
1,2-Dichloropropane	ug/kg	ND	1350	1090	81	62-129	
1,3,5-Trimethylbenzene	ug/kg	ND	1350	1030	76	54-143	
1,3-Dichlorobenzene	ug/kg	ND	1350	959	71	60-137	
1,3-Dichloropropane	ug/kg	ND	1350	1010	75	57-138	
1,4-Dichlorobenzene	ug/kg	ND	1350	979	73	51-132	
2,2-Dichloropropane	ug/kg	ND	1350	934	69	50-134	
2-Butanone (MEK)	ug/kg	ND	6730	5320	79	46-125	
2-Chlorotoluene	ug/kg	ND	1350	937	70	60-141	
4-Chlorotoluene	ug/kg	ND	1350	975	73	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	6730	5340	79	47-146	
Acetone	ug/kg	ND	6730	5280	78	45-148	
Allyl chloride	ug/kg	ND	1350	983	73	50-135	
Benzene	ug/kg	0.042 mg/kg	1350	1120	80	41-134	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

MATRIX SPIKE SAMPLE: 2475360		10372649002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromobenzene	ug/kg	ND	1350	927	69	59-134	
Bromochloromethane	ug/kg	ND	1350	1020	76	56-127	
Bromodichloromethane	ug/kg	ND	1350	891	66	55-136	
Bromoform	ug/kg	ND	1350	738	55	51-139	
Bromomethane	ug/kg	ND	1350	619	46	35-148	
Carbon tetrachloride	ug/kg	ND	1350	852	63	50-140	
Chlorobenzene	ug/kg	ND	1350	969	72	59-133	
Chloroethane	ug/kg	ND	1350	541	40	30-150	
Chloroform	ug/kg	ND	1350	914	68	58-128	
Chloromethane	ug/kg	ND	1350	512	38	38-125	
cis-1,2-Dichloroethene	ug/kg	ND	1350	1080	81	59-125	
cis-1,3-Dichloropropene	ug/kg	ND	1350	955	71	57-133	
Dibromochloromethane	ug/kg	ND	1350	809	60	54-141	
Dibromomethane	ug/kg	ND	1350	948	71	53-134	
Dichlorodifluoromethane	ug/kg	ND	1350	240	18	30-125	CL,M1
Dichlorofluoromethane	ug/kg	ND	1350	<613	41	30-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	1350	837	62	46-137	
Ethylbenzene	ug/kg	ND	1350	1020	74	56-141	
Hexachloro-1,3-butadiene	ug/kg	ND	1350	1020	76	45-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1350	1050	77	48-141	
Methyl-tert-butyl ether	ug/kg	ND	1350	1020	76	53-133	
Methylene Chloride	ug/kg	ND	1350	932	66	42-135	
n-Butylbenzene	ug/kg	ND	1350	1060	79	52-140	
n-Propylbenzene	ug/kg	ND	1350	1050	77	57-142	
Naphthalene	ug/kg	ND	1350	1200	81	41-150	
p-Isopropyltoluene	ug/kg	ND	1350	1060	77	54-139	
sec-Butylbenzene	ug/kg	ND	1350	1060	79	30-150	
Styrene	ug/kg	ND	1350	1030	77	53-137	
tert-Butylbenzene	ug/kg	ND	1350	1010	75	59-138	
Tetrachloroethene	ug/kg	ND	1350	1030	76	53-138	
Tetrahydrofuran	ug/kg	ND	13500	11000	82	50-145	
Toluene	ug/kg	0.18 mg/kg	1350	1290	83	55-134	
trans-1,2-Dichloroethene	ug/kg	ND	1350	980	73	44-135	
trans-1,3-Dichloropropene	ug/kg	ND	1350	924	69	59-139	
Trichloroethene	ug/kg	ND	1350	1030	77	52-143	
Trichlorofluoromethane	ug/kg	ND	1350	523	39	30-150	
Vinyl chloride	ug/kg	ND	1350	605	45	36-127	
Xylene (Total)	ug/kg	ND	4040	3230	80	56-137	
1,2-Dichloroethane-d4 (S)	%				91	75-129	
4-Bromofluorobenzene (S)	%				99	75-125	
Toluene-d8 (S)	%				102	75-125	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

SAMPLE DUPLICATE: 2475361

Parameter	Units	10372649003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	<27.0		30	
1,1,1-Trichloroethane	ug/kg	ND	<28.5		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	<15.1		30	
1,1,2-Trichloroethane	ug/kg	ND	<14.7		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	<163		30	
1,1-Dichloroethane	ug/kg	ND	<26.4		30	
1,1-Dichloroethene	ug/kg	ND	<17.3		30	
1,1-Dichloropropene	ug/kg	ND	<20.6		30	
1,2,3-Trichlorobenzene	ug/kg	ND	<19.6		30	
1,2,3-Trichloropropane	ug/kg	ND	<70.6		30	
1,2,4-Trichlorobenzene	ug/kg	ND	<21.0		30	
1,2,4-Trimethylbenzene	ug/kg	ND	<15.0		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	<133		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	<25.6		30	
1,2-Dichlorobenzene	ug/kg	ND	<13.2		30	
1,2-Dichloroethane	ug/kg	ND	<21.5		30	
1,2-Dichloropropane	ug/kg	ND	<23.6		30	
1,3,5-Trimethylbenzene	ug/kg	ND	<52.2		30	
1,3-Dichlorobenzene	ug/kg	ND	<20.0		30	
1,3-Dichloropropane	ug/kg	ND	<81.2		30	
1,4-Dichlorobenzene	ug/kg	ND	<65.8		30	
2,2-Dichloropropane	ug/kg	ND	<72.1		30	
2-Butanone (MEK)	ug/kg	ND	<299		30	
2-Chlorotoluene	ug/kg	ND	<62.6		30	
4-Chlorotoluene	ug/kg	ND	<59.4		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	<150		30	
Acetone	ug/kg	ND	<1490		30	
Allyl chloride	ug/kg	ND	<195		30	
Benzene	ug/kg	ND	<19.6		30	
Bromobenzene	ug/kg	ND	<58.1		30	
Bromochloromethane	ug/kg	ND	<67.6		30	
Bromodichloromethane	ug/kg	ND	<63.5		30	
Bromoform	ug/kg	ND	<196		30	
Bromomethane	ug/kg	ND	<230		30	
Carbon tetrachloride	ug/kg	ND	<71.2		30	
Chlorobenzene	ug/kg	ND	<39.5		30	
Chloroethane	ug/kg	ND	<358		30	
Chloroform	ug/kg	ND	<110		30	
Chloromethane	ug/kg	ND	<110		30	
cis-1,2-Dichloroethene	ug/kg	ND	<84.4		30	
cis-1,3-Dichloropropene	ug/kg	ND	<103		30	
Dibromochloromethane	ug/kg	ND	<195		30	
Dibromomethane	ug/kg	ND	<88.5		30	
Dichlorodifluoromethane	ug/kg	ND	<69.4		30	CL
Dichlorofluoromethane	ug/kg	ND	<622		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	<93.5		30	
Ethylbenzene	ug/kg	ND	<72.1		30	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

SAMPLE DUPLICATE: 2475361

Parameter	Units	10372649003 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	<213		30	
Isopropylbenzene (Cumene)	ug/kg	ND	<80.8		30	
Methyl-tert-butyl ether	ug/kg	ND	<42.5		30	
Methylene Chloride	ug/kg	ND	<420		30	
n-Butylbenzene	ug/kg	ND	<54.9		30	
n-Propylbenzene	ug/kg	ND	<67.6		30	
Naphthalene	ug/kg	ND	<54.9		30	
p-Isopropyltoluene	ug/kg	ND	<37.7		30	
sec-Butylbenzene	ug/kg	ND	<53.5		30	
Styrene	ug/kg	ND	<59.0		30	
tert-Butylbenzene	ug/kg	ND	<71.7		30	
Tetrachloroethene	ug/kg	ND	<86.7		30	
Tetrahydrofuran	ug/kg	ND	<1130		30	
Toluene	ug/kg	0.095 mg/kg	<72.1		30	
trans-1,2-Dichloroethene	ug/kg	ND	<109		30	
trans-1,3-Dichloropropene	ug/kg	ND	<77.1		30	
Trichloroethene	ug/kg	ND	<64.9		30	
Trichlorofluoromethane	ug/kg	ND	<228		30	
Vinyl chloride	ug/kg	ND	<29.1		30	
Xylene (Total)	ug/kg	ND	<182		30	
1,2-Dichloroethane-d4 (S)	%.	91	93	2		
4-Bromofluorobenzene (S)	%.	98	100	2		
Toluene-d8 (S)	%.	97	97	1		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

LABORATORY CONTROL SAMPLE: 2474386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	33.3	26.7	80	58-125	
Pyrene	ug/kg	33.3	29.8	89	65-125	
2-Fluorobiphenyl (S)	%.			95	41-125	
p-Terphenyl-d14 (S)	%.			84	39-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2474387 2474388

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10373306001 Result	Spike Conc.	Spike Conc.	Conc.								
Acenaphthene	ug/kg	<1.6	41.7	41.7	41.7	35.2	34.1	81	79	53-125	3	30	
Acenaphthylene	ug/kg	6.0	41.7	41.7	41.7	42.2	39.8	87	81	50-125	6	30	
Anthracene	ug/kg	9.1	41.7	41.7	41.7	49.3	48.4	96	94	60-125	2	30	
Benzo(a)anthracene	ug/kg	46.0	41.7	41.7	41.7	107	104	146	140	63-125	2	30 M1	
Benzo(a)pyrene	ug/kg	48.2	41.7	41.7	41.7	110	108	149	143	65-125	2	30 M1	
Benzo(b)fluoranthene	ug/kg	54.1	41.7	41.7	41.7	130	127	182	175	61-125	2	30 M1	
Benzo(g,h,i)perylene	ug/kg	29.2	41.7	41.7	41.7	75.5	72.9	111	105	62-125	4	30	
Benzo(k)fluoranthene	ug/kg	34.2	41.7	41.7	41.7	77.5	75.5	104	99	65-125	3	30	
Chrysene	ug/kg	49.4	41.7	41.7	41.7	104	101	130	123	62-125	3	30 M1	
Dibenz(a,h)anthracene	ug/kg	7.8	41.7	41.7	41.7	42.7	43.6	84	86	61-125	2	30	
Fluoranthene	ug/kg	77.5	41.7	41.7	41.7	173	161	230	201	64-125	7	30 M1	
Fluorene	ug/kg	<1.6	41.7	41.7	41.7	37.5	34.7	87	80	57-125	8	30	
Indeno(1,2,3-cd)pyrene	ug/kg	24.7	41.7	41.7	41.7	71.0	68.9	111	106	61-125	3	30	
Naphthalene	ug/kg	4.7	41.7	41.7	41.7	35.8	38.4	74	81	52-125	7	30	
Phenanthrene	ug/kg	26.2	41.7	41.7	41.7	79.5	73.4	128	113	58-125	8	30 M1	
Pyrene	ug/kg	76.2	41.7	41.7	41.7	153	145	185	166	65-125	5	30 M1	
2-Fluorobiphenyl (S)	%.							84	73	41-125			
p-Terphenyl-d14 (S)	%.							84	87	39-125			

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

QC Batch: 452202 Analysis Method: EPA 8270D by SIM  
 QC Batch Method: EPA 3550 Analysis Description: 8270D Solid PAH by SIM MSSV  
 Associated Lab Samples: 10373306021, 10373306022, 10373306023, 10373306024, 10373306025, 10373306026, 10373306027, 10373306028, 10373306029, 10373306030, 10373306031, 10373306032, 10373306033, 10373306034, 10373306035

METHOD BLANK: 2475576 Matrix: Solid

Associated Lab Samples: 10373306021, 10373306022, 10373306023, 10373306024, 10373306025, 10373306026, 10373306027, 10373306028, 10373306029, 10373306030, 10373306031, 10373306032, 10373306033, 10373306034, 10373306035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	<1.3	1.3	12/22/16 13:31	
Acenaphthylene	ug/kg	<0.91	0.91	12/22/16 13:31	
Anthracene	ug/kg	<1.5	1.5	12/22/16 13:31	
Benzo(a)anthracene	ug/kg	<1.6	1.6	12/22/16 13:31	
Benzo(a)pyrene	ug/kg	<1.2	1.2	12/22/16 13:31	
Benzo(b)fluoranthene	ug/kg	<1.9	1.9	12/22/16 13:31	
Benzo(g,h,i)perylene	ug/kg	<1.5	1.5	12/22/16 13:31	
Benzo(k)fluoranthene	ug/kg	<1.6	1.6	12/22/16 13:31	
Chrysene	ug/kg	<1.8	1.8	12/22/16 13:31	
Dibenz(a,h)anthracene	ug/kg	<1.1	1.1	12/22/16 13:31	
Fluoranthene	ug/kg	<2.6	2.6	12/22/16 13:31	
Fluorene	ug/kg	<1.3	1.3	12/22/16 13:31	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.5	2.5	12/22/16 13:31	
Naphthalene	ug/kg	<1.2	1.2	12/22/16 13:31	
Phenanthrene	ug/kg	<1.3	1.3	12/22/16 13:31	
Pyrene	ug/kg	<2.8	2.8	12/22/16 13:31	
2-Fluorobiphenyl (S)	%	82	41-125	12/22/16 13:31	
p-Terphenyl-d14 (S)	%	81	39-125	12/22/16 13:31	

LABORATORY CONTROL SAMPLE: 2475577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	33.3	27.5	83	53-125	
Acenaphthylene	ug/kg	33.3	28.1	84	50-125	
Anthracene	ug/kg	33.3	29.6	89	60-125	
Benzo(a)anthracene	ug/kg	33.3	32.2	97	63-125	
Benzo(a)pyrene	ug/kg	33.3	35.0	105	65-125	
Benzo(b)fluoranthene	ug/kg	33.3	32.3	97	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	31.4	94	62-125	
Benzo(k)fluoranthene	ug/kg	33.3	32.8	98	65-125	
Chrysene	ug/kg	33.3	28.9	87	62-125	
Dibenz(a,h)anthracene	ug/kg	33.3	31.4	94	61-125	
Fluoranthene	ug/kg	33.3	32.9	99	64-125	
Fluorene	ug/kg	33.3	29.2	88	57-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	32.2	97	61-125	
Naphthalene	ug/kg	33.3	33.4	100	52-125	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

LABORATORY CONTROL SAMPLE: 2475577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	33.3	28.9	87	58-125	
Pyrene	ug/kg	33.3	31.8	96	65-125	
2-Fluorobiphenyl (S)	%.			81	41-125	
p-Terphenyl-d14 (S)	%.			75	39-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2475578 2475579

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10373306021 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Acenaphthene	ug/kg	<1.7	43.5	43.5	43.7	40.0	100	92	53-125	9	30	
Acenaphthylene	ug/kg	<1.2	43.5	43.5	48.7	43.6	112	100	50-125	11	30	
Anthracene	ug/kg	<2.0	43.5	43.5	52.7	50.0	121	115	60-125	5	30	
Benzo(a)anthracene	ug/kg	<2.0	43.5	43.5	42.8	42.1	98	97	63-125	2	30	
Benzo(a)pyrene	ug/kg	<1.5	43.5	43.5	44.4	46.0	102	106	65-125	3	30	
Benzo(b)fluoranthene	ug/kg	<2.5	43.5	43.5	40.1	42.9	92	99	61-125	7	30	
Benzo(g,h,i)perylene	ug/kg	<2.0	43.5	43.5	39.4	39.9	91	92	62-125	1	30	
Benzo(k)fluoranthene	ug/kg	<2.1	43.5	43.5	41.9	39.7	96	91	65-125	5	30	
Chrysene	ug/kg	<2.4	43.5	43.5	37.4	37.7	86	87	62-125	1	30	
Dibenz(a,h)anthracene	ug/kg	<1.4	43.5	43.5	38.3	39.2	88	90	61-125	2	30	
Fluoranthene	ug/kg	<3.4	43.5	43.5	46.3	46.4	106	107	64-125	0	30	
Fluorene	ug/kg	<1.7	43.5	43.5	60.3	46.3	139	106	57-125	26	30	M1
Indeno(1,2,3-cd)pyrene	ug/kg	<3.3	43.5	43.5	39.9	40.7	92	94	61-125	2	30	
Naphthalene	ug/kg	688	43.5	43.5	718	625	70	-145	52-125	14	30	E,M1
Phenanthrene	ug/kg	<1.8	43.5	43.5	89.1	58.9	205	135	58-125	41	30	M1,R1
Pyrene	ug/kg	<3.6	43.5	43.5	44.8	43.7	103	100	65-125	2	30	
2-Fluorobiphenyl (S)	%.						70	75	41-125			
p-Terphenyl-d14 (S)	%.						73	74	39-125			

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## QUALIFIERS

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

D4 Sample was diluted due to the presence of high levels of target analytes.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

P3 Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.

R1 RPD value was outside control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10373306001	GP10_3-5	ASTM D2974	453550		
10373306002	GP10_5-7	ASTM D2974	453550		
10373306003	GP10_13-15	ASTM D2974	453550		
10373306004	GP11_0-2	ASTM D2974	453550		
10373306005	GP11_3-5	ASTM D2974	453550		
10373306006	GP11_8-10	ASTM D2974	453569		
10373306007	GP12_3-5	ASTM D2974	453569		
10373306008	GP12_5-7	ASTM D2974	453569		
10373306009	GP12_10-12	ASTM D2974	453569		
10373306010	GP13_3-5	ASTM D2974	453569		
10373306011	GP13_5-10	ASTM D2974	453569		
10373306012	GP13_10-15	ASTM D2974	453569		
10373306013	GP14_3-5	ASTM D2974	453569		
10373306014	GP14_9-10	ASTM D2974	453569		
10373306015	GP14_10-12	ASTM D2974	453569		
10373306016	GP15_3-5	ASTM D2974	453569		
10373306017	GP15_5-7	ASTM D2974	453569		
10373306018	GP15_13-15	ASTM D2974	453569		
10373306019	GP16_3-5	ASTM D2974	453569		
10373306020	GP16_7-8	ASTM D2974	453569		
10373306021	GP16_10-12	ASTM D2974	453569		
10373306022	GP17_3-5	ASTM D2974	453569		
10373306023	GP17_5-10	ASTM D2974	453569		
10373306024	GP17_10-15	ASTM D2974	453569		
10373306025	GP18_3-5	ASTM D2974	453569		
10373306026	GP18_5-7	ASTM D2974	453593		
10373306027	GP18_10-12	ASTM D2974	453593		
10373306028	GP13_10-15D	ASTM D2974	453593		
10373306029	GP10_5-7D	ASTM D2974	453593		
10373306030	SB0003_5-7	ASTM D2974	453593		
10373306031	SB0003_10-13	ASTM D2974	453593		
10373306032	SB0002_8-10	ASTM D2974	453593		
10373306033	SB0002_15-20	ASTM D2974	453593		
10373306034	SB0004_2.5-5	ASTM D2974	453593		
10373306035	SB0004_5-6	ASTM D2974	453593		
10373306001	GP10_3-5	EPA 3550	451908	EPA 8270D by SIM	453046
10373306002	GP10_5-7	EPA 3550	451908	EPA 8270D by SIM	453046
10373306003	GP10_13-15	EPA 3550	451908	EPA 8270D by SIM	453046
10373306004	GP11_0-2	EPA 3550	451908	EPA 8270D by SIM	453046
10373306005	GP11_3-5	EPA 3550	451908	EPA 8270D by SIM	453046
10373306006	GP11_8-10	EPA 3550	451908	EPA 8270D by SIM	453046
10373306007	GP12_3-5	EPA 3550	451908	EPA 8270D by SIM	453046
10373306008	GP12_5-7	EPA 3550	451908	EPA 8270D by SIM	453046
10373306009	GP12_10-12	EPA 3550	451908	EPA 8270D by SIM	453046
10373306010	GP13_3-5	EPA 3550	451908	EPA 8270D by SIM	453046
10373306011	GP13_5-10	EPA 3550	451908	EPA 8270D by SIM	453046
10373306012	GP13_10-15	EPA 3550	451908	EPA 8270D by SIM	453046

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10373306013	GP14_3-5	EPA 3550	451908	EPA 8270D by SIM	453046
10373306014	GP14_9-10	EPA 3550	451908	EPA 8270D by SIM	453046
10373306015	GP14_10-12	EPA 3550	451908	EPA 8270D by SIM	453046
10373306016	GP15_3-5	EPA 3550	451908	EPA 8270D by SIM	453046
10373306017	GP15_5-7	EPA 3550	451908	EPA 8270D by SIM	453046
10373306018	GP15_13-15	EPA 3550	451908	EPA 8270D by SIM	453046
10373306019	GP16_3-5	EPA 3550	451908	EPA 8270D by SIM	453046
10373306020	GP16_7-8	EPA 3550	451908	EPA 8270D by SIM	453046
10373306021	GP16_10-12	EPA 3550	452202	EPA 8270D by SIM	453029
10373306022	GP17_3-5	EPA 3550	452202	EPA 8270D by SIM	453029
10373306023	GP17_5-10	EPA 3550	452202	EPA 8270D by SIM	453029
10373306024	GP17_10-15	EPA 3550	452202	EPA 8270D by SIM	453029
10373306025	GP18_3-5	EPA 3550	452202	EPA 8270D by SIM	453029
10373306026	GP18_5-7	EPA 3550	452202	EPA 8270D by SIM	453029
10373306027	GP18_10-12	EPA 3550	452202	EPA 8270D by SIM	453029
10373306028	GP13_10-15D	EPA 3550	452202	EPA 8270D by SIM	453029
10373306029	GP10_5-7D	EPA 3550	452202	EPA 8270D by SIM	453029
10373306030	SB0003_5-7	EPA 3550	452202	EPA 8270D by SIM	453029
10373306031	SB0003_10-13	EPA 3550	452202	EPA 8270D by SIM	453029
10373306032	SB0002_8-10	EPA 3550	452202	EPA 8270D by SIM	453029
10373306033	SB0002_15-20	EPA 3550	452202	EPA 8270D by SIM	453029
10373306034	SB0004_2.5-5	EPA 3550	452202	EPA 8270D by SIM	453029
10373306035	SB0004_5-6	EPA 3550	452202	EPA 8270D by SIM	453029
10373306001	GP10_3-5	EPA 5035/5030B	451924	EPA 8260B	452180
10373306002	GP10_5-7	EPA 5035/5030B	451926	EPA 8260B	452377
10373306003	GP10_13-15	EPA 5035/5030B	451926	EPA 8260B	452377
10373306004	GP11_0-2	EPA 5035/5030B	451926	EPA 8260B	452377
10373306005	GP11_3-5	EPA 5035/5030B	451926	EPA 8260B	452377
10373306006	GP11_8-10	EPA 5035/5030B	451926	EPA 8260B	452377
10373306007	GP12_3-5	EPA 5035/5030B	451926	EPA 8260B	452377
10373306008	GP12_5-7	EPA 5035/5030B	451926	EPA 8260B	452377
10373306009	GP12_10-12	EPA 5035/5030B	451926	EPA 8260B	452377
10373306010	GP13_3-5	EPA 5035/5030B	451926	EPA 8260B	452377
10373306011	GP13_5-10	EPA 5035/5030B	451926	EPA 8260B	452377
10373306012	GP13_10-15	EPA 5035/5030B	451926	EPA 8260B	452377
10373306013	GP14_3-5	EPA 5035/5030B	451926	EPA 8260B	452377
10373306014	GP14_9-10	EPA 5035/5030B	451926	EPA 8260B	452377
10373306015	GP14_10-12	EPA 5035/5030B	451926	EPA 8260B	452377
10373306016	GP15_3-5	EPA 5035/5030B	451926	EPA 8260B	452377
10373306017	GP15_5-7	EPA 5035/5030B	451926	EPA 8260B	452377
10373306018	GP15_13-15	EPA 5035/5030B	451926	EPA 8260B	452377
10373306019	GP16_3-5	EPA 5035/5030B	451926	EPA 8260B	452377
10373306020	GP16_7-8	EPA 5035/5030B	451926	EPA 8260B	452377
10373306021	GP16_10-12	EPA 5035/5030B	451926	EPA 8260B	452377
10373306022	GP17_3-5	EPA 5035/5030B	451962	EPA 8260B	452139
10373306023	GP17_5-10	EPA 5035/5030B	451962	EPA 8260B	452139
10373306024	GP17_10-15	EPA 5035/5030B	451962	EPA 8260B	452139

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2118-002 Superior MGF\_REV

Pace Project No.: 10373306

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10373306025	GP18_3-5	EPA 5035/5030B	451962	EPA 8260B	452139
10373306026	GP18_5-7	EPA 5035/5030B	451962	EPA 8260B	452139
10373306027	GP18_10-12	EPA 5035/5030B	451962	EPA 8260B	452139
10373306028	GP13_10-15D	EPA 5035/5030B	451962	EPA 8260B	452139
10373306029	GP10_5-7D	EPA 5035/5030B	451962	EPA 8260B	452139
10373306030	SB0003_5-7	EPA 5035/5030B	451962	EPA 8260B	452139
10373306031	SB0003_10-13	EPA 5035/5030B	452111	EPA 8260B	452368
10373306032	SB0002_8-10	EPA 5035/5030B	452111	EPA 8260B	452368
10373306033	SB0002_15-20	EPA 5035/5030B	452138	EPA 8260B	452391
10373306034	SB0004_2.5-5	EPA 5035/5030B	452138	EPA 8260B	452391
10373306035	SB0004_5-6	EPA 5035/5030B	452138	EPA 8260B	452391
10373306036	Trip Blank	EPA 5035/5030B	452138	EPA 8260B	452391

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

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Page: ( 10373306 ) of 3  
 2106408

<b>Section A</b>		<b>Section B</b>		<b>Section C</b>	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: Summit Environmental, Inc.	Report To: Bill Gregg	Company Name: Bill Gregg	Attention: Bill Gregg	Address:	REGULATORY AGENCY
Address:	Copy To:	Purchase Order No.:	Project Name: Superior MGP	Site Location:	NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/>
Email To: bigreg@summit.com	Project Number: 2118-0002	Project Name: Superior MGP	Pace Project Manager: Kater Xiong	RCRA <input type="checkbox"/> UST <input type="checkbox"/>	OTHER <input type="checkbox"/>
Phone:	Requested Due Date/TAT:	Project Number: 2118-0002	Pace Profile #: 25777	STATE:	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX J. CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB								
1	GPI0-3-5	DW		DATE: 12/13/16	TIME: 12:10		0	Unpreserved	VOC				W1
2	GPI0-5-7	WT		DATE: 12/13/16	TIME: 12:15		0	Unpreserved	PAH				W2
3	GPI0-13-15	WW		DATE: 12/13/16	TIME: 12:20		0	Unpreserved	Methanol				W3
4	GPI1-0-2	P		DATE: 12/13/16	TIME: 12:55		0	Unpreserved	HCl				W4
5	GPI1-3-5	SL		DATE: 12/13/16	TIME: 12:45		0	Unpreserved	HNO3				W5
6	GPI1-8-10	OL		DATE: 12/13/16	TIME: 13:15		0	Unpreserved	H2SO4				W6
7	GPI2-3-5	WP		DATE: 12/13/16	TIME: 13:20		0	Unpreserved	Unpreserved				W7
8	GPI2-5-7	AR		DATE: 12/13/16	TIME: 13:35		0	Unpreserved	Unpreserved				W8
9	GPI2-10-12	TS		DATE: 12/13/16	TIME: 14:00		0	Unpreserved	Unpreserved				W9
10	GPI3-3-5	OT		DATE: 12/13/16	TIME: 14:05		0	Unpreserved	Unpreserved				W10
11	GPI3-5-10			DATE: 12/13/16	TIME: 14:10		0	Unpreserved	Unpreserved				W11
12	GPI3-10-15			DATE: 12/13/16	TIME: 14:10		0	Unpreserved	Unpreserved				W12

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Kater Xiong/Summit	12/13/16	13:55	Kristina Polson	12/14/16	13:55	3.4 Y N Y
	Kristina Polson	12/14/16	15:30	Kater Xiong	12/14/16	15:30	
		12/14/16	18:15	Kater Xiong	12/14/16	18:15	5.1 Y Y Y
							6.0

**ORIGINAL**

SAMPLER NAME AND SIGNATURE: Kater Xiong

PRINT Name of SAMPLER: Kater Xiong

SIGNATURE of SAMPLER: [Signature]

DATE Signed (MM/DD/YYYY): 12/15/16

Temp in °C: 6.0

Received on Ice (Y/N): Y

Custody Sealed Cooler (Y/N): Y

Samples Intact (Y/N): Y



**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
Required Client Information:  
Company: Summit Environmental  
Address: \_\_\_\_\_  
Email To: B.H. Gregg  
Phone: \_\_\_\_\_  
Requested Due Date/TAT: \_\_\_\_\_

**Section B**  
Required Project Information:  
Report To: B.H. Gregg  
Copy To: \_\_\_\_\_  
Purchase Order No.: \_\_\_\_\_  
Project Name: Superior M60  
Project Number: 2118-0002

**Section C**  
Invoice Information:  
Attention: B.H. Gregg  
Company Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Pace Quote Reference: \_\_\_\_\_  
Pace Project Manager: Ken Boer  
Pace Profile #: 2577

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_  
 Site Location STATE: \_\_\_\_\_

Page: 2 of 3  
2106409

ITEM #	Section D Required Client Information	MATRIX CODE (see valid codes to left)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB							
1	6P14-3-5				12/14/10	1330					013
2	6P14-9-10				12/14/10	1335					014
3	6P14-10-12				12/14/10	1340					015
4	6P15-3-5				12/14/10	1345					016
5	6P15-5-7				12/14/10	1350					017
6	6P15-13-15				12/14/10	1355					018
7	6P16-3-5				12/14/10	1350					019
8	6P16-7-8				12/14/10	1355					020
9	6P16-10-12				12/14/10	1350					021
10	6P17-3-5				12/14/10	1355					022
11	6P17-5-10				12/14/10	1350					023
12	6P17-10-15				12/14/10	1355					024

**ADDITIONAL COMMENTS**

**RELINQUISHED BY / AFFILIATION**  
 Kyle Roney Summit  
 Christina Polton  
 [Signature]

**DATE**  
 12/14/10  
 12/14/10  
 12/14/10

**TIME**  
 1355  
 1330  
 1315

**ACCEPTED BY / AFFILIATION**  
 Christina Polton  
 [Signature]

**DATE**  
 12/14/10  
 12/14/10  
 12/14/10

**TIME**  
 1355  
 1330  
 1315

**SAMPLE CONDITIONS**  
 Received on Ice (Y/N) \_\_\_\_\_  
 Sealed Cooler (Y/N) \_\_\_\_\_  
 Custody (Y/N) \_\_\_\_\_  
 Samples Intact (Y/N) \_\_\_\_\_

Temp in °C: 6.0

3.4 4 N Y  
 5.1 4 Y Y  
 6.0

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Kyle Roney  
 SIGNATURE of SAMPLER: [Signature]  
 DATE Signed (MM/DD/YY): 12/13/10

**ORIGINAL**



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A** Required Client Information: Company: Summit Environmental Address: 1217 Borden Blvd  
**Section B** Required Project Information: Report To: Bill Gregg Copy To:  
**Section C** Invoice Information: Attention: Bill Gregg Company Name: Regulatory Agency: 2106411  
 Address: NPDES  GROUND WATER  DRINKING WATER  UST  RCRA  OTHER   
 Pace Quote Reference: MGP Superfund Project Name: Kater Young Pace Project Manager: Kater Young Pace Profile #: 25777 Site Location STATE: Requested Due Date/TAT:

ITEM #	Section D Required Client Information	Matrix Codes MATRIX I CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	Preservatives	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB			DATE	TIME						
25	6918-3-5	Drinking Water						42	Unpreserved				025	
26	6918-5-7	Water							HCl				026	
27	6918-10-12	Waste Water							HNO3				027	
28	6913-10-15D	Product							H2SO4				026	
29	6910-5-7D	Soil/Solid							NaOH				029	
30	SB003-5-7	Oil							Methanol				030	
31	SB003-10-13	Wipe							Other				031	
32	SB002-8-10	Other											032	
33	SB002-15-20	Air											033	
34	SB004-2.5-5	Tissue											034	
35	SB004-5-6	Other											035	


RELIQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
						Received on Ice (Y/N)	Sealed Cooler (Y/N)	Samples Intact (Y/N)
Kyle Rogers Summit	12/19/10	1355	Kristina Polston	12/14/10	1355	Y	Y	Y
Kristina Polston	12/14/10	1530		12/14/10	1530			Y
	12/14/10	1815		12/14/10	1815	Y	Y	Y

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Kyle Rogers  
 SIGNATURE of SAMPLER: [Signature]  
 DATE Signed (MM/DD/YYYY): 12/13/10

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for all invoices not paid within 30 days. F-ALL-Q-020 rev.07, 15-May-2007

Sample Condition Upon Receipt **Client Name:** Summit Environmental **Project #:** \_\_\_\_\_

WO#: 10373306



10373306

**Courier:**  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  SpeedDee  Other: \_\_\_\_\_

**Tracking Number:** \_\_\_\_\_

**Custody Seal on Cooler/Box Present?**  Yes  No **Seals Intact?**  Yes  No **Optional:** Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

**Packing Material:**  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_ **Temp Blank?**  Yes  No

**Thermometer Used:**  151401163  151401164 **Type of Ice:**  Wet  Blue  None  Samples on ice, cooling process has begun

**Cooler Temp Read (°C):** 5.1, 6.0 **Cooler Temp Corrected (°C):** 5.1 **Biological Tissue Frozen?**  Yes  No  N/A  
 Temp should be above freezing to 6°C **Correction Factor:** TRUE **Date and Initials of Person Examining Contents:** BC 12-14-16

**USDA Regulated Soil** (  N/A, water sample)  
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No **Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?**  Yes  No  
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes Date/Time/ID/Analysis Matrix: <u>SL</u>		
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH >9 Sulfide, NaOH >12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>052316-3</u>		

**CLIENT NOTIFICATION/RESOLUTION**

**Field Data Required?**  Yes  No

**Person Contacted:** \_\_\_\_\_ **Date/Time:** \_\_\_\_\_  
**Comments/Resolution:** \_\_\_\_\_

**Project Manager Review:** \_\_\_\_\_ **Date:** \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

January 12, 2017

Bill Gregg  
Summit Envirosolutions  
1217 Bandana Blvd  
Saint Paul, MN 55108

RE: Project: 2118-0002 SWLP\_REV  
Pace Project No.: 10373448

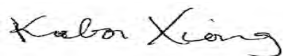
Dear Bill Gregg:

Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised on January 12, 2017 to change report format per client's request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kabor Xiong  
kabor.xiong@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

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### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

525 N 8th Street, Salina, KS 67401

Alaska Certification UST-107

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN\_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10373448001	SB005_2.5-5	Solid	12/14/16 08:40	12/15/16 17:50
10373448002	SB005_5-6	Solid	12/14/16 08:45	12/15/16 17:50
10373448003	SB005_6-8	Solid	12/14/16 08:50	12/15/16 17:50
10373448004	SB005_10-15	Solid	12/14/16 08:55	12/15/16 17:50
10373448005	SB005_10-15D	Solid	12/14/16 08:55	12/15/16 17:50
10373448006	SB006_2-4	Solid	12/14/16 10:45	12/15/16 17:50
10373448007	SB006_8-10	Solid	12/14/16 10:50	12/15/16 17:50
10373448008	SB006_14-15	Solid	12/14/16 11:00	12/15/16 17:50
10373448009	SB007_1-1.5	Solid	12/14/16 14:45	12/15/16 17:50
10373448010	SB007_7-8	Solid	12/14/16 14:50	12/15/16 17:50

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10373448001	SB005_2.5-5	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373448002	SB005_5-6	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373448003	SB005_6-8	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10373448004	SB005_10-15	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373448005	SB005_10-15D	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373448006	SB006_2-4	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373448007	SB006_8-10	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373448008	SB006_14-15	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373448009	SB007_1-1.5	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373448010	SB007_7-8	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

Sample: **SB005\_2.5-5** Lab ID: **10373448001** Collected: 12/14/16 08:40 Received: 12/15/16 17:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	8.0	%	0.10	0.10	1		12/29/16 09:51		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	6.6	ug/kg	1.4	0.42	1	12/16/16 14:50	12/22/16 02:46	83-32-9	
Acenaphthylene	<0.98	ug/kg	0.98	0.29	1	12/16/16 14:50	12/22/16 02:46	208-96-8	
Anthracene	<1.6	ug/kg	1.6	0.49	1	12/16/16 14:50	12/22/16 02:46	120-12-7	
Benzo(a)anthracene	6.7	ug/kg	1.7	0.51	1	12/16/16 14:50	12/22/16 02:46	56-55-3	
Benzo(a)pyrene	8.1	ug/kg	1.3	0.38	1	12/16/16 14:50	12/22/16 02:46	50-32-8	
Benzo(b)fluoranthene	16.8	ug/kg	2.1	0.62	1	12/16/16 14:50	12/22/16 02:46	205-99-2	
Benzo(g,h,i)perylene	11.8	ug/kg	1.7	0.50	1	12/16/16 14:50	12/22/16 02:46	191-24-2	
Benzo(k)fluoranthene	<1.8	ug/kg	1.8	0.53	1	12/16/16 14:50	12/22/16 02:46	207-08-9	
Chrysene	30.8	ug/kg	2.0	0.60	1	12/16/16 14:50	12/22/16 02:46	218-01-9	
Dibenz(a,h)anthracene	<1.2	ug/kg	1.2	0.35	1	12/16/16 14:50	12/22/16 02:46	53-70-3	
Fluoranthene	14.2	ug/kg	2.8	0.85	1	12/16/16 14:50	12/22/16 02:46	206-44-0	
Fluorene	29.2	ug/kg	1.4	0.42	1	12/16/16 14:50	12/22/16 02:46	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.7	ug/kg	2.7	0.81	1	12/16/16 14:50	12/22/16 02:46	193-39-5	
Naphthalene	84.8	ug/kg	1.3	0.39	1	12/16/16 14:50	12/22/16 02:46	91-20-3	
Phenanthrene	104	ug/kg	1.5	0.44	1	12/16/16 14:50	12/22/16 02:46	85-01-8	
Pyrene	15.7	ug/kg	3.0	0.90	1	12/16/16 14:50	12/22/16 02:46	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	74	%	41-125		1	12/16/16 14:50	12/22/16 02:46	321-60-8	
p-Terphenyl-d14 (S)	80	%	39-125		1	12/16/16 14:50	12/22/16 02:46	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1260	ug/kg	1260	379	1	12/19/16 11:32	12/21/16 07:43	67-64-1	
Allyl chloride	<165	ug/kg	165	49.6	1	12/19/16 11:32	12/21/16 07:43	107-05-1	
Benzene	90.4	ug/kg	16.6	5.0	1	12/19/16 11:32	12/21/16 07:43	71-43-2	
Bromobenzene	<49.2	ug/kg	49.2	14.8	1	12/19/16 11:32	12/21/16 07:43	108-86-1	
Bromochloromethane	<57.3	ug/kg	57.3	17.2	1	12/19/16 11:32	12/21/16 07:43	74-97-5	
Bromodichloromethane	<53.8	ug/kg	53.8	16.2	1	12/19/16 11:32	12/21/16 07:43	75-27-4	
Bromoform	<166	ug/kg	166	49.8	1	12/19/16 11:32	12/21/16 07:43	75-25-2	
Bromomethane	<195	ug/kg	195	58.6	1	12/19/16 11:32	12/21/16 07:43	74-83-9	
2-Butanone (MEK)	<254	ug/kg	254	76.2	1	12/19/16 11:32	12/21/16 07:43	78-93-3	
n-Butylbenzene	<46.5	ug/kg	46.5	14.0	1	12/19/16 11:32	12/21/16 07:43	104-51-8	
sec-Butylbenzene	<45.4	ug/kg	45.4	13.6	1	12/19/16 11:32	12/21/16 07:43	135-98-8	
tert-Butylbenzene	<60.8	ug/kg	60.8	18.2	1	12/19/16 11:32	12/21/16 07:43	98-06-6	
Carbon tetrachloride	<60.4	ug/kg	60.4	18.1	1	12/19/16 11:32	12/21/16 07:43	56-23-5	
Chlorobenzene	<33.5	ug/kg	33.5	10.0	1	12/19/16 11:32	12/21/16 07:43	108-90-7	
Chloroethane	<304	ug/kg	304	91.2	1	12/19/16 11:32	12/21/16 07:43	75-00-3	
Chloroform	<93.5	ug/kg	93.5	28.1	1	12/19/16 11:32	12/21/16 07:43	67-66-3	
Chloromethane	<93.1	ug/kg	93.1	28.0	1	12/19/16 11:32	12/21/16 07:43	74-87-3	
2-Chlorotoluene	<53.1	ug/kg	53.1	15.9	1	12/19/16 11:32	12/21/16 07:43	95-49-8	
4-Chlorotoluene	<50.4	ug/kg	50.4	15.1	1	12/19/16 11:32	12/21/16 07:43	106-43-4	
1,2-Dibromo-3-chloropropane	<113	ug/kg	113	113	1	12/19/16 11:32	12/21/16 07:43	96-12-8	
Dibromochloromethane	<165	ug/kg	165	49.6	1	12/19/16 11:32	12/21/16 07:43	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

Sample: **SB005\_2.5-5** Lab ID: **10373448001** Collected: 12/14/16 08:40 Received: 12/15/16 17:50 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<21.7	ug/kg	21.7	21.7	1	12/19/16 11:32	12/21/16 07:43	106-93-4	
Dibromomethane	<75.0	ug/kg	75.0	22.5	1	12/19/16 11:32	12/21/16 07:43	74-95-3	
1,2-Dichlorobenzene	<11.2	ug/kg	11.2	11.2	1	12/19/16 11:32	12/21/16 07:43	95-50-1	
1,3-Dichlorobenzene	<17.0	ug/kg	17.0	17.0	1	12/19/16 11:32	12/21/16 07:43	541-73-1	
1,4-Dichlorobenzene	<55.8	ug/kg	55.8	16.7	1	12/19/16 11:32	12/21/16 07:43	106-46-7	
Dichlorodifluoromethane	<58.8	ug/kg	58.8	17.7	1	12/19/16 11:32	12/21/16 07:43	75-71-8	
1,1-Dichloroethane	<22.4	ug/kg	22.4	22.4	1	12/19/16 11:32	12/21/16 07:43	75-34-3	
1,2-Dichloroethane	<18.2	ug/kg	18.2	18.2	1	12/19/16 11:32	12/21/16 07:43	107-06-2	
1,1-Dichloroethene	<14.7	ug/kg	14.7	14.7	1	12/19/16 11:32	12/21/16 07:43	75-35-4	
cis-1,2-Dichloroethene	<71.5	ug/kg	71.5	21.5	1	12/19/16 11:32	12/21/16 07:43	156-59-2	
trans-1,2-Dichloroethene	<92.7	ug/kg	92.7	27.8	1	12/19/16 11:32	12/21/16 07:43	156-60-5	
Dichlorofluoromethane	<527	ug/kg	527	158	1	12/19/16 11:32	12/21/16 07:43	75-43-4	
1,2-Dichloropropane	<20.0	ug/kg	20.0	20.0	1	12/19/16 11:32	12/21/16 07:43	78-87-5	
1,3-Dichloropropane	<68.8	ug/kg	68.8	20.7	1	12/19/16 11:32	12/21/16 07:43	142-28-9	
2,2-Dichloropropane	<61.2	ug/kg	61.2	18.4	1	12/19/16 11:32	12/21/16 07:43	594-20-7	
1,1-Dichloropropene	<17.4	ug/kg	17.4	17.4	1	12/19/16 11:32	12/21/16 07:43	563-58-6	
cis-1,3-Dichloropropene	<87.7	ug/kg	87.7	26.3	1	12/19/16 11:32	12/21/16 07:43	10061-01-5	
trans-1,3-Dichloropropene	<65.4	ug/kg	65.4	19.6	1	12/19/16 11:32	12/21/16 07:43	10061-02-6	
Diethyl ether (Ethyl ether)	<79.2	ug/kg	79.2	23.8	1	12/19/16 11:32	12/21/16 07:43	60-29-7	
Ethylbenzene	101	ug/kg	61.2	18.4	1	12/19/16 11:32	12/21/16 07:43	100-41-4	
Hexachloro-1,3-butadiene	<181	ug/kg	181	54.3	1	12/19/16 11:32	12/21/16 07:43	87-68-3	
Isopropylbenzene (Cumene)	<68.5	ug/kg	68.5	20.6	1	12/19/16 11:32	12/21/16 07:43	98-82-8	
p-Isopropyltoluene	<31.9	ug/kg	31.9	9.6	1	12/19/16 11:32	12/21/16 07:43	99-87-6	
Methylene Chloride	<356	ug/kg	356	107	1	12/19/16 11:32	12/21/16 07:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	<127	ug/kg	127	38.2	1	12/19/16 11:32	12/21/16 07:43	108-10-1	
Methyl-tert-butyl ether	<36.0	ug/kg	36.0	10.8	1	12/19/16 11:32	12/21/16 07:43	1634-04-4	
Naphthalene	209	ug/kg	46.5	14.0	1	12/19/16 11:32	12/21/16 07:43	91-20-3	
n-Propylbenzene	<57.3	ug/kg	57.3	17.2	1	12/19/16 11:32	12/21/16 07:43	103-65-1	
Styrene	<50.0	ug/kg	50.0	15.0	1	12/19/16 11:32	12/21/16 07:43	100-42-5	
1,1,1,2-Tetrachloroethane	<22.9	ug/kg	22.9	22.9	1	12/19/16 11:32	12/21/16 07:43	630-20-6	
1,1,1,2,2-Tetrachloroethane	<12.8	ug/kg	12.8	12.8	1	12/19/16 11:32	12/21/16 07:43	79-34-5	
Tetrachloroethene	<73.5	ug/kg	73.5	22.1	1	12/19/16 11:32	12/21/16 07:43	127-18-4	
Tetrahydrofuran	<954	ug/kg	954	286	1	12/19/16 11:32	12/21/16 07:43	109-99-9	
Toluene	391	ug/kg	61.2	18.4	1	12/19/16 11:32	12/21/16 07:43	108-88-3	
1,2,3-Trichlorobenzene	<16.6	ug/kg	16.6	16.6	1	12/19/16 11:32	12/21/16 07:43	87-61-6	
1,2,4-Trichlorobenzene	<17.8	ug/kg	17.8	17.8	1	12/19/16 11:32	12/21/16 07:43	120-82-1	
1,1,1-Trichloroethane	<24.1	ug/kg	24.1	24.1	1	12/19/16 11:32	12/21/16 07:43	71-55-6	
1,1,2-Trichloroethane	<12.5	ug/kg	12.5	12.5	1	12/19/16 11:32	12/21/16 07:43	79-00-5	
Trichloroethene	<55.0	ug/kg	55.0	16.5	1	12/19/16 11:32	12/21/16 07:43	79-01-6	
Trichlorofluoromethane	<193	ug/kg	193	58.0	1	12/19/16 11:32	12/21/16 07:43	75-69-4	
1,2,3-Trichloropropane	<59.8	ug/kg	59.8	59.8	1	12/19/16 11:32	12/21/16 07:43	96-18-4	
1,1,2-Trichlorotrifluoroethane	<138	ug/kg	138	41.6	1	12/19/16 11:32	12/21/16 07:43	76-13-1	
1,2,4-Trimethylbenzene	126	ug/kg	12.7	12.7	1	12/19/16 11:32	12/21/16 07:43	95-63-6	
1,3,5-Trimethylbenzene	75.3	ug/kg	44.2	13.3	1	12/19/16 11:32	12/21/16 07:43	108-67-8	
Vinyl chloride	<24.7	ug/kg	24.7	7.4	1	12/19/16 11:32	12/21/16 07:43	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

**Sample: SB005\_2.5-5**      **Lab ID: 10373448001**      Collected: 12/14/16 08:40      Received: 12/15/16 17:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>489</b>	ug/kg	154	46.2	1	12/19/16 11:32	12/21/16 07:43	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%	75-129		1	12/19/16 11:32	12/21/16 07:43	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/19/16 11:32	12/21/16 07:43	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/19/16 11:32	12/21/16 07:43	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

**Sample: SB005\_5-6**      **Lab ID: 10373448002**      Collected: 12/14/16 08:45      Received: 12/15/16 17:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	12.5	%	0.10	0.10	1		12/29/16 09:51		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	357	ug/kg	1.5	0.45	1	12/16/16 14:50	12/22/16 03:08	83-32-9	
Acenaphthylene	<1.0	ug/kg	1.0	0.31	1	12/16/16 14:50	12/22/16 03:08	208-96-8	
Anthracene	739	ug/kg	17.3	5.2	10	12/16/16 14:50	12/22/16 15:35	120-12-7	
Benzo(a)anthracene	614	ug/kg	17.8	5.4	10	12/16/16 14:50	12/22/16 15:35	56-55-3	
Benzo(a)pyrene	540	ug/kg	13.2	4.0	10	12/16/16 14:50	12/22/16 15:35	50-32-8	
Benzo(b)fluoranthene	622	ug/kg	21.8	6.5	10	12/16/16 14:50	12/22/16 15:35	205-99-2	
Benzo(g,h,i)perylene	271	ug/kg	1.7	0.52	1	12/16/16 14:50	12/22/16 03:08	191-24-2	
Benzo(k)fluoranthene	295	ug/kg	1.9	0.56	1	12/16/16 14:50	12/22/16 03:08	207-08-9	
Chrysene	610	ug/kg	21.1	6.3	10	12/16/16 14:50	12/22/16 15:35	218-01-9	
Dibenz(a,h)anthracene	85.2	ug/kg	1.2	0.37	1	12/16/16 14:50	12/22/16 03:08	53-70-3	
Fluoranthene	1990	ug/kg	29.8	9.0	10	12/16/16 14:50	12/22/16 15:35	206-44-0	
Fluorene	380	ug/kg	1.5	0.44	1	12/16/16 14:50	12/22/16 03:08	86-73-7	
Indeno(1,2,3-cd)pyrene	255	ug/kg	2.9	0.86	1	12/16/16 14:50	12/22/16 03:08	193-39-5	
Naphthalene	403	ug/kg	13.6	4.1	10	12/16/16 14:50	12/22/16 15:35	91-20-3	
Phenanthrene	2240	ug/kg	15.3	4.6	10	12/16/16 14:50	12/22/16 15:35	85-01-8	
Pyrene	1350	ug/kg	31.5	9.5	10	12/16/16 14:50	12/22/16 15:35	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	85	%	41-125		1	12/16/16 14:50	12/22/16 03:08	321-60-8	
p-Terphenyl-d14 (S)	82	%	39-125		1	12/16/16 14:50	12/22/16 03:08	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1310	ug/kg	1310	393	1	12/19/16 11:32	12/21/16 08:00	67-64-1	
Allyl chloride	<171	ug/kg	171	51.4	1	12/19/16 11:32	12/21/16 08:00	107-05-1	
Benzene	38.2	ug/kg	17.2	5.2	1	12/19/16 11:32	12/21/16 08:00	71-43-2	
Bromobenzene	<51.0	ug/kg	51.0	15.3	1	12/19/16 11:32	12/21/16 08:00	108-86-1	
Bromochloromethane	<59.4	ug/kg	59.4	17.8	1	12/19/16 11:32	12/21/16 08:00	74-97-5	
Bromodichloromethane	<55.8	ug/kg	55.8	16.8	1	12/19/16 11:32	12/21/16 08:00	75-27-4	
Bromoform	<172	ug/kg	172	51.6	1	12/19/16 11:32	12/21/16 08:00	75-25-2	
Bromomethane	<202	ug/kg	202	60.7	1	12/19/16 11:32	12/21/16 08:00	74-83-9	
2-Butanone (MEK)	<263	ug/kg	263	79.0	1	12/19/16 11:32	12/21/16 08:00	78-93-3	
n-Butylbenzene	<48.2	ug/kg	48.2	14.5	1	12/19/16 11:32	12/21/16 08:00	104-51-8	
sec-Butylbenzene	<47.1	ug/kg	47.1	14.1	1	12/19/16 11:32	12/21/16 08:00	135-98-8	
tert-Butylbenzene	<63.0	ug/kg	63.0	18.9	1	12/19/16 11:32	12/21/16 08:00	98-06-6	
Carbon tetrachloride	<62.6	ug/kg	62.6	18.8	1	12/19/16 11:32	12/21/16 08:00	56-23-5	
Chlorobenzene	<34.7	ug/kg	34.7	10.4	1	12/19/16 11:32	12/21/16 08:00	108-90-7	
Chloroethane	<315	ug/kg	315	94.6	1	12/19/16 11:32	12/21/16 08:00	75-00-3	
Chloroform	<96.9	ug/kg	96.9	29.1	1	12/19/16 11:32	12/21/16 08:00	67-66-3	
Chloromethane	<96.5	ug/kg	96.5	29.0	1	12/19/16 11:32	12/21/16 08:00	74-87-3	
2-Chlorotoluene	<55.0	ug/kg	55.0	16.5	1	12/19/16 11:32	12/21/16 08:00	95-49-8	
4-Chlorotoluene	<52.2	ug/kg	52.2	15.7	1	12/19/16 11:32	12/21/16 08:00	106-43-4	
1,2-Dibromo-3-chloropropane	<117	ug/kg	117	117	1	12/19/16 11:32	12/21/16 08:00	96-12-8	
Dibromochloromethane	<171	ug/kg	171	51.4	1	12/19/16 11:32	12/21/16 08:00	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

Sample: **SB005\_5-6** Lab ID: **10373448002** Collected: 12/14/16 08:45 Received: 12/15/16 17:50 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<22.5	ug/kg	22.5	22.5	1	12/19/16 11:32	12/21/16 08:00	106-93-4	
Dibromomethane	<77.8	ug/kg	77.8	23.4	1	12/19/16 11:32	12/21/16 08:00	74-95-3	
1,2-Dichlorobenzene	<11.6	ug/kg	11.6	11.6	1	12/19/16 11:32	12/21/16 08:00	95-50-1	
1,3-Dichlorobenzene	<17.6	ug/kg	17.6	17.6	1	12/19/16 11:32	12/21/16 08:00	541-73-1	
1,4-Dichlorobenzene	<57.8	ug/kg	57.8	17.4	1	12/19/16 11:32	12/21/16 08:00	106-46-7	
Dichlorodifluoromethane	<61.0	ug/kg	61.0	18.3	1	12/19/16 11:32	12/21/16 08:00	75-71-8	
1,1-Dichloroethane	<23.2	ug/kg	23.2	23.2	1	12/19/16 11:32	12/21/16 08:00	75-34-3	
1,2-Dichloroethane	<18.9	ug/kg	18.9	18.9	1	12/19/16 11:32	12/21/16 08:00	107-06-2	
1,1-Dichloroethene	<15.2	ug/kg	15.2	15.2	1	12/19/16 11:32	12/21/16 08:00	75-35-4	
cis-1,2-Dichloroethene	<74.2	ug/kg	74.2	22.3	1	12/19/16 11:32	12/21/16 08:00	156-59-2	
trans-1,2-Dichloroethene	<96.1	ug/kg	96.1	28.9	1	12/19/16 11:32	12/21/16 08:00	156-60-5	
Dichlorofluoromethane	<546	ug/kg	546	164	1	12/19/16 11:32	12/21/16 08:00	75-43-4	
1,2-Dichloropropane	<20.7	ug/kg	20.7	20.7	1	12/19/16 11:32	12/21/16 08:00	78-87-5	
1,3-Dichloropropane	<71.4	ug/kg	71.4	21.4	1	12/19/16 11:32	12/21/16 08:00	142-28-9	
2,2-Dichloropropane	<63.4	ug/kg	63.4	19.0	1	12/19/16 11:32	12/21/16 08:00	594-20-7	
1,1-Dichloropropene	<18.1	ug/kg	18.1	18.1	1	12/19/16 11:32	12/21/16 08:00	563-58-6	
cis-1,3-Dichloropropene	<90.9	ug/kg	90.9	27.3	1	12/19/16 11:32	12/21/16 08:00	10061-01-5	
trans-1,3-Dichloropropene	<67.8	ug/kg	67.8	20.4	1	12/19/16 11:32	12/21/16 08:00	10061-02-6	
Diethyl ether (Ethyl ether)	<82.1	ug/kg	82.1	24.7	1	12/19/16 11:32	12/21/16 08:00	60-29-7	
Ethylbenzene	<63.4	ug/kg	63.4	19.0	1	12/19/16 11:32	12/21/16 08:00	100-41-4	
Hexachloro-1,3-butadiene	<187	ug/kg	187	56.3	1	12/19/16 11:32	12/21/16 08:00	87-68-3	
Isopropylbenzene (Cumene)	<71.0	ug/kg	71.0	21.3	1	12/19/16 11:32	12/21/16 08:00	98-82-8	
p-Isopropyltoluene	<33.1	ug/kg	33.1	9.9	1	12/19/16 11:32	12/21/16 08:00	99-87-6	
Methylene Chloride	<369	ug/kg	369	111	1	12/19/16 11:32	12/21/16 08:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	<132	ug/kg	132	39.6	1	12/19/16 11:32	12/21/16 08:00	108-10-1	
Methyl-tert-butyl ether	<37.3	ug/kg	37.3	11.2	1	12/19/16 11:32	12/21/16 08:00	1634-04-4	
Naphthalene	427	ug/kg	48.2	14.5	1	12/19/16 11:32	12/21/16 08:00	91-20-3	
n-Propylbenzene	<59.4	ug/kg	59.4	17.8	1	12/19/16 11:32	12/21/16 08:00	103-65-1	
Styrene	<51.8	ug/kg	51.8	15.6	1	12/19/16 11:32	12/21/16 08:00	100-42-5	
1,1,1,2-Tetrachloroethane	<23.7	ug/kg	23.7	23.7	1	12/19/16 11:32	12/21/16 08:00	630-20-6	
1,1,2,2-Tetrachloroethane	<13.3	ug/kg	13.3	13.3	1	12/19/16 11:32	12/21/16 08:00	79-34-5	
Tetrachloroethene	<76.2	ug/kg	76.2	22.9	1	12/19/16 11:32	12/21/16 08:00	127-18-4	
Tetrahydrofuran	<989	ug/kg	989	297	1	12/19/16 11:32	12/21/16 08:00	109-99-9	
Toluene	175	ug/kg	63.4	19.0	1	12/19/16 11:32	12/21/16 08:00	108-88-3	
1,2,3-Trichlorobenzene	<17.2	ug/kg	17.2	17.2	1	12/19/16 11:32	12/21/16 08:00	87-61-6	
1,2,4-Trichlorobenzene	<18.4	ug/kg	18.4	18.4	1	12/19/16 11:32	12/21/16 08:00	120-82-1	
1,1,1-Trichloroethane	<25.0	ug/kg	25.0	25.0	1	12/19/16 11:32	12/21/16 08:00	71-55-6	
1,1,2-Trichloroethane	<12.9	ug/kg	12.9	12.9	1	12/19/16 11:32	12/21/16 08:00	79-00-5	
Trichloroethene	<57.0	ug/kg	57.0	17.1	1	12/19/16 11:32	12/21/16 08:00	79-01-6	
Trichlorofluoromethane	<200	ug/kg	200	60.1	1	12/19/16 11:32	12/21/16 08:00	75-69-4	
1,2,3-Trichloropropane	<62.0	ug/kg	62.0	62.0	1	12/19/16 11:32	12/21/16 08:00	96-18-4	
1,1,2-Trichlorotrifluoroethane	<144	ug/kg	144	43.1	1	12/19/16 11:32	12/21/16 08:00	76-13-1	
1,2,4-Trimethylbenzene	93.2	ug/kg	13.2	13.2	1	12/19/16 11:32	12/21/16 08:00	95-63-6	
1,3,5-Trimethylbenzene	<45.9	ug/kg	45.9	13.8	1	12/19/16 11:32	12/21/16 08:00	108-67-8	
Vinyl chloride	<25.6	ug/kg	25.6	7.7	1	12/19/16 11:32	12/21/16 08:00	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

**Sample: SB005\_5-6**      **Lab ID: 10373448002**      Collected: 12/14/16 08:45      Received: 12/15/16 17:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>287</b>	ug/kg	159	47.9	1	12/19/16 11:32	12/21/16 08:00	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%	75-129		1	12/19/16 11:32	12/21/16 08:00	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/19/16 11:32	12/21/16 08:00	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/19/16 11:32	12/21/16 08:00	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

**Sample: SB005\_6-8**      **Lab ID: 10373448003**      Collected: 12/14/16 08:50      Received: 12/15/16 17:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>26.6</b>	%	0.10	0.10	1		12/29/16 09:51		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<b>&lt;1.8</b>	ug/kg	1.8	0.53	1	12/16/16 14:50	12/22/16 13:04	83-32-9	
Acenaphthylene	<b>&lt;1.2</b>	ug/kg	1.2	0.37	1	12/16/16 14:50	12/22/16 13:04	208-96-8	
Anthracene	<b>13.8</b>	ug/kg	2.1	0.62	1	12/16/16 14:50	12/22/16 13:04	120-12-7	
Benzo(a)anthracene	<b>11.1</b>	ug/kg	2.1	0.64	1	12/16/16 14:50	12/22/16 13:04	56-55-3	
Benzo(a)pyrene	<b>9.3</b>	ug/kg	1.6	0.47	1	12/16/16 14:50	12/22/16 13:04	50-32-8	
Benzo(b)fluoranthene	<b>11.8</b>	ug/kg	2.6	0.78	1	12/16/16 14:50	12/22/16 13:04	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;2.1</b>	ug/kg	2.1	0.62	1	12/16/16 14:50	12/22/16 13:04	191-24-2	
Benzo(k)fluoranthene	<b>5.3</b>	ug/kg	2.2	0.67	1	12/16/16 14:50	12/22/16 13:04	207-08-9	
Chrysene	<b>10.7</b>	ug/kg	2.5	0.76	1	12/16/16 14:50	12/22/16 13:04	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;1.5</b>	ug/kg	1.5	0.45	1	12/16/16 14:50	12/22/16 13:04	53-70-3	
Fluoranthene	<b>35.9</b>	ug/kg	3.6	1.1	1	12/16/16 14:50	12/22/16 13:04	206-44-0	
Fluorene	<b>&lt;1.7</b>	ug/kg	1.7	0.52	1	12/16/16 14:50	12/22/16 13:04	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;3.4</b>	ug/kg	3.4	1.0	1	12/16/16 14:50	12/22/16 13:04	193-39-5	
Naphthalene	<b>7.9</b>	ug/kg	1.6	0.49	1	12/16/16 14:50	12/22/16 13:04	91-20-3	
Phenanthrene	<b>35.6</b>	ug/kg	1.8	0.55	1	12/16/16 14:50	12/22/16 13:04	85-01-8	
Pyrene	<b>23.0</b>	ug/kg	3.8	1.1	1	12/16/16 14:50	12/22/16 13:04	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	55	%	41-125		1	12/16/16 14:50	12/22/16 13:04	321-60-8	
p-Terphenyl-d14 (S)	71	%	39-125		1	12/16/16 14:50	12/22/16 13:04	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<b>&lt;1540</b>	ug/kg	1540	461	1	12/19/16 11:32	12/20/16 12:37	67-64-1	
Allyl chloride	<b>&lt;201</b>	ug/kg	201	60.3	1	12/19/16 11:32	12/20/16 12:37	107-05-1	
Benzene	<b>&lt;20.2</b>	ug/kg	20.2	6.1	1	12/19/16 11:32	12/20/16 12:37	71-43-2	
Bromobenzene	<b>&lt;59.9</b>	ug/kg	59.9	18.0	1	12/19/16 11:32	12/20/16 12:37	108-86-1	
Bromochloromethane	<b>&lt;69.7</b>	ug/kg	69.7	20.9	1	12/19/16 11:32	12/20/16 12:37	74-97-5	
Bromodichloromethane	<b>&lt;65.5</b>	ug/kg	65.5	19.7	1	12/19/16 11:32	12/20/16 12:37	75-27-4	
Bromoform	<b>&lt;202</b>	ug/kg	202	60.6	1	12/19/16 11:32	12/20/16 12:37	75-25-2	
Bromomethane	<b>&lt;237</b>	ug/kg	237	71.3	1	12/19/16 11:32	12/20/16 12:37	74-83-9	
2-Butanone (MEK)	<b>&lt;309</b>	ug/kg	309	92.8	1	12/19/16 11:32	12/20/16 12:37	78-93-3	
n-Butylbenzene	<b>&lt;56.6</b>	ug/kg	56.6	17.0	1	12/19/16 11:32	12/20/16 12:37	104-51-8	
sec-Butylbenzene	<b>&lt;55.2</b>	ug/kg	55.2	16.6	1	12/19/16 11:32	12/20/16 12:37	135-98-8	
tert-Butylbenzene	<b>&lt;74.0</b>	ug/kg	74.0	22.2	1	12/19/16 11:32	12/20/16 12:37	98-06-6	
Carbon tetrachloride	<b>&lt;73.5</b>	ug/kg	73.5	22.1	1	12/19/16 11:32	12/20/16 12:37	56-23-5	
Chlorobenzene	<b>&lt;40.7</b>	ug/kg	40.7	12.2	1	12/19/16 11:32	12/20/16 12:37	108-90-7	
Chloroethane	<b>&lt;370</b>	ug/kg	370	111	1	12/19/16 11:32	12/20/16 12:37	75-00-3	
Chloroform	<b>&lt;114</b>	ug/kg	114	34.2	1	12/19/16 11:32	12/20/16 12:37	67-66-3	
Chloromethane	<b>&lt;113</b>	ug/kg	113	34.0	1	12/19/16 11:32	12/20/16 12:37	74-87-3	
2-Chlorotoluene	<b>&lt;64.6</b>	ug/kg	64.6	19.4	1	12/19/16 11:32	12/20/16 12:37	95-49-8	
4-Chlorotoluene	<b>&lt;61.3</b>	ug/kg	61.3	18.4	1	12/19/16 11:32	12/20/16 12:37	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;137</b>	ug/kg	137	137	1	12/19/16 11:32	12/20/16 12:37	96-12-8	
Dibromochloromethane	<b>&lt;201</b>	ug/kg	201	60.3	1	12/19/16 11:32	12/20/16 12:37	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

Sample: **SB005\_6-8** Lab ID: **10373448003** Collected: 12/14/16 08:50 Received: 12/15/16 17:50 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<26.4	ug/kg	26.4	26.4	1	12/19/16 11:32	12/20/16 12:37	106-93-4	
Dibromomethane	<91.3	ug/kg	91.3	27.4	1	12/19/16 11:32	12/20/16 12:37	74-95-3	
1,2-Dichlorobenzene	<13.6	ug/kg	13.6	13.6	1	12/19/16 11:32	12/20/16 12:37	95-50-1	
1,3-Dichlorobenzene	<20.7	ug/kg	20.7	20.7	1	12/19/16 11:32	12/20/16 12:37	541-73-1	
1,4-Dichlorobenzene	<67.9	ug/kg	67.9	20.4	1	12/19/16 11:32	12/20/16 12:37	106-46-7	
Dichlorodifluoromethane	<71.6	ug/kg	71.6	21.5	1	12/19/16 11:32	12/20/16 12:37	75-71-8	
1,1-Dichloroethane	<27.3	ug/kg	27.3	27.3	1	12/19/16 11:32	12/20/16 12:37	75-34-3	
1,2-Dichloroethane	<22.2	ug/kg	22.2	22.2	1	12/19/16 11:32	12/20/16 12:37	107-06-2	
1,1-Dichloroethene	<17.9	ug/kg	17.9	17.9	1	12/19/16 11:32	12/20/16 12:37	75-35-4	
cis-1,2-Dichloroethene	<87.1	ug/kg	87.1	26.1	1	12/19/16 11:32	12/20/16 12:37	156-59-2	
trans-1,2-Dichloroethene	<113	ug/kg	113	33.9	1	12/19/16 11:32	12/20/16 12:37	156-60-5	
Dichlorofluoromethane	<641	ug/kg	641	193	1	12/19/16 11:32	12/20/16 12:37	75-43-4	
1,2-Dichloropropane	<24.3	ug/kg	24.3	24.3	1	12/19/16 11:32	12/20/16 12:37	78-87-5	
1,3-Dichloropropane	<83.8	ug/kg	83.8	25.2	1	12/19/16 11:32	12/20/16 12:37	142-28-9	
2,2-Dichloropropane	<74.4	ug/kg	74.4	22.4	1	12/19/16 11:32	12/20/16 12:37	594-20-7	
1,1-Dichloropropene	<21.2	ug/kg	21.2	21.2	1	12/19/16 11:32	12/20/16 12:37	563-58-6	
cis-1,3-Dichloropropene	<107	ug/kg	107	32.0	1	12/19/16 11:32	12/20/16 12:37	10061-01-5	
trans-1,3-Dichloropropene	<79.6	ug/kg	79.6	23.9	1	12/19/16 11:32	12/20/16 12:37	10061-02-6	
Diethyl ether (Ethyl ether)	<96.4	ug/kg	96.4	29.0	1	12/19/16 11:32	12/20/16 12:37	60-29-7	
Ethylbenzene	<74.4	ug/kg	74.4	22.4	1	12/19/16 11:32	12/20/16 12:37	100-41-4	
Hexachloro-1,3-butadiene	<220	ug/kg	220	66.1	1	12/19/16 11:32	12/20/16 12:37	87-68-3	
Isopropylbenzene (Cumene)	<83.3	ug/kg	83.3	25.0	1	12/19/16 11:32	12/20/16 12:37	98-82-8	
p-Isopropyltoluene	<38.9	ug/kg	38.9	11.7	1	12/19/16 11:32	12/20/16 12:37	99-87-6	
Methylene Chloride	<433	ug/kg	433	130	1	12/19/16 11:32	12/20/16 12:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	<155	ug/kg	155	46.5	1	12/19/16 11:32	12/20/16 12:37	108-10-1	
Methyl-tert-butyl ether	<43.8	ug/kg	43.8	13.2	1	12/19/16 11:32	12/20/16 12:37	1634-04-4	
Naphthalene	<56.6	ug/kg	56.6	17.0	1	12/19/16 11:32	12/20/16 12:37	91-20-3	
n-Propylbenzene	<69.7	ug/kg	69.7	20.9	1	12/19/16 11:32	12/20/16 12:37	103-65-1	
Styrene	<60.9	ug/kg	60.9	18.3	1	12/19/16 11:32	12/20/16 12:37	100-42-5	
1,1,1,2-Tetrachloroethane	<27.8	ug/kg	27.8	27.8	1	12/19/16 11:32	12/20/16 12:37	630-20-6	
1,1,2,2-Tetrachloroethane	<15.6	ug/kg	15.6	15.6	1	12/19/16 11:32	12/20/16 12:37	79-34-5	
Tetrachloroethene	<89.4	ug/kg	89.4	26.8	1	12/19/16 11:32	12/20/16 12:37	127-18-4	
Tetrahydrofuran	<1160	ug/kg	1160	349	1	12/19/16 11:32	12/20/16 12:37	109-99-9	
Toluene	<74.4	ug/kg	74.4	22.4	1	12/19/16 11:32	12/20/16 12:37	108-88-3	
1,2,3-Trichlorobenzene	<20.2	ug/kg	20.2	20.2	1	12/19/16 11:32	12/20/16 12:37	87-61-6	
1,2,4-Trichlorobenzene	<21.6	ug/kg	21.6	21.6	1	12/19/16 11:32	12/20/16 12:37	120-82-1	
1,1,1-Trichloroethane	<29.4	ug/kg	29.4	29.4	1	12/19/16 11:32	12/20/16 12:37	71-55-6	
1,1,2-Trichloroethane	<15.2	ug/kg	15.2	15.2	1	12/19/16 11:32	12/20/16 12:37	79-00-5	
Trichloroethene	<66.9	ug/kg	66.9	20.1	1	12/19/16 11:32	12/20/16 12:37	79-01-6	
Trichlorofluoromethane	<235	ug/kg	235	70.6	1	12/19/16 11:32	12/20/16 12:37	75-69-4	
1,2,3-Trichloropropane	<72.8	ug/kg	72.8	72.8	1	12/19/16 11:32	12/20/16 12:37	96-18-4	
1,1,2-Trichlorotrifluoroethane	<169	ug/kg	169	50.6	1	12/19/16 11:32	12/20/16 12:37	76-13-1	
1,2,4-Trimethylbenzene	<15.5	ug/kg	15.5	15.5	1	12/19/16 11:32	12/20/16 12:37	95-63-6	
1,3,5-Trimethylbenzene	<53.8	ug/kg	53.8	16.2	1	12/19/16 11:32	12/20/16 12:37	108-67-8	
Vinyl chloride	<30.1	ug/kg	30.1	9.0	1	12/19/16 11:32	12/20/16 12:37	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

**Sample: SB005\_6-8**      **Lab ID: 10373448003**      Collected: 12/14/16 08:50      Received: 12/15/16 17:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<187	ug/kg	187	56.2	1	12/19/16 11:32	12/20/16 12:37	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	108	%	75-129		1	12/19/16 11:32	12/20/16 12:37	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/19/16 11:32	12/20/16 12:37	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/19/16 11:32	12/20/16 12:37	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

Sample: **SB005\_10-15** Lab ID: **10373448004** Collected: 12/14/16 08:55 Received: 12/15/16 17:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	28.4	%	0.10	0.10	1		12/29/16 09:51		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.8	ug/kg	1.8	0.55	1	12/16/16 14:50	12/22/16 13:25	83-32-9	
Acenaphthylene	<1.3	ug/kg	1.3	0.38	1	12/16/16 14:50	12/22/16 13:25	208-96-8	
Anthracene	8.0	ug/kg	2.1	0.63	1	12/16/16 14:50	12/22/16 13:25	120-12-7	
Benzo(a)anthracene	9.9	ug/kg	2.2	0.65	1	12/16/16 14:50	12/22/16 13:25	56-55-3	
Benzo(a)pyrene	11.0	ug/kg	1.6	0.48	1	12/16/16 14:50	12/22/16 13:25	50-32-8	
Benzo(b)fluoranthene	11.9	ug/kg	2.7	0.80	1	12/16/16 14:50	12/22/16 13:25	205-99-2	
Benzo(g,h,i)perylene	<2.1	ug/kg	2.1	0.64	1	12/16/16 14:50	12/22/16 13:25	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	2.3	0.69	1	12/16/16 14:50	12/22/16 13:25	207-08-9	
Chrysene	10.4	ug/kg	2.6	0.78	1	12/16/16 14:50	12/22/16 13:25	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.46	1	12/16/16 14:50	12/22/16 13:25	53-70-3	
Fluoranthene	23.8	ug/kg	3.6	1.1	1	12/16/16 14:50	12/22/16 13:25	206-44-0	
Fluorene	<1.8	ug/kg	1.8	0.54	1	12/16/16 14:50	12/22/16 13:25	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.5	ug/kg	3.5	1.0	1	12/16/16 14:50	12/22/16 13:25	193-39-5	
Naphthalene	7.0	ug/kg	1.7	0.50	1	12/16/16 14:50	12/22/16 13:25	91-20-3	
Phenanthrene	20.3	ug/kg	1.9	0.56	1	12/16/16 14:50	12/22/16 13:25	85-01-8	
Pyrene	23.6	ug/kg	3.9	1.2	1	12/16/16 14:50	12/22/16 13:25	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	75	%	41-125		1	12/16/16 14:50	12/22/16 13:25	321-60-8	
p-Terphenyl-d14 (S)	83	%	39-125		1	12/16/16 14:50	12/22/16 13:25	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<2260	ug/kg	2260	679	1	12/19/16 15:33	12/19/16 20:50	67-64-1	
Allyl chloride	<296	ug/kg	296	88.7	1	12/19/16 15:33	12/19/16 20:50	107-05-1	
Benzene	<29.8	ug/kg	29.8	8.9	1	12/19/16 15:33	12/19/16 20:50	71-43-2	
Bromobenzene	<88.2	ug/kg	88.2	26.5	1	12/19/16 15:33	12/19/16 20:50	108-86-1	
Bromochloromethane	<103	ug/kg	103	30.8	1	12/19/16 15:33	12/19/16 20:50	74-97-5	
Bromodichloromethane	<96.4	ug/kg	96.4	29.0	1	12/19/16 15:33	12/19/16 20:50	75-27-4	
Bromoform	<297	ug/kg	297	89.2	1	12/19/16 15:33	12/19/16 20:50	75-25-2	
Bromomethane	<349	ug/kg	349	105	1	12/19/16 15:33	12/19/16 20:50	74-83-9	
2-Butanone (MEK)	<455	ug/kg	455	137	1	12/19/16 15:33	12/19/16 20:50	78-93-3	
n-Butylbenzene	<83.4	ug/kg	83.4	25.0	1	12/19/16 15:33	12/19/16 20:50	104-51-8	
sec-Butylbenzene	<81.3	ug/kg	81.3	24.4	1	12/19/16 15:33	12/19/16 20:50	135-98-8	
tert-Butylbenzene	<109	ug/kg	109	32.7	1	12/19/16 15:33	12/19/16 20:50	98-06-6	
Carbon tetrachloride	<108	ug/kg	108	32.5	1	12/19/16 15:33	12/19/16 20:50	56-23-5	
Chlorobenzene	<59.9	ug/kg	59.9	18.0	1	12/19/16 15:33	12/19/16 20:50	108-90-7	
Chloroethane	<544	ug/kg	544	163	1	12/19/16 15:33	12/19/16 20:50	75-00-3	
Chloroform	<167	ug/kg	167	50.3	1	12/19/16 15:33	12/19/16 20:50	67-66-3	
Chloromethane	<167	ug/kg	167	50.1	1	12/19/16 15:33	12/19/16 20:50	74-87-3	L2
2-Chlorotoluene	<95.1	ug/kg	95.1	28.5	1	12/19/16 15:33	12/19/16 20:50	95-49-8	
4-Chlorotoluene	<90.2	ug/kg	90.2	27.1	1	12/19/16 15:33	12/19/16 20:50	106-43-4	
1,2-Dibromo-3-chloropropane	<202	ug/kg	202	202	1	12/19/16 15:33	12/19/16 20:50	96-12-8	
Dibromochloromethane	<296	ug/kg	296	88.7	1	12/19/16 15:33	12/19/16 20:50	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

Sample: **SB005\_10-15** Lab ID: **10373448004** Collected: 12/14/16 08:55 Received: 12/15/16 17:50 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
1,2-Dibromoethane (EDB)	<38.9	ug/kg	38.9	38.9	1	12/19/16 15:33	12/19/16 20:50	106-93-4	
Dibromomethane	<134	ug/kg	134	40.3	1	12/19/16 15:33	12/19/16 20:50	74-95-3	
1,2-Dichlorobenzene	<20.0	ug/kg	20.0	20.0	1	12/19/16 15:33	12/19/16 20:50	95-50-1	
1,3-Dichlorobenzene	<30.4	ug/kg	30.4	20.0	1	12/19/16 15:33	12/19/16 20:50	541-73-1	
1,4-Dichlorobenzene	<99.9	ug/kg	99.9	30.0	1	12/19/16 15:33	12/19/16 20:50	106-46-7	
Dichlorodifluoromethane	<105	ug/kg	105	31.7	1	12/19/16 15:33	12/19/16 20:50	75-71-8	C0,L2, M1
1,1-Dichloroethane	<40.1	ug/kg	40.1	40.1	1	12/19/16 15:33	12/19/16 20:50	75-34-3	
1,2-Dichloroethane	<32.7	ug/kg	32.7	32.7	1	12/19/16 15:33	12/19/16 20:50	107-06-2	
1,1-Dichloroethene	<26.3	ug/kg	26.3	26.3	1	12/19/16 15:33	12/19/16 20:50	75-35-4	
cis-1,2-Dichloroethene	<128	ug/kg	128	38.5	1	12/19/16 15:33	12/19/16 20:50	156-59-2	
trans-1,2-Dichloroethene	<166	ug/kg	166	49.9	1	12/19/16 15:33	12/19/16 20:50	156-60-5	
Dichlorofluoromethane	<944	ug/kg	944	283	1	12/19/16 15:33	12/19/16 20:50	75-43-4	
1,2-Dichloropropane	<35.8	ug/kg	35.8	35.8	1	12/19/16 15:33	12/19/16 20:50	78-87-5	
1,3-Dichloropropane	<123	ug/kg	123	37.0	1	12/19/16 15:33	12/19/16 20:50	142-28-9	
2,2-Dichloropropane	<110	ug/kg	110	32.9	1	12/19/16 15:33	12/19/16 20:50	594-20-7	
1,1-Dichloropropene	<31.2	ug/kg	31.2	31.2	1	12/19/16 15:33	12/19/16 20:50	563-58-6	
cis-1,3-Dichloropropene	<157	ug/kg	157	47.2	1	12/19/16 15:33	12/19/16 20:50	10061-01-5	
trans-1,3-Dichloropropene	<117	ug/kg	117	35.2	1	12/19/16 15:33	12/19/16 20:50	10061-02-6	
Diethyl ether (Ethyl ether)	<142	ug/kg	142	42.6	1	12/19/16 15:33	12/19/16 20:50	60-29-7	
Ethylbenzene	<110	ug/kg	110	32.9	1	12/19/16 15:33	12/19/16 20:50	100-41-4	
Hexachloro-1,3-butadiene	<324	ug/kg	324	97.2	1	12/19/16 15:33	12/19/16 20:50	87-68-3	
Isopropylbenzene (Cumene)	<123	ug/kg	123	36.8	1	12/19/16 15:33	12/19/16 20:50	98-82-8	
p-Isopropyltoluene	<57.2	ug/kg	57.2	17.2	1	12/19/16 15:33	12/19/16 20:50	99-87-6	
Methylene Chloride	<638	ug/kg	638	192	1	12/19/16 15:33	12/19/16 20:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	<228	ug/kg	228	68.5	1	12/19/16 15:33	12/19/16 20:50	108-10-1	
Methyl-tert-butyl ether	<64.5	ug/kg	64.5	19.4	1	12/19/16 15:33	12/19/16 20:50	1634-04-4	
Naphthalene	85.6	ug/kg	83.4	25.0	1	12/19/16 15:33	12/19/16 20:50	91-20-3	
n-Propylbenzene	<103	ug/kg	103	30.8	1	12/19/16 15:33	12/19/16 20:50	103-65-1	
Styrene	<89.6	ug/kg	89.6	26.9	1	12/19/16 15:33	12/19/16 20:50	100-42-5	
1,1,1,2-Tetrachloroethane	<41.0	ug/kg	41.0	41.0	1	12/19/16 15:33	12/19/16 20:50	630-20-6	
1,1,2,2-Tetrachloroethane	<23.0	ug/kg	23.0	23.0	1	12/19/16 15:33	12/19/16 20:50	79-34-5	
Tetrachloroethene	<132	ug/kg	132	39.5	1	12/19/16 15:33	12/19/16 20:50	127-18-4	
Tetrahydrofuran	<1710	ug/kg	1710	513	1	12/19/16 15:33	12/19/16 20:50	109-99-9	
Toluene	<110	ug/kg	110	32.9	1	12/19/16 15:33	12/19/16 20:50	108-88-3	
1,2,3-Trichlorobenzene	<29.8	ug/kg	29.8	29.8	1	12/19/16 15:33	12/19/16 20:50	87-61-6	
1,2,4-Trichlorobenzene	<31.9	ug/kg	31.9	31.9	1	12/19/16 15:33	12/19/16 20:50	120-82-1	
1,1,1-Trichloroethane	<43.2	ug/kg	43.2	43.2	1	12/19/16 15:33	12/19/16 20:50	71-55-6	
1,1,2-Trichloroethane	<22.3	ug/kg	22.3	22.3	1	12/19/16 15:33	12/19/16 20:50	79-00-5	
Trichloroethene	<98.5	ug/kg	98.5	29.6	1	12/19/16 15:33	12/19/16 20:50	79-01-6	
Trichlorofluoromethane	<346	ug/kg	346	104	1	12/19/16 15:33	12/19/16 20:50	75-69-4	
1,2,3-Trichloropropane	<107	ug/kg	107	107	1	12/19/16 15:33	12/19/16 20:50	96-18-4	
1,1,2-Trichlorotrifluoroethane	<248	ug/kg	248	74.5	1	12/19/16 15:33	12/19/16 20:50	76-13-1	
1,2,4-Trimethylbenzene	<22.8	ug/kg	22.8	22.8	1	12/19/16 15:33	12/19/16 20:50	95-63-6	
1,3,5-Trimethylbenzene	<79.2	ug/kg	79.2	23.8	1	12/19/16 15:33	12/19/16 20:50	108-67-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

**Sample: SB005\_10-15**      **Lab ID: 10373448004**      Collected: 12/14/16 08:55      Received: 12/15/16 17:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Vinyl chloride	<44.2	ug/kg	44.2	13.3	1	12/19/16 15:33	12/19/16 20:50	75-01-4	
Xylene (Total)	<276	ug/kg	276	82.7	1	12/19/16 15:33	12/19/16 20:50	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	92	%	75-129		1	12/19/16 15:33	12/19/16 20:50	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/19/16 15:33	12/19/16 20:50	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/19/16 15:33	12/19/16 20:50	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

**Sample: SB005\_10-15D**      **Lab ID: 10373448005**      Collected: 12/14/16 08:55      Received: 12/15/16 17:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	21.7	%	0.10	0.10	1		12/29/16 09:52		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	9.4	ug/kg	1.7	0.50	1	12/16/16 14:50	12/22/16 13:47	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.35	1	12/16/16 14:50	12/22/16 13:47	208-96-8	
Anthracene	23.5	ug/kg	1.9	0.58	1	12/16/16 14:50	12/22/16 13:47	120-12-7	
Benzo(a)anthracene	18.8	ug/kg	2.0	0.60	1	12/16/16 14:50	12/22/16 13:47	56-55-3	
Benzo(a)pyrene	18.8	ug/kg	1.5	0.44	1	12/16/16 14:50	12/22/16 13:47	50-32-8	
Benzo(b)fluoranthene	22.9	ug/kg	2.4	0.73	1	12/16/16 14:50	12/22/16 13:47	205-99-2	
Benzo(g,h,i)perylene	10.5	ug/kg	1.9	0.58	1	12/16/16 14:50	12/22/16 13:47	191-24-2	
Benzo(k)fluoranthene	10.4	ug/kg	2.1	0.63	1	12/16/16 14:50	12/22/16 13:47	207-08-9	
Chrysene	19.7	ug/kg	2.4	0.71	1	12/16/16 14:50	12/22/16 13:47	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.42	1	12/16/16 14:50	12/22/16 13:47	53-70-3	
Fluoranthene	61.7	ug/kg	3.3	1.0	1	12/16/16 14:50	12/22/16 13:47	206-44-0	
Fluorene	10.8	ug/kg	1.6	0.49	1	12/16/16 14:50	12/22/16 13:47	86-73-7	
Indeno(1,2,3-cd)pyrene	8.7	ug/kg	3.2	0.95	1	12/16/16 14:50	12/22/16 13:47	193-39-5	
Naphthalene	13.3	ug/kg	1.5	0.45	1	12/16/16 14:50	12/22/16 13:47	91-20-3	
Phenanthrene	66.2	ug/kg	1.7	0.51	1	12/16/16 14:50	12/22/16 13:47	85-01-8	
Pyrene	42.1	ug/kg	3.5	1.1	1	12/16/16 14:50	12/22/16 13:47	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	68	%	41-125		1	12/16/16 14:50	12/22/16 13:47	321-60-8	
p-Terphenyl-d14 (S)	81	%	39-125		1	12/16/16 14:50	12/22/16 13:47	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1780	ug/kg	1780	533	1	12/19/16 15:33	12/19/16 21:06	67-64-1	
Allyl chloride	<232	ug/kg	232	69.8	1	12/19/16 15:33	12/19/16 21:06	107-05-1	
Benzene	<23.4	ug/kg	23.4	7.0	1	12/19/16 15:33	12/19/16 21:06	71-43-2	
Bromobenzene	<69.3	ug/kg	69.3	20.8	1	12/19/16 15:33	12/19/16 21:06	108-86-1	
Bromochloromethane	<80.7	ug/kg	80.7	24.2	1	12/19/16 15:33	12/19/16 21:06	74-97-5	
Bromodichloromethane	<75.8	ug/kg	75.8	22.8	1	12/19/16 15:33	12/19/16 21:06	75-27-4	
Bromoform	<233	ug/kg	233	70.1	1	12/19/16 15:33	12/19/16 21:06	75-25-2	
Bromomethane	<275	ug/kg	275	82.4	1	12/19/16 15:33	12/19/16 21:06	74-83-9	
2-Butanone (MEK)	<357	ug/kg	357	107	1	12/19/16 15:33	12/19/16 21:06	78-93-3	
n-Butylbenzene	<65.5	ug/kg	65.5	19.7	1	12/19/16 15:33	12/19/16 21:06	104-51-8	
sec-Butylbenzene	<63.9	ug/kg	63.9	19.2	1	12/19/16 15:33	12/19/16 21:06	135-98-8	
tert-Butylbenzene	<85.6	ug/kg	85.6	25.7	1	12/19/16 15:33	12/19/16 21:06	98-06-6	
Carbon tetrachloride	<85.0	ug/kg	85.0	25.5	1	12/19/16 15:33	12/19/16 21:06	56-23-5	
Chlorobenzene	<47.1	ug/kg	47.1	14.1	1	12/19/16 15:33	12/19/16 21:06	108-90-7	
Chloroethane	<428	ug/kg	428	128	1	12/19/16 15:33	12/19/16 21:06	75-00-3	
Chloroform	<132	ug/kg	132	39.5	1	12/19/16 15:33	12/19/16 21:06	67-66-3	
Chloromethane	<131	ug/kg	131	39.3	1	12/19/16 15:33	12/19/16 21:06	74-87-3	L2
2-Chlorotoluene	<74.7	ug/kg	74.7	22.4	1	12/19/16 15:33	12/19/16 21:06	95-49-8	
4-Chlorotoluene	<70.9	ug/kg	70.9	21.3	1	12/19/16 15:33	12/19/16 21:06	106-43-4	
1,2-Dibromo-3-chloropropane	<159	ug/kg	159	159	1	12/19/16 15:33	12/19/16 21:06	96-12-8	
Dibromochloromethane	<232	ug/kg	232	69.8	1	12/19/16 15:33	12/19/16 21:06	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

Sample: **SB005\_10-15D** Lab ID: **10373448005** Collected: 12/14/16 08:55 Received: 12/15/16 17:50 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<30.6	ug/kg	30.6	30.6	1	12/19/16 15:33	12/19/16 21:06	106-93-4	
Dibromomethane	<106	ug/kg	106	31.7	1	12/19/16 15:33	12/19/16 21:06	74-95-3	
1,2-Dichlorobenzene	<15.7	ug/kg	15.7	15.7	1	12/19/16 15:33	12/19/16 21:06	95-50-1	
1,3-Dichlorobenzene	<23.9	ug/kg	23.9	15.7	1	12/19/16 15:33	12/19/16 21:06	541-73-1	
1,4-Dichlorobenzene	<78.5	ug/kg	78.5	23.6	1	12/19/16 15:33	12/19/16 21:06	106-46-7	
Dichlorodifluoromethane	<82.8	ug/kg	82.8	24.9	1	12/19/16 15:33	12/19/16 21:06	75-71-8	L2
1,1-Dichloroethane	<31.5	ug/kg	31.5	31.5	1	12/19/16 15:33	12/19/16 21:06	75-34-3	
1,2-Dichloroethane	<25.7	ug/kg	25.7	25.7	1	12/19/16 15:33	12/19/16 21:06	107-06-2	
1,1-Dichloroethene	<20.7	ug/kg	20.7	20.7	1	12/19/16 15:33	12/19/16 21:06	75-35-4	
cis-1,2-Dichloroethene	<101	ug/kg	101	30.2	1	12/19/16 15:33	12/19/16 21:06	156-59-2	
trans-1,2-Dichloroethene	<130	ug/kg	130	39.2	1	12/19/16 15:33	12/19/16 21:06	156-60-5	
Dichlorofluoromethane	<742	ug/kg	742	223	1	12/19/16 15:33	12/19/16 21:06	75-43-4	
1,2-Dichloropropane	<28.1	ug/kg	28.1	28.1	1	12/19/16 15:33	12/19/16 21:06	78-87-5	
1,3-Dichloropropane	<96.9	ug/kg	96.9	29.1	1	12/19/16 15:33	12/19/16 21:06	142-28-9	
2,2-Dichloropropane	<86.1	ug/kg	86.1	25.9	1	12/19/16 15:33	12/19/16 21:06	594-20-7	
1,1-Dichloropropene	<24.6	ug/kg	24.6	24.6	1	12/19/16 15:33	12/19/16 21:06	563-58-6	
cis-1,3-Dichloropropene	<123	ug/kg	123	37.1	1	12/19/16 15:33	12/19/16 21:06	10061-01-5	
trans-1,3-Dichloropropene	<92.0	ug/kg	92.0	27.6	1	12/19/16 15:33	12/19/16 21:06	10061-02-6	
Diethyl ether (Ethyl ether)	<112	ug/kg	112	33.5	1	12/19/16 15:33	12/19/16 21:06	60-29-7	
Ethylbenzene	<86.1	ug/kg	86.1	25.9	1	12/19/16 15:33	12/19/16 21:06	100-41-4	
Hexachloro-1,3-butadiene	<254	ug/kg	254	76.4	1	12/19/16 15:33	12/19/16 21:06	87-68-3	
Isopropylbenzene (Cumene)	<96.4	ug/kg	96.4	28.9	1	12/19/16 15:33	12/19/16 21:06	98-82-8	
p-Isopropyltoluene	<44.9	ug/kg	44.9	13.5	1	12/19/16 15:33	12/19/16 21:06	99-87-6	
Methylene Chloride	<501	ug/kg	501	151	1	12/19/16 15:33	12/19/16 21:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	<179	ug/kg	179	53.8	1	12/19/16 15:33	12/19/16 21:06	108-10-1	
Methyl-tert-butyl ether	<50.7	ug/kg	50.7	15.2	1	12/19/16 15:33	12/19/16 21:06	1634-04-4	
Naphthalene	<65.5	ug/kg	65.5	19.7	1	12/19/16 15:33	12/19/16 21:06	91-20-3	
n-Propylbenzene	<80.7	ug/kg	80.7	24.2	1	12/19/16 15:33	12/19/16 21:06	103-65-1	
Styrene	<70.4	ug/kg	70.4	21.1	1	12/19/16 15:33	12/19/16 21:06	100-42-5	
1,1,1,2-Tetrachloroethane	<32.2	ug/kg	32.2	32.2	1	12/19/16 15:33	12/19/16 21:06	630-20-6	
1,1,2,2-Tetrachloroethane	<18.0	ug/kg	18.0	18.0	1	12/19/16 15:33	12/19/16 21:06	79-34-5	
Tetrachloroethene	<103	ug/kg	103	31.1	1	12/19/16 15:33	12/19/16 21:06	127-18-4	
Tetrahydrofuran	<1340	ug/kg	1340	403	1	12/19/16 15:33	12/19/16 21:06	109-99-9	
Toluene	<86.1	ug/kg	86.1	25.9	1	12/19/16 15:33	12/19/16 21:06	108-88-3	
1,2,3-Trichlorobenzene	<23.4	ug/kg	23.4	23.4	1	12/19/16 15:33	12/19/16 21:06	87-61-6	
1,2,4-Trichlorobenzene	<25.0	ug/kg	25.0	25.0	1	12/19/16 15:33	12/19/16 21:06	120-82-1	
1,1,1-Trichloroethane	<34.0	ug/kg	34.0	34.0	1	12/19/16 15:33	12/19/16 21:06	71-55-6	
1,1,2-Trichloroethane	<17.6	ug/kg	17.6	17.6	1	12/19/16 15:33	12/19/16 21:06	79-00-5	
Trichloroethene	<77.4	ug/kg	77.4	23.3	1	12/19/16 15:33	12/19/16 21:06	79-01-6	
Trichlorofluoromethane	<272	ug/kg	272	81.6	1	12/19/16 15:33	12/19/16 21:06	75-69-4	
1,2,3-Trichloropropane	<84.2	ug/kg	84.2	84.2	1	12/19/16 15:33	12/19/16 21:06	96-18-4	
1,1,2-Trichlorotrifluoroethane	<195	ug/kg	195	58.5	1	12/19/16 15:33	12/19/16 21:06	76-13-1	
1,2,4-Trimethylbenzene	<17.9	ug/kg	17.9	17.9	1	12/19/16 15:33	12/19/16 21:06	95-63-6	
1,3,5-Trimethylbenzene	<62.3	ug/kg	62.3	18.7	1	12/19/16 15:33	12/19/16 21:06	108-67-8	
Vinyl chloride	<34.8	ug/kg	34.8	10.4	1	12/19/16 15:33	12/19/16 21:06	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

**Sample: SB005\_10-15D**      **Lab ID: 10373448005**      Collected: 12/14/16 08:55      Received: 12/15/16 17:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<217	ug/kg	217	65.0	1	12/19/16 15:33	12/19/16 21:06	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	95	%	75-129		1	12/19/16 15:33	12/19/16 21:06	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/19/16 15:33	12/19/16 21:06	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/19/16 15:33	12/19/16 21:06	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

Sample: **SB006\_2-4** Lab ID: **10373448006** Collected: 12/14/16 10:45 Received: 12/15/16 17:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	15.0	%	0.10	0.10	1		12/29/16 09:52		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	11.5	ug/kg	1.5	0.46	1	12/16/16 14:50	12/22/16 14:09	83-32-9	
Acenaphthylene	6.7	ug/kg	1.1	0.32	1	12/16/16 14:50	12/22/16 14:09	208-96-8	
Anthracene	17.2	ug/kg	1.8	0.53	1	12/16/16 14:50	12/22/16 14:09	120-12-7	
Benzo(a)anthracene	71.3	ug/kg	1.8	0.55	1	12/16/16 14:50	12/22/16 14:09	56-55-3	
Benzo(a)pyrene	58.0	ug/kg	1.4	0.41	1	12/16/16 14:50	12/22/16 14:09	50-32-8	
Benzo(b)fluoranthene	84.4	ug/kg	2.2	0.67	1	12/16/16 14:50	12/22/16 14:09	205-99-2	
Benzo(g,h,i)perylene	38.5	ug/kg	1.8	0.54	1	12/16/16 14:50	12/22/16 14:09	191-24-2	
Benzo(k)fluoranthene	34.7	ug/kg	1.9	0.58	1	12/16/16 14:50	12/22/16 14:09	207-08-9	
Chrysene	74.7	ug/kg	2.2	0.65	1	12/16/16 14:50	12/22/16 14:09	218-01-9	
Dibenz(a,h)anthracene	11.4	ug/kg	1.3	0.38	1	12/16/16 14:50	12/22/16 14:09	53-70-3	
Fluoranthene	139	ug/kg	3.1	0.92	1	12/16/16 14:50	12/22/16 14:09	206-44-0	
Fluorene	16.1	ug/kg	1.5	0.45	1	12/16/16 14:50	12/22/16 14:09	86-73-7	
Indeno(1,2,3-cd)pyrene	28.8	ug/kg	2.9	0.88	1	12/16/16 14:50	12/22/16 14:09	193-39-5	
Naphthalene	125	ug/kg	1.4	0.42	1	12/16/16 14:50	12/22/16 14:09	91-20-3	
Phenanthrene	169	ug/kg	1.6	0.47	1	12/16/16 14:50	12/22/16 14:09	85-01-8	
Pyrene	114	ug/kg	3.2	0.98	1	12/16/16 14:50	12/22/16 14:09	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	72	%	41-125		1	12/16/16 14:50	12/22/16 14:09	321-60-8	
p-Terphenyl-d14 (S)	82	%	39-125		1	12/16/16 14:50	12/22/16 14:09	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1230	ug/kg	1230	370	1	12/19/16 15:33	12/19/16 21:39	67-64-1	
Allyl chloride	<161	ug/kg	161	48.4	1	12/19/16 15:33	12/19/16 21:39	107-05-1	
Benzene	49.8	ug/kg	16.2	4.9	1	12/19/16 15:33	12/19/16 21:39	71-43-2	
Bromobenzene	<48.1	ug/kg	48.1	14.5	1	12/19/16 15:33	12/19/16 21:39	108-86-1	
Bromochloromethane	<56.0	ug/kg	56.0	16.8	1	12/19/16 15:33	12/19/16 21:39	74-97-5	
Bromodichloromethane	<52.6	ug/kg	52.6	15.8	1	12/19/16 15:33	12/19/16 21:39	75-27-4	
Bromoform	<162	ug/kg	162	48.7	1	12/19/16 15:33	12/19/16 21:39	75-25-2	
Bromomethane	<191	ug/kg	191	57.2	1	12/19/16 15:33	12/19/16 21:39	74-83-9	
2-Butanone (MEK)	<248	ug/kg	248	74.5	1	12/19/16 15:33	12/19/16 21:39	78-93-3	
n-Butylbenzene	<45.5	ug/kg	45.5	13.7	1	12/19/16 15:33	12/19/16 21:39	104-51-8	
sec-Butylbenzene	<44.4	ug/kg	44.4	13.3	1	12/19/16 15:33	12/19/16 21:39	135-98-8	
tert-Butylbenzene	<59.4	ug/kg	59.4	17.8	1	12/19/16 15:33	12/19/16 21:39	98-06-6	
Carbon tetrachloride	<59.0	ug/kg	59.0	17.7	1	12/19/16 15:33	12/19/16 21:39	56-23-5	
Chlorobenzene	<32.7	ug/kg	32.7	9.8	1	12/19/16 15:33	12/19/16 21:39	108-90-7	
Chloroethane	<297	ug/kg	297	89.2	1	12/19/16 15:33	12/19/16 21:39	75-00-3	
Chloroform	<91.4	ug/kg	91.4	27.4	1	12/19/16 15:33	12/19/16 21:39	67-66-3	
Chloromethane	<91.0	ug/kg	91.0	27.3	1	12/19/16 15:33	12/19/16 21:39	74-87-3	L2
2-Chlorotoluene	<51.9	ug/kg	51.9	15.6	1	12/19/16 15:33	12/19/16 21:39	95-49-8	
4-Chlorotoluene	<49.2	ug/kg	49.2	14.8	1	12/19/16 15:33	12/19/16 21:39	106-43-4	
1,2-Dibromo-3-chloropropane	<110	ug/kg	110	110	1	12/19/16 15:33	12/19/16 21:39	96-12-8	
Dibromochloromethane	<161	ug/kg	161	48.4	1	12/19/16 15:33	12/19/16 21:39	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

Sample: **SB006\_2-4** Lab ID: **10373448006** Collected: 12/14/16 10:45 Received: 12/15/16 17:50 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
1,2-Dibromoethane (EDB)	<21.2	ug/kg	21.2	21.2	1	12/19/16 15:33	12/19/16 21:39	106-93-4	
Dibromomethane	<73.3	ug/kg	73.3	22.0	1	12/19/16 15:33	12/19/16 21:39	74-95-3	
1,2-Dichlorobenzene	<10.9	ug/kg	10.9	10.9	1	12/19/16 15:33	12/19/16 21:39	95-50-1	
1,3-Dichlorobenzene	<16.6	ug/kg	16.6	10.9	1	12/19/16 15:33	12/19/16 21:39	541-73-1	
1,4-Dichlorobenzene	<54.5	ug/kg	54.5	16.4	1	12/19/16 15:33	12/19/16 21:39	106-46-7	
Dichlorodifluoromethane	<57.5	ug/kg	57.5	17.3	1	12/19/16 15:33	12/19/16 21:39	75-71-8	L2
1,1-Dichloroethane	<21.9	ug/kg	21.9	21.9	1	12/19/16 15:33	12/19/16 21:39	75-34-3	
1,2-Dichloroethane	<17.8	ug/kg	17.8	17.8	1	12/19/16 15:33	12/19/16 21:39	107-06-2	
1,1-Dichloroethene	<14.3	ug/kg	14.3	14.3	1	12/19/16 15:33	12/19/16 21:39	75-35-4	
cis-1,2-Dichloroethene	<69.9	ug/kg	69.9	21.0	1	12/19/16 15:33	12/19/16 21:39	156-59-2	
trans-1,2-Dichloroethene	<90.6	ug/kg	90.6	27.2	1	12/19/16 15:33	12/19/16 21:39	156-60-5	
Dichlorofluoromethane	<515	ug/kg	515	155	1	12/19/16 15:33	12/19/16 21:39	75-43-4	
1,2-Dichloropropane	<19.5	ug/kg	19.5	19.5	1	12/19/16 15:33	12/19/16 21:39	78-87-5	
1,3-Dichloropropane	<67.3	ug/kg	67.3	20.2	1	12/19/16 15:33	12/19/16 21:39	142-28-9	
2,2-Dichloropropane	<59.8	ug/kg	59.8	18.0	1	12/19/16 15:33	12/19/16 21:39	594-20-7	
1,1-Dichloropropene	<17.0	ug/kg	17.0	17.0	1	12/19/16 15:33	12/19/16 21:39	563-58-6	
cis-1,3-Dichloropropene	<85.7	ug/kg	85.7	25.7	1	12/19/16 15:33	12/19/16 21:39	10061-01-5	
trans-1,3-Dichloropropene	<63.9	ug/kg	63.9	19.2	1	12/19/16 15:33	12/19/16 21:39	10061-02-6	
Diethyl ether (Ethyl ether)	<77.4	ug/kg	77.4	23.3	1	12/19/16 15:33	12/19/16 21:39	60-29-7	
Ethylbenzene	<59.8	ug/kg	59.8	18.0	1	12/19/16 15:33	12/19/16 21:39	100-41-4	
Hexachloro-1,3-butadiene	<177	ug/kg	177	53.1	1	12/19/16 15:33	12/19/16 21:39	87-68-3	
Isopropylbenzene (Cumene)	<66.9	ug/kg	66.9	20.1	1	12/19/16 15:33	12/19/16 21:39	98-82-8	
p-Isopropyltoluene	<31.2	ug/kg	31.2	9.4	1	12/19/16 15:33	12/19/16 21:39	99-87-6	
Methylene Chloride	<348	ug/kg	348	105	1	12/19/16 15:33	12/19/16 21:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	<124	ug/kg	124	37.4	1	12/19/16 15:33	12/19/16 21:39	108-10-1	
Methyl-tert-butyl ether	<35.2	ug/kg	35.2	10.6	1	12/19/16 15:33	12/19/16 21:39	1634-04-4	
Naphthalene	230	ug/kg	45.5	13.7	1	12/19/16 15:33	12/19/16 21:39	91-20-3	
n-Propylbenzene	<56.0	ug/kg	56.0	16.8	1	12/19/16 15:33	12/19/16 21:39	103-65-1	
Styrene	<48.9	ug/kg	48.9	14.7	1	12/19/16 15:33	12/19/16 21:39	100-42-5	
1,1,1,2-Tetrachloroethane	<22.4	ug/kg	22.4	22.4	1	12/19/16 15:33	12/19/16 21:39	630-20-6	
1,1,2,2-Tetrachloroethane	<12.5	ug/kg	12.5	12.5	1	12/19/16 15:33	12/19/16 21:39	79-34-5	
Tetrachloroethene	<71.8	ug/kg	71.8	21.6	1	12/19/16 15:33	12/19/16 21:39	127-18-4	
Tetrahydrofuran	<932	ug/kg	932	280	1	12/19/16 15:33	12/19/16 21:39	109-99-9	
Toluene	231	ug/kg	59.8	18.0	1	12/19/16 15:33	12/19/16 21:39	108-88-3	
1,2,3-Trichlorobenzene	<16.3	ug/kg	16.3	16.3	1	12/19/16 15:33	12/19/16 21:39	87-61-6	
1,2,4-Trichlorobenzene	<17.4	ug/kg	17.4	17.4	1	12/19/16 15:33	12/19/16 21:39	120-82-1	
1,1,1-Trichloroethane	<23.6	ug/kg	23.6	23.6	1	12/19/16 15:33	12/19/16 21:39	71-55-6	
1,1,2-Trichloroethane	<12.2	ug/kg	12.2	12.2	1	12/19/16 15:33	12/19/16 21:39	79-00-5	
Trichloroethene	<53.8	ug/kg	53.8	16.1	1	12/19/16 15:33	12/19/16 21:39	79-01-6	
Trichlorofluoromethane	<189	ug/kg	189	56.7	1	12/19/16 15:33	12/19/16 21:39	75-69-4	
1,2,3-Trichloropropane	<58.5	ug/kg	58.5	58.5	1	12/19/16 15:33	12/19/16 21:39	96-18-4	
1,1,2-Trichlorotrifluoroethane	<135	ug/kg	135	40.6	1	12/19/16 15:33	12/19/16 21:39	76-13-1	
1,2,4-Trimethylbenzene	127	ug/kg	12.4	12.4	1	12/19/16 15:33	12/19/16 21:39	95-63-6	
1,3,5-Trimethylbenzene	<43.2	ug/kg	43.2	13.0	1	12/19/16 15:33	12/19/16 21:39	108-67-8	
Vinyl chloride	<24.1	ug/kg	24.1	7.2	1	12/19/16 15:33	12/19/16 21:39	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

**Sample: SB006\_2-4**      **Lab ID: 10373448006**      Collected: 12/14/16 10:45      Received: 12/15/16 17:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>409</b>	ug/kg	150	45.2	1	12/19/16 15:33	12/19/16 21:39	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	95	%	75-129		1	12/19/16 15:33	12/19/16 21:39	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/19/16 15:33	12/19/16 21:39	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/19/16 15:33	12/19/16 21:39	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

**Sample: SB006\_8-10**      **Lab ID: 10373448007**      Collected: 12/14/16 10:50      Received: 12/15/16 17:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	27.6	%	0.10	0.10	1		12/29/16 11:01		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.8	ug/kg	1.8	0.54	1	12/16/16 14:50	12/22/16 14:30	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.37	1	12/16/16 14:50	12/22/16 14:30	208-96-8	
Anthracene	<2.1	ug/kg	2.1	0.63	1	12/16/16 14:50	12/22/16 14:30	120-12-7	
Benzo(a)anthracene	<2.2	ug/kg	2.2	0.65	1	12/16/16 14:50	12/22/16 14:30	56-55-3	
Benzo(a)pyrene	<1.6	ug/kg	1.6	0.48	1	12/16/16 14:50	12/22/16 14:30	50-32-8	
Benzo(b)fluoranthene	<2.6	ug/kg	2.6	0.79	1	12/16/16 14:50	12/22/16 14:30	205-99-2	
Benzo(g,h,i)perylene	<2.1	ug/kg	2.1	0.63	1	12/16/16 14:50	12/22/16 14:30	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	2.3	0.68	1	12/16/16 14:50	12/22/16 14:30	207-08-9	
Chrysene	<2.5	ug/kg	2.5	0.76	1	12/16/16 14:50	12/22/16 14:30	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.45	1	12/16/16 14:50	12/22/16 14:30	53-70-3	
Fluoranthene	<3.6	ug/kg	3.6	1.1	1	12/16/16 14:50	12/22/16 14:30	206-44-0	
Fluorene	<1.8	ug/kg	1.8	0.53	1	12/16/16 14:50	12/22/16 14:30	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.4	ug/kg	3.4	1.0	1	12/16/16 14:50	12/22/16 14:30	193-39-5	
Naphthalene	<1.6	ug/kg	1.6	0.49	1	12/16/16 14:50	12/22/16 14:30	91-20-3	
Phenanthrene	<1.8	ug/kg	1.8	0.56	1	12/16/16 14:50	12/22/16 14:30	85-01-8	
Pyrene	<3.8	ug/kg	3.8	1.1	1	12/16/16 14:50	12/22/16 14:30	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	63	%	41-125		1	12/16/16 14:50	12/22/16 14:30	321-60-8	
p-Terphenyl-d14 (S)	75	%	39-125		1	12/16/16 14:50	12/22/16 14:30	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1440	ug/kg	1440	433	1	12/19/16 15:33	12/19/16 21:55	67-64-1	
Allyl chloride	<188	ug/kg	188	56.6	1	12/19/16 15:33	12/19/16 21:55	107-05-1	
Benzene	<19.0	ug/kg	19.0	5.7	1	12/19/16 15:33	12/19/16 21:55	71-43-2	
Bromobenzene	<56.2	ug/kg	56.2	16.9	1	12/19/16 15:33	12/19/16 21:55	108-86-1	
Bromochloromethane	<65.4	ug/kg	65.4	19.6	1	12/19/16 15:33	12/19/16 21:55	74-97-5	
Bromodichloromethane	<61.5	ug/kg	61.5	18.5	1	12/19/16 15:33	12/19/16 21:55	75-27-4	
Bromoform	<189	ug/kg	189	56.8	1	12/19/16 15:33	12/19/16 21:55	75-25-2	
Bromomethane	<223	ug/kg	223	66.9	1	12/19/16 15:33	12/19/16 21:55	74-83-9	
2-Butanone (MEK)	<290	ug/kg	290	87.0	1	12/19/16 15:33	12/19/16 21:55	78-93-3	
n-Butylbenzene	<53.1	ug/kg	53.1	16.0	1	12/19/16 15:33	12/19/16 21:55	104-51-8	
sec-Butylbenzene	<51.8	ug/kg	51.8	15.6	1	12/19/16 15:33	12/19/16 21:55	135-98-8	
tert-Butylbenzene	<69.4	ug/kg	69.4	20.8	1	12/19/16 15:33	12/19/16 21:55	98-06-6	
Carbon tetrachloride	<68.9	ug/kg	68.9	20.7	1	12/19/16 15:33	12/19/16 21:55	56-23-5	
Chlorobenzene	<38.2	ug/kg	38.2	11.5	1	12/19/16 15:33	12/19/16 21:55	108-90-7	
Chloroethane	<347	ug/kg	347	104	1	12/19/16 15:33	12/19/16 21:55	75-00-3	
Chloroform	<107	ug/kg	107	32.0	1	12/19/16 15:33	12/19/16 21:55	67-66-3	
Chloromethane	<106	ug/kg	106	31.9	1	12/19/16 15:33	12/19/16 21:55	74-87-3	L2
2-Chlorotoluene	<60.6	ug/kg	60.6	18.2	1	12/19/16 15:33	12/19/16 21:55	95-49-8	
4-Chlorotoluene	<57.5	ug/kg	57.5	17.3	1	12/19/16 15:33	12/19/16 21:55	106-43-4	
1,2-Dibromo-3-chloropropane	<129	ug/kg	129	129	1	12/19/16 15:33	12/19/16 21:55	96-12-8	
Dibromochloromethane	<188	ug/kg	188	56.6	1	12/19/16 15:33	12/19/16 21:55	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

**Sample: SB006\_8-10**      **Lab ID: 10373448007**      Collected: 12/14/16 10:50      Received: 12/15/16 17:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<24.8	ug/kg	24.8	24.8	1	12/19/16 15:33	12/19/16 21:55	106-93-4	
Dibromomethane	<85.6	ug/kg	85.6	25.7	1	12/19/16 15:33	12/19/16 21:55	74-95-3	
1,2-Dichlorobenzene	<12.7	ug/kg	12.7	12.7	1	12/19/16 15:33	12/19/16 21:55	95-50-1	
1,3-Dichlorobenzene	<19.4	ug/kg	19.4	12.7	1	12/19/16 15:33	12/19/16 21:55	541-73-1	
1,4-Dichlorobenzene	<63.7	ug/kg	63.7	19.1	1	12/19/16 15:33	12/19/16 21:55	106-46-7	
Dichlorodifluoromethane	<67.2	ug/kg	67.2	20.2	1	12/19/16 15:33	12/19/16 21:55	75-71-8	L2
1,1-Dichloroethane	<25.6	ug/kg	25.6	25.6	1	12/19/16 15:33	12/19/16 21:55	75-34-3	
1,2-Dichloroethane	<20.8	ug/kg	20.8	20.8	1	12/19/16 15:33	12/19/16 21:55	107-06-2	
1,1-Dichloroethene	<16.7	ug/kg	16.7	16.7	1	12/19/16 15:33	12/19/16 21:55	75-35-4	
cis-1,2-Dichloroethene	<81.7	ug/kg	81.7	24.5	1	12/19/16 15:33	12/19/16 21:55	156-59-2	
trans-1,2-Dichloroethene	<106	ug/kg	106	31.8	1	12/19/16 15:33	12/19/16 21:55	156-60-5	
Dichlorofluoromethane	<602	ug/kg	602	181	1	12/19/16 15:33	12/19/16 21:55	75-43-4	
1,2-Dichloropropane	<22.8	ug/kg	22.8	22.8	1	12/19/16 15:33	12/19/16 21:55	78-87-5	
1,3-Dichloropropane	<78.6	ug/kg	78.6	23.6	1	12/19/16 15:33	12/19/16 21:55	142-28-9	
2,2-Dichloropropane	<69.8	ug/kg	69.8	21.0	1	12/19/16 15:33	12/19/16 21:55	594-20-7	
1,1-Dichloropropene	<19.9	ug/kg	19.9	19.9	1	12/19/16 15:33	12/19/16 21:55	563-58-6	
cis-1,3-Dichloropropene	<100	ug/kg	100	30.1	1	12/19/16 15:33	12/19/16 21:55	10061-01-5	
trans-1,3-Dichloropropene	<74.7	ug/kg	74.7	22.4	1	12/19/16 15:33	12/19/16 21:55	10061-02-6	
Diethyl ether (Ethyl ether)	<90.5	ug/kg	90.5	27.2	1	12/19/16 15:33	12/19/16 21:55	60-29-7	
Ethylbenzene	<69.8	ug/kg	69.8	21.0	1	12/19/16 15:33	12/19/16 21:55	100-41-4	
Hexachloro-1,3-butadiene	<206	ug/kg	206	62.0	1	12/19/16 15:33	12/19/16 21:55	87-68-3	
Isopropylbenzene (Cumene)	<78.2	ug/kg	78.2	23.5	1	12/19/16 15:33	12/19/16 21:55	98-82-8	
p-Isopropyltoluene	<36.4	ug/kg	36.4	10.9	1	12/19/16 15:33	12/19/16 21:55	99-87-6	
Methylene Chloride	<407	ug/kg	407	122	1	12/19/16 15:33	12/19/16 21:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	<145	ug/kg	145	43.6	1	12/19/16 15:33	12/19/16 21:55	108-10-1	
Methyl-tert-butyl ether	<41.1	ug/kg	41.1	12.3	1	12/19/16 15:33	12/19/16 21:55	1634-04-4	
Naphthalene	<53.1	ug/kg	53.1	16.0	1	12/19/16 15:33	12/19/16 21:55	91-20-3	
n-Propylbenzene	<65.4	ug/kg	65.4	19.6	1	12/19/16 15:33	12/19/16 21:55	103-65-1	
Styrene	<57.1	ug/kg	57.1	17.1	1	12/19/16 15:33	12/19/16 21:55	100-42-5	
1,1,1,2-Tetrachloroethane	<26.1	ug/kg	26.1	26.1	1	12/19/16 15:33	12/19/16 21:55	630-20-6	
1,1,2,2-Tetrachloroethane	<14.6	ug/kg	14.6	14.6	1	12/19/16 15:33	12/19/16 21:55	79-34-5	
Tetrachloroethene	<83.9	ug/kg	83.9	25.2	1	12/19/16 15:33	12/19/16 21:55	127-18-4	
Tetrahydrofuran	<1090	ug/kg	1090	327	1	12/19/16 15:33	12/19/16 21:55	109-99-9	
Toluene	<69.8	ug/kg	69.8	21.0	1	12/19/16 15:33	12/19/16 21:55	108-88-3	
1,2,3-Trichlorobenzene	<19.0	ug/kg	19.0	19.0	1	12/19/16 15:33	12/19/16 21:55	87-61-6	
1,2,4-Trichlorobenzene	<20.3	ug/kg	20.3	20.3	1	12/19/16 15:33	12/19/16 21:55	120-82-1	
1,1,1-Trichloroethane	<27.6	ug/kg	27.6	27.6	1	12/19/16 15:33	12/19/16 21:55	71-55-6	
1,1,2-Trichloroethane	<14.2	ug/kg	14.2	14.2	1	12/19/16 15:33	12/19/16 21:55	79-00-5	
Trichloroethene	<62.8	ug/kg	62.8	18.9	1	12/19/16 15:33	12/19/16 21:55	79-01-6	
Trichlorofluoromethane	<220	ug/kg	220	66.2	1	12/19/16 15:33	12/19/16 21:55	75-69-4	
1,2,3-Trichloropropane	<68.3	ug/kg	68.3	68.3	1	12/19/16 15:33	12/19/16 21:55	96-18-4	
1,1,2-Trichlorotrifluoroethane	<158	ug/kg	158	47.5	1	12/19/16 15:33	12/19/16 21:55	76-13-1	
1,2,4-Trimethylbenzene	<14.5	ug/kg	14.5	14.5	1	12/19/16 15:33	12/19/16 21:55	95-63-6	
1,3,5-Trimethylbenzene	<50.5	ug/kg	50.5	15.2	1	12/19/16 15:33	12/19/16 21:55	108-67-8	
Vinyl chloride	<28.2	ug/kg	28.2	8.5	1	12/19/16 15:33	12/19/16 21:55	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

**Sample: SB006\_8-10**      **Lab ID: 10373448007**      Collected: 12/14/16 10:50      Received: 12/15/16 17:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<176	ug/kg	176	52.7	1	12/19/16 15:33	12/19/16 21:55	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	97	%	75-129		1	12/19/16 15:33	12/19/16 21:55	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/19/16 15:33	12/19/16 21:55	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	12/19/16 15:33	12/19/16 21:55	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

Sample: **SB006\_14-15** Lab ID: **10373448008** Collected: 12/14/16 11:00 Received: 12/15/16 17:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>30.0</b>	%	0.10	0.10	1		12/29/16 11:01		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.9	ug/kg	1.9	0.56	1	12/16/16 14:50	12/22/16 14:52	83-32-9	
Acenaphthylene	<1.3	ug/kg	1.3	0.39	1	12/16/16 14:50	12/22/16 14:52	208-96-8	
Anthracene	<2.2	ug/kg	2.2	0.65	1	12/16/16 14:50	12/22/16 14:52	120-12-7	
Benzo(a)anthracene	<2.2	ug/kg	2.2	0.67	1	12/16/16 14:50	12/22/16 14:52	56-55-3	
Benzo(a)pyrene	<1.7	ug/kg	1.7	0.50	1	12/16/16 14:50	12/22/16 14:52	50-32-8	
Benzo(b)fluoranthene	<2.7	ug/kg	2.7	0.82	1	12/16/16 14:50	12/22/16 14:52	205-99-2	
Benzo(g,h,i)perylene	<2.2	ug/kg	2.2	0.65	1	12/16/16 14:50	12/22/16 14:52	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	2.3	0.70	1	12/16/16 14:50	12/22/16 14:52	207-08-9	
Chrysene	<2.6	ug/kg	2.6	0.79	1	12/16/16 14:50	12/22/16 14:52	218-01-9	
Dibenz(a,h)anthracene	<1.6	ug/kg	1.6	0.47	1	12/16/16 14:50	12/22/16 14:52	53-70-3	
Fluoranthene	<3.7	ug/kg	3.7	1.1	1	12/16/16 14:50	12/22/16 14:52	206-44-0	
Fluorene	<1.8	ug/kg	1.8	0.55	1	12/16/16 14:50	12/22/16 14:52	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.6	ug/kg	3.6	1.1	1	12/16/16 14:50	12/22/16 14:52	193-39-5	
Naphthalene	<1.7	ug/kg	1.7	0.51	1	12/16/16 14:50	12/22/16 14:52	91-20-3	
Phenanthrene	<1.9	ug/kg	1.9	0.58	1	12/16/16 14:50	12/22/16 14:52	85-01-8	
Pyrene	<3.9	ug/kg	3.9	1.2	1	12/16/16 14:50	12/22/16 14:52	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	70	%	41-125		1	12/16/16 14:50	12/22/16 14:52	321-60-8	
p-Terphenyl-d14 (S)	77	%	39-125		1	12/16/16 14:50	12/22/16 14:52	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<2630	ug/kg	2630	789	1	12/19/16 15:33	12/20/16 00:03	67-64-1	
Allyl chloride	<344	ug/kg	344	103	1	12/19/16 15:33	12/20/16 00:03	107-05-1	
Benzene	<34.6	ug/kg	34.6	10.4	1	12/19/16 15:33	12/20/16 00:03	71-43-2	
Bromobenzene	<103	ug/kg	103	30.8	1	12/19/16 15:33	12/20/16 00:03	108-86-1	
Bromochloromethane	<119	ug/kg	119	35.8	1	12/19/16 15:33	12/20/16 00:03	74-97-5	
Bromodichloromethane	<112	ug/kg	112	33.7	1	12/19/16 15:33	12/20/16 00:03	75-27-4	
Bromoform	<345	ug/kg	345	104	1	12/19/16 15:33	12/20/16 00:03	75-25-2	
Bromomethane	<406	ug/kg	406	122	1	12/19/16 15:33	12/20/16 00:03	74-83-9	
2-Butanone (MEK)	<529	ug/kg	529	159	1	12/19/16 15:33	12/20/16 00:03	78-93-3	
n-Butylbenzene	<96.9	ug/kg	96.9	29.1	1	12/19/16 15:33	12/20/16 00:03	104-51-8	
sec-Butylbenzene	<94.5	ug/kg	94.5	28.4	1	12/19/16 15:33	12/20/16 00:03	135-98-8	
tert-Butylbenzene	<127	ug/kg	127	38.0	1	12/19/16 15:33	12/20/16 00:03	98-06-6	
Carbon tetrachloride	<126	ug/kg	126	37.8	1	12/19/16 15:33	12/20/16 00:03	56-23-5	
Chlorobenzene	<69.7	ug/kg	69.7	20.9	1	12/19/16 15:33	12/20/16 00:03	108-90-7	
Chloroethane	<633	ug/kg	633	190	1	12/19/16 15:33	12/20/16 00:03	75-00-3	
Chloroform	<195	ug/kg	195	58.5	1	12/19/16 15:33	12/20/16 00:03	67-66-3	
Chloromethane	<194	ug/kg	194	58.2	1	12/19/16 15:33	12/20/16 00:03	74-87-3	L2
2-Chlorotoluene	<111	ug/kg	111	33.2	1	12/19/16 15:33	12/20/16 00:03	95-49-8	
4-Chlorotoluene	<105	ug/kg	105	31.5	1	12/19/16 15:33	12/20/16 00:03	106-43-4	
1,2-Dibromo-3-chloropropane	<235	ug/kg	235	235	1	12/19/16 15:33	12/20/16 00:03	96-12-8	
Dibromochloromethane	<344	ug/kg	344	103	1	12/19/16 15:33	12/20/16 00:03	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

Sample: **SB006\_14-15** Lab ID: **10373448008** Collected: 12/14/16 11:00 Received: 12/15/16 17:50 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<45.2	ug/kg	45.2	45.2	1	12/19/16 15:33	12/20/16 00:03	106-93-4	
Dibromomethane	<156	ug/kg	156	46.9	1	12/19/16 15:33	12/20/16 00:03	74-95-3	
1,2-Dichlorobenzene	<23.2	ug/kg	23.2	23.2	1	12/19/16 15:33	12/20/16 00:03	95-50-1	
1,3-Dichlorobenzene	<35.4	ug/kg	35.4	23.2	1	12/19/16 15:33	12/20/16 00:03	541-73-1	
1,4-Dichlorobenzene	<116	ug/kg	116	34.9	1	12/19/16 15:33	12/20/16 00:03	106-46-7	
Dichlorodifluoromethane	<123	ug/kg	123	36.8	1	12/19/16 15:33	12/20/16 00:03	75-71-8	L2
1,1-Dichloroethane	<46.7	ug/kg	46.7	46.7	1	12/19/16 15:33	12/20/16 00:03	75-34-3	
1,2-Dichloroethane	<38.0	ug/kg	38.0	38.0	1	12/19/16 15:33	12/20/16 00:03	107-06-2	
1,1-Dichloroethene	<30.6	ug/kg	30.6	30.6	1	12/19/16 15:33	12/20/16 00:03	75-35-4	
cis-1,2-Dichloroethene	<149	ug/kg	149	44.7	1	12/19/16 15:33	12/20/16 00:03	156-59-2	
trans-1,2-Dichloroethene	<193	ug/kg	193	58.0	1	12/19/16 15:33	12/20/16 00:03	156-60-5	
Dichlorofluoromethane	<1100	ug/kg	1100	330	1	12/19/16 15:33	12/20/16 00:03	75-43-4	
1,2-Dichloropropane	<41.6	ug/kg	41.6	41.6	1	12/19/16 15:33	12/20/16 00:03	78-87-5	
1,3-Dichloropropane	<143	ug/kg	143	43.1	1	12/19/16 15:33	12/20/16 00:03	142-28-9	
2,2-Dichloropropane	<127	ug/kg	127	38.3	1	12/19/16 15:33	12/20/16 00:03	594-20-7	
1,1-Dichloropropene	<36.3	ug/kg	36.3	36.3	1	12/19/16 15:33	12/20/16 00:03	563-58-6	
cis-1,3-Dichloropropene	<183	ug/kg	183	54.9	1	12/19/16 15:33	12/20/16 00:03	10061-01-5	
trans-1,3-Dichloropropene	<136	ug/kg	136	40.9	1	12/19/16 15:33	12/20/16 00:03	10061-02-6	
Diethyl ether (Ethyl ether)	<165	ug/kg	165	49.6	1	12/19/16 15:33	12/20/16 00:03	60-29-7	
Ethylbenzene	<127	ug/kg	127	38.3	1	12/19/16 15:33	12/20/16 00:03	100-41-4	
Hexachloro-1,3-butadiene	<377	ug/kg	377	113	1	12/19/16 15:33	12/20/16 00:03	87-68-3	
Isopropylbenzene (Cumene)	<143	ug/kg	143	42.8	1	12/19/16 15:33	12/20/16 00:03	98-82-8	
p-Isopropyltoluene	<66.5	ug/kg	66.5	20.0	1	12/19/16 15:33	12/20/16 00:03	99-87-6	
Methylene Chloride	<742	ug/kg	742	223	1	12/19/16 15:33	12/20/16 00:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	<265	ug/kg	265	79.6	1	12/19/16 15:33	12/20/16 00:03	108-10-1	
Methyl-tert-butyl ether	<75.0	ug/kg	75.0	22.5	1	12/19/16 15:33	12/20/16 00:03	1634-04-4	
Naphthalene	<96.9	ug/kg	96.9	29.1	1	12/19/16 15:33	12/20/16 00:03	91-20-3	
n-Propylbenzene	<119	ug/kg	119	35.8	1	12/19/16 15:33	12/20/16 00:03	103-65-1	
Styrene	<104	ug/kg	104	31.3	1	12/19/16 15:33	12/20/16 00:03	100-42-5	
1,1,1,2-Tetrachloroethane	<47.6	ug/kg	47.6	47.6	1	12/19/16 15:33	12/20/16 00:03	630-20-6	
1,1,1,2,2-Tetrachloroethane	<26.7	ug/kg	26.7	26.7	1	12/19/16 15:33	12/20/16 00:03	79-34-5	
Tetrachloroethene	<153	ug/kg	153	46.0	1	12/19/16 15:33	12/20/16 00:03	127-18-4	
Tetrahydrofuran	<1990	ug/kg	1990	597	1	12/19/16 15:33	12/20/16 00:03	109-99-9	
Toluene	<127	ug/kg	127	38.3	1	12/19/16 15:33	12/20/16 00:03	108-88-3	
1,2,3-Trichlorobenzene	<34.6	ug/kg	34.6	34.6	1	12/19/16 15:33	12/20/16 00:03	87-61-6	
1,2,4-Trichlorobenzene	<37.0	ug/kg	37.0	37.0	1	12/19/16 15:33	12/20/16 00:03	120-82-1	
1,1,1-Trichloroethane	<50.3	ug/kg	50.3	50.3	1	12/19/16 15:33	12/20/16 00:03	71-55-6	
1,1,2-Trichloroethane	<26.0	ug/kg	26.0	26.0	1	12/19/16 15:33	12/20/16 00:03	79-00-5	
Trichloroethene	<115	ug/kg	115	34.4	1	12/19/16 15:33	12/20/16 00:03	79-01-6	
Trichlorofluoromethane	<402	ug/kg	402	121	1	12/19/16 15:33	12/20/16 00:03	75-69-4	
1,2,3-Trichloropropane	<125	ug/kg	125	125	1	12/19/16 15:33	12/20/16 00:03	96-18-4	
1,1,2-Trichlorotrifluoroethane	<288	ug/kg	288	86.6	1	12/19/16 15:33	12/20/16 00:03	76-13-1	
1,2,4-Trimethylbenzene	<26.5	ug/kg	26.5	26.5	1	12/19/16 15:33	12/20/16 00:03	95-63-6	
1,3,5-Trimethylbenzene	<92.1	ug/kg	92.1	27.7	1	12/19/16 15:33	12/20/16 00:03	108-67-8	
Vinyl chloride	<51.4	ug/kg	51.4	15.4	1	12/19/16 15:33	12/20/16 00:03	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

**Sample: SB006\_14-15**      **Lab ID: 10373448008**      Collected: 12/14/16 11:00      Received: 12/15/16 17:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<320	ug/kg	320	96.2	1	12/19/16 15:33	12/20/16 00:03	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	89	%	75-129		1	12/19/16 15:33	12/20/16 00:03	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/19/16 15:33	12/20/16 00:03	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/19/16 15:33	12/20/16 00:03	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

Sample: **SB007\_1-1.5** Lab ID: **10373448009** Collected: 12/14/16 14:45 Received: 12/15/16 17:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	21.6	%	0.10	0.10	1		12/29/16 11:01		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	91.9	ug/kg	33.2	10	20	12/16/16 14:50	12/22/16 15:57	83-32-9	
Acenaphthylene	3730	ug/kg	23.1	6.9	20	12/16/16 14:50	12/22/16 15:57	208-96-8	
Anthracene	1940	ug/kg	38.6	11.6	20	12/16/16 14:50	12/22/16 15:57	120-12-7	
Benzo(a)anthracene	24500	ug/kg	399	120	200	12/16/16 14:50	12/22/16 16:19	56-55-3	
Benzo(a)pyrene	20900	ug/kg	295	88.6	200	12/16/16 14:50	12/22/16 16:19	50-32-8	
Benzo(b)fluoranthene	31100	ug/kg	487	146	200	12/16/16 14:50	12/22/16 16:19	205-99-2	
Benzo(g,h,i)perylene	12400	ug/kg	389	117	200	12/16/16 14:50	12/22/16 16:19	191-24-2	
Benzo(k)fluoranthene	12800	ug/kg	418	126	200	12/16/16 14:50	12/22/16 16:19	207-08-9	
Chrysene	23000	ug/kg	472	142	200	12/16/16 14:50	12/22/16 16:19	218-01-9	
Dibenz(a,h)anthracene	4460	ug/kg	27.8	8.3	20	12/16/16 14:50	12/22/16 15:57	53-70-3	
Fluoranthene	39200	ug/kg	666	200	200	12/16/16 14:50	12/22/16 16:19	206-44-0	
Fluorene	211	ug/kg	32.6	9.8	20	12/16/16 14:50	12/22/16 15:57	86-73-7	
Indeno(1,2,3-cd)pyrene	12600	ug/kg	637	191	200	12/16/16 14:50	12/22/16 16:19	193-39-5	
Naphthalene	402	ug/kg	30.3	9.1	20	12/16/16 14:50	12/22/16 15:57	91-20-3	
Phenanthrene	5590	ug/kg	34.2	10.3	20	12/16/16 14:50	12/22/16 15:57	85-01-8	
Pyrene	29500	ug/kg	704	212	200	12/16/16 14:50	12/22/16 16:19	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	95	%	41-125		20	12/16/16 14:50	12/22/16 15:57	321-60-8	D4
p-Terphenyl-d14 (S)	100	%	39-125		20	12/16/16 14:50	12/22/16 15:57	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1760	ug/kg	1760	529	1	12/19/16 15:33	12/20/16 00:19	67-64-1	
Allyl chloride	<230	ug/kg	230	69.2	1	12/19/16 15:33	12/20/16 00:19	107-05-1	
Benzene	27.0	ug/kg	23.2	7.0	1	12/19/16 15:33	12/20/16 00:19	71-43-2	
Bromobenzene	<68.8	ug/kg	68.8	20.6	1	12/19/16 15:33	12/20/16 00:19	108-86-1	
Bromochloromethane	<80.0	ug/kg	80.0	24.0	1	12/19/16 15:33	12/20/16 00:19	74-97-5	
Bromodichloromethane	<75.2	ug/kg	75.2	22.6	1	12/19/16 15:33	12/20/16 00:19	75-27-4	
Bromoform	<232	ug/kg	232	69.5	1	12/19/16 15:33	12/20/16 00:19	75-25-2	
Bromomethane	<272	ug/kg	272	81.8	1	12/19/16 15:33	12/20/16 00:19	74-83-9	
2-Butanone (MEK)	<355	ug/kg	355	106	1	12/19/16 15:33	12/20/16 00:19	78-93-3	
n-Butylbenzene	<65.0	ug/kg	65.0	19.5	1	12/19/16 15:33	12/20/16 00:19	104-51-8	
sec-Butylbenzene	<63.4	ug/kg	63.4	19.0	1	12/19/16 15:33	12/20/16 00:19	135-98-8	
tert-Butylbenzene	<84.9	ug/kg	84.9	25.5	1	12/19/16 15:33	12/20/16 00:19	98-06-6	
Carbon tetrachloride	<84.3	ug/kg	84.3	25.3	1	12/19/16 15:33	12/20/16 00:19	56-23-5	
Chlorobenzene	<46.7	ug/kg	46.7	14.0	1	12/19/16 15:33	12/20/16 00:19	108-90-7	
Chloroethane	<424	ug/kg	424	127	1	12/19/16 15:33	12/20/16 00:19	75-00-3	
Chloroform	<131	ug/kg	131	39.2	1	12/19/16 15:33	12/20/16 00:19	67-66-3	
Chloromethane	<130	ug/kg	130	39.0	1	12/19/16 15:33	12/20/16 00:19	74-87-3	L2
2-Chlorotoluene	<74.1	ug/kg	74.1	22.3	1	12/19/16 15:33	12/20/16 00:19	95-49-8	
4-Chlorotoluene	<70.4	ug/kg	70.4	21.1	1	12/19/16 15:33	12/20/16 00:19	106-43-4	
1,2-Dibromo-3-chloropropane	<157	ug/kg	157	157	1	12/19/16 15:33	12/20/16 00:19	96-12-8	
Dibromochloromethane	<230	ug/kg	230	69.2	1	12/19/16 15:33	12/20/16 00:19	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

Sample: **SB007\_1-1.5** Lab ID: **10373448009** Collected: 12/14/16 14:45 Received: 12/15/16 17:50 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<30.3	ug/kg	30.3	30.3	1	12/19/16 15:33	12/20/16 00:19	106-93-4	
Dibromomethane	<105	ug/kg	105	31.5	1	12/19/16 15:33	12/20/16 00:19	74-95-3	
1,2-Dichlorobenzene	<15.6	ug/kg	15.6	15.6	1	12/19/16 15:33	12/20/16 00:19	95-50-1	
1,3-Dichlorobenzene	<23.7	ug/kg	23.7	15.6	1	12/19/16 15:33	12/20/16 00:19	541-73-1	
1,4-Dichlorobenzene	<77.9	ug/kg	77.9	23.4	1	12/19/16 15:33	12/20/16 00:19	106-46-7	
Dichlorodifluoromethane	<82.2	ug/kg	82.2	24.7	1	12/19/16 15:33	12/20/16 00:19	75-71-8	L2
1,1-Dichloroethane	<31.3	ug/kg	31.3	31.3	1	12/19/16 15:33	12/20/16 00:19	75-34-3	
1,2-Dichloroethane	<25.5	ug/kg	25.5	25.5	1	12/19/16 15:33	12/20/16 00:19	107-06-2	
1,1-Dichloroethene	<20.5	ug/kg	20.5	20.5	1	12/19/16 15:33	12/20/16 00:19	75-35-4	
cis-1,2-Dichloroethene	<99.9	ug/kg	99.9	30.0	1	12/19/16 15:33	12/20/16 00:19	156-59-2	
trans-1,2-Dichloroethene	<129	ug/kg	129	38.9	1	12/19/16 15:33	12/20/16 00:19	156-60-5	
Dichlorofluoromethane	<736	ug/kg	736	221	1	12/19/16 15:33	12/20/16 00:19	75-43-4	
1,2-Dichloropropane	<27.9	ug/kg	27.9	27.9	1	12/19/16 15:33	12/20/16 00:19	78-87-5	
1,3-Dichloropropane	<96.2	ug/kg	96.2	28.9	1	12/19/16 15:33	12/20/16 00:19	142-28-9	
2,2-Dichloropropane	<85.4	ug/kg	85.4	25.6	1	12/19/16 15:33	12/20/16 00:19	594-20-7	
1,1-Dichloropropene	<24.4	ug/kg	24.4	24.4	1	12/19/16 15:33	12/20/16 00:19	563-58-6	
cis-1,3-Dichloropropene	<122	ug/kg	122	36.8	1	12/19/16 15:33	12/20/16 00:19	10061-01-5	
trans-1,3-Dichloropropene	<91.3	ug/kg	91.3	27.4	1	12/19/16 15:33	12/20/16 00:19	10061-02-6	
Diethyl ether (Ethyl ether)	<111	ug/kg	111	33.2	1	12/19/16 15:33	12/20/16 00:19	60-29-7	
Ethylbenzene	<85.4	ug/kg	85.4	25.6	1	12/19/16 15:33	12/20/16 00:19	100-41-4	
Hexachloro-1,3-butadiene	<252	ug/kg	252	75.8	1	12/19/16 15:33	12/20/16 00:19	87-68-3	
Isopropylbenzene (Cumene)	<95.6	ug/kg	95.6	28.7	1	12/19/16 15:33	12/20/16 00:19	98-82-8	
p-Isopropyltoluene	<44.6	ug/kg	44.6	13.4	1	12/19/16 15:33	12/20/16 00:19	99-87-6	
Methylene Chloride	<497	ug/kg	497	149	1	12/19/16 15:33	12/20/16 00:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	<178	ug/kg	178	53.4	1	12/19/16 15:33	12/20/16 00:19	108-10-1	
Methyl-tert-butyl ether	<50.3	ug/kg	50.3	15.1	1	12/19/16 15:33	12/20/16 00:19	1634-04-4	
Naphthalene	209	ug/kg	65.0	19.5	1	12/19/16 15:33	12/20/16 00:19	91-20-3	
n-Propylbenzene	<80.0	ug/kg	80.0	24.0	1	12/19/16 15:33	12/20/16 00:19	103-65-1	
Styrene	<69.8	ug/kg	69.8	21.0	1	12/19/16 15:33	12/20/16 00:19	100-42-5	
1,1,1,2-Tetrachloroethane	<31.9	ug/kg	31.9	31.9	1	12/19/16 15:33	12/20/16 00:19	630-20-6	
1,1,1,2,2-Tetrachloroethane	<17.9	ug/kg	17.9	17.9	1	12/19/16 15:33	12/20/16 00:19	79-34-5	
Tetrachloroethene	<103	ug/kg	103	30.8	1	12/19/16 15:33	12/20/16 00:19	127-18-4	
Tetrahydrofuran	<1330	ug/kg	1330	400	1	12/19/16 15:33	12/20/16 00:19	109-99-9	
Toluene	<85.4	ug/kg	85.4	25.6	1	12/19/16 15:33	12/20/16 00:19	108-88-3	
1,2,3-Trichlorobenzene	<23.2	ug/kg	23.2	23.2	1	12/19/16 15:33	12/20/16 00:19	87-61-6	
1,2,4-Trichlorobenzene	<24.8	ug/kg	24.8	24.8	1	12/19/16 15:33	12/20/16 00:19	120-82-1	
1,1,1-Trichloroethane	<33.7	ug/kg	33.7	33.7	1	12/19/16 15:33	12/20/16 00:19	71-55-6	
1,1,2-Trichloroethane	<17.4	ug/kg	17.4	17.4	1	12/19/16 15:33	12/20/16 00:19	79-00-5	
Trichloroethene	<76.8	ug/kg	76.8	23.1	1	12/19/16 15:33	12/20/16 00:19	79-01-6	
Trichlorofluoromethane	<270	ug/kg	270	81.0	1	12/19/16 15:33	12/20/16 00:19	75-69-4	
1,2,3-Trichloropropane	<83.6	ug/kg	83.6	83.6	1	12/19/16 15:33	12/20/16 00:19	96-18-4	
1,1,2-Trichlorotrifluoroethane	<193	ug/kg	193	58.1	1	12/19/16 15:33	12/20/16 00:19	76-13-1	
1,2,4-Trimethylbenzene	59.5	ug/kg	17.7	17.7	1	12/19/16 15:33	12/20/16 00:19	95-63-6	
1,3,5-Trimethylbenzene	<61.8	ug/kg	61.8	18.6	1	12/19/16 15:33	12/20/16 00:19	108-67-8	
Vinyl chloride	<34.5	ug/kg	34.5	10.4	1	12/19/16 15:33	12/20/16 00:19	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

**Sample: SB007\_1-1.5**      **Lab ID: 10373448009**      Collected: 12/14/16 14:45      Received: 12/15/16 17:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<215	ug/kg	215	64.5	1	12/19/16 15:33	12/20/16 00:19	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	91	%	75-129		1	12/19/16 15:33	12/20/16 00:19	17060-07-0	
Toluene-d8 (S)	96	%	75-125		1	12/19/16 15:33	12/20/16 00:19	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/19/16 15:33	12/20/16 00:19	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

**Sample: SB007\_7-8**      **Lab ID: 10373448010**      Collected: 12/14/16 14:50      Received: 12/15/16 17:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	24.5	%	0.10	0.10	1		12/29/16 11:02		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.52	1	12/16/16 14:50	12/22/16 15:14	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.36	1	12/16/16 14:50	12/22/16 15:14	208-96-8	
Anthracene	<2.0	ug/kg	2.0	0.60	1	12/16/16 14:50	12/22/16 15:14	120-12-7	
Benzo(a)anthracene	14.1	ug/kg	2.1	0.62	1	12/16/16 14:50	12/22/16 15:14	56-55-3	
Benzo(a)pyrene	13.8	ug/kg	1.5	0.46	1	12/16/16 14:50	12/22/16 15:14	50-32-8	
Benzo(b)fluoranthene	19.1	ug/kg	2.5	0.76	1	12/16/16 14:50	12/22/16 15:14	205-99-2	
Benzo(g,h,i)perylene	7.9	ug/kg	2.0	0.61	1	12/16/16 14:50	12/22/16 15:14	191-24-2	
Benzo(k)fluoranthene	9.2	ug/kg	2.2	0.65	1	12/16/16 14:50	12/22/16 15:14	207-08-9	
Chrysene	16.1	ug/kg	2.4	0.74	1	12/16/16 14:50	12/22/16 15:14	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.43	1	12/16/16 14:50	12/22/16 15:14	53-70-3	
Fluoranthene	26.7	ug/kg	3.5	1.0	1	12/16/16 14:50	12/22/16 15:14	206-44-0	
Fluorene	<1.7	ug/kg	1.7	0.51	1	12/16/16 14:50	12/22/16 15:14	86-73-7	
Indeno(1,2,3-cd)pyrene	8.0	ug/kg	3.3	0.99	1	12/16/16 14:50	12/22/16 15:14	193-39-5	
Naphthalene	<1.6	ug/kg	1.6	0.47	1	12/16/16 14:50	12/22/16 15:14	91-20-3	
Phenanthrene	<1.8	ug/kg	1.8	0.53	1	12/16/16 14:50	12/22/16 15:14	85-01-8	
Pyrene	20.1	ug/kg	3.7	1.1	1	12/16/16 14:50	12/22/16 15:14	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	92	%	41-125		1	12/16/16 14:50	12/22/16 15:14	321-60-8	
p-Terphenyl-d14 (S)	84	%	39-125		1	12/16/16 14:50	12/22/16 15:14	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1460	ug/kg	1460	438	1	12/19/16 15:33	12/20/16 00:35	67-64-1	
Allyl chloride	<191	ug/kg	191	57.2	1	12/19/16 15:33	12/20/16 00:35	107-05-1	
Benzene	<19.2	ug/kg	19.2	5.8	1	12/19/16 15:33	12/20/16 00:35	71-43-2	
Bromobenzene	<56.9	ug/kg	56.9	17.1	1	12/19/16 15:33	12/20/16 00:35	108-86-1	
Bromochloromethane	<66.2	ug/kg	66.2	19.9	1	12/19/16 15:33	12/20/16 00:35	74-97-5	
Bromodichloromethane	<62.2	ug/kg	62.2	18.7	1	12/19/16 15:33	12/20/16 00:35	75-27-4	
Bromoform	<191	ug/kg	191	57.5	1	12/19/16 15:33	12/20/16 00:35	75-25-2	
Bromomethane	<225	ug/kg	225	67.6	1	12/19/16 15:33	12/20/16 00:35	74-83-9	
2-Butanone (MEK)	<293	ug/kg	293	88.1	1	12/19/16 15:33	12/20/16 00:35	78-93-3	
n-Butylbenzene	<53.8	ug/kg	53.8	16.1	1	12/19/16 15:33	12/20/16 00:35	104-51-8	
sec-Butylbenzene	<52.4	ug/kg	52.4	15.7	1	12/19/16 15:33	12/20/16 00:35	135-98-8	
tert-Butylbenzene	<70.2	ug/kg	70.2	21.1	1	12/19/16 15:33	12/20/16 00:35	98-06-6	
Carbon tetrachloride	<69.8	ug/kg	69.8	20.9	1	12/19/16 15:33	12/20/16 00:35	56-23-5	
Chlorobenzene	<38.7	ug/kg	38.7	11.6	1	12/19/16 15:33	12/20/16 00:35	108-90-7	
Chloroethane	<351	ug/kg	351	105	1	12/19/16 15:33	12/20/16 00:35	75-00-3	
Chloroform	<108	ug/kg	108	32.4	1	12/19/16 15:33	12/20/16 00:35	67-66-3	
Chloromethane	<108	ug/kg	108	32.3	1	12/19/16 15:33	12/20/16 00:35	74-87-3	L2
2-Chlorotoluene	<61.3	ug/kg	61.3	18.4	1	12/19/16 15:33	12/20/16 00:35	95-49-8	
4-Chlorotoluene	<58.2	ug/kg	58.2	17.5	1	12/19/16 15:33	12/20/16 00:35	106-43-4	
1,2-Dibromo-3-chloropropane	<130	ug/kg	130	130	1	12/19/16 15:33	12/20/16 00:35	96-12-8	
Dibromochloromethane	<191	ug/kg	191	57.2	1	12/19/16 15:33	12/20/16 00:35	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

**Sample: SB007\_7-8**      **Lab ID: 10373448010**      Collected: 12/14/16 14:50      Received: 12/15/16 17:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<25.1	ug/kg	25.1	25.1	1	12/19/16 15:33	12/20/16 00:35	106-93-4	
Dibromomethane	<86.6	ug/kg	86.6	26.0	1	12/19/16 15:33	12/20/16 00:35	74-95-3	
1,2-Dichlorobenzene	<12.9	ug/kg	12.9	12.9	1	12/19/16 15:33	12/20/16 00:35	95-50-1	
1,3-Dichlorobenzene	<19.6	ug/kg	19.6	12.9	1	12/19/16 15:33	12/20/16 00:35	541-73-1	
1,4-Dichlorobenzene	<64.4	ug/kg	64.4	19.3	1	12/19/16 15:33	12/20/16 00:35	106-46-7	
Dichlorodifluoromethane	<68.0	ug/kg	68.0	20.4	1	12/19/16 15:33	12/20/16 00:35	75-71-8	L2
1,1-Dichloroethane	<25.9	ug/kg	25.9	25.9	1	12/19/16 15:33	12/20/16 00:35	75-34-3	
1,2-Dichloroethane	<21.1	ug/kg	21.1	21.1	1	12/19/16 15:33	12/20/16 00:35	107-06-2	
1,1-Dichloroethene	<16.9	ug/kg	16.9	16.9	1	12/19/16 15:33	12/20/16 00:35	75-35-4	
cis-1,2-Dichloroethene	<82.6	ug/kg	82.6	24.8	1	12/19/16 15:33	12/20/16 00:35	156-59-2	
trans-1,2-Dichloroethene	<107	ug/kg	107	32.2	1	12/19/16 15:33	12/20/16 00:35	156-60-5	
Dichlorofluoromethane	<609	ug/kg	609	183	1	12/19/16 15:33	12/20/16 00:35	75-43-4	
1,2-Dichloropropane	<23.1	ug/kg	23.1	23.1	1	12/19/16 15:33	12/20/16 00:35	78-87-5	
1,3-Dichloropropane	<79.5	ug/kg	79.5	23.9	1	12/19/16 15:33	12/20/16 00:35	142-28-9	
2,2-Dichloropropane	<70.6	ug/kg	70.6	21.2	1	12/19/16 15:33	12/20/16 00:35	594-20-7	
1,1-Dichloropropene	<20.1	ug/kg	20.1	20.1	1	12/19/16 15:33	12/20/16 00:35	563-58-6	
cis-1,3-Dichloropropene	<101	ug/kg	101	30.4	1	12/19/16 15:33	12/20/16 00:35	10061-01-5	
trans-1,3-Dichloropropene	<75.5	ug/kg	75.5	22.7	1	12/19/16 15:33	12/20/16 00:35	10061-02-6	
Diethyl ether (Ethyl ether)	<91.5	ug/kg	91.5	27.5	1	12/19/16 15:33	12/20/16 00:35	60-29-7	
Ethylbenzene	<70.6	ug/kg	70.6	21.2	1	12/19/16 15:33	12/20/16 00:35	100-41-4	
Hexachloro-1,3-butadiene	<209	ug/kg	209	62.7	1	12/19/16 15:33	12/20/16 00:35	87-68-3	
Isopropylbenzene (Cumene)	<79.1	ug/kg	79.1	23.7	1	12/19/16 15:33	12/20/16 00:35	98-82-8	
p-Isopropyltoluene	<36.9	ug/kg	36.9	11.1	1	12/19/16 15:33	12/20/16 00:35	99-87-6	
Methylene Chloride	<411	ug/kg	411	124	1	12/19/16 15:33	12/20/16 00:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	<147	ug/kg	147	44.2	1	12/19/16 15:33	12/20/16 00:35	108-10-1	
Methyl-tert-butyl ether	<41.6	ug/kg	41.6	12.5	1	12/19/16 15:33	12/20/16 00:35	1634-04-4	
Naphthalene	<53.8	ug/kg	53.8	16.1	1	12/19/16 15:33	12/20/16 00:35	91-20-3	
n-Propylbenzene	<66.2	ug/kg	66.2	19.9	1	12/19/16 15:33	12/20/16 00:35	103-65-1	
Styrene	<57.8	ug/kg	57.8	17.3	1	12/19/16 15:33	12/20/16 00:35	100-42-5	
1,1,1,2-Tetrachloroethane	<26.4	ug/kg	26.4	26.4	1	12/19/16 15:33	12/20/16 00:35	630-20-6	
1,1,1,2,2-Tetrachloroethane	<14.8	ug/kg	14.8	14.8	1	12/19/16 15:33	12/20/16 00:35	79-34-5	
Tetrachloroethene	<84.9	ug/kg	84.9	25.5	1	12/19/16 15:33	12/20/16 00:35	127-18-4	
Tetrahydrofuran	<1100	ug/kg	1100	331	1	12/19/16 15:33	12/20/16 00:35	109-99-9	
Toluene	<70.6	ug/kg	70.6	21.2	1	12/19/16 15:33	12/20/16 00:35	108-88-3	
1,2,3-Trichlorobenzene	<19.2	ug/kg	19.2	19.2	1	12/19/16 15:33	12/20/16 00:35	87-61-6	
1,2,4-Trichlorobenzene	<20.5	ug/kg	20.5	20.5	1	12/19/16 15:33	12/20/16 00:35	120-82-1	
1,1,1-Trichloroethane	<27.9	ug/kg	27.9	27.9	1	12/19/16 15:33	12/20/16 00:35	71-55-6	
1,1,2-Trichloroethane	<14.4	ug/kg	14.4	14.4	1	12/19/16 15:33	12/20/16 00:35	79-00-5	
Trichloroethene	<63.5	ug/kg	63.5	19.1	1	12/19/16 15:33	12/20/16 00:35	79-01-6	
Trichlorofluoromethane	<223	ug/kg	223	67.0	1	12/19/16 15:33	12/20/16 00:35	75-69-4	
1,2,3-Trichloropropane	<69.1	ug/kg	69.1	69.1	1	12/19/16 15:33	12/20/16 00:35	96-18-4	
1,1,2-Trichlorotrifluoroethane	<160	ug/kg	160	48.0	1	12/19/16 15:33	12/20/16 00:35	76-13-1	
1,2,4-Trimethylbenzene	<14.7	ug/kg	14.7	14.7	1	12/19/16 15:33	12/20/16 00:35	95-63-6	
1,3,5-Trimethylbenzene	<51.1	ug/kg	51.1	15.3	1	12/19/16 15:33	12/20/16 00:35	108-67-8	
Vinyl chloride	<28.5	ug/kg	28.5	8.6	1	12/19/16 15:33	12/20/16 00:35	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

**Sample: SB007\_7-8**      **Lab ID: 10373448010**      Collected: 12/14/16 14:50      Received: 12/15/16 17:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<178	ug/kg	178	53.4	1	12/19/16 15:33	12/20/16 00:35	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	89	%	75-129		1	12/19/16 15:33	12/20/16 00:35	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/19/16 15:33	12/20/16 00:35	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/19/16 15:33	12/20/16 00:35	460-00-4	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_REV  
Pace Project No.: 10373448

QC Batch: 452346 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10373448001, 10373448002, 10373448003

METHOD BLANK: 2476430 Matrix: Solid  
Associated Lab Samples: 10373448001, 10373448002, 10373448003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/20/16 11:27	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/20/16 11:27	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/20/16 11:27	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/20/16 11:27	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/20/16 11:27	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/20/16 11:27	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/20/16 11:27	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/20/16 11:27	
1,2,3-Trichlorobenzene	ug/kg	<14.4	14.4	12/20/16 11:27	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/20/16 11:27	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/20/16 11:27	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/20/16 11:27	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/20/16 11:27	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/20/16 11:27	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/20/16 11:27	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/20/16 11:27	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/20/16 11:27	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/20/16 11:27	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/20/16 11:27	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/20/16 11:27	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/20/16 11:27	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/20/16 11:27	
2-Butanone (MEK)	ug/kg	<220	220	12/20/16 11:27	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/20/16 11:27	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/20/16 11:27	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/20/16 11:27	
Acetone	ug/kg	<1090	1090	12/20/16 11:27	
Allyl chloride	ug/kg	<143	143	12/20/16 11:27	
Benzene	ug/kg	<14.4	14.4	12/20/16 11:27	
Bromobenzene	ug/kg	<42.6	42.6	12/20/16 11:27	
Bromochloromethane	ug/kg	<49.6	49.6	12/20/16 11:27	
Bromodichloromethane	ug/kg	<46.6	46.6	12/20/16 11:27	
Bromoform	ug/kg	<144	144	12/20/16 11:27	
Bromomethane	ug/kg	<169	169	12/20/16 11:27	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/20/16 11:27	
Chlorobenzene	ug/kg	<29.0	29.0	12/20/16 11:27	
Chloroethane	ug/kg	<263	263	12/20/16 11:27	
Chloroform	ug/kg	<80.9	80.9	12/20/16 11:27	
Chloromethane	ug/kg	<80.6	80.6	12/20/16 11:27	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/20/16 11:27	
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/20/16 11:27	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

METHOD BLANK: 2476430

Matrix: Solid

Associated Lab Samples: 10373448001, 10373448002, 10373448003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<143	143	12/20/16 11:27	
Dibromomethane	ug/kg	<64.9	64.9	12/20/16 11:27	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/20/16 11:27	
Dichlorofluoromethane	ug/kg	<456	456	12/20/16 11:27	
Diethyl ether (Ethyl ether)	ug/kg	141	68.6	12/20/16 11:27	
Ethylbenzene	ug/kg	<52.9	52.9	12/20/16 11:27	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/20/16 11:27	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/20/16 11:27	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/20/16 11:27	
Methylene Chloride	ug/kg	<308	308	12/20/16 11:27	
n-Butylbenzene	ug/kg	<40.3	40.3	12/20/16 11:27	
n-Propylbenzene	ug/kg	<49.6	49.6	12/20/16 11:27	
Naphthalene	ug/kg	<40.3	40.3	12/20/16 11:27	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/20/16 11:27	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/20/16 11:27	
Styrene	ug/kg	<43.3	43.3	12/20/16 11:27	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/20/16 11:27	
Tetrachloroethene	ug/kg	<63.6	63.6	12/20/16 11:27	
Tetrahydrofuran	ug/kg	<826	826	12/20/16 11:27	
Toluene	ug/kg	<52.9	52.9	12/20/16 11:27	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/20/16 11:27	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/20/16 11:27	
Trichloroethene	ug/kg	<47.6	47.6	12/20/16 11:27	
Trichlorofluoromethane	ug/kg	<167	167	12/20/16 11:27	
Vinyl chloride	ug/kg	<21.4	21.4	12/20/16 11:27	
Xylene (Total)	ug/kg	<133	133	12/20/16 11:27	
1,2-Dichloroethane-d4 (S)	%	109	75-129	12/20/16 11:27	
4-Bromofluorobenzene (S)	%	100	75-125	12/20/16 11:27	
Toluene-d8 (S)	%	101	75-125	12/20/16 11:27	

LABORATORY CONTROL SAMPLE: 2476431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	1020	102	71-127	
1,1,1-Trichloroethane	ug/kg	1000	1060	106	64-132	
1,1,2,2-Tetrachloroethane	ug/kg	1000	1060	106	50-138	
1,1,2-Trichloroethane	ug/kg	1000	1060	106	69-126	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	994	99	53-144	
1,1-Dichloroethane	ug/kg	1000	1050	105	61-134	
1,1-Dichloroethene	ug/kg	1000	1020	102	57-135	
1,1-Dichloropropene	ug/kg	1000	1120	112	59-133	
1,2,3-Trichlorobenzene	ug/kg	1000	970	97	32-150	
1,2,3-Trichloropropane	ug/kg	1000	1100	110	62-130	
1,2,4-Trichlorobenzene	ug/kg	1000	972	97	38-138	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

LABORATORY CONTROL SAMPLE: 2476431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1020	102	70-127	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2510	100	40-141	
1,2-Dibromoethane (EDB)	ug/kg	1000	1010	101	69-130	
1,2-Dichlorobenzene	ug/kg	1000	1030	103	72-125	
1,2-Dichloroethane	ug/kg	1000	1070	107	62-125	
1,2-Dichloropropane	ug/kg	1000	1090	109	67-126	
1,3,5-Trimethylbenzene	ug/kg	1000	1020	102	71-129	
1,3-Dichlorobenzene	ug/kg	1000	1020	102	72-126	
1,3-Dichloropropane	ug/kg	1000	1050	105	70-125	
1,4-Dichlorobenzene	ug/kg	1000	1000	100	70-126	
2,2-Dichloropropane	ug/kg	1000	1020	102	48-134	
2-Butanone (MEK)	ug/kg	5000	6090	122	38-149	
2-Chlorotoluene	ug/kg	1000	1020	102	71-129	
4-Chlorotoluene	ug/kg	1000	1040	104	72-128	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	6590	132	52-145	
Acetone	ug/kg	5000	5010	100	65-142	
Allyl chloride	ug/kg	1000	1080	108	54-125	
Benzene	ug/kg	1000	1050	105	64-125	
Bromobenzene	ug/kg	1000	1040	104	70-125	
Bromochloromethane	ug/kg	1000	1100	110	68-125	
Bromodichloromethane	ug/kg	1000	1070	107	67-125	
Bromoform	ug/kg	1000	881	88	56-127	
Bromomethane	ug/kg	1000	801	80	34-137	
Carbon tetrachloride	ug/kg	1000	993	99	58-138	
Chlorobenzene	ug/kg	1000	1020	102	72-125	
Chloroethane	ug/kg	1000	1290	129	39-148	
Chloroform	ug/kg	1000	1030	103	67-125	
Chloromethane	ug/kg	1000	934	93	54-125	
cis-1,2-Dichloroethene	ug/kg	1000	1040	104	67-125	
cis-1,3-Dichloropropene	ug/kg	1000	1070	107	62-127	
Dibromochloromethane	ug/kg	1000	1070	107	67-125	
Dibromomethane	ug/kg	1000	1010	101	63-129	
Dichlorodifluoromethane	ug/kg	1000	693	69	34-139	
Dichlorofluoromethane	ug/kg	1000	1280	128	36-144	
Diethyl ether (Ethyl ether)	ug/kg	1000	1160	116	51-125	
Ethylbenzene	ug/kg	1000	1080	108	70-129	
Hexachloro-1,3-butadiene	ug/kg	1000	981	98	48-126	
Isopropylbenzene (Cumene)	ug/kg	1000	1070	107	75-127	
Methyl-tert-butyl ether	ug/kg	1000	1030	103	61-125	
Methylene Chloride	ug/kg	1000	1000	100	60-126	
n-Butylbenzene	ug/kg	1000	1020	102	67-125	
n-Propylbenzene	ug/kg	1000	1080	108	72-133	
Naphthalene	ug/kg	1000	1040	104	35-147	
p-Isopropyltoluene	ug/kg	1000	997	100	69-127	
sec-Butylbenzene	ug/kg	1000	1060	106	70-127	
Styrene	ug/kg	1000	1040	104	73-125	
tert-Butylbenzene	ug/kg	1000	1000	100	71-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

LABORATORY CONTROL SAMPLE: 2476431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethane	ug/kg	1000	1010	101	66-135	
Tetrahydrofuran	ug/kg	10000	8600	86	66-145	
Toluene	ug/kg	1000	1050	105	69-125	
trans-1,2-Dichloroethene	ug/kg	1000	1060	106	55-135	
trans-1,3-Dichloropropene	ug/kg	1000	1050	105	67-125	
Trichloroethene	ug/kg	1000	1040	104	62-141	
Trichlorofluoromethane	ug/kg	1000	1100	110	38-150	
Vinyl chloride	ug/kg	1000	1010	101	57-131	
Xylene (Total)	ug/kg	3000	3100	103	73-128	
1,2-Dichloroethane-d4 (S)	%			106	75-129	
4-Bromofluorobenzene (S)	%			97	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2476432 2476433

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10373583004 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	ug/kg	ND	1090	1050	1160	1150	106	110	59-135	0	30
1,1,1-Trichloroethane	ug/kg	ND	1090	1050	1180	1210	108	115	51-137	2	30
1,1,1,2,2-Tetrachloroethane	ug/kg	ND	1090	1050	1240	1120	113	106	40-149	10	30
1,1,2-Trichloroethane	ug/kg	ND	1090	1050	1200	1230	110	117	54-144	2	30
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1090	1050	1030	1040	94	99	41-150	1	30
1,1-Dichloroethane	ug/kg	ND	1090	1050	1130	1150	103	109	53-131	2	30
1,1-Dichloroethene	ug/kg	ND	1090	1050	1070	1080	97	103	41-133	2	30
1,1-Dichloropropene	ug/kg	ND	1090	1050	1250	1240	114	118	50-139	1	30
1,2,3-Trichlorobenzene	ug/kg	ND	1090	1050	1150	1150	105	110	52-150	0	30
1,2,3-Trichloropropane	ug/kg	ND	1090	1050	1250	1220	114	116	61-137	3	30
1,2,4-Trichlorobenzene	ug/kg	ND	1090	1050	1100	1110	100	106	52-142	1	30
1,2,4-Trimethylbenzene	ug/kg	ND	1090	1050	1190	1190	109	113	56-142	0	30
1,2-Dibromo-3-chloropropane	ug/kg	ND	2750	2630	2900	2840	106	108	47-143	2	30
1,2-Dibromoethane (EDB)	ug/kg	ND	1090	1050	1100	1120	100	107	57-136	2	30
1,2-Dichlorobenzene	ug/kg	ND	1090	1050	1190	1200	108	114	59-136	1	30
1,2-Dichloroethane	ug/kg	ND	1090	1050	1150	1180	105	112	52-133	2	30
1,2-Dichloropropane	ug/kg	ND	1090	1050	1210	1220	110	116	62-129	1	30
1,3,5-Trimethylbenzene	ug/kg	ND	1090	1050	1170	1190	107	114	54-143	2	30
1,3-Dichlorobenzene	ug/kg	ND	1090	1050	1130	1160	103	111	60-137	3	30
1,3-Dichloropropane	ug/kg	ND	1090	1050	1180	1160	107	110	57-138	2	30
1,4-Dichlorobenzene	ug/kg	ND	1090	1050	1140	1130	104	108	51-132	1	30
2,2-Dichloropropane	ug/kg	ND	1090	1050	1140	1160	104	110	50-134	2	30
2-Butanone (MEK)	ug/kg	ND	5480	5250	6640	6760	121	129	46-125	2	30 M1
2-Chlorotoluene	ug/kg	ND	1090	1050	1170	1190	106	113	60-141	2	30
4-Chlorotoluene	ug/kg	ND	1090	1050	1180	1190	107	114	65-135	1	30
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5480	5250	7500	7490	137	142	47-146	0	30
Acetone	ug/kg	ND	5480	5250	5280	5440	96	103	45-148	3	30

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

Parameter	Units	10373583004		2476432		2476433		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Allyl chloride	ug/kg	ND	1090	1050	1170	1210	107	115	50-135	3	30		
Benzene	ug/kg	ND	1090	1050	1150	1190	105	113	41-134	3	30		
Bromobenzene	ug/kg	ND	1090	1050	1150	1160	105	110	59-134	1	30		
Bromochloromethane	ug/kg	ND	1090	1050	1180	1220	108	116	56-127	3	30		
Bromodichloromethane	ug/kg	ND	1090	1050	1180	1220	108	116	55-136	3	30		
Bromoform	ug/kg	ND	1090	1050	1020	1040	93	98	51-139	1	30		
Bromomethane	ug/kg	ND	1090	1050	823	806	73	75	35-148	2	30		
Carbon tetrachloride	ug/kg	ND	1090	1050	1110	1120	101	106	50-140	1	30		
Chlorobenzene	ug/kg	ND	1090	1050	1140	1180	104	112	59-133	3	30		
Chloroethane	ug/kg	ND	1090	1050	1260	1240	115	118	30-150	1	30		
Chloroform	ug/kg	ND	1090	1050	1150	1150	105	109	58-128	1	30		
Chloromethane	ug/kg	ND	1090	1050	826	756	75	72	38-125	9	30		
cis-1,2-Dichloroethene	ug/kg	ND	1090	1050	1110	1120	101	106	59-125	1	30		
cis-1,3-Dichloropropene	ug/kg	ND	1090	1050	1180	1190	108	113	57-133	1	30		
Dibromochloromethane	ug/kg	ND	1090	1050	1200	1210	109	115	54-141	1	30		
Dibromomethane	ug/kg	ND	1090	1050	1100	1110	100	105	53-134	1	30		
Dichlorodifluoromethane	ug/kg	ND	1090	1050	441	344	40	33	30-125	25	30		
Dichlorofluoromethane	ug/kg	ND	1090	1050	1390	1400	127	134	30-150	1	30		
Diethyl ether (Ethyl ether)	ug/kg	ND	1090	1050	1140	1140	102	106	46-137	0	30		
Ethylbenzene	ug/kg	ND	1090	1050	1210	1220	110	116	56-141	1	30		
Hexachloro-1,3-butadiene	ug/kg	ND	1090	1050	1300	1200	119	114	45-150	8	30		
Isopropylbenzene (Cumene)	ug/kg	ND	1090	1050	1200	1210	110	115	48-141	1	30		
Methyl-tert-butyl ether	ug/kg	ND	1090	1050	1150	1190	105	113	53-133	3	30		
Methylene Chloride	ug/kg	ND	1090	1050	1100	1130	96	103	42-135	3	30		
n-Butylbenzene	ug/kg	ND	1090	1050	1200	1190	109	113	52-140	0	30		
n-Propylbenzene	ug/kg	ND	1090	1050	1230	1240	113	118	57-142	1	30		
Naphthalene	ug/kg	ND	1090	1050	1260	1250	115	119	41-150	1	30		
p-Isopropyltoluene	ug/kg	ND	1090	1050	1170	1170	107	111	54-139	0	30		
sec-Butylbenzene	ug/kg	ND	1090	1050	1230	1250	113	119	30-150	1	30		
Styrene	ug/kg	ND	1090	1050	1150	1160	104	110	53-137	1	30		
tert-Butylbenzene	ug/kg	ND	1090	1050	1190	1190	108	113	59-138	0	30		
Tetrachloroethene	ug/kg	ND	1090	1050	1150	1170	105	112	53-138	2	30		
Tetrahydrofuran	ug/kg	ND	10900	10500	9560	9610	87	91	50-145	0	30		
Toluene	ug/kg	ND	1090	1050	1190	1180	108	112	55-134	1	30		
trans-1,2-Dichloroethene	ug/kg	ND	1090	1050	1120	1140	102	109	44-135	2	30		
trans-1,3-Dichloropropene	ug/kg	ND	1090	1050	1200	1200	109	114	59-139	0	30		
Trichloroethene	ug/kg	ND	1090	1050	1150	1230	104	117	52-143	7	30		
Trichlorofluoromethane	ug/kg	ND	1090	1050	1130	1090	103	103	30-150	4	30		
Vinyl chloride	ug/kg	ND	1090	1050	927	861	85	82	36-127	7	30		
Xylene (Total)	ug/kg	ND	3290	3160	3590	3540	109	112	56-137	1	30		
1,2-Dichloroethane-d4 (S)	%						104	105	75-129				
4-Bromofluorobenzene (S)	%						99	99	75-125				
Toluene-d8 (S)	%						102	102	75-125				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_REV  
Pace Project No.: 10373448

QC Batch: 452350 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10373448004, 10373448005, 10373448006, 10373448007, 10373448008, 10373448009, 10373448010

METHOD BLANK: 2476449 Matrix: Solid  
Associated Lab Samples: 10373448004, 10373448005, 10373448006, 10373448007, 10373448008, 10373448009, 10373448010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/19/16 20:34	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/19/16 20:34	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/19/16 20:34	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/19/16 20:34	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/19/16 20:34	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/19/16 20:34	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/19/16 20:34	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/19/16 20:34	
1,2,3-Trichlorobenzene	ug/kg	<14.4	14.4	12/19/16 20:34	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/19/16 20:34	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/19/16 20:34	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/19/16 20:34	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/19/16 20:34	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/19/16 20:34	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/19/16 20:34	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/19/16 20:34	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/19/16 20:34	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/19/16 20:34	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/19/16 20:34	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/19/16 20:34	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/19/16 20:34	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/19/16 20:34	
2-Butanone (MEK)	ug/kg	<220	220	12/19/16 20:34	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/19/16 20:34	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/19/16 20:34	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/19/16 20:34	
Acetone	ug/kg	<1090	1090	12/19/16 20:34	
Allyl chloride	ug/kg	<143	143	12/19/16 20:34	
Benzene	ug/kg	<14.4	14.4	12/19/16 20:34	
Bromobenzene	ug/kg	<42.6	42.6	12/19/16 20:34	
Bromochloromethane	ug/kg	<49.6	49.6	12/19/16 20:34	
Bromodichloromethane	ug/kg	<46.6	46.6	12/19/16 20:34	
Bromoform	ug/kg	<144	144	12/19/16 20:34	
Bromomethane	ug/kg	<169	169	12/19/16 20:34	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/19/16 20:34	
Chlorobenzene	ug/kg	<29.0	29.0	12/19/16 20:34	
Chloroethane	ug/kg	<263	263	12/19/16 20:34	
Chloroform	ug/kg	<80.9	80.9	12/19/16 20:34	
Chloromethane	ug/kg	<80.6	80.6	12/19/16 20:34	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/19/16 20:34	
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/19/16 20:34	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

METHOD BLANK: 2476449

Matrix: Solid

Associated Lab Samples: 10373448004, 10373448005, 10373448006, 10373448007, 10373448008, 10373448009, 10373448010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<143	143	12/19/16 20:34	
Dibromomethane	ug/kg	<64.9	64.9	12/19/16 20:34	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/19/16 20:34	
Dichlorofluoromethane	ug/kg	<456	456	12/19/16 20:34	
Diethyl ether (Ethyl ether)	ug/kg	<68.6	68.6	12/19/16 20:34	
Ethylbenzene	ug/kg	<52.9	52.9	12/19/16 20:34	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/19/16 20:34	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/19/16 20:34	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/19/16 20:34	
Methylene Chloride	ug/kg	<308	308	12/19/16 20:34	
n-Butylbenzene	ug/kg	<40.3	40.3	12/19/16 20:34	
n-Propylbenzene	ug/kg	<49.6	49.6	12/19/16 20:34	
Naphthalene	ug/kg	<40.3	40.3	12/19/16 20:34	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/19/16 20:34	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/19/16 20:34	
Styrene	ug/kg	<43.3	43.3	12/19/16 20:34	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/19/16 20:34	
Tetrachloroethene	ug/kg	<63.6	63.6	12/19/16 20:34	
Tetrahydrofuran	ug/kg	<826	826	12/19/16 20:34	
Toluene	ug/kg	<52.9	52.9	12/19/16 20:34	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/19/16 20:34	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/19/16 20:34	
Trichloroethene	ug/kg	<47.6	47.6	12/19/16 20:34	
Trichlorofluoromethane	ug/kg	<167	167	12/19/16 20:34	
Vinyl chloride	ug/kg	<21.4	21.4	12/19/16 20:34	
Xylene (Total)	ug/kg	<133	133	12/19/16 20:34	
1,2-Dichloroethane-d4 (S)	%	90	75-129	12/19/16 20:34	
4-Bromofluorobenzene (S)	%	102	75-125	12/19/16 20:34	
Toluene-d8 (S)	%	101	75-125	12/19/16 20:34	

LABORATORY CONTROL SAMPLE & LCSD: 2476450

2476451

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	810	815	81	81	71-127	1	20	
1,1,1-Trichloroethane	ug/kg	1000	775	735	78	73	64-132	5	20	
1,1,2,2-Tetrachloroethane	ug/kg	1000	1110	914	111	91	50-138	19	20	
1,1,2-Trichloroethane	ug/kg	1000	862	841	86	84	69-126	3	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	770	746	77	75	53-144	3	20	
1,1-Dichloroethane	ug/kg	1000	867	835	87	83	61-134	4	20	
1,1-Dichloroethene	ug/kg	1000	741	737	74	74	57-135	1	20	
1,1-Dichloropropene	ug/kg	1000	832	839	83	84	59-133	1	20	
1,2,3-Trichlorobenzene	ug/kg	1000	897	876	90	88	32-150	2	20	
1,2,3-Trichloropropane	ug/kg	1000	971	885	97	88	62-130	9	20	
1,2,4-Trichlorobenzene	ug/kg	1000	861	848	86	85	38-138	2	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

LABORATORY CONTROL SAMPLE & LCSD: 2476450		2476451									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1,2,4-Trimethylbenzene	ug/kg	1000	882	845	88	85	70-127	4	20		
1,2-Dibromo-3-chloropropane	ug/kg	2500	2160	1890	87	76	40-141	14	20		
1,2-Dibromoethane (EDB)	ug/kg	1000	863	832	86	83	69-130	4	20		
1,2-Dichlorobenzene	ug/kg	1000	940	890	94	89	72-125	5	20		
1,2-Dichloroethane	ug/kg	1000	752	709	75	71	62-125	6	20		
1,2-Dichloropropane	ug/kg	1000	916	918	92	92	67-126	0	20		
1,3,5-Trimethylbenzene	ug/kg	1000	891	853	89	85	71-129	4	20		
1,3-Dichlorobenzene	ug/kg	1000	910	867	91	87	72-126	5	20		
1,3-Dichloropropane	ug/kg	1000	918	881	92	88	70-125	4	20		
1,4-Dichlorobenzene	ug/kg	1000	895	858	90	86	70-126	4	20		
2,2-Dichloropropane	ug/kg	1000	734	701	73	70	48-134	5	20		
2-Butanone (MEK)	ug/kg	5000	4530	4320	91	86	38-149	5	20		
2-Chlorotoluene	ug/kg	1000	852	797	85	80	71-129	7	20		
4-Chlorotoluene	ug/kg	1000	911	892	91	89	72-128	2	20		
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5000	4560	100	91	52-145	9	20		
Acetone	ug/kg	5000	4590	4320	92	86	65-142	6	20		
Allyl chloride	ug/kg	1000	768	737	77	74	54-125	4	20		
Benzene	ug/kg	1000	859	847	86	85	64-125	1	20		
Bromobenzene	ug/kg	1000	873	833	87	83	70-125	5	20		
Bromochloromethane	ug/kg	1000	891	850	89	85	68-125	5	20		
Bromodichloromethane	ug/kg	1000	758	721	76	72	67-125	5	20		
Bromoform	ug/kg	1000	649	596	65	60	56-127	8	20		
Bromomethane	ug/kg	1000	519	546	52	55	34-137	5	20		
Carbon tetrachloride	ug/kg	1000	720	705	72	71	58-138	2	20		
Chlorobenzene	ug/kg	1000	873	829	87	83	72-125	5	20		
Chloroethane	ug/kg	1000	563	563	56	56	39-148	0	20		
Chloroform	ug/kg	1000	747	739	75	74	67-125	1	20		
Chloromethane	ug/kg	1000	473	480	47	48	54-125	1	20	C0,L0	
cis-1,2-Dichloroethene	ug/kg	1000	887	842	89	84	67-125	5	20		
cis-1,3-Dichloropropene	ug/kg	1000	838	775	84	77	62-127	8	20		
Dibromochloromethane	ug/kg	1000	729	709	73	71	67-125	3	20		
Dibromomethane	ug/kg	1000	847	788	85	79	63-129	7	20		
Dichlorodifluoromethane	ug/kg	1000	341	312	34	31	34-139	9	20	C0,L0	
Dichlorofluoromethane	ug/kg	1000	597	595	60	59	36-144	0	20		
Diethyl ether (Ethyl ether)	ug/kg	1000	723	705	72	71	51-125	2	20		
Ethylbenzene	ug/kg	1000	872	845	87	84	70-129	3	20		
Hexachloro-1,3-butadiene	ug/kg	1000	864	831	86	83	48-126	4	20		
Isopropylbenzene (Cumene)	ug/kg	1000	868	851	87	85	75-127	2	20		
Methyl-tert-butyl ether	ug/kg	1000	823	800	82	80	61-125	3	20		
Methylene Chloride	ug/kg	1000	829	830	83	83	60-126	0	20		
n-Butylbenzene	ug/kg	1000	928	880	93	88	67-125	5	20		
n-Propylbenzene	ug/kg	1000	913	856	91	86	72-133	6	20		
Naphthalene	ug/kg	1000	942	884	94	88	35-147	6	20		
p-Isopropyltoluene	ug/kg	1000	874	833	87	83	69-127	5	20		
sec-Butylbenzene	ug/kg	1000	932	922	93	92	70-127	1	20		
Styrene	ug/kg	1000	889	836	89	84	73-125	6	20		
tert-Butylbenzene	ug/kg	1000	909	867	91	87	71-130	5	20		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

LABORATORY CONTROL SAMPLE & LCSD: 2476450

Parameter	Units	2476451		LCS Result	LCS % Rec	LCS % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCSD Result							
Tetrachloroethene	ug/kg	1000	897	855	90	86	66-135	5	20	
Tetrahydrofuran	ug/kg	10000	9400	9010	94	90	66-145	4	20	
Toluene	ug/kg	1000	904	888	90	89	69-125	2	20	
trans-1,2-Dichloroethene	ug/kg	1000	791	788	79	79	55-135	0	20	
trans-1,3-Dichloropropene	ug/kg	1000	831	818	83	82	67-125	2	20	
Trichloroethene	ug/kg	1000	902	861	90	86	62-141	5	20	
Trichlorofluoromethane	ug/kg	1000	613	586	61	59	38-150	5	20	
Vinyl chloride	ug/kg	1000	572	574	57	57	57-131	0	20	
Xylene (Total)	ug/kg	3000	2610	2610	87	87	73-128	0	20	
1,2-Dichloroethane-d4 (S)	%				88	88	75-129			
4-Bromofluorobenzene (S)	%				98	95	75-125			
Toluene-d8 (S)	%				96	104	75-125			

MATRIX SPIKE SAMPLE: 2476452

Parameter	Units	10373448004		MS Result	MS % Rec	% Rec Limits	Qualifiers
		Result	Spike Conc.				
1,1,1,2-Tetrachloroethane	ug/kg	<41.0	2180	2240	103	59-135	
1,1,1-Trichloroethane	ug/kg	<43.2	2180	1970	91	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	<23.0	2180	2310	106	40-149	
1,1,2-Trichloroethane	ug/kg	<22.3	2180	2340	107	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	<248	2180	1890	87	41-150	
1,1-Dichloroethane	ug/kg	<40.1	2180	2190	101	53-131	
1,1-Dichloroethene	ug/kg	<26.3	2180	1890	87	41-133	
1,1-Dichloropropene	ug/kg	<31.2	2180	2180	100	50-139	
1,2,3-Trichlorobenzene	ug/kg	<29.8	2180	2320	107	52-150	
1,2,3-Trichloropropane	ug/kg	<107	2180	2310	106	61-137	
1,2,4-Trichlorobenzene	ug/kg	<31.9	2180	2220	102	52-142	
1,2,4-Trimethylbenzene	ug/kg	<22.8	2180	2220	102	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	<202	5430	5310	98	47-143	
1,2-Dibromoethane (EDB)	ug/kg	<38.9	2180	2300	106	57-136	
1,2-Dichlorobenzene	ug/kg	<20.0	2180	2320	106	59-136	
1,2-Dichloroethane	ug/kg	<32.7	2180	1960	90	52-133	
1,2-Dichloropropane	ug/kg	<35.8	2180	2530	116	62-129	
1,3,5-Trimethylbenzene	ug/kg	<79.2	2180	2230	102	54-143	
1,3-Dichlorobenzene	ug/kg	<30.4	2180	2300	106	60-137	
1,3-Dichloropropane	ug/kg	<123	2180	2460	113	57-138	
1,4-Dichlorobenzene	ug/kg	<99.9	2180	2210	102	51-132	
2,2-Dichloropropane	ug/kg	<110	2180	1830	84	50-134	
2-Butanone (MEK)	ug/kg	<455	10900	12900	118	46-125	
2-Chlorotoluene	ug/kg	<95.1	2180	2150	99	60-141	
4-Chlorotoluene	ug/kg	<90.2	2180	2250	104	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	<228	10900	13200	122	47-146	
Acetone	ug/kg	<2260	10900	11900	109	45-148	
Allyl chloride	ug/kg	<296	2180	2050	94	50-135	
Benzene	ug/kg	<29.8	2180	2300	106	41-134	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

MATRIX SPIKE SAMPLE: 2476452		10373448004	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromobenzene	ug/kg	<88.2	2180	2200	101	59-134	
Bromochloromethane	ug/kg	<103	2180	2360	109	56-127	
Bromodichloromethane	ug/kg	<96.4	2180	2060	95	55-136	
Bromoform	ug/kg	<297	2180	1810	83	51-139	
Bromomethane	ug/kg	<349	2180	1330	61	35-148	
Carbon tetrachloride	ug/kg	<108	2180	1820	84	50-140	
Chlorobenzene	ug/kg	<59.9	2180	2250	104	59-133	
Chloroethane	ug/kg	<544	2180	1270	59	30-150	
Chloroform	ug/kg	<167	2180	2000	92	58-128	
Chloromethane	ug/kg	<167	2180	1090	50	38-125	
cis-1,2-Dichloroethene	ug/kg	<128	2180	2230	102	59-125	
cis-1,3-Dichloropropene	ug/kg	<157	2180	2140	98	57-133	
Dibromochloromethane	ug/kg	<296	2180	2000	92	54-141	
Dibromomethane	ug/kg	<134	2180	2240	103	53-134	
Dichlorodifluoromethane	ug/kg	<105	2180	484	22	30-125	C0,M1
Dichlorofluoromethane	ug/kg	<944	2180	1400	64	30-150	
Diethyl ether (Ethyl ether)	ug/kg	<142	2180	1880	86	46-137	
Ethylbenzene	ug/kg	<110	2180	2280	105	56-141	
Hexachloro-1,3-butadiene	ug/kg	<324	2180	2150	99	45-150	
Isopropylbenzene (Cumene)	ug/kg	<123	2180	2270	104	48-141	
Methyl-tert-butyl ether	ug/kg	<64.5	2180	2310	106	53-133	
Methylene Chloride	ug/kg	<638	2180	2230	96	42-135	
n-Butylbenzene	ug/kg	<83.4	2180	2250	104	52-140	
n-Propylbenzene	ug/kg	<103	2180	2300	106	57-142	
Naphthalene	ug/kg	85.6	2180	2380	105	41-150	
p-Isopropyltoluene	ug/kg	<57.2	2180	2240	103	54-139	
sec-Butylbenzene	ug/kg	<81.3	2180	2360	109	30-150	
Styrene	ug/kg	<89.6	2180	2270	104	53-137	
tert-Butylbenzene	ug/kg	<109	2180	2260	104	59-138	
Tetrachloroethene	ug/kg	<132	2180	2270	104	53-138	
Tetrahydrofuran	ug/kg	<1710	21800	22400	103	50-145	
Toluene	ug/kg	<110	2180	2440	111	55-134	
trans-1,2-Dichloroethene	ug/kg	<166	2180	2080	96	44-135	
trans-1,3-Dichloropropene	ug/kg	<117	2180	2210	102	59-139	
Trichloroethene	ug/kg	<98.5	2180	2370	109	52-143	
Trichlorofluoromethane	ug/kg	<346	2180	1380	63	30-150	
Vinyl chloride	ug/kg	<44.2	2180	1300	60	36-127	
Xylene (Total)	ug/kg	<276	6520	6890	106	56-137	
1,2-Dichloroethane-d4 (S)	%				91	75-129	
4-Bromofluorobenzene (S)	%				96	75-125	
Toluene-d8 (S)	%				104	75-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

SAMPLE DUPLICATE: 2476453

Parameter	Units	10373448005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<32.2	<51.1		30	
1,1,1-Trichloroethane	ug/kg	<34.0	<53.9		30	
1,1,2,2-Tetrachloroethane	ug/kg	<18.0	<28.6		30	
1,1,2-Trichloroethane	ug/kg	<17.6	<27.8		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	<195	<309		30	
1,1-Dichloroethane	ug/kg	<31.5	<50.0		30	
1,1-Dichloroethene	ug/kg	<20.7	<32.7		30	
1,1-Dichloropropene	ug/kg	<24.6	<38.9		30	
1,2,3-Trichlorobenzene	ug/kg	<23.4	<37.1		30	
1,2,3-Trichloropropane	ug/kg	<84.2	<134		30	
1,2,4-Trichlorobenzene	ug/kg	<25.0	<39.7		30	
1,2,4-Trimethylbenzene	ug/kg	<17.9	<28.4		30	
1,2-Dibromo-3-chloropropane	ug/kg	<159	<251		30	
1,2-Dibromoethane (EDB)	ug/kg	<30.6	<48.5		30	
1,2-Dichlorobenzene	ug/kg	<15.7	<24.9		30	
1,2-Dichloroethane	ug/kg	<25.7	<40.7		30	
1,2-Dichloropropane	ug/kg	<28.1	<44.6		30	
1,3,5-Trimethylbenzene	ug/kg	<62.3	<98.7		30	
1,3-Dichlorobenzene	ug/kg	<23.9	<37.9		30	
1,3-Dichloropropane	ug/kg	<96.9	<154		30	
1,4-Dichlorobenzene	ug/kg	<78.5	<125		30	
2,2-Dichloropropane	ug/kg	<86.1	<137		30	
2-Butanone (MEK)	ug/kg	<357	<567		30	
2-Chlorotoluene	ug/kg	<74.7	<118		30	
4-Chlorotoluene	ug/kg	<70.9	<112		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	<179	<284		30	
Acetone	ug/kg	<1780	<2820		30	
Allyl chloride	ug/kg	<232	<368		30	
Benzene	ug/kg	<23.4	<37.1		30	
Bromobenzene	ug/kg	<69.3	<110		30	
Bromochloromethane	ug/kg	<80.7	<128		30	
Bromodichloromethane	ug/kg	<75.8	<120		30	
Bromoform	ug/kg	<233	<370		30	
Bromomethane	ug/kg	<275	<435		30	
Carbon tetrachloride	ug/kg	<85.0	<135		30	
Chlorobenzene	ug/kg	<47.1	<74.7		30	
Chloroethane	ug/kg	<428	<678		30	
Chloroform	ug/kg	<132	<209		30	
Chloromethane	ug/kg	<131	<208		30	
cis-1,2-Dichloroethene	ug/kg	<101	<160		30	
cis-1,3-Dichloropropene	ug/kg	<123	<196		30	
Dibromochloromethane	ug/kg	<232	<368		30	
Dibromomethane	ug/kg	<106	<167		30	
Dichlorodifluoromethane	ug/kg	<82.8	<131		30	
Dichlorofluoromethane	ug/kg	<742	<1180		30	
Diethyl ether (Ethyl ether)	ug/kg	<112	<177		30	
Ethylbenzene	ug/kg	<86.1	<137		30	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

SAMPLE DUPLICATE: 2476453

Parameter	Units	10373448005 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<254	<404		30	
Isopropylbenzene (Cumene)	ug/kg	<96.4	<153		30	
Methyl-tert-butyl ether	ug/kg	<50.7	<80.4		30	
Methylene Chloride	ug/kg	<501	<795		30	
n-Butylbenzene	ug/kg	<65.5	<104		30	
n-Propylbenzene	ug/kg	<80.7	<128		30	
Naphthalene	ug/kg	<65.5	<104		30	
p-Isopropyltoluene	ug/kg	<44.9	<71.3		30	
sec-Butylbenzene	ug/kg	<63.9	<101		30	
Styrene	ug/kg	<70.4	<112		30	
tert-Butylbenzene	ug/kg	<85.6	<136		30	
Tetrachloroethene	ug/kg	<103	<164		30	
Tetrahydrofuran	ug/kg	<1340	<2130		30	
Toluene	ug/kg	<86.1	<137		30	
trans-1,2-Dichloroethene	ug/kg	<130	<207		30	
trans-1,3-Dichloropropene	ug/kg	<92.0	<146		30	
Trichloroethene	ug/kg	<77.4	<123		30	
Trichlorofluoromethane	ug/kg	<272	<431		30	
Vinyl chloride	ug/kg	<34.8	<55.1		30	
Xylene (Total)	ug/kg	<217	<343		30	
1,2-Dichloroethane-d4 (S)	%.	95	87	37		
4-Bromofluorobenzene (S)	%.	99	100	47		
Toluene-d8 (S)	%.	102	100	44		

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_REV  
Pace Project No.: 10373448

QC Batch: 452206 Analysis Method: EPA 8270D by SIM  
QC Batch Method: EPA 3550 Analysis Description: 8270D Solid PAH by SIM MSSV  
Associated Lab Samples: 10373448001, 10373448002, 10373448003, 10373448004, 10373448005, 10373448006, 10373448007, 10373448008, 10373448009, 10373448010

METHOD BLANK: 2475599 Matrix: Solid  
Associated Lab Samples: 10373448001, 10373448002, 10373448003, 10373448004, 10373448005, 10373448006, 10373448007, 10373448008, 10373448009, 10373448010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	<1.3	1.3	12/21/16 21:43	
Acenaphthylene	ug/kg	<0.91	0.91	12/21/16 21:43	
Anthracene	ug/kg	<1.5	1.5	12/21/16 21:43	
Benzo(a)anthracene	ug/kg	<1.6	1.6	12/21/16 21:43	
Benzo(a)pyrene	ug/kg	<1.2	1.2	12/21/16 21:43	
Benzo(b)fluoranthene	ug/kg	<1.9	1.9	12/21/16 21:43	
Benzo(g,h,i)perylene	ug/kg	<1.5	1.5	12/21/16 21:43	
Benzo(k)fluoranthene	ug/kg	<1.6	1.6	12/21/16 21:43	
Chrysene	ug/kg	<1.8	1.8	12/21/16 21:43	
Dibenz(a,h)anthracene	ug/kg	<1.1	1.1	12/21/16 21:43	
Fluoranthene	ug/kg	<2.6	2.6	12/21/16 21:43	
Fluorene	ug/kg	<1.3	1.3	12/21/16 21:43	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.5	2.5	12/21/16 21:43	
Naphthalene	ug/kg	<1.2	1.2	12/21/16 21:43	
Phenanthrene	ug/kg	<1.3	1.3	12/21/16 21:43	
Pyrene	ug/kg	<2.8	2.8	12/21/16 21:43	
2-Fluorobiphenyl (S)	%	66	41-125	12/21/16 21:43	
p-Terphenyl-d14 (S)	%	75	39-125	12/21/16 21:43	

LABORATORY CONTROL SAMPLE: 2475600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	33.3	24.1	72	53-125	
Acenaphthylene	ug/kg	33.3	24.9	75	50-125	
Anthracene	ug/kg	33.3	27.7	83	60-125	
Benzo(a)anthracene	ug/kg	33.3	24.5	74	63-125	
Benzo(a)pyrene	ug/kg	33.3	29.2	88	65-125	
Benzo(b)fluoranthene	ug/kg	33.3	28.3	85	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	27.6	83	62-125	
Benzo(k)fluoranthene	ug/kg	33.3	30.6	92	65-125	
Chrysene	ug/kg	33.3	31.1	93	62-125	
Dibenz(a,h)anthracene	ug/kg	33.3	28.2	84	61-125	
Fluoranthene	ug/kg	33.3	28.5	86	64-125	
Fluorene	ug/kg	33.3	25.8	77	57-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	28.1	84	61-125	
Naphthalene	ug/kg	33.3	27.5	83	52-125	
Phenanthrene	ug/kg	33.3	24.8	74	58-125	
Pyrene	ug/kg	33.3	27.4	82	65-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

LABORATORY CONTROL SAMPLE: 2475600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Fluorobiphenyl (S)	%.			71	41-125	
p-Terphenyl-d14 (S)	%.			71	39-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2475967 2475968

Parameter	Units	10374080001		MSD		MSD		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Acenaphthene	ug/kg	ND	33.3	33.3	28.5	28.8	86	87	53-125	1	30		
Acenaphthylene	ug/kg	ND	33.3	33.3	29.7	31.6	89	95	50-125	6	30		
Anthracene	ug/kg	ND	33.3	33.3	33.0	33.1	99	99	60-125	0	30		
Benzo(a)anthracene	ug/kg	6.9	33.3	33.3	47.2	48.8	121	126	63-125	3	30	M1	
Benzo(a)pyrene	ug/kg	8.9	33.3	33.3	49.7	53.6	123	134	65-125	7	30	M1	
Benzo(b)fluoranthene	ug/kg	6.6	33.3	33.3	47.5	49.9	123	130	61-125	5	30	M1	
Benzo(g,h,i)perylene	ug/kg	5.2	33.3	33.3	42.0	43.7	111	116	62-125	4	30		
Benzo(k)fluoranthene	ug/kg	ND	33.3	33.3	41.0	41.5	123	124	65-125	1	30		
Chrysene	ug/kg	7.0	33.3	33.3	43.1	44.2	108	112	62-125	3	30		
Dibenz(a,h)anthracene	ug/kg	ND	33.3	33.3	31.6	31.8	95	95	61-125	1	30		
Fluoranthene	ug/kg	5.9	33.3	33.3	43.1	41.5	112	107	64-125	4	30		
Fluorene	ug/kg	ND	33.3	33.3	29.0	30.4	87	91	57-125	4	30		
Indeno(1,2,3-cd)pyrene	ug/kg	ND	33.3	33.3	38.3	40.0	115	120	61-125	4	30		
Naphthalene	ug/kg	ND	33.3	33.3	25.6	23.9	77	72	52-125	7	30		
Phenanthrene	ug/kg	ND	33.3	33.3	32.2	31.9	97	96	58-125	1	30		
Pyrene	ug/kg	18.8	33.3	33.3	77.1	75.9	175	171	65-125	2	30	M1	
2-Fluorobiphenyl (S)	%.						66	66	41-125				
p-Terphenyl-d14 (S)	%.						70	71	39-125				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

### ANALYTE QUALIFIERS

C0 Result confirmed by second analysis.

D4 Sample was diluted due to the presence of high levels of target analytes.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2118-0002 SWLP\_REV

Pace Project No.: 10373448

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10373448001	SB005_2.5-5	ASTM D2974	453696		
10373448002	SB005_5-6	ASTM D2974	453696		
10373448003	SB005_6-8	ASTM D2974	453696		
10373448004	SB005_10-15	ASTM D2974	453696		
10373448005	SB005_10-15D	ASTM D2974	453696		
10373448006	SB006_2-4	ASTM D2974	453696		
10373448007	SB006_8-10	ASTM D2974	453748		
10373448008	SB006_14-15	ASTM D2974	453748		
10373448009	SB007_1-1.5	ASTM D2974	453748		
10373448010	SB007_7-8	ASTM D2974	453748		
10373448001	SB005_2.5-5	EPA 3550	452206	EPA 8270D by SIM	452904
10373448002	SB005_5-6	EPA 3550	452206	EPA 8270D by SIM	452904
10373448003	SB005_6-8	EPA 3550	452206	EPA 8270D by SIM	452904
10373448004	SB005_10-15	EPA 3550	452206	EPA 8270D by SIM	452904
10373448005	SB005_10-15D	EPA 3550	452206	EPA 8270D by SIM	452904
10373448006	SB006_2-4	EPA 3550	452206	EPA 8270D by SIM	452904
10373448007	SB006_8-10	EPA 3550	452206	EPA 8270D by SIM	452904
10373448008	SB006_14-15	EPA 3550	452206	EPA 8270D by SIM	452904
10373448009	SB007_1-1.5	EPA 3550	452206	EPA 8270D by SIM	452904
10373448010	SB007_7-8	EPA 3550	452206	EPA 8270D by SIM	452904
10373448001	SB005_2.5-5	EPA 5035/5030B	452346	EPA 8260B	452802
10373448002	SB005_5-6	EPA 5035/5030B	452346	EPA 8260B	452802
10373448003	SB005_6-8	EPA 5035/5030B	452346	EPA 8260B	452802
10373448004	SB005_10-15	EPA 5035/5030B	452350	EPA 8260B	452568
10373448005	SB005_10-15D	EPA 5035/5030B	452350	EPA 8260B	452568
10373448006	SB006_2-4	EPA 5035/5030B	452350	EPA 8260B	452568
10373448007	SB006_8-10	EPA 5035/5030B	452350	EPA 8260B	452568
10373448008	SB006_14-15	EPA 5035/5030B	452350	EPA 8260B	452568
10373448009	SB007_1-1.5	EPA 5035/5030B	452350	EPA 8260B	452568
10373448010	SB007_7-8	EPA 5035/5030B	452350	EPA 8260B	452568

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1037344B

**Section A**  
 Required Client Information:  
 Company: Summit Environmental  
 Address: 1217 Bandana Blvd N  
 St Paul, MN 55108  
 Email To: bcaregg@summit.com  
 Phone: 651-762-4236  
 Requested Due Date/TAT:

**Section B**  
 Required Project Information:  
 Report To: Bill Caregg  
 Copy To:  
 Purchase Order No.: Z118-000Z  
 Project Name: SWLP  
 Project Number: Z118-000Z

**Section C**  
 Invoice Information:  
 Attention: Same  
 Company Name:  
 Address:  
 Pace Order Reference:  
 Pace Project Manager: Kober Xiong  
 Pace Profile #:  
 REGULATORY AGENCY  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER WDNR  
 Site Location STATE: WI

Page: 1 of 2146934

ITEM #	Sample ID (A-Z, 0-9 / -)	Matrix Codes MATRIX / CODE Drinking Water DW Waste Water WT Product WW Soil/Solid P Oil SL Wipe WP Air AR Tissue TS Other OT	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H <sub>2</sub> O <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Methanol Other	Analysis Test ↑ VOC PAH Moisture	Requested Analysis: Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB							
1	SB005-2.5-5		DATE: 12/16/06	TIME: 840	4	2		X		001	
2	SB005-5-6		DATE: 12/16/06	TIME: 845				X		002	
3	SB005-6-8		DATE: 12/16/06	TIME: 850				X		003	
4	SB005-10-15		DATE: 12/16/06	TIME: 855				X		004	
5	SB005-10-15D		DATE: 12/16/06	TIME: 855				X		005	
6	SB006-2-4		DATE: 12/16/06	TIME: 1045				X		006	
7	SB006-8-10		DATE: 12/16/06	TIME: 1050				X		007	
8	SB006-14-15		DATE: 12/16/06	TIME: 1100				X		008	
9	SB007-1-1.5		DATE: 12/16/06	TIME: 1445				X		009	
10	SB007-7-8		DATE: 12/16/06	TIME: 1450				X		010	

**Section D**  
 Required Client Information:  
 Relinquished By / Affiliation: Ryan Anderson / Summit  
 Date: 12/15/14  
 Time: 1340  
 Accepted By / Affiliation: Ryan Anderson / Pace  
 Date: 12/16/14  
 Time: 1340


**Section E**  
 ADDITIONAL COMMENTS:  
 Christina Polson  
 12/15/14 1515  
 12/15/14 1700  
 Pace

**Section F**  
 SAMPLE CONDITIONS:  
 Temp in °C  
 Received on Ice (Y/N)  
 Custody Sealed Cooler (Y/N)  
 Samples Intact (Y/N)

Temp in °C: 4  
 Received on Ice (Y/N): N  
 Custody Sealed Cooler (Y/N): Y  
 Samples Intact (Y/N): Y

SAMPLER NAME AND SIGNATURE  
 PRINT Name of SAMPLER: Ryan Anderson  
 SIGNATURE of SAMPLER: Ryan Anderson  
 DATE Signed (MM/DD/YYYY): 12/14/16

ORIGINAL

	Document Name: <b>Sample Condition Upon Receipt Form</b>	Document Revised: 12Dec2016 Page 1 of 2
	Document No.: <b>F-MN-L-213-rev.19</b>	Issuing Authority: Pace Minnesota Quality Office

**Sample Condition Upon Receipt**

Client Name: Summit EnviroSolutions

Project #: **WO# : 10373448**

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Speedee  Other: \_\_\_\_\_  
 Tracking Number: \_\_\_\_\_



10373448

Custody Seal on Cooler/Box Present?  Yes  No      Seals Intact?  Yes  No      Optional: Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_      Temp Blank?  Yes  No

Thermometer Used:  151401163  151401164      Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun

Cooler Temp Read (°C): 0.5      Cooler Temp Corrected (°C): 0.5      Biological Tissue Frozen?  Yes  No  N/A  
 Temp should be above freezing to 6°C      Correction Factor: TRUE      Date and Initials of Person Examining Contents: BC 12-15-16

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No  
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No -Includes Date/Time/ID/Analysis Matrix: <u>SL</u>	12.
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A All containers needing preservation are found to be in compliance with EPA recommendation? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH >9 Sulfide, NaOH >12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin. <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N Sample # _____ Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Pace Trip Blank Lot # (if purchased): _____	15.

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/Resolution: \_\_\_\_\_

Project Manager Review: \_\_\_\_\_ Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

January 12, 2017

Bill Gregg  
Summit Envirosolutions  
1217 Bandana Blvd  
Saint Paul, MN 55108

RE: Project: 2118-0002 Former Superior\_Rev  
Pace Project No.: 10373615

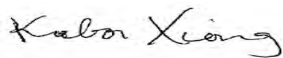
Dear Bill Gregg:

Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised on January 12, 2017 to change report format per client's request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kabor Xiong  
kabor.xiong@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

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### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

Alaska Certification UST-107

525 N 8th Street, Salina, KS 67401

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN\_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10373615001	SB007_85-90	Solid	12/15/16 08:30	12/16/16 16:15
10373615002	SB008_2-4	Solid	12/15/16 15:50	12/16/16 16:15
10373615003	SB008_2-4D	Solid	12/15/16 15:50	12/16/16 16:15
10373615004	SB008_6.5-9	Solid	12/15/16 16:00	12/16/16 16:15
10373615005	SB008_15-16	Solid	12/15/16 16:10	12/16/16 16:15
10373615006	SB008_18-20	Solid	12/15/16 16:15	12/16/16 16:15
10373615007	SB009_5-10	Solid	12/15/16 16:20	12/16/16 16:15
10373615008	SB009_13.5-15.5	Solid	12/15/16 16:30	12/16/16 16:15
10373615009	SB009_28-29	Solid	12/15/16 16:40	12/16/16 16:15
10373615010	SB010_5-10	Solid	12/16/16 08:00	12/16/16 16:15
10373615011	SB010_25-30	Solid	12/16/16 08:30	12/16/16 16:15
10373615012	SB010_33-35	Solid	12/16/16 08:35	12/16/16 16:15
10373615013	SB011_8-10	Solid	12/16/16 09:10	12/16/16 16:15
10373615014	SB011_10-18	Solid	12/16/16 09:15	12/16/16 16:15
10373615015	SB011_10-18D	Solid	12/16/16 09:15	12/16/16 16:15
10373615016	SB011_18-22	Solid	12/16/16 09:25	12/16/16 16:15
10373615017	SB011_29-30	Solid	12/16/16 09:40	12/16/16 16:15
10373615018	SB011_32-34	Solid	12/16/16 09:45	12/16/16 16:15
10373615019	Trip Blank	Solid	12/16/16 00:00	12/16/16 16:15

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### SAMPLE ANALYTE COUNT

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10373615001	SB007_85-90	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373615002	SB008_2-4	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373615003	SB008_2-4D	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373615004	SB008_6.5-9	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373615005	SB008_15-16	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373615006	SB008_18-20	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373615007	SB009_5-10	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373615008	SB009_13.5-15.5	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373615009	SB009_28-29	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373615010	SB010_5-10	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373615011	SB010_25-30	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373615012	SB010_33-35	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10373615013	SB011_8-10	ASTM D2974	JDL	1	PASI-M

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10373615014	SB011_10-18	EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373615015	SB011_10-18D	EPA 8260B	CD2	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373615016	SB011_18-22	EPA 8260B	CD2	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373615017	SB011_29-30	EPA 8260B	CD2	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373615018	SB011_32-34	EPA 8260B	CD2	70	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10373615019	Trip Blank	EPA 8260B	CD2	70	PASI-M
		EPA 8260B	CD2	70	PASI-M

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Sample Project No.: 10373615

Sample: **SB007\_85-90** Lab ID: **10373615001** Collected: 12/15/16 08:30 Received: 12/16/16 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	17.3	%	0.10	0.10	1		12/29/16 11:02		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.6	ug/kg	1.6	0.47	1	12/20/16 09:27	12/28/16 12:56	83-32-9	
Acenaphthylene	<1.1	ug/kg	1.1	0.33	1	12/20/16 09:27	12/28/16 12:56	208-96-8	
Anthracene	<1.8	ug/kg	1.8	0.55	1	12/20/16 09:27	12/28/16 12:56	120-12-7	
Benzo(a)anthracene	<1.9	ug/kg	1.9	0.57	1	12/20/16 09:27	12/28/16 12:56	56-55-3	
Benzo(a)pyrene	<1.4	ug/kg	1.4	0.42	1	12/20/16 09:27	12/28/16 12:56	50-32-8	
Benzo(b)fluoranthene	<2.3	ug/kg	2.3	0.69	1	12/20/16 09:27	12/28/16 12:56	205-99-2	
Benzo(g,h,i)perylene	<1.8	ug/kg	1.8	0.55	1	12/20/16 09:27	12/28/16 12:56	191-24-2	
Benzo(k)fluoranthene	<2.0	ug/kg	2.0	0.59	1	12/20/16 09:27	12/28/16 12:56	207-08-9	
Chrysene	<2.2	ug/kg	2.2	0.67	1	12/20/16 09:27	12/28/16 12:56	218-01-9	
Dibenz(a,h)anthracene	<1.3	ug/kg	1.3	0.39	1	12/20/16 09:27	12/28/16 12:56	53-70-3	
Fluoranthene	<3.1	ug/kg	3.1	0.95	1	12/20/16 09:27	12/28/16 12:56	206-44-0	
Fluorene	<1.5	ug/kg	1.5	0.46	1	12/20/16 09:27	12/28/16 12:56	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.0	ug/kg	3.0	0.90	1	12/20/16 09:27	12/28/16 12:56	193-39-5	
Naphthalene	<1.4	ug/kg	1.4	0.43	1	12/20/16 09:27	12/28/16 12:56	91-20-3	
Phenanthrene	<1.6	ug/kg	1.6	0.49	1	12/20/16 09:27	12/28/16 12:56	85-01-8	
Pyrene	<3.3	ug/kg	3.3	1.0	1	12/20/16 09:27	12/28/16 12:56	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	49	%	41-125		1	12/20/16 09:27	12/28/16 12:56	321-60-8	
p-Terphenyl-d14 (S)	69	%	39-125		1	12/20/16 09:27	12/28/16 12:56	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1270	ug/kg	1270	382	1	12/19/16 15:33	12/20/16 01:56	67-64-1	
Allyl chloride	<167	ug/kg	167	50.0	1	12/19/16 15:33	12/20/16 01:56	107-05-1	
Benzene	<16.8	ug/kg	16.8	5.0	1	12/19/16 15:33	12/20/16 01:56	71-43-2	
Bromobenzene	<49.7	ug/kg	49.7	14.9	1	12/19/16 15:33	12/20/16 01:56	108-86-1	
Bromochloromethane	<57.9	ug/kg	57.9	17.4	1	12/19/16 15:33	12/20/16 01:56	74-97-5	
Bromodichloromethane	<54.4	ug/kg	54.4	16.3	1	12/19/16 15:33	12/20/16 01:56	75-27-4	
Bromoform	<167	ug/kg	167	50.3	1	12/19/16 15:33	12/20/16 01:56	75-25-2	
Bromomethane	<197	ug/kg	197	59.1	1	12/19/16 15:33	12/20/16 01:56	74-83-9	
2-Butanone (MEK)	<256	ug/kg	256	77.0	1	12/19/16 15:33	12/20/16 01:56	78-93-3	
n-Butylbenzene	<47.0	ug/kg	47.0	14.1	1	12/19/16 15:33	12/20/16 01:56	104-51-8	
sec-Butylbenzene	<45.8	ug/kg	45.8	13.8	1	12/19/16 15:33	12/20/16 01:56	135-98-8	
tert-Butylbenzene	<61.4	ug/kg	61.4	18.4	1	12/19/16 15:33	12/20/16 01:56	98-06-6	
Carbon tetrachloride	<61.0	ug/kg	61.0	18.3	1	12/19/16 15:33	12/20/16 01:56	56-23-5	
Chlorobenzene	<33.8	ug/kg	33.8	10.1	1	12/19/16 15:33	12/20/16 01:56	108-90-7	
Chloroethane	<307	ug/kg	307	92.1	1	12/19/16 15:33	12/20/16 01:56	75-00-3	
Chloroform	<94.4	ug/kg	94.4	28.3	1	12/19/16 15:33	12/20/16 01:56	67-66-3	
Chloromethane	<94.0	ug/kg	94.0	28.2	1	12/19/16 15:33	12/20/16 01:56	74-87-3	L2
2-Chlorotoluene	<53.6	ug/kg	53.6	16.1	1	12/19/16 15:33	12/20/16 01:56	95-49-8	
4-Chlorotoluene	<50.9	ug/kg	50.9	15.3	1	12/19/16 15:33	12/20/16 01:56	106-43-4	
1,2-Dibromo-3-chloropropane	<114	ug/kg	114	114	1	12/19/16 15:33	12/20/16 01:56	96-12-8	
Dibromochloromethane	<167	ug/kg	167	50.0	1	12/19/16 15:33	12/20/16 01:56	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB007\_85-90**      **Lab ID: 10373615001**      Collected: 12/15/16 08:30      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<21.9	ug/kg	21.9	21.9	1	12/19/16 15:33	12/20/16 01:56	106-93-4	
Dibromomethane	<75.7	ug/kg	75.7	22.7	1	12/19/16 15:33	12/20/16 01:56	74-95-3	
1,2-Dichlorobenzene	<11.3	ug/kg	11.3	11.3	1	12/19/16 15:33	12/20/16 01:56	95-50-1	
1,3-Dichlorobenzene	<17.1	ug/kg	17.1	11.3	1	12/19/16 15:33	12/20/16 01:56	541-73-1	
1,4-Dichlorobenzene	<56.3	ug/kg	56.3	16.9	1	12/19/16 15:33	12/20/16 01:56	106-46-7	
Dichlorodifluoromethane	<59.4	ug/kg	59.4	17.8	1	12/19/16 15:33	12/20/16 01:56	75-71-8	L2
1,1-Dichloroethane	<22.6	ug/kg	22.6	22.6	1	12/19/16 15:33	12/20/16 01:56	75-34-3	
1,2-Dichloroethane	<18.4	ug/kg	18.4	18.4	1	12/19/16 15:33	12/20/16 01:56	107-06-2	
1,1-Dichloroethene	<14.8	ug/kg	14.8	14.8	1	12/19/16 15:33	12/20/16 01:56	75-35-4	
cis-1,2-Dichloroethene	<72.2	ug/kg	72.2	21.7	1	12/19/16 15:33	12/20/16 01:56	156-59-2	
trans-1,2-Dichloroethene	<93.6	ug/kg	93.6	28.1	1	12/19/16 15:33	12/20/16 01:56	156-60-5	
Dichlorofluoromethane	<532	ug/kg	532	160	1	12/19/16 15:33	12/20/16 01:56	75-43-4	
1,2-Dichloropropane	<20.2	ug/kg	20.2	20.2	1	12/19/16 15:33	12/20/16 01:56	78-87-5	
1,3-Dichloropropane	<69.5	ug/kg	69.5	20.9	1	12/19/16 15:33	12/20/16 01:56	142-28-9	
2,2-Dichloropropane	<61.7	ug/kg	61.7	18.5	1	12/19/16 15:33	12/20/16 01:56	594-20-7	
1,1-Dichloropropene	<17.6	ug/kg	17.6	17.6	1	12/19/16 15:33	12/20/16 01:56	563-58-6	
cis-1,3-Dichloropropene	<88.5	ug/kg	88.5	26.6	1	12/19/16 15:33	12/20/16 01:56	10061-01-5	
trans-1,3-Dichloropropene	<66.0	ug/kg	66.0	19.8	1	12/19/16 15:33	12/20/16 01:56	10061-02-6	
Diethyl ether (Ethyl ether)	<80.0	ug/kg	80.0	24.0	1	12/19/16 15:33	12/20/16 01:56	60-29-7	
Ethylbenzene	<61.7	ug/kg	61.7	18.5	1	12/19/16 15:33	12/20/16 01:56	100-41-4	
Hexachloro-1,3-butadiene	<183	ug/kg	183	54.8	1	12/19/16 15:33	12/20/16 01:56	87-68-3	
Isopropylbenzene (Cumene)	<69.1	ug/kg	69.1	20.8	1	12/19/16 15:33	12/20/16 01:56	98-82-8	
p-Isopropyltoluene	<32.2	ug/kg	32.2	9.7	1	12/19/16 15:33	12/20/16 01:56	99-87-6	
Methylene Chloride	<360	ug/kg	360	108	1	12/19/16 15:33	12/20/16 01:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	<129	ug/kg	129	38.6	1	12/19/16 15:33	12/20/16 01:56	108-10-1	
Methyl-tert-butyl ether	<36.3	ug/kg	36.3	10.9	1	12/19/16 15:33	12/20/16 01:56	1634-04-4	
Naphthalene	<47.0	ug/kg	47.0	14.1	1	12/19/16 15:33	12/20/16 01:56	91-20-3	
n-Propylbenzene	<57.9	ug/kg	57.9	17.4	1	12/19/16 15:33	12/20/16 01:56	103-65-1	
Styrene	<50.5	ug/kg	50.5	15.2	1	12/19/16 15:33	12/20/16 01:56	100-42-5	
1,1,1,2-Tetrachloroethane	<23.1	ug/kg	23.1	23.1	1	12/19/16 15:33	12/20/16 01:56	630-20-6	
1,1,1,2,2-Tetrachloroethane	<12.9	ug/kg	12.9	12.9	1	12/19/16 15:33	12/20/16 01:56	79-34-5	
Tetrachloroethene	<74.2	ug/kg	74.2	22.3	1	12/19/16 15:33	12/20/16 01:56	127-18-4	
Tetrahydrofuran	<963	ug/kg	963	289	1	12/19/16 15:33	12/20/16 01:56	109-99-9	
Toluene	<61.7	ug/kg	61.7	18.5	1	12/19/16 15:33	12/20/16 01:56	108-88-3	
1,2,3-Trichlorobenzene	<16.8	ug/kg	16.8	16.8	1	12/19/16 15:33	12/20/16 01:56	87-61-6	
1,2,4-Trichlorobenzene	<18.0	ug/kg	18.0	18.0	1	12/19/16 15:33	12/20/16 01:56	120-82-1	
1,1,1-Trichloroethane	<24.4	ug/kg	24.4	24.4	1	12/19/16 15:33	12/20/16 01:56	71-55-6	
1,1,2-Trichloroethane	<12.6	ug/kg	12.6	12.6	1	12/19/16 15:33	12/20/16 01:56	79-00-5	
Trichloroethene	<55.5	ug/kg	55.5	16.7	1	12/19/16 15:33	12/20/16 01:56	79-01-6	
Trichlorofluoromethane	<195	ug/kg	195	58.5	1	12/19/16 15:33	12/20/16 01:56	75-69-4	
1,2,3-Trichloropropane	<60.4	ug/kg	60.4	60.4	1	12/19/16 15:33	12/20/16 01:56	96-18-4	
1,1,2-Trichlorotrifluoroethane	<140	ug/kg	140	42.0	1	12/19/16 15:33	12/20/16 01:56	76-13-1	
1,2,4-Trimethylbenzene	<12.8	ug/kg	12.8	12.8	1	12/19/16 15:33	12/20/16 01:56	95-63-6	
1,3,5-Trimethylbenzene	<44.7	ug/kg	44.7	13.4	1	12/19/16 15:33	12/20/16 01:56	108-67-8	
Vinyl chloride	<24.9	ug/kg	24.9	7.5	1	12/19/16 15:33	12/20/16 01:56	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

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**Sample: SB007\_85-90**      **Lab ID: 10373615001**      Collected: 12/15/16 08:30      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<155	ug/kg	155	46.6	1	12/19/16 15:33	12/20/16 01:56	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	98	%	75-129		1	12/19/16 15:33	12/20/16 01:56	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/19/16 15:33	12/20/16 01:56	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	12/19/16 15:33	12/20/16 01:56	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Sample: **SB008\_2-4** Lab ID: **10373615002** Collected: 12/15/16 15:50 Received: 12/16/16 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	13.6	%	0.10	0.10	1		12/29/16 11:02		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	12.3	ug/kg	1.5	0.45	1	12/20/16 09:27	12/29/16 13:02	83-32-9	
Acenaphthylene	29.1	ug/kg	1.0	0.31	1	12/20/16 09:27	12/29/16 13:02	208-96-8	
Anthracene	35.5	ug/kg	1.7	0.52	1	12/20/16 09:27	12/29/16 13:02	120-12-7	
Benzo(a)anthracene	133	ug/kg	1.8	0.54	1	12/20/16 09:27	12/29/16 13:02	56-55-3	
Benzo(a)pyrene	144	ug/kg	1.3	0.40	1	12/20/16 09:27	12/29/16 13:02	50-32-8	
Benzo(b)fluoranthene	158	ug/kg	2.2	0.66	1	12/20/16 09:27	12/29/16 13:02	205-99-2	
Benzo(g,h,i)perylene	110	ug/kg	1.8	0.53	1	12/20/16 09:27	12/29/16 13:02	191-24-2	
Benzo(k)fluoranthene	49.1	ug/kg	1.9	0.57	1	12/20/16 09:27	12/29/16 13:02	207-08-9	
Chrysene	121	ug/kg	2.1	0.64	1	12/20/16 09:27	12/29/16 13:02	218-01-9	
Dibenz(a,h)anthracene	30.1	ug/kg	1.3	0.38	1	12/20/16 09:27	12/29/16 13:02	53-70-3	
Fluoranthene	204	ug/kg	3.0	0.90	1	12/20/16 09:27	12/29/16 13:02	206-44-0	
Fluorene	14.3	ug/kg	1.5	0.44	1	12/20/16 09:27	12/29/16 13:02	86-73-7	
Indeno(1,2,3-cd)pyrene	85.8	ug/kg	2.9	0.86	1	12/20/16 09:27	12/29/16 13:02	193-39-5	
Naphthalene	17.4	ug/kg	1.4	0.41	1	12/20/16 09:27	12/29/16 13:02	91-20-3	
Phenanthrene	137	ug/kg	1.5	0.46	1	12/20/16 09:27	12/29/16 13:02	85-01-8	
Pyrene	212	ug/kg	3.2	0.96	1	12/20/16 09:27	12/29/16 13:02	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	69	%	41-125		1	12/20/16 09:27	12/29/16 13:02	321-60-8	
p-Terphenyl-d14 (S)	63	%	39-125		1	12/20/16 09:27	12/29/16 13:02	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1240	ug/kg	1240	371	1	12/19/16 15:33	12/20/16 02:12	67-64-1	
Allyl chloride	<162	ug/kg	162	48.5	1	12/19/16 15:33	12/20/16 02:12	107-05-1	
Benzene	140	ug/kg	16.3	4.9	1	12/19/16 15:33	12/20/16 02:12	71-43-2	
Bromobenzene	<48.2	ug/kg	48.2	14.5	1	12/19/16 15:33	12/20/16 02:12	108-86-1	
Bromochloromethane	<56.1	ug/kg	56.1	16.8	1	12/19/16 15:33	12/20/16 02:12	74-97-5	
Bromodichloromethane	<52.7	ug/kg	52.7	15.8	1	12/19/16 15:33	12/20/16 02:12	75-27-4	
Bromoform	<162	ug/kg	162	48.7	1	12/19/16 15:33	12/20/16 02:12	75-25-2	
Bromomethane	<191	ug/kg	191	57.3	1	12/19/16 15:33	12/20/16 02:12	74-83-9	
2-Butanone (MEK)	<249	ug/kg	249	74.6	1	12/19/16 15:33	12/20/16 02:12	78-93-3	
n-Butylbenzene	<45.6	ug/kg	45.6	13.7	1	12/19/16 15:33	12/20/16 02:12	104-51-8	
sec-Butylbenzene	<44.4	ug/kg	44.4	13.3	1	12/19/16 15:33	12/20/16 02:12	135-98-8	
tert-Butylbenzene	<59.5	ug/kg	59.5	17.9	1	12/19/16 15:33	12/20/16 02:12	98-06-6	
Carbon tetrachloride	<59.1	ug/kg	59.1	17.8	1	12/19/16 15:33	12/20/16 02:12	56-23-5	
Chlorobenzene	<32.8	ug/kg	32.8	9.8	1	12/19/16 15:33	12/20/16 02:12	108-90-7	
Chloroethane	<297	ug/kg	297	89.3	1	12/19/16 15:33	12/20/16 02:12	75-00-3	
Chloroform	<91.5	ug/kg	91.5	27.5	1	12/19/16 15:33	12/20/16 02:12	67-66-3	
Chloromethane	<91.1	ug/kg	91.1	27.4	1	12/19/16 15:33	12/20/16 02:12	74-87-3	L2
2-Chlorotoluene	<52.0	ug/kg	52.0	15.6	1	12/19/16 15:33	12/20/16 02:12	95-49-8	
4-Chlorotoluene	<49.3	ug/kg	49.3	14.8	1	12/19/16 15:33	12/20/16 02:12	106-43-4	
1,2-Dibromo-3-chloropropane	<110	ug/kg	110	110	1	12/19/16 15:33	12/20/16 02:12	96-12-8	
Dibromochloromethane	<162	ug/kg	162	48.5	1	12/19/16 15:33	12/20/16 02:12	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Sample: **SB008\_2-4** Lab ID: **10373615002** Collected: 12/15/16 15:50 Received: 12/16/16 16:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
1,2-Dibromoethane (EDB)	<21.3	ug/kg	21.3	21.3	1	12/19/16 15:33	12/20/16 02:12	106-93-4	
Dibromomethane	<73.4	ug/kg	73.4	22.0	1	12/19/16 15:33	12/20/16 02:12	74-95-3	
1,2-Dichlorobenzene	<10.9	ug/kg	10.9	10.9	1	12/19/16 15:33	12/20/16 02:12	95-50-1	
1,3-Dichlorobenzene	<16.6	ug/kg	16.6	10.9	1	12/19/16 15:33	12/20/16 02:12	541-73-1	
1,4-Dichlorobenzene	<54.6	ug/kg	54.6	16.4	1	12/19/16 15:33	12/20/16 02:12	106-46-7	
Dichlorodifluoromethane	<57.6	ug/kg	57.6	17.3	1	12/19/16 15:33	12/20/16 02:12	75-71-8	L2
1,1-Dichloroethane	<21.9	ug/kg	21.9	21.9	1	12/19/16 15:33	12/20/16 02:12	75-34-3	
1,2-Dichloroethane	<17.9	ug/kg	17.9	17.9	1	12/19/16 15:33	12/20/16 02:12	107-06-2	
1,1-Dichloroethene	<14.4	ug/kg	14.4	14.4	1	12/19/16 15:33	12/20/16 02:12	75-35-4	
cis-1,2-Dichloroethene	<70.0	ug/kg	70.0	21.0	1	12/19/16 15:33	12/20/16 02:12	156-59-2	
trans-1,2-Dichloroethene	<90.7	ug/kg	90.7	27.3	1	12/19/16 15:33	12/20/16 02:12	156-60-5	
Dichlorofluoromethane	<516	ug/kg	516	155	1	12/19/16 15:33	12/20/16 02:12	75-43-4	
1,2-Dichloropropane	<19.6	ug/kg	19.6	19.6	1	12/19/16 15:33	12/20/16 02:12	78-87-5	
1,3-Dichloropropane	<67.4	ug/kg	67.4	20.2	1	12/19/16 15:33	12/20/16 02:12	142-28-9	
2,2-Dichloropropane	<59.9	ug/kg	59.9	18.0	1	12/19/16 15:33	12/20/16 02:12	594-20-7	
1,1-Dichloropropene	<17.1	ug/kg	17.1	17.1	1	12/19/16 15:33	12/20/16 02:12	563-58-6	
cis-1,3-Dichloropropene	<85.9	ug/kg	85.9	25.8	1	12/19/16 15:33	12/20/16 02:12	10061-01-5	
trans-1,3-Dichloropropene	<64.0	ug/kg	64.0	19.2	1	12/19/16 15:33	12/20/16 02:12	10061-02-6	
Diethyl ether (Ethyl ether)	<77.6	ug/kg	77.6	23.3	1	12/19/16 15:33	12/20/16 02:12	60-29-7	
Ethylbenzene	<59.9	ug/kg	59.9	18.0	1	12/19/16 15:33	12/20/16 02:12	100-41-4	
Hexachloro-1,3-butadiene	<177	ug/kg	177	53.1	1	12/19/16 15:33	12/20/16 02:12	87-68-3	
Isopropylbenzene (Cumene)	<67.0	ug/kg	67.0	20.1	1	12/19/16 15:33	12/20/16 02:12	98-82-8	
p-Isopropyltoluene	<31.3	ug/kg	31.3	9.4	1	12/19/16 15:33	12/20/16 02:12	99-87-6	
Methylene Chloride	<349	ug/kg	349	105	1	12/19/16 15:33	12/20/16 02:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	<125	ug/kg	125	37.4	1	12/19/16 15:33	12/20/16 02:12	108-10-1	
Methyl-tert-butyl ether	<35.2	ug/kg	35.2	10.6	1	12/19/16 15:33	12/20/16 02:12	1634-04-4	
Naphthalene	78.5	ug/kg	45.6	13.7	1	12/19/16 15:33	12/20/16 02:12	91-20-3	B
n-Propylbenzene	<56.1	ug/kg	56.1	16.8	1	12/19/16 15:33	12/20/16 02:12	103-65-1	
Styrene	<49.0	ug/kg	49.0	14.7	1	12/19/16 15:33	12/20/16 02:12	100-42-5	
1,1,1,2-Tetrachloroethane	<22.4	ug/kg	22.4	22.4	1	12/19/16 15:33	12/20/16 02:12	630-20-6	
1,1,1,2,2-Tetrachloroethane	<12.6	ug/kg	12.6	12.6	1	12/19/16 15:33	12/20/16 02:12	79-34-5	
Tetrachloroethene	<71.9	ug/kg	71.9	21.6	1	12/19/16 15:33	12/20/16 02:12	127-18-4	
Tetrahydrofuran	<934	ug/kg	934	280	1	12/19/16 15:33	12/20/16 02:12	109-99-9	
Toluene	125	ug/kg	59.9	18.0	1	12/19/16 15:33	12/20/16 02:12	108-88-3	
1,2,3-Trichlorobenzene	<16.3	ug/kg	16.3	16.3	1	12/19/16 15:33	12/20/16 02:12	87-61-6	
1,2,4-Trichlorobenzene	<17.4	ug/kg	17.4	17.4	1	12/19/16 15:33	12/20/16 02:12	120-82-1	
1,1,1-Trichloroethane	<23.6	ug/kg	23.6	23.6	1	12/19/16 15:33	12/20/16 02:12	71-55-6	
1,1,2-Trichloroethane	<12.2	ug/kg	12.2	12.2	1	12/19/16 15:33	12/20/16 02:12	79-00-5	
Trichloroethene	<53.8	ug/kg	53.8	16.2	1	12/19/16 15:33	12/20/16 02:12	79-01-6	
Trichlorofluoromethane	<189	ug/kg	189	56.8	1	12/19/16 15:33	12/20/16 02:12	75-69-4	
1,2,3-Trichloropropane	<58.6	ug/kg	58.6	58.6	1	12/19/16 15:33	12/20/16 02:12	96-18-4	
1,1,2-Trichlorotrifluoroethane	<136	ug/kg	136	40.7	1	12/19/16 15:33	12/20/16 02:12	76-13-1	
1,2,4-Trimethylbenzene	25.0	ug/kg	12.4	12.4	1	12/19/16 15:33	12/20/16 02:12	95-63-6	
1,3,5-Trimethylbenzene	<43.3	ug/kg	43.3	13.0	1	12/19/16 15:33	12/20/16 02:12	108-67-8	
Vinyl chloride	<24.2	ug/kg	24.2	7.3	1	12/19/16 15:33	12/20/16 02:12	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB008\_2-4**      **Lab ID: 10373615002**      Collected: 12/15/16 15:50      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<151	ug/kg	151	45.2	1	12/19/16 15:33	12/20/16 02:12	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	94	%	75-129		1	12/19/16 15:33	12/20/16 02:12	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/19/16 15:33	12/20/16 02:12	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		1	12/19/16 15:33	12/20/16 02:12	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Lab Project No.: 10373615

**Sample: SB008\_2-4D**      **Lab ID: 10373615003**      Collected: 12/15/16 15:50      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	12.1	%	0.10	0.10	1		12/29/16 11:03		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	24.4	ug/kg	14.8	4.4	10	12/20/16 09:27	12/28/16 18:05	83-32-9	
Acenaphthylene	35.5	ug/kg	10.3	3.1	10	12/20/16 09:27	12/28/16 18:05	208-96-8	
Anthracene	121	ug/kg	17.2	5.2	10	12/20/16 09:27	12/28/16 18:05	120-12-7	
Benzo(a)anthracene	291	ug/kg	17.8	5.3	10	12/20/16 09:27	12/28/16 18:05	56-55-3	
Benzo(a)pyrene	305	ug/kg	13.1	3.9	10	12/20/16 09:27	12/28/16 18:05	50-32-8	
Benzo(b)fluoranthene	355	ug/kg	21.7	6.5	10	12/20/16 09:27	12/28/16 18:05	205-99-2	
Benzo(g,h,i)perylene	192	ug/kg	17.3	5.2	10	12/20/16 09:27	12/28/16 18:05	191-24-2	
Benzo(k)fluoranthene	132	ug/kg	18.6	5.6	10	12/20/16 09:27	12/28/16 18:05	207-08-9	
Chrysene	258	ug/kg	21.0	6.3	10	12/20/16 09:27	12/28/16 18:05	218-01-9	
Dibenz(a,h)anthracene	53.7	ug/kg	12.4	3.7	10	12/20/16 09:27	12/28/16 18:05	53-70-3	
Fluoranthene	583	ug/kg	29.7	8.9	10	12/20/16 09:27	12/28/16 18:05	206-44-0	
Fluorene	23.1	ug/kg	14.5	4.4	10	12/20/16 09:27	12/28/16 18:05	86-73-7	
Indeno(1,2,3-cd)pyrene	165	ug/kg	28.4	8.5	10	12/20/16 09:27	12/28/16 18:05	193-39-5	
Naphthalene	21.5	ug/kg	13.5	4.1	10	12/20/16 09:27	12/28/16 18:05	91-20-3	
Phenanthrene	336	ug/kg	15.3	4.6	10	12/20/16 09:27	12/28/16 18:05	85-01-8	
Pyrene	491	ug/kg	31.4	9.4	10	12/20/16 09:27	12/28/16 18:05	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	66	%	41-125		10	12/20/16 09:27	12/28/16 18:05	321-60-8	D4
p-Terphenyl-d14 (S)	0	%	39-125		10	12/20/16 09:27	12/28/16 18:05	1718-51-0	S4
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1190	ug/kg	1190	357	1	12/19/16 15:33	12/20/16 02:29	67-64-1	
Allyl chloride	<156	ug/kg	156	46.7	1	12/19/16 15:33	12/20/16 02:29	107-05-1	
Benzene	102	ug/kg	15.7	4.7	1	12/19/16 15:33	12/20/16 02:29	71-43-2	
Bromobenzene	<46.4	ug/kg	46.4	13.9	1	12/19/16 15:33	12/20/16 02:29	108-86-1	
Bromochloromethane	<54.1	ug/kg	54.1	16.2	1	12/19/16 15:33	12/20/16 02:29	74-97-5	
Bromodichloromethane	<50.8	ug/kg	50.8	15.3	1	12/19/16 15:33	12/20/16 02:29	75-27-4	
Bromoform	<156	ug/kg	156	47.0	1	12/19/16 15:33	12/20/16 02:29	75-25-2	
Bromomethane	<184	ug/kg	184	55.2	1	12/19/16 15:33	12/20/16 02:29	74-83-9	
2-Butanone (MEK)	<239	ug/kg	239	71.9	1	12/19/16 15:33	12/20/16 02:29	78-93-3	
n-Butylbenzene	<43.9	ug/kg	43.9	13.2	1	12/19/16 15:33	12/20/16 02:29	104-51-8	
sec-Butylbenzene	<42.8	ug/kg	42.8	12.9	1	12/19/16 15:33	12/20/16 02:29	135-98-8	
tert-Butylbenzene	<57.3	ug/kg	57.3	17.2	1	12/19/16 15:33	12/20/16 02:29	98-06-6	
Carbon tetrachloride	<57.0	ug/kg	57.0	17.1	1	12/19/16 15:33	12/20/16 02:29	56-23-5	
Chlorobenzene	<31.6	ug/kg	31.6	9.5	1	12/19/16 15:33	12/20/16 02:29	108-90-7	
Chloroethane	<287	ug/kg	287	86.1	1	12/19/16 15:33	12/20/16 02:29	75-00-3	
Chloroform	<88.2	ug/kg	88.2	26.5	1	12/19/16 15:33	12/20/16 02:29	67-66-3	
Chloromethane	<87.8	ug/kg	87.8	26.4	1	12/19/16 15:33	12/20/16 02:29	74-87-3	L2
2-Chlorotoluene	<50.1	ug/kg	50.1	15.0	1	12/19/16 15:33	12/20/16 02:29	95-49-8	
4-Chlorotoluene	<47.5	ug/kg	47.5	14.3	1	12/19/16 15:33	12/20/16 02:29	106-43-4	
1,2-Dibromo-3-chloropropane	<106	ug/kg	106	106	1	12/19/16 15:33	12/20/16 02:29	96-12-8	
Dibromochloromethane	<156	ug/kg	156	46.7	1	12/19/16 15:33	12/20/16 02:29	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Sample: **SB008\_2-4D** Lab ID: **10373615003** Collected: 12/15/16 15:50 Received: 12/16/16 16:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<20.5	ug/kg	20.5	20.5	1	12/19/16 15:33	12/20/16 02:29	106-93-4	
Dibromomethane	<70.8	ug/kg	70.8	21.2	1	12/19/16 15:33	12/20/16 02:29	74-95-3	
1,2-Dichlorobenzene	<10.5	ug/kg	10.5	10.5	1	12/19/16 15:33	12/20/16 02:29	95-50-1	
1,3-Dichlorobenzene	<16.0	ug/kg	16.0	10.5	1	12/19/16 15:33	12/20/16 02:29	541-73-1	
1,4-Dichlorobenzene	<52.6	ug/kg	52.6	15.8	1	12/19/16 15:33	12/20/16 02:29	106-46-7	
Dichlorodifluoromethane	<55.5	ug/kg	55.5	16.7	1	12/19/16 15:33	12/20/16 02:29	75-71-8	L2
1,1-Dichloroethane	<21.1	ug/kg	21.1	21.1	1	12/19/16 15:33	12/20/16 02:29	75-34-3	
1,2-Dichloroethane	<17.2	ug/kg	17.2	17.2	1	12/19/16 15:33	12/20/16 02:29	107-06-2	
1,1-Dichloroethene	<13.8	ug/kg	13.8	13.8	1	12/19/16 15:33	12/20/16 02:29	75-35-4	
cis-1,2-Dichloroethene	<67.5	ug/kg	67.5	20.3	1	12/19/16 15:33	12/20/16 02:29	156-59-2	
trans-1,2-Dichloroethene	<87.4	ug/kg	87.4	26.3	1	12/19/16 15:33	12/20/16 02:29	156-60-5	
Dichlorofluoromethane	<497	ug/kg	497	149	1	12/19/16 15:33	12/20/16 02:29	75-43-4	
1,2-Dichloropropane	<18.9	ug/kg	18.9	18.9	1	12/19/16 15:33	12/20/16 02:29	78-87-5	
1,3-Dichloropropane	<65.0	ug/kg	65.0	19.5	1	12/19/16 15:33	12/20/16 02:29	142-28-9	
2,2-Dichloropropane	<57.7	ug/kg	57.7	17.3	1	12/19/16 15:33	12/20/16 02:29	594-20-7	
1,1-Dichloropropene	<16.5	ug/kg	16.5	16.5	1	12/19/16 15:33	12/20/16 02:29	563-58-6	
cis-1,3-Dichloropropene	<82.7	ug/kg	82.7	24.8	1	12/19/16 15:33	12/20/16 02:29	10061-01-5	
trans-1,3-Dichloropropene	<61.7	ug/kg	61.7	18.5	1	12/19/16 15:33	12/20/16 02:29	10061-02-6	
Diethyl ether (Ethyl ether)	<74.7	ug/kg	74.7	22.4	1	12/19/16 15:33	12/20/16 02:29	60-29-7	
Ethylbenzene	<57.7	ug/kg	57.7	17.3	1	12/19/16 15:33	12/20/16 02:29	100-41-4	
Hexachloro-1,3-butadiene	<171	ug/kg	171	51.2	1	12/19/16 15:33	12/20/16 02:29	87-68-3	
Isopropylbenzene (Cumene)	<64.6	ug/kg	64.6	19.4	1	12/19/16 15:33	12/20/16 02:29	98-82-8	
p-Isopropyltoluene	<30.1	ug/kg	30.1	9.0	1	12/19/16 15:33	12/20/16 02:29	99-87-6	
Methylene Chloride	<336	ug/kg	336	101	1	12/19/16 15:33	12/20/16 02:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	<120	ug/kg	120	36.1	1	12/19/16 15:33	12/20/16 02:29	108-10-1	
Methyl-tert-butyl ether	<34.0	ug/kg	34.0	10.2	1	12/19/16 15:33	12/20/16 02:29	1634-04-4	
Naphthalene	66.2	ug/kg	43.9	13.2	1	12/19/16 15:33	12/20/16 02:29	91-20-3	B
n-Propylbenzene	<54.1	ug/kg	54.1	16.2	1	12/19/16 15:33	12/20/16 02:29	103-65-1	
Styrene	<47.2	ug/kg	47.2	14.2	1	12/19/16 15:33	12/20/16 02:29	100-42-5	
1,1,1,2-Tetrachloroethane	<21.6	ug/kg	21.6	21.6	1	12/19/16 15:33	12/20/16 02:29	630-20-6	
1,1,1,2,2-Tetrachloroethane	<12.1	ug/kg	12.1	12.1	1	12/19/16 15:33	12/20/16 02:29	79-34-5	
Tetrachloroethene	<69.3	ug/kg	69.3	20.8	1	12/19/16 15:33	12/20/16 02:29	127-18-4	
Tetrahydrofuran	<900	ug/kg	900	270	1	12/19/16 15:33	12/20/16 02:29	109-99-9	
Toluene	131	ug/kg	57.7	17.3	1	12/19/16 15:33	12/20/16 02:29	108-88-3	
1,2,3-Trichlorobenzene	<15.7	ug/kg	15.7	15.7	1	12/19/16 15:33	12/20/16 02:29	87-61-6	
1,2,4-Trichlorobenzene	<16.8	ug/kg	16.8	16.8	1	12/19/16 15:33	12/20/16 02:29	120-82-1	
1,1,1-Trichloroethane	<22.8	ug/kg	22.8	22.8	1	12/19/16 15:33	12/20/16 02:29	71-55-6	
1,1,2-Trichloroethane	<11.8	ug/kg	11.8	11.8	1	12/19/16 15:33	12/20/16 02:29	79-00-5	
Trichloroethene	<51.9	ug/kg	51.9	15.6	1	12/19/16 15:33	12/20/16 02:29	79-01-6	
Trichlorofluoromethane	<182	ug/kg	182	54.7	1	12/19/16 15:33	12/20/16 02:29	75-69-4	
1,2,3-Trichloropropane	<56.4	ug/kg	56.4	56.4	1	12/19/16 15:33	12/20/16 02:29	96-18-4	
1,1,2-Trichlorotrifluoroethane	<131	ug/kg	131	39.2	1	12/19/16 15:33	12/20/16 02:29	76-13-1	
1,2,4-Trimethylbenzene	22.9	ug/kg	12.0	12.0	1	12/19/16 15:33	12/20/16 02:29	95-63-6	
1,3,5-Trimethylbenzene	<41.7	ug/kg	41.7	12.5	1	12/19/16 15:33	12/20/16 02:29	108-67-8	
Vinyl chloride	<23.3	ug/kg	23.3	7.0	1	12/19/16 15:33	12/20/16 02:29	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

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**Sample: SB008\_2-4D**      **Lab ID: 10373615003**      Collected: 12/15/16 15:50      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Xylene (Total)	<145	ug/kg	145	43.6	1	12/19/16 15:33	12/20/16 02:29	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	96	%	75-129		1	12/19/16 15:33	12/20/16 02:29	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/19/16 15:33	12/20/16 02:29	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		1	12/19/16 15:33	12/20/16 02:29	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Sample Project No.: 10373615

**Sample: SB008\_6.5-9**      **Lab ID: 10373615004**      Collected: 12/15/16 16:00      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	22.1	%	0.10	0.10	1		12/29/16 11:03		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	1090	ug/kg	16.7	5.0	10	12/20/16 09:27	12/28/16 18:25	83-32-9	
Acenaphthylene	145	ug/kg	11.6	3.5	10	12/20/16 09:27	12/28/16 18:25	208-96-8	
Anthracene	1930	ug/kg	19.4	5.8	10	12/20/16 09:27	12/28/16 18:25	120-12-7	
Benzo(a)anthracene	3440	ug/kg	20.0	6.0	10	12/20/16 09:27	12/28/16 18:25	56-55-3	
Benzo(a)pyrene	2850	ug/kg	14.8	4.5	10	12/20/16 09:27	12/28/16 18:25	50-32-8	
Benzo(b)fluoranthene	3370	ug/kg	24.5	7.4	10	12/20/16 09:27	12/28/16 18:25	205-99-2	
Benzo(g,h,i)perylene	1630	ug/kg	19.6	5.9	10	12/20/16 09:27	12/28/16 18:25	191-24-2	
Benzo(k)fluoranthene	910	ug/kg	21.0	6.3	10	12/20/16 09:27	12/28/16 18:25	207-08-9	
Chrysene	3050	ug/kg	23.7	7.1	10	12/20/16 09:27	12/28/16 18:25	218-01-9	
Dibenz(a,h)anthracene	436	ug/kg	14.0	4.2	10	12/20/16 09:27	12/28/16 18:25	53-70-3	
Fluoranthene	8020	ug/kg	167	50.3	50	12/20/16 09:27	12/29/16 13:22	206-44-0	
Fluorene	1100	ug/kg	16.4	4.9	10	12/20/16 09:27	12/28/16 18:25	86-73-7	
Indeno(1,2,3-cd)pyrene	1410	ug/kg	32.0	9.6	10	12/20/16 09:27	12/28/16 18:25	193-39-5	
Naphthalene	822	ug/kg	15.3	4.6	10	12/20/16 09:27	12/28/16 18:25	91-20-3	
Phenanthrene	8550	ug/kg	86.1	25.9	50	12/20/16 09:27	12/29/16 13:22	85-01-8	
Pyrene	7250	ug/kg	177	53.2	50	12/20/16 09:27	12/29/16 13:22	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	74	%	41-125		10	12/20/16 09:27	12/28/16 18:25	321-60-8	D4
p-Terphenyl-d14 (S)	0	%	39-125		10	12/20/16 09:27	12/28/16 18:25	1718-51-0	S4
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1340	ug/kg	1340	402	1	12/19/16 15:33	12/20/16 02:45	67-64-1	
Allyl chloride	<175	ug/kg	175	52.5	1	12/19/16 15:33	12/20/16 02:45	107-05-1	
Benzene	13800	ug/kg	17.6	5.3	1	12/19/16 15:33	12/20/16 02:45	71-43-2	
Bromobenzene	<52.2	ug/kg	52.2	15.7	1	12/19/16 15:33	12/20/16 02:45	108-86-1	
Bromochloromethane	<60.7	ug/kg	60.7	18.2	1	12/19/16 15:33	12/20/16 02:45	74-97-5	
Bromodichloromethane	<57.1	ug/kg	57.1	17.1	1	12/19/16 15:33	12/20/16 02:45	75-27-4	
Bromoform	<176	ug/kg	176	52.8	1	12/19/16 15:33	12/20/16 02:45	75-25-2	
Bromomethane	<207	ug/kg	207	62.1	1	12/19/16 15:33	12/20/16 02:45	74-83-9	
2-Butanone (MEK)	<269	ug/kg	269	80.8	1	12/19/16 15:33	12/20/16 02:45	78-93-3	
n-Butylbenzene	<49.3	ug/kg	49.3	14.8	1	12/19/16 15:33	12/20/16 02:45	104-51-8	
sec-Butylbenzene	<48.1	ug/kg	48.1	14.4	1	12/19/16 15:33	12/20/16 02:45	135-98-8	
tert-Butylbenzene	<64.4	ug/kg	64.4	19.3	1	12/19/16 15:33	12/20/16 02:45	98-06-6	
Carbon tetrachloride	<64.0	ug/kg	64.0	19.2	1	12/19/16 15:33	12/20/16 02:45	56-23-5	
Chlorobenzene	<35.5	ug/kg	35.5	10.7	1	12/19/16 15:33	12/20/16 02:45	108-90-7	
Chloroethane	<322	ug/kg	322	96.7	1	12/19/16 15:33	12/20/16 02:45	75-00-3	
Chloroform	<99.1	ug/kg	99.1	29.7	1	12/19/16 15:33	12/20/16 02:45	67-66-3	
Chloromethane	<98.7	ug/kg	98.7	29.6	1	12/19/16 15:33	12/20/16 02:45	74-87-3	L2
2-Chlorotoluene	<56.3	ug/kg	56.3	16.9	1	12/19/16 15:33	12/20/16 02:45	95-49-8	
4-Chlorotoluene	<53.4	ug/kg	53.4	16.0	1	12/19/16 15:33	12/20/16 02:45	106-43-4	
1,2-Dibromo-3-chloropropane	<119	ug/kg	119	119	1	12/19/16 15:33	12/20/16 02:45	96-12-8	
Dibromochloromethane	<175	ug/kg	175	52.5	1	12/19/16 15:33	12/20/16 02:45	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB008\_6.5-9**      **Lab ID: 10373615004**      Collected: 12/15/16 16:00      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<23.0	ug/kg	23.0	23.0	1	12/19/16 15:33	12/20/16 02:45	106-93-4	
Dibromomethane	<79.5	ug/kg	79.5	23.9	1	12/19/16 15:33	12/20/16 02:45	74-95-3	
1,2-Dichlorobenzene	<11.8	ug/kg	11.8	11.8	1	12/19/16 15:33	12/20/16 02:45	95-50-1	
1,3-Dichlorobenzene	<18.0	ug/kg	18.0	11.8	1	12/19/16 15:33	12/20/16 02:45	541-73-1	
1,4-Dichlorobenzene	<59.1	ug/kg	59.1	17.8	1	12/19/16 15:33	12/20/16 02:45	106-46-7	
Dichlorodifluoromethane	<62.4	ug/kg	62.4	18.7	1	12/19/16 15:33	12/20/16 02:45	75-71-8	L2
1,1-Dichloroethane	<23.7	ug/kg	23.7	23.7	1	12/19/16 15:33	12/20/16 02:45	75-34-3	
1,2-Dichloroethane	<19.3	ug/kg	19.3	19.3	1	12/19/16 15:33	12/20/16 02:45	107-06-2	
1,1-Dichloroethene	<15.5	ug/kg	15.5	15.5	1	12/19/16 15:33	12/20/16 02:45	75-35-4	
cis-1,2-Dichloroethene	<75.8	ug/kg	75.8	22.8	1	12/19/16 15:33	12/20/16 02:45	156-59-2	
trans-1,2-Dichloroethene	<98.2	ug/kg	98.2	29.5	1	12/19/16 15:33	12/20/16 02:45	156-60-5	
Dichlorofluoromethane	<558	ug/kg	558	168	1	12/19/16 15:33	12/20/16 02:45	75-43-4	
1,2-Dichloropropane	<21.2	ug/kg	21.2	21.2	1	12/19/16 15:33	12/20/16 02:45	78-87-5	
1,3-Dichloropropane	<73.0	ug/kg	73.0	21.9	1	12/19/16 15:33	12/20/16 02:45	142-28-9	
2,2-Dichloropropane	<64.8	ug/kg	64.8	19.5	1	12/19/16 15:33	12/20/16 02:45	594-20-7	
1,1-Dichloropropene	<18.5	ug/kg	18.5	18.5	1	12/19/16 15:33	12/20/16 02:45	563-58-6	
cis-1,3-Dichloropropene	<92.9	ug/kg	92.9	27.9	1	12/19/16 15:33	12/20/16 02:45	10061-01-5	
trans-1,3-Dichloropropene	<69.3	ug/kg	69.3	20.8	1	12/19/16 15:33	12/20/16 02:45	10061-02-6	
Diethyl ether (Ethyl ether)	<84.0	ug/kg	84.0	25.2	1	12/19/16 15:33	12/20/16 02:45	60-29-7	
Ethylbenzene	190	ug/kg	64.8	19.5	1	12/19/16 15:33	12/20/16 02:45	100-41-4	
Hexachloro-1,3-butadiene	<192	ug/kg	192	57.5	1	12/19/16 15:33	12/20/16 02:45	87-68-3	
Isopropylbenzene (Cumene)	83.7	ug/kg	72.6	21.8	1	12/19/16 15:33	12/20/16 02:45	98-82-8	
p-Isopropyltoluene	<33.8	ug/kg	33.8	10.2	1	12/19/16 15:33	12/20/16 02:45	99-87-6	
Methylene Chloride	<377	ug/kg	377	113	1	12/19/16 15:33	12/20/16 02:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	<135	ug/kg	135	40.5	1	12/19/16 15:33	12/20/16 02:45	108-10-1	
Methyl-tert-butyl ether	<38.2	ug/kg	38.2	11.5	1	12/19/16 15:33	12/20/16 02:45	1634-04-4	
Naphthalene	705	ug/kg	49.3	14.8	1	12/19/16 15:33	12/20/16 02:45	91-20-3	
n-Propylbenzene	<60.7	ug/kg	60.7	18.2	1	12/19/16 15:33	12/20/16 02:45	103-65-1	
Styrene	<53.0	ug/kg	53.0	15.9	1	12/19/16 15:33	12/20/16 02:45	100-42-5	
1,1,1,2-Tetrachloroethane	<24.2	ug/kg	24.2	24.2	1	12/19/16 15:33	12/20/16 02:45	630-20-6	
1,1,1,2,2-Tetrachloroethane	<13.6	ug/kg	13.6	13.6	1	12/19/16 15:33	12/20/16 02:45	79-34-5	
Tetrachloroethene	<77.9	ug/kg	77.9	23.4	1	12/19/16 15:33	12/20/16 02:45	127-18-4	
Tetrahydrofuran	<1010	ug/kg	1010	304	1	12/19/16 15:33	12/20/16 02:45	109-99-9	
Toluene	131	ug/kg	64.8	19.5	1	12/19/16 15:33	12/20/16 02:45	108-88-3	
1,2,3-Trichlorobenzene	<17.6	ug/kg	17.6	17.6	1	12/19/16 15:33	12/20/16 02:45	87-61-6	
1,2,4-Trichlorobenzene	<18.9	ug/kg	18.9	18.9	1	12/19/16 15:33	12/20/16 02:45	120-82-1	
1,1,1-Trichloroethane	<25.6	ug/kg	25.6	25.6	1	12/19/16 15:33	12/20/16 02:45	71-55-6	
1,1,2-Trichloroethane	<13.2	ug/kg	13.2	13.2	1	12/19/16 15:33	12/20/16 02:45	79-00-5	
Trichloroethene	<58.3	ug/kg	58.3	17.5	1	12/19/16 15:33	12/20/16 02:45	79-01-6	
Trichlorofluoromethane	<205	ug/kg	205	61.5	1	12/19/16 15:33	12/20/16 02:45	75-69-4	
1,2,3-Trichloropropane	<63.4	ug/kg	63.4	63.4	1	12/19/16 15:33	12/20/16 02:45	96-18-4	
1,1,2-Trichlorotrifluoroethane	<147	ug/kg	147	44.1	1	12/19/16 15:33	12/20/16 02:45	76-13-1	
1,2,4-Trimethylbenzene	412	ug/kg	13.5	13.5	1	12/19/16 15:33	12/20/16 02:45	95-63-6	
1,3,5-Trimethylbenzene	<46.9	ug/kg	46.9	14.1	1	12/19/16 15:33	12/20/16 02:45	108-67-8	
Vinyl chloride	<26.2	ug/kg	26.2	7.9	1	12/19/16 15:33	12/20/16 02:45	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB008\_6.5-9**      **Lab ID: 10373615004**      Collected: 12/15/16 16:00      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<b>275</b>	ug/kg	163	49.0	1	12/19/16 15:33	12/20/16 02:45	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	94	%	75-129		1	12/19/16 15:33	12/20/16 02:45	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/19/16 15:33	12/20/16 02:45	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125		1	12/19/16 15:33	12/20/16 02:45	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Sample: **SB008\_15-16** Lab ID: **10373615005** Collected: 12/15/16 16:10 Received: 12/16/16 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	14.8	%	0.10	0.10	1		12/29/16 11:03		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.5	ug/kg	1.5	0.46	1	12/20/16 09:27	12/28/16 13:16	83-32-9	
Acenaphthylene	<1.1	ug/kg	1.1	0.32	1	12/20/16 09:27	12/28/16 13:16	208-96-8	
Anthracene	<1.8	ug/kg	1.8	0.53	1	12/20/16 09:27	12/28/16 13:16	120-12-7	
Benzo(a)anthracene	<1.8	ug/kg	1.8	0.55	1	12/20/16 09:27	12/28/16 13:16	56-55-3	
Benzo(a)pyrene	<1.4	ug/kg	1.4	0.41	1	12/20/16 09:27	12/28/16 13:16	50-32-8	
Benzo(b)fluoranthene	<2.2	ug/kg	2.2	0.67	1	12/20/16 09:27	12/28/16 13:16	205-99-2	
Benzo(g,h,i)perylene	<1.8	ug/kg	1.8	0.54	1	12/20/16 09:27	12/28/16 13:16	191-24-2	
Benzo(k)fluoranthene	<1.9	ug/kg	1.9	0.58	1	12/20/16 09:27	12/28/16 13:16	207-08-9	
Chrysene	<2.2	ug/kg	2.2	0.65	1	12/20/16 09:27	12/28/16 13:16	218-01-9	
Dibenz(a,h)anthracene	<1.3	ug/kg	1.3	0.38	1	12/20/16 09:27	12/28/16 13:16	53-70-3	
Fluoranthene	<3.1	ug/kg	3.1	0.92	1	12/20/16 09:27	12/28/16 13:16	206-44-0	
Fluorene	<1.5	ug/kg	1.5	0.45	1	12/20/16 09:27	12/28/16 13:16	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.9	ug/kg	2.9	0.88	1	12/20/16 09:27	12/28/16 13:16	193-39-5	
Naphthalene	<1.4	ug/kg	1.4	0.42	1	12/20/16 09:27	12/28/16 13:16	91-20-3	
Phenanthrene	<1.6	ug/kg	1.6	0.47	1	12/20/16 09:27	12/28/16 13:16	85-01-8	
Pyrene	<3.2	ug/kg	3.2	0.97	1	12/20/16 09:27	12/28/16 13:16	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	81	%	41-125		1	12/20/16 09:27	12/28/16 13:16	321-60-8	
p-Terphenyl-d14 (S)	70	%	39-125		1	12/20/16 09:27	12/28/16 13:16	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1310	ug/kg	1310	394	1	12/20/16 10:38	12/21/16 06:53	67-64-1	
Allyl chloride	<171	ug/kg	171	51.5	1	12/20/16 10:38	12/21/16 06:53	107-05-1	
Benzene	<17.3	ug/kg	17.3	5.2	1	12/20/16 10:38	12/21/16 06:53	71-43-2	
Bromobenzene	<51.2	ug/kg	51.2	15.4	1	12/20/16 10:38	12/21/16 06:53	108-86-1	
Bromochloromethane	<59.6	ug/kg	59.6	17.9	1	12/20/16 10:38	12/21/16 06:53	74-97-5	
Bromodichloromethane	<56.0	ug/kg	56.0	16.8	1	12/20/16 10:38	12/21/16 06:53	75-27-4	
Bromoform	<172	ug/kg	172	51.7	1	12/20/16 10:38	12/21/16 06:53	75-25-2	
Bromomethane	<203	ug/kg	203	60.9	1	12/20/16 10:38	12/21/16 06:53	74-83-9	
2-Butanone (MEK)	<264	ug/kg	264	79.2	1	12/20/16 10:38	12/21/16 06:53	78-93-3	
n-Butylbenzene	<48.4	ug/kg	48.4	14.5	1	12/20/16 10:38	12/21/16 06:53	104-51-8	
sec-Butylbenzene	<47.2	ug/kg	47.2	14.2	1	12/20/16 10:38	12/21/16 06:53	135-98-8	
tert-Butylbenzene	<63.2	ug/kg	63.2	19.0	1	12/20/16 10:38	12/21/16 06:53	98-06-6	
Carbon tetrachloride	<62.8	ug/kg	62.8	18.8	1	12/20/16 10:38	12/21/16 06:53	56-23-5	
Chlorobenzene	<34.8	ug/kg	34.8	10.4	1	12/20/16 10:38	12/21/16 06:53	108-90-7	
Chloroethane	<316	ug/kg	316	94.8	1	12/20/16 10:38	12/21/16 06:53	75-00-3	
Chloroform	<97.1	ug/kg	97.1	29.2	1	12/20/16 10:38	12/21/16 06:53	67-66-3	
Chloromethane	<96.7	ug/kg	96.7	29.0	1	12/20/16 10:38	12/21/16 06:53	74-87-3	
2-Chlorotoluene	<55.2	ug/kg	55.2	16.6	1	12/20/16 10:38	12/21/16 06:53	95-49-8	
4-Chlorotoluene	<52.4	ug/kg	52.4	15.7	1	12/20/16 10:38	12/21/16 06:53	106-43-4	
1,2-Dibromo-3-chloropropane	<117	ug/kg	117	117	1	12/20/16 10:38	12/21/16 06:53	96-12-8	
Dibromochloromethane	<171	ug/kg	171	51.5	1	12/20/16 10:38	12/21/16 06:53	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Sample: **SB008\_15-16** Lab ID: **10373615005** Collected: 12/15/16 16:10 Received: 12/16/16 16:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<22.6	ug/kg	22.6	22.6	1	12/20/16 10:38	12/21/16 06:53	106-93-4	
Dibromomethane	<77.9	ug/kg	77.9	23.4	1	12/20/16 10:38	12/21/16 06:53	74-95-3	
1,2-Dichlorobenzene	<11.6	ug/kg	11.6	11.6	1	12/20/16 10:38	12/21/16 06:53	95-50-1	
1,3-Dichlorobenzene	<17.6	ug/kg	17.6	11.6	1	12/20/16 10:38	12/21/16 06:53	541-73-1	
1,4-Dichlorobenzene	<58.0	ug/kg	58.0	17.4	1	12/20/16 10:38	12/21/16 06:53	106-46-7	
Dichlorodifluoromethane	<61.2	ug/kg	61.2	18.4	1	12/20/16 10:38	12/21/16 06:53	75-71-8	
1,1-Dichloroethane	<23.3	ug/kg	23.3	23.3	1	12/20/16 10:38	12/21/16 06:53	75-34-3	
1,2-Dichloroethane	<19.0	ug/kg	19.0	19.0	1	12/20/16 10:38	12/21/16 06:53	107-06-2	
1,1-Dichloroethene	<15.2	ug/kg	15.2	15.2	1	12/20/16 10:38	12/21/16 06:53	75-35-4	
cis-1,2-Dichloroethene	<74.3	ug/kg	74.3	22.3	1	12/20/16 10:38	12/21/16 06:53	156-59-2	
trans-1,2-Dichloroethene	<96.3	ug/kg	96.3	28.9	1	12/20/16 10:38	12/21/16 06:53	156-60-5	
Dichlorofluoromethane	<548	ug/kg	548	164	1	12/20/16 10:38	12/21/16 06:53	75-43-4	
1,2-Dichloropropane	<20.8	ug/kg	20.8	20.8	1	12/20/16 10:38	12/21/16 06:53	78-87-5	
1,3-Dichloropropane	<71.5	ug/kg	71.5	21.5	1	12/20/16 10:38	12/21/16 06:53	142-28-9	
2,2-Dichloropropane	<63.5	ug/kg	63.5	19.1	1	12/20/16 10:38	12/21/16 06:53	594-20-7	
1,1-Dichloropropene	<18.1	ug/kg	18.1	18.1	1	12/20/16 10:38	12/21/16 06:53	563-58-6	
cis-1,3-Dichloropropene	<91.1	ug/kg	91.1	27.4	1	12/20/16 10:38	12/21/16 06:53	10061-01-5	
trans-1,3-Dichloropropene	<67.9	ug/kg	67.9	20.4	1	12/20/16 10:38	12/21/16 06:53	10061-02-6	
Diethyl ether (Ethyl ether)	<82.3	ug/kg	82.3	24.7	1	12/20/16 10:38	12/21/16 06:53	60-29-7	
Ethylbenzene	<63.5	ug/kg	63.5	19.1	1	12/20/16 10:38	12/21/16 06:53	100-41-4	
Hexachloro-1,3-butadiene	<188	ug/kg	188	56.4	1	12/20/16 10:38	12/21/16 06:53	87-68-3	
Isopropylbenzene (Cumene)	<71.1	ug/kg	71.1	21.4	1	12/20/16 10:38	12/21/16 06:53	98-82-8	
p-Isopropyltoluene	<33.2	ug/kg	33.2	10	1	12/20/16 10:38	12/21/16 06:53	99-87-6	
Methylene Chloride	<370	ug/kg	370	111	1	12/20/16 10:38	12/21/16 06:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	<132	ug/kg	132	39.7	1	12/20/16 10:38	12/21/16 06:53	108-10-1	
Methyl-tert-butyl ether	<37.4	ug/kg	37.4	11.2	1	12/20/16 10:38	12/21/16 06:53	1634-04-4	
Naphthalene	<48.4	ug/kg	48.4	14.5	1	12/20/16 10:38	12/21/16 06:53	91-20-3	
n-Propylbenzene	<59.6	ug/kg	59.6	17.9	1	12/20/16 10:38	12/21/16 06:53	103-65-1	
Styrene	<52.0	ug/kg	52.0	15.6	1	12/20/16 10:38	12/21/16 06:53	100-42-5	
1,1,1,2-Tetrachloroethane	<23.8	ug/kg	23.8	23.8	1	12/20/16 10:38	12/21/16 06:53	630-20-6	
1,1,2,2-Tetrachloroethane	<13.3	ug/kg	13.3	13.3	1	12/20/16 10:38	12/21/16 06:53	79-34-5	
Tetrachloroethene	<76.3	ug/kg	76.3	22.9	1	12/20/16 10:38	12/21/16 06:53	127-18-4	
Tetrahydrofuran	<991	ug/kg	991	298	1	12/20/16 10:38	12/21/16 06:53	109-99-9	
Toluene	<63.5	ug/kg	63.5	19.1	1	12/20/16 10:38	12/21/16 06:53	108-88-3	
1,2,3-Trichlorobenzene	<17.3	ug/kg	17.3	17.3	1	12/20/16 10:38	12/21/16 06:53	87-61-6	
1,2,4-Trichlorobenzene	<18.5	ug/kg	18.5	18.5	1	12/20/16 10:38	12/21/16 06:53	120-82-1	
1,1,1-Trichloroethane	<25.1	ug/kg	25.1	25.1	1	12/20/16 10:38	12/21/16 06:53	71-55-6	
1,1,2-Trichloroethane	<13.0	ug/kg	13.0	13.0	1	12/20/16 10:38	12/21/16 06:53	79-00-5	
Trichloroethene	<57.2	ug/kg	57.2	17.2	1	12/20/16 10:38	12/21/16 06:53	79-01-6	
Trichlorofluoromethane	<201	ug/kg	201	60.3	1	12/20/16 10:38	12/21/16 06:53	75-69-4	
1,2,3-Trichloropropane	<62.2	ug/kg	62.2	62.2	1	12/20/16 10:38	12/21/16 06:53	96-18-4	
1,1,2-Trichlorotrifluoroethane	<144	ug/kg	144	43.2	1	12/20/16 10:38	12/21/16 06:53	76-13-1	
1,2,4-Trimethylbenzene	<13.2	ug/kg	13.2	13.2	1	12/20/16 10:38	12/21/16 06:53	95-63-6	
1,3,5-Trimethylbenzene	<46.0	ug/kg	46.0	13.8	1	12/20/16 10:38	12/21/16 06:53	108-67-8	
Vinyl chloride	<25.7	ug/kg	25.7	7.7	1	12/20/16 10:38	12/21/16 06:53	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB008\_15-16**      **Lab ID: 10373615005**      Collected: 12/15/16 16:10      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<160	ug/kg	160	48.0	1	12/20/16 10:38	12/21/16 06:53	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	94	%	75-129		1	12/20/16 10:38	12/21/16 06:53	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/20/16 10:38	12/21/16 06:53	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/20/16 10:38	12/21/16 06:53	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Sample Project No.: 10373615

Sample: **SB008\_18-20** Lab ID: **10373615006** Collected: 12/15/16 16:15 Received: 12/16/16 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>30.8</b>	%	0.10	0.10	1		12/29/16 11:04		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.9	ug/kg	1.9	0.56	1	12/20/16 09:27	12/28/16 13:37	83-32-9	
Acenaphthylene	<1.3	ug/kg	1.3	0.39	1	12/20/16 09:27	12/28/16 13:37	208-96-8	
Anthracene	<2.2	ug/kg	2.2	0.66	1	12/20/16 09:27	12/28/16 13:37	120-12-7	
Benzo(a)anthracene	<2.3	ug/kg	2.3	0.68	1	12/20/16 09:27	12/28/16 13:37	56-55-3	
Benzo(a)pyrene	<1.7	ug/kg	1.7	0.50	1	12/20/16 09:27	12/28/16 13:37	50-32-8	
Benzo(b)fluoranthene	<2.8	ug/kg	2.8	0.83	1	12/20/16 09:27	12/28/16 13:37	205-99-2	
Benzo(g,h,i)perylene	<2.2	ug/kg	2.2	0.66	1	12/20/16 09:27	12/28/16 13:37	191-24-2	
Benzo(k)fluoranthene	<2.4	ug/kg	2.4	0.71	1	12/20/16 09:27	12/28/16 13:37	207-08-9	
Chrysene	<2.7	ug/kg	2.7	0.80	1	12/20/16 09:27	12/28/16 13:37	218-01-9	
Dibenz(a,h)anthracene	<1.6	ug/kg	1.6	0.47	1	12/20/16 09:27	12/28/16 13:37	53-70-3	
Fluoranthene	<3.8	ug/kg	3.8	1.1	1	12/20/16 09:27	12/28/16 13:37	206-44-0	
Fluorene	<1.8	ug/kg	1.8	0.55	1	12/20/16 09:27	12/28/16 13:37	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.6	ug/kg	3.6	1.1	1	12/20/16 09:27	12/28/16 13:37	193-39-5	
Naphthalene	<1.7	ug/kg	1.7	0.52	1	12/20/16 09:27	12/28/16 13:37	91-20-3	
Phenanthrene	<1.9	ug/kg	1.9	0.58	1	12/20/16 09:27	12/28/16 13:37	85-01-8	
Pyrene	<4.0	ug/kg	4.0	1.2	1	12/20/16 09:27	12/28/16 13:37	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	71	%	41-125		1	12/20/16 09:27	12/28/16 13:37	321-60-8	
p-Terphenyl-d14 (S)	74	%	39-125		1	12/20/16 09:27	12/28/16 13:37	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1630	ug/kg	1630	490	1	12/20/16 10:38	12/21/16 07:09	67-64-1	
Allyl chloride	<213	ug/kg	213	64.0	1	12/20/16 10:38	12/21/16 07:09	107-05-1	
Benzene	<21.5	ug/kg	21.5	6.4	1	12/20/16 10:38	12/21/16 07:09	71-43-2	
Bromobenzene	<63.6	ug/kg	63.6	19.1	1	12/20/16 10:38	12/21/16 07:09	108-86-1	
Bromochloromethane	<74.1	ug/kg	74.1	22.2	1	12/20/16 10:38	12/21/16 07:09	74-97-5	
Bromodichloromethane	<69.6	ug/kg	69.6	20.9	1	12/20/16 10:38	12/21/16 07:09	75-27-4	
Bromoform	<214	ug/kg	214	64.3	1	12/20/16 10:38	12/21/16 07:09	75-25-2	
Bromomethane	<252	ug/kg	252	75.7	1	12/20/16 10:38	12/21/16 07:09	74-83-9	
2-Butanone (MEK)	<328	ug/kg	328	98.5	1	12/20/16 10:38	12/21/16 07:09	78-93-3	
n-Butylbenzene	<60.2	ug/kg	60.2	18.1	1	12/20/16 10:38	12/21/16 07:09	104-51-8	
sec-Butylbenzene	<58.7	ug/kg	58.7	17.6	1	12/20/16 10:38	12/21/16 07:09	135-98-8	
tert-Butylbenzene	<78.5	ug/kg	78.5	23.6	1	12/20/16 10:38	12/21/16 07:09	98-06-6	
Carbon tetrachloride	<78.1	ug/kg	78.1	23.4	1	12/20/16 10:38	12/21/16 07:09	56-23-5	
Chlorobenzene	<43.3	ug/kg	43.3	13.0	1	12/20/16 10:38	12/21/16 07:09	108-90-7	
Chloroethane	<393	ug/kg	393	118	1	12/20/16 10:38	12/21/16 07:09	75-00-3	
Chloroform	<121	ug/kg	121	36.3	1	12/20/16 10:38	12/21/16 07:09	67-66-3	
Chloromethane	<120	ug/kg	120	36.1	1	12/20/16 10:38	12/21/16 07:09	74-87-3	
2-Chlorotoluene	<68.6	ug/kg	68.6	20.6	1	12/20/16 10:38	12/21/16 07:09	95-49-8	
4-Chlorotoluene	<65.1	ug/kg	65.1	19.6	1	12/20/16 10:38	12/21/16 07:09	106-43-4	
1,2-Dibromo-3-chloropropane	<146	ug/kg	146	146	1	12/20/16 10:38	12/21/16 07:09	96-12-8	
Dibromochloromethane	<213	ug/kg	213	64.0	1	12/20/16 10:38	12/21/16 07:09	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Sample: **SB008\_18-20** Lab ID: **10373615006** Collected: 12/15/16 16:15 Received: 12/16/16 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
1,2-Dibromoethane (EDB)	<28.1	ug/kg	28.1	28.1	1	12/20/16 10:38	12/21/16 07:09	106-93-4	
Dibromomethane	<96.9	ug/kg	96.9	29.1	1	12/20/16 10:38	12/21/16 07:09	74-95-3	
1,2-Dichlorobenzene	<14.4	ug/kg	14.4	14.4	1	12/20/16 10:38	12/21/16 07:09	95-50-1	
1,3-Dichlorobenzene	<21.9	ug/kg	21.9	14.4	1	12/20/16 10:38	12/21/16 07:09	541-73-1	
1,4-Dichlorobenzene	<72.1	ug/kg	72.1	21.6	1	12/20/16 10:38	12/21/16 07:09	106-46-7	
Dichlorodifluoromethane	<76.1	ug/kg	76.1	22.8	1	12/20/16 10:38	12/21/16 07:09	75-71-8	M1
1,1-Dichloroethane	<29.0	ug/kg	29.0	29.0	1	12/20/16 10:38	12/21/16 07:09	75-34-3	
1,2-Dichloroethane	<23.6	ug/kg	23.6	23.6	1	12/20/16 10:38	12/21/16 07:09	107-06-2	
1,1-Dichloroethene	<19.0	ug/kg	19.0	19.0	1	12/20/16 10:38	12/21/16 07:09	75-35-4	
cis-1,2-Dichloroethene	<92.5	ug/kg	92.5	27.8	1	12/20/16 10:38	12/21/16 07:09	156-59-2	
trans-1,2-Dichloroethene	<120	ug/kg	120	36.0	1	12/20/16 10:38	12/21/16 07:09	156-60-5	
Dichlorofluoromethane	<681	ug/kg	681	205	1	12/20/16 10:38	12/21/16 07:09	75-43-4	
1,2-Dichloropropane	<25.8	ug/kg	25.8	25.8	1	12/20/16 10:38	12/21/16 07:09	78-87-5	
1,3-Dichloropropane	<89.0	ug/kg	89.0	26.7	1	12/20/16 10:38	12/21/16 07:09	142-28-9	
2,2-Dichloropropane	<79.0	ug/kg	79.0	23.7	1	12/20/16 10:38	12/21/16 07:09	594-20-7	
1,1-Dichloropropene	<22.5	ug/kg	22.5	22.5	1	12/20/16 10:38	12/21/16 07:09	563-58-6	
cis-1,3-Dichloropropene	<113	ug/kg	113	34.0	1	12/20/16 10:38	12/21/16 07:09	10061-01-5	
trans-1,3-Dichloropropene	<84.5	ug/kg	84.5	25.4	1	12/20/16 10:38	12/21/16 07:09	10061-02-6	
Diethyl ether (Ethyl ether)	<102	ug/kg	102	30.8	1	12/20/16 10:38	12/21/16 07:09	60-29-7	
Ethylbenzene	<79.0	ug/kg	79.0	23.7	1	12/20/16 10:38	12/21/16 07:09	100-41-4	
Hexachloro-1,3-butadiene	<234	ug/kg	234	70.2	1	12/20/16 10:38	12/21/16 07:09	87-68-3	
Isopropylbenzene (Cumene)	<88.5	ug/kg	88.5	26.6	1	12/20/16 10:38	12/21/16 07:09	98-82-8	
p-Isopropyltoluene	<41.3	ug/kg	41.3	12.4	1	12/20/16 10:38	12/21/16 07:09	99-87-6	
Methylene Chloride	<460	ug/kg	460	138	1	12/20/16 10:38	12/21/16 07:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	<165	ug/kg	165	49.4	1	12/20/16 10:38	12/21/16 07:09	108-10-1	
Methyl-tert-butyl ether	<46.5	ug/kg	46.5	14.0	1	12/20/16 10:38	12/21/16 07:09	1634-04-4	
Naphthalene	<60.2	ug/kg	60.2	18.1	1	12/20/16 10:38	12/21/16 07:09	91-20-3	
n-Propylbenzene	<74.1	ug/kg	74.1	22.2	1	12/20/16 10:38	12/21/16 07:09	103-65-1	
Styrene	<64.6	ug/kg	64.6	19.4	1	12/20/16 10:38	12/21/16 07:09	100-42-5	
1,1,1,2-Tetrachloroethane	<29.6	ug/kg	29.6	29.6	1	12/20/16 10:38	12/21/16 07:09	630-20-6	
1,1,1,2,2-Tetrachloroethane	<16.6	ug/kg	16.6	16.6	1	12/20/16 10:38	12/21/16 07:09	79-34-5	
Tetrachloroethene	<95.0	ug/kg	95.0	28.5	1	12/20/16 10:38	12/21/16 07:09	127-18-4	
Tetrahydrofuran	<1230	ug/kg	1230	370	1	12/20/16 10:38	12/21/16 07:09	109-99-9	
Toluene	<79.0	ug/kg	79.0	23.7	1	12/20/16 10:38	12/21/16 07:09	108-88-3	
1,2,3-Trichlorobenzene	<21.5	ug/kg	21.5	21.5	1	12/20/16 10:38	12/21/16 07:09	87-61-6	
1,2,4-Trichlorobenzene	<23.0	ug/kg	23.0	23.0	1	12/20/16 10:38	12/21/16 07:09	120-82-1	
1,1,1-Trichloroethane	<31.2	ug/kg	31.2	31.2	1	12/20/16 10:38	12/21/16 07:09	71-55-6	
1,1,2-Trichloroethane	<16.1	ug/kg	16.1	16.1	1	12/20/16 10:38	12/21/16 07:09	79-00-5	
Trichloroethene	<71.1	ug/kg	71.1	21.3	1	12/20/16 10:38	12/21/16 07:09	79-01-6	
Trichlorofluoromethane	<250	ug/kg	250	74.9	1	12/20/16 10:38	12/21/16 07:09	75-69-4	
1,2,3-Trichloropropane	<77.3	ug/kg	77.3	77.3	1	12/20/16 10:38	12/21/16 07:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	<179	ug/kg	179	53.7	1	12/20/16 10:38	12/21/16 07:09	76-13-1	
1,2,4-Trimethylbenzene	<16.4	ug/kg	16.4	16.4	1	12/20/16 10:38	12/21/16 07:09	95-63-6	
1,3,5-Trimethylbenzene	<57.2	ug/kg	57.2	17.2	1	12/20/16 10:38	12/21/16 07:09	108-67-8	
Vinyl chloride	<31.9	ug/kg	31.9	9.6	1	12/20/16 10:38	12/21/16 07:09	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB008\_18-20**      **Lab ID: 10373615006**      Collected: 12/15/16 16:15      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<199	ug/kg	199	59.7	1	12/20/16 10:38	12/21/16 07:09	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	96	%	75-129		1	12/20/16 10:38	12/21/16 07:09	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/20/16 10:38	12/21/16 07:09	2037-26-5	
4-Bromofluorobenzene (S)	95	%	75-125		1	12/20/16 10:38	12/21/16 07:09	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB009\_5-10**      **Lab ID: 10373615007**      Collected: 12/15/16 16:20      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	12.2	%	0.10	0.10	1		12/29/16 11:04		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	22.3	ug/kg	1.5	0.44	1	12/20/16 09:27	12/28/16 13:57	83-32-9	
Acenaphthylene	30.7	ug/kg	1.0	0.31	1	12/20/16 09:27	12/28/16 13:57	208-96-8	
Anthracene	30.3	ug/kg	1.7	0.52	1	12/20/16 09:27	12/28/16 13:57	120-12-7	
Benzo(a)anthracene	48.9	ug/kg	1.8	0.53	1	12/20/16 09:27	12/28/16 13:57	56-55-3	
Benzo(a)pyrene	75.7	ug/kg	1.3	0.39	1	12/20/16 09:27	12/28/16 13:57	50-32-8	
Benzo(b)fluoranthene	72.3	ug/kg	2.2	0.65	1	12/20/16 09:27	12/28/16 13:57	205-99-2	
Benzo(g,h,i)perylene	68.4	ug/kg	1.7	0.52	1	12/20/16 09:27	12/28/16 13:57	191-24-2	
Benzo(k)fluoranthene	21.2	ug/kg	1.9	0.56	1	12/20/16 09:27	12/28/16 13:57	207-08-9	
Chrysene	42.6	ug/kg	2.1	0.63	1	12/20/16 09:27	12/28/16 13:57	218-01-9	
Dibenz(a,h)anthracene	18.9	ug/kg	1.2	0.37	1	12/20/16 09:27	12/28/16 13:57	53-70-3	
Fluoranthene	72.2	ug/kg	3.0	0.89	1	12/20/16 09:27	12/28/16 13:57	206-44-0	
Fluorene	14.9	ug/kg	1.5	0.44	1	12/20/16 09:27	12/28/16 13:57	86-73-7	
Indeno(1,2,3-cd)pyrene	49.9	ug/kg	2.8	0.85	1	12/20/16 09:27	12/28/16 13:57	193-39-5	
Naphthalene	38.3	ug/kg	1.4	0.41	1	12/20/16 09:27	12/28/16 13:57	91-20-3	
Phenanthrene	68.1	ug/kg	1.5	0.46	1	12/20/16 09:27	12/28/16 13:57	85-01-8	
Pyrene	77.3	ug/kg	3.1	0.94	1	12/20/16 09:27	12/28/16 13:57	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	74	%	41-125		1	12/20/16 09:27	12/28/16 13:57	321-60-8	
p-Terphenyl-d14 (S)	72	%	39-125		1	12/20/16 09:27	12/28/16 13:57	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1290	ug/kg	1290	386	1	12/20/16 10:38	12/21/16 07:25	67-64-1	
Allyl chloride	<168	ug/kg	168	50.5	1	12/20/16 10:38	12/21/16 07:25	107-05-1	
Benzene	17.1	ug/kg	16.9	5.1	1	12/20/16 10:38	12/21/16 07:25	71-43-2	
Bromobenzene	<50.2	ug/kg	50.2	15.1	1	12/20/16 10:38	12/21/16 07:25	108-86-1	
Bromochloromethane	<58.4	ug/kg	58.4	17.6	1	12/20/16 10:38	12/21/16 07:25	74-97-5	
Bromodichloromethane	<54.9	ug/kg	54.9	16.5	1	12/20/16 10:38	12/21/16 07:25	75-27-4	
Bromoform	<169	ug/kg	169	50.8	1	12/20/16 10:38	12/21/16 07:25	75-25-2	
Bromomethane	<199	ug/kg	199	59.7	1	12/20/16 10:38	12/21/16 07:25	74-83-9	
2-Butanone (MEK)	<259	ug/kg	259	77.7	1	12/20/16 10:38	12/21/16 07:25	78-93-3	
n-Butylbenzene	<47.5	ug/kg	47.5	14.3	1	12/20/16 10:38	12/21/16 07:25	104-51-8	
sec-Butylbenzene	<46.3	ug/kg	46.3	13.9	1	12/20/16 10:38	12/21/16 07:25	135-98-8	
tert-Butylbenzene	<62.0	ug/kg	62.0	18.6	1	12/20/16 10:38	12/21/16 07:25	98-06-6	
Carbon tetrachloride	<61.6	ug/kg	61.6	18.5	1	12/20/16 10:38	12/21/16 07:25	56-23-5	
Chlorobenzene	<34.1	ug/kg	34.1	10.2	1	12/20/16 10:38	12/21/16 07:25	108-90-7	
Chloroethane	<310	ug/kg	310	93.1	1	12/20/16 10:38	12/21/16 07:25	75-00-3	
Chloroform	<95.3	ug/kg	95.3	28.6	1	12/20/16 10:38	12/21/16 07:25	67-66-3	
Chloromethane	<94.9	ug/kg	94.9	28.5	1	12/20/16 10:38	12/21/16 07:25	74-87-3	
2-Chlorotoluene	<54.1	ug/kg	54.1	16.3	1	12/20/16 10:38	12/21/16 07:25	95-49-8	
4-Chlorotoluene	<51.4	ug/kg	51.4	15.4	1	12/20/16 10:38	12/21/16 07:25	106-43-4	
1,2-Dibromo-3-chloropropane	<115	ug/kg	115	115	1	12/20/16 10:38	12/21/16 07:25	96-12-8	
Dibromochloromethane	<168	ug/kg	168	50.5	1	12/20/16 10:38	12/21/16 07:25	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Sample: **SB009\_5-10** Lab ID: **10373615007** Collected: 12/15/16 16:20 Received: 12/16/16 16:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<22.1	ug/kg	22.1	22.1	1	12/20/16 10:38	12/21/16 07:25	106-93-4	
Dibromomethane	<76.5	ug/kg	76.5	23.0	1	12/20/16 10:38	12/21/16 07:25	74-95-3	
1,2-Dichlorobenzene	<11.4	ug/kg	11.4	11.4	1	12/20/16 10:38	12/21/16 07:25	95-50-1	
1,3-Dichlorobenzene	<17.3	ug/kg	17.3	11.4	1	12/20/16 10:38	12/21/16 07:25	541-73-1	
1,4-Dichlorobenzene	<56.9	ug/kg	56.9	17.1	1	12/20/16 10:38	12/21/16 07:25	106-46-7	
Dichlorodifluoromethane	<60.0	ug/kg	60.0	18.0	1	12/20/16 10:38	12/21/16 07:25	75-71-8	
1,1-Dichloroethane	<22.9	ug/kg	22.9	22.9	1	12/20/16 10:38	12/21/16 07:25	75-34-3	
1,2-Dichloroethane	<18.6	ug/kg	18.6	18.6	1	12/20/16 10:38	12/21/16 07:25	107-06-2	
1,1-Dichloroethene	<15.0	ug/kg	15.0	15.0	1	12/20/16 10:38	12/21/16 07:25	75-35-4	
cis-1,2-Dichloroethene	<73.0	ug/kg	73.0	21.9	1	12/20/16 10:38	12/21/16 07:25	156-59-2	
trans-1,2-Dichloroethene	<94.5	ug/kg	94.5	28.4	1	12/20/16 10:38	12/21/16 07:25	156-60-5	
Dichlorofluoromethane	<537	ug/kg	537	161	1	12/20/16 10:38	12/21/16 07:25	75-43-4	
1,2-Dichloropropane	<20.4	ug/kg	20.4	20.4	1	12/20/16 10:38	12/21/16 07:25	78-87-5	
1,3-Dichloropropane	<70.2	ug/kg	70.2	21.1	1	12/20/16 10:38	12/21/16 07:25	142-28-9	
2,2-Dichloropropane	<62.4	ug/kg	62.4	18.7	1	12/20/16 10:38	12/21/16 07:25	594-20-7	
1,1-Dichloropropene	<17.8	ug/kg	17.8	17.8	1	12/20/16 10:38	12/21/16 07:25	563-58-6	
cis-1,3-Dichloropropene	<89.4	ug/kg	89.4	26.9	1	12/20/16 10:38	12/21/16 07:25	10061-01-5	
trans-1,3-Dichloropropene	<66.7	ug/kg	66.7	20.0	1	12/20/16 10:38	12/21/16 07:25	10061-02-6	
Diethyl ether (Ethyl ether)	<80.8	ug/kg	80.8	24.3	1	12/20/16 10:38	12/21/16 07:25	60-29-7	
Ethylbenzene	<62.4	ug/kg	62.4	18.7	1	12/20/16 10:38	12/21/16 07:25	100-41-4	
Hexachloro-1,3-butadiene	<184	ug/kg	184	55.4	1	12/20/16 10:38	12/21/16 07:25	87-68-3	
Isopropylbenzene (Cumene)	<69.8	ug/kg	69.8	21.0	1	12/20/16 10:38	12/21/16 07:25	98-82-8	
p-Isopropyltoluene	<32.6	ug/kg	32.6	9.8	1	12/20/16 10:38	12/21/16 07:25	99-87-6	
Methylene Chloride	<363	ug/kg	363	109	1	12/20/16 10:38	12/21/16 07:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	<130	ug/kg	130	39.0	1	12/20/16 10:38	12/21/16 07:25	108-10-1	
Methyl-tert-butyl ether	<36.7	ug/kg	36.7	11.0	1	12/20/16 10:38	12/21/16 07:25	1634-04-4	
Naphthalene	77.6	ug/kg	47.5	14.3	1	12/20/16 10:38	12/21/16 07:25	91-20-3	
n-Propylbenzene	<58.4	ug/kg	58.4	17.6	1	12/20/16 10:38	12/21/16 07:25	103-65-1	
Styrene	<51.0	ug/kg	51.0	15.3	1	12/20/16 10:38	12/21/16 07:25	100-42-5	
1,1,1,2-Tetrachloroethane	<23.3	ug/kg	23.3	23.3	1	12/20/16 10:38	12/21/16 07:25	630-20-6	
1,1,1,2,2-Tetrachloroethane	<13.1	ug/kg	13.1	13.1	1	12/20/16 10:38	12/21/16 07:25	79-34-5	
Tetrachloroethene	<74.9	ug/kg	74.9	22.5	1	12/20/16 10:38	12/21/16 07:25	127-18-4	
Tetrahydrofuran	<973	ug/kg	973	292	1	12/20/16 10:38	12/21/16 07:25	109-99-9	
Toluene	<62.4	ug/kg	62.4	18.7	1	12/20/16 10:38	12/21/16 07:25	108-88-3	
1,2,3-Trichlorobenzene	<17.0	ug/kg	17.0	17.0	1	12/20/16 10:38	12/21/16 07:25	87-61-6	
1,2,4-Trichlorobenzene	<18.1	ug/kg	18.1	18.1	1	12/20/16 10:38	12/21/16 07:25	120-82-1	
1,1,1-Trichloroethane	<24.6	ug/kg	24.6	24.6	1	12/20/16 10:38	12/21/16 07:25	71-55-6	
1,1,2-Trichloroethane	<12.7	ug/kg	12.7	12.7	1	12/20/16 10:38	12/21/16 07:25	79-00-5	
Trichloroethene	<56.1	ug/kg	56.1	16.8	1	12/20/16 10:38	12/21/16 07:25	79-01-6	
Trichlorofluoromethane	<197	ug/kg	197	59.1	1	12/20/16 10:38	12/21/16 07:25	75-69-4	
1,2,3-Trichloropropane	<61.0	ug/kg	61.0	61.0	1	12/20/16 10:38	12/21/16 07:25	96-18-4	
1,1,2-Trichlorotrifluoroethane	<141	ug/kg	141	42.4	1	12/20/16 10:38	12/21/16 07:25	76-13-1	
1,2,4-Trimethylbenzene	16.3	ug/kg	13.0	13.0	1	12/20/16 10:38	12/21/16 07:25	95-63-6	
1,3,5-Trimethylbenzene	<45.1	ug/kg	45.1	13.5	1	12/20/16 10:38	12/21/16 07:25	108-67-8	
Vinyl chloride	<25.2	ug/kg	25.2	7.6	1	12/20/16 10:38	12/21/16 07:25	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB009\_5-10**      **Lab ID: 10373615007**      Collected: 12/15/16 16:20      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<157	ug/kg	157	47.1	1	12/20/16 10:38	12/21/16 07:25	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	93	%	75-129		1	12/20/16 10:38	12/21/16 07:25	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/20/16 10:38	12/21/16 07:25	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		1	12/20/16 10:38	12/21/16 07:25	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Sample: **SB009\_13.5-15.5** Lab ID: **10373615008** Collected: 12/15/16 16:30 Received: 12/16/16 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>24.8</b>	%	0.10	0.10	1		12/29/16 11:04		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<b>230</b>	ug/kg	1.7	0.52	1	12/20/16 09:27	12/28/16 14:18	83-32-9	
Acenaphthylene	<b>34.9</b>	ug/kg	1.2	0.36	1	12/20/16 09:27	12/28/16 14:18	208-96-8	
Anthracene	<b>176</b>	ug/kg	2.0	0.60	1	12/20/16 09:27	12/28/16 14:18	120-12-7	
Benzo(a)anthracene	<b>334</b>	ug/kg	2.1	0.62	1	12/20/16 09:27	12/28/16 14:18	56-55-3	
Benzo(a)pyrene	<b>298</b>	ug/kg	1.5	0.46	1	12/20/16 09:27	12/28/16 14:18	50-32-8	
Benzo(b)fluoranthene	<b>315</b>	ug/kg	2.5	0.76	1	12/20/16 09:27	12/28/16 14:18	205-99-2	
Benzo(g,h,i)perylene	<b>173</b>	ug/kg	2.0	0.61	1	12/20/16 09:27	12/28/16 14:18	191-24-2	
Benzo(k)fluoranthene	<b>94.2</b>	ug/kg	2.2	0.65	1	12/20/16 09:27	12/28/16 14:18	207-08-9	
Chrysene	<b>303</b>	ug/kg	2.5	0.74	1	12/20/16 09:27	12/28/16 14:18	218-01-9	
Dibenz(a,h)anthracene	<b>45.8</b>	ug/kg	1.4	0.43	1	12/20/16 09:27	12/28/16 14:18	53-70-3	
Fluoranthene	<b>677</b>	ug/kg	17.3	5.2	5	12/20/16 09:27	12/28/16 19:07	206-44-0	
Fluorene	<b>130</b>	ug/kg	1.7	0.51	1	12/20/16 09:27	12/28/16 14:18	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>139</b>	ug/kg	3.3	1.0	1	12/20/16 09:27	12/28/16 14:18	193-39-5	
Naphthalene	<b>69.7</b>	ug/kg	1.6	0.47	1	12/20/16 09:27	12/28/16 14:18	91-20-3	
Phenanthrene	<b>727</b>	ug/kg	8.9	2.7	5	12/20/16 09:27	12/28/16 19:07	85-01-8	
Pyrene	<b>698</b>	ug/kg	18.3	5.5	5	12/20/16 09:27	12/28/16 19:07	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	63	%	41-125		1	12/20/16 09:27	12/28/16 14:18	321-60-8	
p-Terphenyl-d14 (S)	60	%	39-125		1	12/20/16 09:27	12/28/16 14:18	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<b>&lt;1630</b>	ug/kg	1630	490	1	12/20/16 10:38	12/21/16 07:59	67-64-1	
Allyl chloride	<b>&lt;213</b>	ug/kg	213	64.0	1	12/20/16 10:38	12/21/16 07:59	107-05-1	
Benzene	<b>&lt;21.5</b>	ug/kg	21.5	6.4	1	12/20/16 10:38	12/21/16 07:59	71-43-2	
Bromobenzene	<b>&lt;63.6</b>	ug/kg	63.6	19.1	1	12/20/16 10:38	12/21/16 07:59	108-86-1	
Bromochloromethane	<b>&lt;74.1</b>	ug/kg	74.1	22.2	1	12/20/16 10:38	12/21/16 07:59	74-97-5	
Bromodichloromethane	<b>&lt;69.6</b>	ug/kg	69.6	20.9	1	12/20/16 10:38	12/21/16 07:59	75-27-4	
Bromoform	<b>&lt;214</b>	ug/kg	214	64.3	1	12/20/16 10:38	12/21/16 07:59	75-25-2	
Bromomethane	<b>&lt;252</b>	ug/kg	252	75.7	1	12/20/16 10:38	12/21/16 07:59	74-83-9	
2-Butanone (MEK)	<b>&lt;328</b>	ug/kg	328	98.5	1	12/20/16 10:38	12/21/16 07:59	78-93-3	
n-Butylbenzene	<b>&lt;60.1</b>	ug/kg	60.1	18.1	1	12/20/16 10:38	12/21/16 07:59	104-51-8	
sec-Butylbenzene	<b>&lt;58.7</b>	ug/kg	58.7	17.6	1	12/20/16 10:38	12/21/16 07:59	135-98-8	
tert-Butylbenzene	<b>&lt;78.5</b>	ug/kg	78.5	23.6	1	12/20/16 10:38	12/21/16 07:59	98-06-6	
Carbon tetrachloride	<b>&lt;78.0</b>	ug/kg	78.0	23.4	1	12/20/16 10:38	12/21/16 07:59	56-23-5	
Chlorobenzene	<b>&lt;43.2</b>	ug/kg	43.2	13.0	1	12/20/16 10:38	12/21/16 07:59	108-90-7	
Chloroethane	<b>&lt;393</b>	ug/kg	393	118	1	12/20/16 10:38	12/21/16 07:59	75-00-3	
Chloroform	<b>&lt;121</b>	ug/kg	121	36.3	1	12/20/16 10:38	12/21/16 07:59	67-66-3	
Chloromethane	<b>&lt;120</b>	ug/kg	120	36.1	1	12/20/16 10:38	12/21/16 07:59	74-87-3	
2-Chlorotoluene	<b>&lt;68.6</b>	ug/kg	68.6	20.6	1	12/20/16 10:38	12/21/16 07:59	95-49-8	
4-Chlorotoluene	<b>&lt;65.1</b>	ug/kg	65.1	19.6	1	12/20/16 10:38	12/21/16 07:59	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;146</b>	ug/kg	146	146	1	12/20/16 10:38	12/21/16 07:59	96-12-8	
Dibromochloromethane	<b>&lt;213</b>	ug/kg	213	64.0	1	12/20/16 10:38	12/21/16 07:59	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Sample: **SB009\_13.5-15.5** Lab ID: **10373615008** Collected: 12/15/16 16:30 Received: 12/16/16 16:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<28.1	ug/kg	28.1	28.1	1	12/20/16 10:38	12/21/16 07:59	106-93-4	
Dibromomethane	<96.9	ug/kg	96.9	29.1	1	12/20/16 10:38	12/21/16 07:59	74-95-3	
1,2-Dichlorobenzene	<14.4	ug/kg	14.4	14.4	1	12/20/16 10:38	12/21/16 07:59	95-50-1	
1,3-Dichlorobenzene	<21.9	ug/kg	21.9	14.4	1	12/20/16 10:38	12/21/16 07:59	541-73-1	
1,4-Dichlorobenzene	<72.1	ug/kg	72.1	21.6	1	12/20/16 10:38	12/21/16 07:59	106-46-7	
Dichlorodifluoromethane	<76.1	ug/kg	76.1	22.8	1	12/20/16 10:38	12/21/16 07:59	75-71-8	
1,1-Dichloroethane	<29.0	ug/kg	29.0	29.0	1	12/20/16 10:38	12/21/16 07:59	75-34-3	
1,2-Dichloroethane	<23.6	ug/kg	23.6	23.6	1	12/20/16 10:38	12/21/16 07:59	107-06-2	
1,1-Dichloroethene	<19.0	ug/kg	19.0	19.0	1	12/20/16 10:38	12/21/16 07:59	75-35-4	
cis-1,2-Dichloroethene	<92.5	ug/kg	92.5	27.8	1	12/20/16 10:38	12/21/16 07:59	156-59-2	
trans-1,2-Dichloroethene	<120	ug/kg	120	36.0	1	12/20/16 10:38	12/21/16 07:59	156-60-5	
Dichlorofluoromethane	<681	ug/kg	681	205	1	12/20/16 10:38	12/21/16 07:59	75-43-4	
1,2-Dichloropropane	<25.8	ug/kg	25.8	25.8	1	12/20/16 10:38	12/21/16 07:59	78-87-5	
1,3-Dichloropropane	<89.0	ug/kg	89.0	26.7	1	12/20/16 10:38	12/21/16 07:59	142-28-9	
2,2-Dichloropropane	<79.0	ug/kg	79.0	23.7	1	12/20/16 10:38	12/21/16 07:59	594-20-7	
1,1-Dichloropropene	<22.5	ug/kg	22.5	22.5	1	12/20/16 10:38	12/21/16 07:59	563-58-6	
cis-1,3-Dichloropropene	<113	ug/kg	113	34.0	1	12/20/16 10:38	12/21/16 07:59	10061-01-5	
trans-1,3-Dichloropropene	<84.5	ug/kg	84.5	25.4	1	12/20/16 10:38	12/21/16 07:59	10061-02-6	
Diethyl ether (Ethyl ether)	<102	ug/kg	102	30.8	1	12/20/16 10:38	12/21/16 07:59	60-29-7	
Ethylbenzene	<79.0	ug/kg	79.0	23.7	1	12/20/16 10:38	12/21/16 07:59	100-41-4	
Hexachloro-1,3-butadiene	<234	ug/kg	234	70.2	1	12/20/16 10:38	12/21/16 07:59	87-68-3	
Isopropylbenzene (Cumene)	<88.5	ug/kg	88.5	26.6	1	12/20/16 10:38	12/21/16 07:59	98-82-8	
p-Isopropyltoluene	<41.3	ug/kg	41.3	12.4	1	12/20/16 10:38	12/21/16 07:59	99-87-6	
Methylene Chloride	<460	ug/kg	460	138	1	12/20/16 10:38	12/21/16 07:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	<165	ug/kg	165	49.4	1	12/20/16 10:38	12/21/16 07:59	108-10-1	
Methyl-tert-butyl ether	<46.5	ug/kg	46.5	14.0	1	12/20/16 10:38	12/21/16 07:59	1634-04-4	
Naphthalene	163	ug/kg	60.1	18.1	1	12/20/16 10:38	12/21/16 07:59	91-20-3	
n-Propylbenzene	<74.1	ug/kg	74.1	22.2	1	12/20/16 10:38	12/21/16 07:59	103-65-1	
Styrene	<64.6	ug/kg	64.6	19.4	1	12/20/16 10:38	12/21/16 07:59	100-42-5	
1,1,1,2-Tetrachloroethane	<29.6	ug/kg	29.6	29.6	1	12/20/16 10:38	12/21/16 07:59	630-20-6	
1,1,2,2-Tetrachloroethane	<16.6	ug/kg	16.6	16.6	1	12/20/16 10:38	12/21/16 07:59	79-34-5	
Tetrachloroethene	<94.9	ug/kg	94.9	28.5	1	12/20/16 10:38	12/21/16 07:59	127-18-4	
Tetrahydrofuran	<1230	ug/kg	1230	370	1	12/20/16 10:38	12/21/16 07:59	109-99-9	
Toluene	110	ug/kg	79.0	23.7	1	12/20/16 10:38	12/21/16 07:59	108-88-3	
1,2,3-Trichlorobenzene	<21.5	ug/kg	21.5	21.5	1	12/20/16 10:38	12/21/16 07:59	87-61-6	
1,2,4-Trichlorobenzene	<23.0	ug/kg	23.0	23.0	1	12/20/16 10:38	12/21/16 07:59	120-82-1	
1,1,1-Trichloroethane	<31.2	ug/kg	31.2	31.2	1	12/20/16 10:38	12/21/16 07:59	71-55-6	
1,1,2-Trichloroethane	<16.1	ug/kg	16.1	16.1	1	12/20/16 10:38	12/21/16 07:59	79-00-5	
Trichloroethene	<71.1	ug/kg	71.1	21.3	1	12/20/16 10:38	12/21/16 07:59	79-01-6	
Trichlorofluoromethane	<250	ug/kg	250	74.9	1	12/20/16 10:38	12/21/16 07:59	75-69-4	
1,2,3-Trichloropropane	<77.3	ug/kg	77.3	77.3	1	12/20/16 10:38	12/21/16 07:59	96-18-4	
1,1,2-Trichlorotrifluoroethane	<179	ug/kg	179	53.7	1	12/20/16 10:38	12/21/16 07:59	76-13-1	
1,2,4-Trimethylbenzene	46.4	ug/kg	16.4	16.4	1	12/20/16 10:38	12/21/16 07:59	95-63-6	
1,3,5-Trimethylbenzene	<57.2	ug/kg	57.2	17.2	1	12/20/16 10:38	12/21/16 07:59	108-67-8	
Vinyl chloride	<31.9	ug/kg	31.9	9.6	1	12/20/16 10:38	12/21/16 07:59	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB009\_13.5-15.5**      **Lab ID: 10373615008**      Collected: 12/15/16 16:30      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<199	ug/kg	199	59.7	1	12/20/16 10:38	12/21/16 07:59	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	97	%	75-129		1	12/20/16 10:38	12/21/16 07:59	17060-07-0	
Toluene-d8 (S)	104	%	75-125		1	12/20/16 10:38	12/21/16 07:59	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/20/16 10:38	12/21/16 07:59	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Sample Project No.: 10373615

Sample: **SB009\_28-29** Lab ID: **10373615009** Collected: 12/15/16 16:40 Received: 12/16/16 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>28.6</b>	%	0.10	0.10	1		12/29/16 11:05		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	< <b>1.8</b>	ug/kg	1.8	0.54	1	12/20/16 09:27	12/28/16 14:39	83-32-9	
Acenaphthylene	< <b>1.3</b>	ug/kg	1.3	0.38	1	12/20/16 09:27	12/28/16 14:39	208-96-8	
Anthracene	< <b>2.1</b>	ug/kg	2.1	0.63	1	12/20/16 09:27	12/28/16 14:39	120-12-7	
Benzo(a)anthracene	< <b>2.2</b>	ug/kg	2.2	0.65	1	12/20/16 09:27	12/28/16 14:39	56-55-3	
Benzo(a)pyrene	< <b>1.6</b>	ug/kg	1.6	0.48	1	12/20/16 09:27	12/28/16 14:39	50-32-8	
Benzo(b)fluoranthene	< <b>2.7</b>	ug/kg	2.7	0.80	1	12/20/16 09:27	12/28/16 14:39	205-99-2	
Benzo(g,h,i)perylene	< <b>2.1</b>	ug/kg	2.1	0.64	1	12/20/16 09:27	12/28/16 14:39	191-24-2	
Benzo(k)fluoranthene	< <b>2.3</b>	ug/kg	2.3	0.69	1	12/20/16 09:27	12/28/16 14:39	207-08-9	
Chrysene	< <b>2.6</b>	ug/kg	2.6	0.77	1	12/20/16 09:27	12/28/16 14:39	218-01-9	
Dibenz(a,h)anthracene	< <b>1.5</b>	ug/kg	1.5	0.46	1	12/20/16 09:27	12/28/16 14:39	53-70-3	
Fluoranthene	< <b>3.6</b>	ug/kg	3.6	1.1	1	12/20/16 09:27	12/28/16 14:39	206-44-0	
Fluorene	< <b>1.8</b>	ug/kg	1.8	0.53	1	12/20/16 09:27	12/28/16 14:39	86-73-7	
Indeno(1,2,3-cd)pyrene	< <b>3.5</b>	ug/kg	3.5	1.0	1	12/20/16 09:27	12/28/16 14:39	193-39-5	
Naphthalene	< <b>1.7</b>	ug/kg	1.7	0.50	1	12/20/16 09:27	12/28/16 14:39	91-20-3	
Phenanthrene	< <b>1.9</b>	ug/kg	1.9	0.56	1	12/20/16 09:27	12/28/16 14:39	85-01-8	
Pyrene	< <b>3.8</b>	ug/kg	3.8	1.2	1	12/20/16 09:27	12/28/16 14:39	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	76	%	41-125		1	12/20/16 09:27	12/28/16 14:39	321-60-8	
p-Terphenyl-d14 (S)	76	%	39-125		1	12/20/16 09:27	12/28/16 14:39	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	< <b>1540</b>	ug/kg	1540	462	1	12/20/16 10:38	12/21/16 08:16	67-64-1	
Allyl chloride	< <b>201</b>	ug/kg	201	60.4	1	12/20/16 10:38	12/21/16 08:16	107-05-1	
Benzene	< <b>20.2</b>	ug/kg	20.2	6.1	1	12/20/16 10:38	12/21/16 08:16	71-43-2	
Bromobenzene	< <b>60.0</b>	ug/kg	60.0	18.0	1	12/20/16 10:38	12/21/16 08:16	108-86-1	
Bromochloromethane	< <b>69.8</b>	ug/kg	69.8	21.0	1	12/20/16 10:38	12/21/16 08:16	74-97-5	
Bromodichloromethane	< <b>65.6</b>	ug/kg	65.6	19.7	1	12/20/16 10:38	12/21/16 08:16	75-27-4	
Bromoform	< <b>202</b>	ug/kg	202	60.7	1	12/20/16 10:38	12/21/16 08:16	75-25-2	
Bromomethane	< <b>238</b>	ug/kg	238	71.4	1	12/20/16 10:38	12/21/16 08:16	74-83-9	
2-Butanone (MEK)	< <b>309</b>	ug/kg	309	92.9	1	12/20/16 10:38	12/21/16 08:16	78-93-3	
n-Butylbenzene	< <b>56.7</b>	ug/kg	56.7	17.0	1	12/20/16 10:38	12/21/16 08:16	104-51-8	
sec-Butylbenzene	< <b>55.3</b>	ug/kg	55.3	16.6	1	12/20/16 10:38	12/21/16 08:16	135-98-8	
tert-Butylbenzene	< <b>74.1</b>	ug/kg	74.1	22.2	1	12/20/16 10:38	12/21/16 08:16	98-06-6	
Carbon tetrachloride	< <b>73.6</b>	ug/kg	73.6	22.1	1	12/20/16 10:38	12/21/16 08:16	56-23-5	
Chlorobenzene	< <b>40.8</b>	ug/kg	40.8	12.2	1	12/20/16 10:38	12/21/16 08:16	108-90-7	
Chloroethane	< <b>370</b>	ug/kg	370	111	1	12/20/16 10:38	12/21/16 08:16	75-00-3	
Chloroform	< <b>114</b>	ug/kg	114	34.2	1	12/20/16 10:38	12/21/16 08:16	67-66-3	
Chloromethane	< <b>113</b>	ug/kg	113	34.1	1	12/20/16 10:38	12/21/16 08:16	74-87-3	
2-Chlorotoluene	< <b>64.7</b>	ug/kg	64.7	19.4	1	12/20/16 10:38	12/21/16 08:16	95-49-8	
4-Chlorotoluene	< <b>61.4</b>	ug/kg	61.4	18.4	1	12/20/16 10:38	12/21/16 08:16	106-43-4	
1,2-Dibromo-3-chloropropane	< <b>137</b>	ug/kg	137	137	1	12/20/16 10:38	12/21/16 08:16	96-12-8	
Dibromochloromethane	< <b>201</b>	ug/kg	201	60.4	1	12/20/16 10:38	12/21/16 08:16	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Sample: **SB009\_28-29** Lab ID: **10373615009** Collected: 12/15/16 16:40 Received: 12/16/16 16:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<26.5	ug/kg	26.5	26.5	1	12/20/16 10:38	12/21/16 08:16	106-93-4	
Dibromomethane	<91.4	ug/kg	91.4	27.4	1	12/20/16 10:38	12/21/16 08:16	74-95-3	
1,2-Dichlorobenzene	<13.6	ug/kg	13.6	13.6	1	12/20/16 10:38	12/21/16 08:16	95-50-1	
1,3-Dichlorobenzene	<20.7	ug/kg	20.7	13.6	1	12/20/16 10:38	12/21/16 08:16	541-73-1	
1,4-Dichlorobenzene	<68.0	ug/kg	68.0	20.4	1	12/20/16 10:38	12/21/16 08:16	106-46-7	
Dichlorodifluoromethane	<71.7	ug/kg	71.7	21.5	1	12/20/16 10:38	12/21/16 08:16	75-71-8	
1,1-Dichloroethane	<27.3	ug/kg	27.3	27.3	1	12/20/16 10:38	12/21/16 08:16	75-34-3	
1,2-Dichloroethane	<22.2	ug/kg	22.2	22.2	1	12/20/16 10:38	12/21/16 08:16	107-06-2	
1,1-Dichloroethene	<17.9	ug/kg	17.9	17.9	1	12/20/16 10:38	12/21/16 08:16	75-35-4	
cis-1,2-Dichloroethene	<87.2	ug/kg	87.2	26.2	1	12/20/16 10:38	12/21/16 08:16	156-59-2	
trans-1,2-Dichloroethene	<113	ug/kg	113	33.9	1	12/20/16 10:38	12/21/16 08:16	156-60-5	
Dichlorofluoromethane	<642	ug/kg	642	193	1	12/20/16 10:38	12/21/16 08:16	75-43-4	
1,2-Dichloropropane	<24.4	ug/kg	24.4	24.4	1	12/20/16 10:38	12/21/16 08:16	78-87-5	
1,3-Dichloropropane	<83.9	ug/kg	83.9	25.2	1	12/20/16 10:38	12/21/16 08:16	142-28-9	
2,2-Dichloropropane	<74.5	ug/kg	74.5	22.4	1	12/20/16 10:38	12/21/16 08:16	594-20-7	
1,1-Dichloropropene	<21.3	ug/kg	21.3	21.3	1	12/20/16 10:38	12/21/16 08:16	563-58-6	
cis-1,3-Dichloropropene	<107	ug/kg	107	32.1	1	12/20/16 10:38	12/21/16 08:16	10061-01-5	
trans-1,3-Dichloropropene	<79.7	ug/kg	79.7	23.9	1	12/20/16 10:38	12/21/16 08:16	10061-02-6	
Diethyl ether (Ethyl ether)	<96.6	ug/kg	96.6	29.0	1	12/20/16 10:38	12/21/16 08:16	60-29-7	
Ethylbenzene	<74.5	ug/kg	74.5	22.4	1	12/20/16 10:38	12/21/16 08:16	100-41-4	
Hexachloro-1,3-butadiene	<220	ug/kg	220	66.2	1	12/20/16 10:38	12/21/16 08:16	87-68-3	
Isopropylbenzene (Cumene)	<83.4	ug/kg	83.4	25.1	1	12/20/16 10:38	12/21/16 08:16	98-82-8	
p-Isopropyltoluene	<38.9	ug/kg	38.9	11.7	1	12/20/16 10:38	12/21/16 08:16	99-87-6	
Methylene Chloride	<434	ug/kg	434	130	1	12/20/16 10:38	12/21/16 08:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	<155	ug/kg	155	46.6	1	12/20/16 10:38	12/21/16 08:16	108-10-1	
Methyl-tert-butyl ether	<43.9	ug/kg	43.9	13.2	1	12/20/16 10:38	12/21/16 08:16	1634-04-4	
Naphthalene	<56.7	ug/kg	56.7	17.0	1	12/20/16 10:38	12/21/16 08:16	91-20-3	
n-Propylbenzene	<69.8	ug/kg	69.8	21.0	1	12/20/16 10:38	12/21/16 08:16	103-65-1	
Styrene	<60.9	ug/kg	60.9	18.3	1	12/20/16 10:38	12/21/16 08:16	100-42-5	
1,1,1,2-Tetrachloroethane	<27.9	ug/kg	27.9	27.9	1	12/20/16 10:38	12/21/16 08:16	630-20-6	
1,1,2,2-Tetrachloroethane	<15.6	ug/kg	15.6	15.6	1	12/20/16 10:38	12/21/16 08:16	79-34-5	
Tetrachloroethene	<89.5	ug/kg	89.5	26.9	1	12/20/16 10:38	12/21/16 08:16	127-18-4	
Tetrahydrofuran	<1160	ug/kg	1160	349	1	12/20/16 10:38	12/21/16 08:16	109-99-9	
Toluene	<74.5	ug/kg	74.5	22.4	1	12/20/16 10:38	12/21/16 08:16	108-88-3	
1,2,3-Trichlorobenzene	<20.3	ug/kg	20.3	20.3	1	12/20/16 10:38	12/21/16 08:16	87-61-6	
1,2,4-Trichlorobenzene	<21.7	ug/kg	21.7	21.7	1	12/20/16 10:38	12/21/16 08:16	120-82-1	
1,1,1-Trichloroethane	<29.4	ug/kg	29.4	29.4	1	12/20/16 10:38	12/21/16 08:16	71-55-6	
1,1,2-Trichloroethane	<15.2	ug/kg	15.2	15.2	1	12/20/16 10:38	12/21/16 08:16	79-00-5	
Trichloroethene	<67.0	ug/kg	67.0	20.1	1	12/20/16 10:38	12/21/16 08:16	79-01-6	
Trichlorofluoromethane	<235	ug/kg	235	70.7	1	12/20/16 10:38	12/21/16 08:16	75-69-4	
1,2,3-Trichloropropane	<72.9	ug/kg	72.9	72.9	1	12/20/16 10:38	12/21/16 08:16	96-18-4	
1,1,2-Trichlorotrifluoroethane	<169	ug/kg	169	50.7	1	12/20/16 10:38	12/21/16 08:16	76-13-1	
1,2,4-Trimethylbenzene	<15.5	ug/kg	15.5	15.5	1	12/20/16 10:38	12/21/16 08:16	95-63-6	
1,3,5-Trimethylbenzene	<53.9	ug/kg	53.9	16.2	1	12/20/16 10:38	12/21/16 08:16	108-67-8	
Vinyl chloride	<30.1	ug/kg	30.1	9.0	1	12/20/16 10:38	12/21/16 08:16	75-01-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB009\_28-29**      **Lab ID: 10373615009**      Collected: 12/15/16 16:40      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<187	ug/kg	187	56.3	1	12/20/16 10:38	12/21/16 08:16	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	101	%	75-129		1	12/20/16 10:38	12/21/16 08:16	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/20/16 10:38	12/21/16 08:16	2037-26-5	
4-Bromofluorobenzene (S)	95	%	75-125		1	12/20/16 10:38	12/21/16 08:16	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Sample Project No.: 10373615

**Sample: SB010\_5-10**      **Lab ID: 10373615010**      Collected: 12/16/16 08:00      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	12.5	%	0.10	0.10	1		12/29/16 11:05		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	6.7	ug/kg	1.5	0.45	1	12/20/16 09:27	12/28/16 14:59	83-32-9	
Acenaphthylene	7.0	ug/kg	1.0	0.31	1	12/20/16 09:27	12/28/16 14:59	208-96-8	
Anthracene	9.1	ug/kg	1.7	0.52	1	12/20/16 09:27	12/28/16 14:59	120-12-7	
Benzo(a)anthracene	37.7	ug/kg	1.8	0.54	1	12/20/16 09:27	12/28/16 14:59	56-55-3	
Benzo(a)pyrene	49.1	ug/kg	1.3	0.40	1	12/20/16 09:27	12/28/16 14:59	50-32-8	
Benzo(b)fluoranthene	44.1	ug/kg	2.2	0.65	1	12/20/16 09:27	12/28/16 14:59	205-99-2	
Benzo(g,h,i)perylene	30.8	ug/kg	1.7	0.52	1	12/20/16 09:27	12/28/16 14:59	191-24-2	
Benzo(k)fluoranthene	16.4	ug/kg	1.9	0.56	1	12/20/16 09:27	12/28/16 14:59	207-08-9	
Chrysene	35.9	ug/kg	2.1	0.63	1	12/20/16 09:27	12/28/16 14:59	218-01-9	
Dibenz(a,h)anthracene	6.9	ug/kg	1.2	0.37	1	12/20/16 09:27	12/28/16 14:59	53-70-3	
Fluoranthene	60.7	ug/kg	3.0	0.89	1	12/20/16 09:27	12/28/16 14:59	206-44-0	
Fluorene	5.6	ug/kg	1.5	0.44	1	12/20/16 09:27	12/28/16 14:59	86-73-7	
Indeno(1,2,3-cd)pyrene	24.0	ug/kg	2.9	0.86	1	12/20/16 09:27	12/28/16 14:59	193-39-5	
Naphthalene	6.4	ug/kg	1.4	0.41	1	12/20/16 09:27	12/28/16 14:59	91-20-3	
Phenanthrene	29.3	ug/kg	1.5	0.46	1	12/20/16 09:27	12/28/16 14:59	85-01-8	
Pyrene	86.0	ug/kg	3.2	0.95	1	12/20/16 09:27	12/28/16 14:59	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	73	%	41-125		1	12/20/16 09:27	12/28/16 14:59	321-60-8	
p-Terphenyl-d14 (S)	72	%	39-125		1	12/20/16 09:27	12/28/16 14:59	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1220	ug/kg	1220	368	1	12/20/16 10:38	12/21/16 09:20	67-64-1	
Allyl chloride	<160	ug/kg	160	48.1	1	12/20/16 10:38	12/21/16 09:20	107-05-1	
Benzene	<16.1	ug/kg	16.1	4.8	1	12/20/16 10:38	12/21/16 09:20	71-43-2	
Bromobenzene	<47.8	ug/kg	47.8	14.4	1	12/20/16 10:38	12/21/16 09:20	108-86-1	
Bromochloromethane	<55.6	ug/kg	55.6	16.7	1	12/20/16 10:38	12/21/16 09:20	74-97-5	
Bromodichloromethane	<52.3	ug/kg	52.3	15.7	1	12/20/16 10:38	12/21/16 09:20	75-27-4	
Bromoform	<161	ug/kg	161	48.3	1	12/20/16 10:38	12/21/16 09:20	75-25-2	
Bromomethane	<189	ug/kg	189	56.8	1	12/20/16 10:38	12/21/16 09:20	74-83-9	
2-Butanone (MEK)	<246	ug/kg	246	74.0	1	12/20/16 10:38	12/21/16 09:20	78-93-3	
n-Butylbenzene	<45.2	ug/kg	45.2	13.6	1	12/20/16 10:38	12/21/16 09:20	104-51-8	
sec-Butylbenzene	<44.1	ug/kg	44.1	13.2	1	12/20/16 10:38	12/21/16 09:20	135-98-8	
tert-Butylbenzene	<59.0	ug/kg	59.0	17.7	1	12/20/16 10:38	12/21/16 09:20	98-06-6	
Carbon tetrachloride	<58.6	ug/kg	58.6	17.6	1	12/20/16 10:38	12/21/16 09:20	56-23-5	
Chlorobenzene	<32.5	ug/kg	32.5	9.8	1	12/20/16 10:38	12/21/16 09:20	108-90-7	
Chloroethane	<295	ug/kg	295	88.6	1	12/20/16 10:38	12/21/16 09:20	75-00-3	
Chloroform	<90.7	ug/kg	90.7	27.2	1	12/20/16 10:38	12/21/16 09:20	67-66-3	
Chloromethane	<90.4	ug/kg	90.4	27.1	1	12/20/16 10:38	12/21/16 09:20	74-87-3	
2-Chlorotoluene	<51.5	ug/kg	51.5	15.5	1	12/20/16 10:38	12/21/16 09:20	95-49-8	
4-Chlorotoluene	<48.9	ug/kg	48.9	14.7	1	12/20/16 10:38	12/21/16 09:20	106-43-4	
1,2-Dibromo-3-chloropropane	<109	ug/kg	109	109	1	12/20/16 10:38	12/21/16 09:20	96-12-8	
Dibromochloromethane	<160	ug/kg	160	48.1	1	12/20/16 10:38	12/21/16 09:20	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB010\_5-10**      **Lab ID: 10373615010**      Collected: 12/16/16 08:00      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<21.1	ug/kg	21.1	21.1	1	12/20/16 10:38	12/21/16 09:20	106-93-4	
Dibromomethane	<72.8	ug/kg	72.8	21.9	1	12/20/16 10:38	12/21/16 09:20	74-95-3	
1,2-Dichlorobenzene	<10.8	ug/kg	10.8	10.8	1	12/20/16 10:38	12/21/16 09:20	95-50-1	
1,3-Dichlorobenzene	<16.5	ug/kg	16.5	10.8	1	12/20/16 10:38	12/21/16 09:20	541-73-1	
1,4-Dichlorobenzene	<54.1	ug/kg	54.1	16.3	1	12/20/16 10:38	12/21/16 09:20	106-46-7	
Dichlorodifluoromethane	<57.1	ug/kg	57.1	17.2	1	12/20/16 10:38	12/21/16 09:20	75-71-8	
1,1-Dichloroethane	<21.8	ug/kg	21.8	21.8	1	12/20/16 10:38	12/21/16 09:20	75-34-3	
1,2-Dichloroethane	<17.7	ug/kg	17.7	17.7	1	12/20/16 10:38	12/21/16 09:20	107-06-2	
1,1-Dichloroethene	<14.2	ug/kg	14.2	14.2	1	12/20/16 10:38	12/21/16 09:20	75-35-4	
cis-1,2-Dichloroethene	<69.4	ug/kg	69.4	20.9	1	12/20/16 10:38	12/21/16 09:20	156-59-2	
trans-1,2-Dichloroethene	<90.0	ug/kg	90.0	27.0	1	12/20/16 10:38	12/21/16 09:20	156-60-5	
Dichlorofluoromethane	<512	ug/kg	512	154	1	12/20/16 10:38	12/21/16 09:20	75-43-4	
1,2-Dichloropropane	<19.4	ug/kg	19.4	19.4	1	12/20/16 10:38	12/21/16 09:20	78-87-5	
1,3-Dichloropropane	<66.8	ug/kg	66.8	20.1	1	12/20/16 10:38	12/21/16 09:20	142-28-9	
2,2-Dichloropropane	<59.4	ug/kg	59.4	17.8	1	12/20/16 10:38	12/21/16 09:20	594-20-7	
1,1-Dichloropropene	<16.9	ug/kg	16.9	16.9	1	12/20/16 10:38	12/21/16 09:20	563-58-6	
cis-1,3-Dichloropropene	<85.1	ug/kg	85.1	25.6	1	12/20/16 10:38	12/21/16 09:20	10061-01-5	
trans-1,3-Dichloropropene	<63.5	ug/kg	63.5	19.1	1	12/20/16 10:38	12/21/16 09:20	10061-02-6	
Diethyl ether (Ethyl ether)	<76.9	ug/kg	76.9	23.1	1	12/20/16 10:38	12/21/16 09:20	60-29-7	
Ethylbenzene	<59.4	ug/kg	59.4	17.8	1	12/20/16 10:38	12/21/16 09:20	100-41-4	
Hexachloro-1,3-butadiene	<175	ug/kg	175	52.7	1	12/20/16 10:38	12/21/16 09:20	87-68-3	
Isopropylbenzene (Cumene)	<66.5	ug/kg	66.5	20.0	1	12/20/16 10:38	12/21/16 09:20	98-82-8	
p-Isopropyltoluene	<31.0	ug/kg	31.0	9.3	1	12/20/16 10:38	12/21/16 09:20	99-87-6	
Methylene Chloride	<346	ug/kg	346	104	1	12/20/16 10:38	12/21/16 09:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	<124	ug/kg	124	37.1	1	12/20/16 10:38	12/21/16 09:20	108-10-1	
Methyl-tert-butyl ether	<34.9	ug/kg	34.9	10.5	1	12/20/16 10:38	12/21/16 09:20	1634-04-4	
Naphthalene	<45.2	ug/kg	45.2	13.6	1	12/20/16 10:38	12/21/16 09:20	91-20-3	
n-Propylbenzene	<55.6	ug/kg	55.6	16.7	1	12/20/16 10:38	12/21/16 09:20	103-65-1	
Styrene	<48.5	ug/kg	48.5	14.6	1	12/20/16 10:38	12/21/16 09:20	100-42-5	
1,1,1,2-Tetrachloroethane	<22.2	ug/kg	22.2	22.2	1	12/20/16 10:38	12/21/16 09:20	630-20-6	
1,1,1,2,2-Tetrachloroethane	<12.4	ug/kg	12.4	12.4	1	12/20/16 10:38	12/21/16 09:20	79-34-5	
Tetrachloroethene	<71.3	ug/kg	71.3	21.4	1	12/20/16 10:38	12/21/16 09:20	127-18-4	
Tetrahydrofuran	<926	ug/kg	926	278	1	12/20/16 10:38	12/21/16 09:20	109-99-9	
Toluene	<59.4	ug/kg	59.4	17.8	1	12/20/16 10:38	12/21/16 09:20	108-88-3	
1,2,3-Trichlorobenzene	<16.1	ug/kg	16.1	16.1	1	12/20/16 10:38	12/21/16 09:20	87-61-6	
1,2,4-Trichlorobenzene	<17.3	ug/kg	17.3	17.3	1	12/20/16 10:38	12/21/16 09:20	120-82-1	
1,1,1-Trichloroethane	<23.4	ug/kg	23.4	23.4	1	12/20/16 10:38	12/21/16 09:20	71-55-6	
1,1,2-Trichloroethane	<12.1	ug/kg	12.1	12.1	1	12/20/16 10:38	12/21/16 09:20	79-00-5	
Trichloroethene	<53.4	ug/kg	53.4	16.0	1	12/20/16 10:38	12/21/16 09:20	79-01-6	
Trichlorofluoromethane	<187	ug/kg	187	56.3	1	12/20/16 10:38	12/21/16 09:20	75-69-4	
1,2,3-Trichloropropane	<58.1	ug/kg	58.1	58.1	1	12/20/16 10:38	12/21/16 09:20	96-18-4	
1,1,2-Trichlorotrifluoroethane	<134	ug/kg	134	40.4	1	12/20/16 10:38	12/21/16 09:20	76-13-1	
1,2,4-Trimethylbenzene	<12.3	ug/kg	12.3	12.3	1	12/20/16 10:38	12/21/16 09:20	95-63-6	
1,3,5-Trimethylbenzene	<42.9	ug/kg	42.9	12.9	1	12/20/16 10:38	12/21/16 09:20	108-67-8	
Vinyl chloride	<24.0	ug/kg	24.0	7.2	1	12/20/16 10:38	12/21/16 09:20	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB010\_5-10**      **Lab ID: 10373615010**      Collected: 12/16/16 08:00      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<149	ug/kg	149	44.8	1	12/20/16 10:38	12/21/16 09:20	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	95	%	75-129		1	12/20/16 10:38	12/21/16 09:20	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/20/16 10:38	12/21/16 09:20	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125		1	12/20/16 10:38	12/21/16 09:20	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Project No.: 10373615

Sample: **SB010\_25-30** Lab ID: **10373615011** Collected: 12/16/16 08:30 Received: 12/16/16 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	16.6	%	0.10	0.10	1		12/29/16 11:05		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.6	ug/kg	1.6	0.47	1	12/20/16 09:27	12/28/16 15:20	83-32-9	
Acenaphthylene	<1.1	ug/kg	1.1	0.33	1	12/20/16 09:27	12/28/16 15:20	208-96-8	
Anthracene	<1.8	ug/kg	1.8	0.54	1	12/20/16 09:27	12/28/16 15:20	120-12-7	
Benzo(a)anthracene	<1.9	ug/kg	1.9	0.56	1	12/20/16 09:27	12/28/16 15:20	56-55-3	
Benzo(a)pyrene	<1.4	ug/kg	1.4	0.42	1	12/20/16 09:27	12/28/16 15:20	50-32-8	
Benzo(b)fluoranthene	<2.3	ug/kg	2.3	0.69	1	12/20/16 09:27	12/28/16 15:20	205-99-2	
Benzo(g,h,i)perylene	<1.8	ug/kg	1.8	0.55	1	12/20/16 09:27	12/28/16 15:20	191-24-2	
Benzo(k)fluoranthene	<2.0	ug/kg	2.0	0.59	1	12/20/16 09:27	12/28/16 15:20	207-08-9	
Chrysene	<2.2	ug/kg	2.2	0.67	1	12/20/16 09:27	12/28/16 15:20	218-01-9	
Dibenz(a,h)anthracene	<1.3	ug/kg	1.3	0.39	1	12/20/16 09:27	12/28/16 15:20	53-70-3	
Fluoranthene	<3.1	ug/kg	3.1	0.94	1	12/20/16 09:27	12/28/16 15:20	206-44-0	
Fluorene	<1.5	ug/kg	1.5	0.46	1	12/20/16 09:27	12/28/16 15:20	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.0	ug/kg	3.0	0.90	1	12/20/16 09:27	12/28/16 15:20	193-39-5	
Naphthalene	<1.4	ug/kg	1.4	0.43	1	12/20/16 09:27	12/28/16 15:20	91-20-3	
Phenanthrene	<1.6	ug/kg	1.6	0.48	1	12/20/16 09:27	12/28/16 15:20	85-01-8	
Pyrene	<3.3	ug/kg	3.3	0.99	1	12/20/16 09:27	12/28/16 15:20	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	80	%	41-125		1	12/20/16 09:27	12/28/16 15:20	321-60-8	
p-Terphenyl-d14 (S)	77	%	39-125		1	12/20/16 09:27	12/28/16 15:20	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1330	ug/kg	1330	400	1	12/20/16 10:38	12/21/16 09:36	67-64-1	
Allyl chloride	<174	ug/kg	174	52.3	1	12/20/16 10:38	12/21/16 09:36	107-05-1	
Benzene	<17.6	ug/kg	17.6	5.3	1	12/20/16 10:38	12/21/16 09:36	71-43-2	
Bromobenzene	<52.0	ug/kg	52.0	15.6	1	12/20/16 10:38	12/21/16 09:36	108-86-1	
Bromochloromethane	<60.5	ug/kg	60.5	18.2	1	12/20/16 10:38	12/21/16 09:36	74-97-5	
Bromodichloromethane	<56.9	ug/kg	56.9	17.1	1	12/20/16 10:38	12/21/16 09:36	75-27-4	
Bromoform	<175	ug/kg	175	52.6	1	12/20/16 10:38	12/21/16 09:36	75-25-2	
Bromomethane	<206	ug/kg	206	61.9	1	12/20/16 10:38	12/21/16 09:36	74-83-9	
2-Butanone (MEK)	<268	ug/kg	268	80.5	1	12/20/16 10:38	12/21/16 09:36	78-93-3	
n-Butylbenzene	<49.2	ug/kg	49.2	14.8	1	12/20/16 10:38	12/21/16 09:36	104-51-8	
sec-Butylbenzene	<47.9	ug/kg	47.9	14.4	1	12/20/16 10:38	12/21/16 09:36	135-98-8	
tert-Butylbenzene	<64.2	ug/kg	64.2	19.3	1	12/20/16 10:38	12/21/16 09:36	98-06-6	
Carbon tetrachloride	<63.8	ug/kg	63.8	19.2	1	12/20/16 10:38	12/21/16 09:36	56-23-5	
Chlorobenzene	<35.4	ug/kg	35.4	10.6	1	12/20/16 10:38	12/21/16 09:36	108-90-7	
Chloroethane	<321	ug/kg	321	96.4	1	12/20/16 10:38	12/21/16 09:36	75-00-3	
Chloroform	<98.7	ug/kg	98.7	29.7	1	12/20/16 10:38	12/21/16 09:36	67-66-3	
Chloromethane	<98.3	ug/kg	98.3	29.5	1	12/20/16 10:38	12/21/16 09:36	74-87-3	
2-Chlorotoluene	<56.1	ug/kg	56.1	16.8	1	12/20/16 10:38	12/21/16 09:36	95-49-8	
4-Chlorotoluene	<53.2	ug/kg	53.2	16.0	1	12/20/16 10:38	12/21/16 09:36	106-43-4	
1,2-Dibromo-3-chloropropane	<119	ug/kg	119	119	1	12/20/16 10:38	12/21/16 09:36	96-12-8	
Dibromochloromethane	<174	ug/kg	174	52.3	1	12/20/16 10:38	12/21/16 09:36	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Sample: **SB010\_25-30** Lab ID: **10373615011** Collected: 12/16/16 08:30 Received: 12/16/16 16:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<22.9	ug/kg	22.9	22.9	1	12/20/16 10:38	12/21/16 09:36	106-93-4	
Dibromomethane	<79.2	ug/kg	79.2	23.8	1	12/20/16 10:38	12/21/16 09:36	74-95-3	
1,2-Dichlorobenzene	<11.8	ug/kg	11.8	11.8	1	12/20/16 10:38	12/21/16 09:36	95-50-1	
1,3-Dichlorobenzene	<17.9	ug/kg	17.9	11.8	1	12/20/16 10:38	12/21/16 09:36	541-73-1	
1,4-Dichlorobenzene	<58.9	ug/kg	58.9	17.7	1	12/20/16 10:38	12/21/16 09:36	106-46-7	
Dichlorodifluoromethane	<62.2	ug/kg	62.2	18.7	1	12/20/16 10:38	12/21/16 09:36	75-71-8	
1,1-Dichloroethane	<23.7	ug/kg	23.7	23.7	1	12/20/16 10:38	12/21/16 09:36	75-34-3	
1,2-Dichloroethane	<19.3	ug/kg	19.3	19.3	1	12/20/16 10:38	12/21/16 09:36	107-06-2	
1,1-Dichloroethene	<15.5	ug/kg	15.5	15.5	1	12/20/16 10:38	12/21/16 09:36	75-35-4	
cis-1,2-Dichloroethene	<75.6	ug/kg	75.6	22.7	1	12/20/16 10:38	12/21/16 09:36	156-59-2	
trans-1,2-Dichloroethene	<97.9	ug/kg	97.9	29.4	1	12/20/16 10:38	12/21/16 09:36	156-60-5	
Dichlorofluoromethane	<557	ug/kg	557	167	1	12/20/16 10:38	12/21/16 09:36	75-43-4	
1,2-Dichloropropane	<21.1	ug/kg	21.1	21.1	1	12/20/16 10:38	12/21/16 09:36	78-87-5	
1,3-Dichloropropane	<72.7	ug/kg	72.7	21.8	1	12/20/16 10:38	12/21/16 09:36	142-28-9	
2,2-Dichloropropane	<64.6	ug/kg	64.6	19.4	1	12/20/16 10:38	12/21/16 09:36	594-20-7	
1,1-Dichloropropene	<18.4	ug/kg	18.4	18.4	1	12/20/16 10:38	12/21/16 09:36	563-58-6	
cis-1,3-Dichloropropene	<92.6	ug/kg	92.6	27.8	1	12/20/16 10:38	12/21/16 09:36	10061-01-5	
trans-1,3-Dichloropropene	<69.1	ug/kg	69.1	20.7	1	12/20/16 10:38	12/21/16 09:36	10061-02-6	
Diethyl ether (Ethyl ether)	<83.7	ug/kg	83.7	25.1	1	12/20/16 10:38	12/21/16 09:36	60-29-7	
Ethylbenzene	<64.6	ug/kg	64.6	19.4	1	12/20/16 10:38	12/21/16 09:36	100-41-4	
Hexachloro-1,3-butadiene	<191	ug/kg	191	57.4	1	12/20/16 10:38	12/21/16 09:36	87-68-3	
Isopropylbenzene (Cumene)	<72.3	ug/kg	72.3	21.7	1	12/20/16 10:38	12/21/16 09:36	98-82-8	
p-Isopropyltoluene	<33.7	ug/kg	33.7	10.1	1	12/20/16 10:38	12/21/16 09:36	99-87-6	
Methylene Chloride	<376	ug/kg	376	113	1	12/20/16 10:38	12/21/16 09:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	<134	ug/kg	134	40.4	1	12/20/16 10:38	12/21/16 09:36	108-10-1	
Methyl-tert-butyl ether	<38.0	ug/kg	38.0	11.4	1	12/20/16 10:38	12/21/16 09:36	1634-04-4	
Naphthalene	<49.2	ug/kg	49.2	14.8	1	12/20/16 10:38	12/21/16 09:36	91-20-3	
n-Propylbenzene	<60.5	ug/kg	60.5	18.2	1	12/20/16 10:38	12/21/16 09:36	103-65-1	
Styrene	<52.8	ug/kg	52.8	15.9	1	12/20/16 10:38	12/21/16 09:36	100-42-5	
1,1,1,2-Tetrachloroethane	<24.2	ug/kg	24.2	24.2	1	12/20/16 10:38	12/21/16 09:36	630-20-6	
1,1,2,2-Tetrachloroethane	<13.5	ug/kg	13.5	13.5	1	12/20/16 10:38	12/21/16 09:36	79-34-5	
Tetrachloroethene	<77.6	ug/kg	77.6	23.3	1	12/20/16 10:38	12/21/16 09:36	127-18-4	
Tetrahydrofuran	<1010	ug/kg	1010	303	1	12/20/16 10:38	12/21/16 09:36	109-99-9	
Toluene	<64.6	ug/kg	64.6	19.4	1	12/20/16 10:38	12/21/16 09:36	108-88-3	
1,2,3-Trichlorobenzene	<17.6	ug/kg	17.6	17.6	1	12/20/16 10:38	12/21/16 09:36	87-61-6	
1,2,4-Trichlorobenzene	<18.8	ug/kg	18.8	18.8	1	12/20/16 10:38	12/21/16 09:36	120-82-1	
1,1,1-Trichloroethane	<25.5	ug/kg	25.5	25.5	1	12/20/16 10:38	12/21/16 09:36	71-55-6	
1,1,2-Trichloroethane	<13.2	ug/kg	13.2	13.2	1	12/20/16 10:38	12/21/16 09:36	79-00-5	
Trichloroethene	<58.1	ug/kg	58.1	17.4	1	12/20/16 10:38	12/21/16 09:36	79-01-6	
Trichlorofluoromethane	<204	ug/kg	204	61.3	1	12/20/16 10:38	12/21/16 09:36	75-69-4	
1,2,3-Trichloropropane	<63.2	ug/kg	63.2	63.2	1	12/20/16 10:38	12/21/16 09:36	96-18-4	
1,1,2-Trichlorotrifluoroethane	<146	ug/kg	146	43.9	1	12/20/16 10:38	12/21/16 09:36	76-13-1	
1,2,4-Trimethylbenzene	<13.4	ug/kg	13.4	13.4	1	12/20/16 10:38	12/21/16 09:36	95-63-6	
1,3,5-Trimethylbenzene	<46.7	ug/kg	46.7	14.0	1	12/20/16 10:38	12/21/16 09:36	108-67-8	
Vinyl chloride	<26.1	ug/kg	26.1	7.8	1	12/20/16 10:38	12/21/16 09:36	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB010\_25-30**      **Lab ID: 10373615011**      Collected: 12/16/16 08:30      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<163	ug/kg	163	48.8	1	12/20/16 10:38	12/21/16 09:36	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	91	%	75-129		1	12/20/16 10:38	12/21/16 09:36	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/20/16 10:38	12/21/16 09:36	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/20/16 10:38	12/21/16 09:36	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB010\_33-35**      **Lab ID: 10373615012**      Collected: 12/16/16 08:35      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	28.1	%	0.10	0.10	1		12/29/16 11:05		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<1.8	ug/kg	1.8	0.54	1	12/20/16 09:27	12/28/16 15:40	83-32-9	
Acenaphthylene	<1.3	ug/kg	1.3	0.38	1	12/20/16 09:27	12/28/16 15:40	208-96-8	
Anthracene	<2.1	ug/kg	2.1	0.63	1	12/20/16 09:27	12/28/16 15:40	120-12-7	
Benzo(a)anthracene	<2.2	ug/kg	2.2	0.65	1	12/20/16 09:27	12/28/16 15:40	56-55-3	
Benzo(a)pyrene	<1.6	ug/kg	1.6	0.48	1	12/20/16 09:27	12/28/16 15:40	50-32-8	
Benzo(b)fluoranthene	<2.6	ug/kg	2.6	0.79	1	12/20/16 09:27	12/28/16 15:40	205-99-2	
Benzo(g,h,i)perylene	<2.1	ug/kg	2.1	0.64	1	12/20/16 09:27	12/28/16 15:40	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	2.3	0.68	1	12/20/16 09:27	12/28/16 15:40	207-08-9	
Chrysene	<2.6	ug/kg	2.6	0.77	1	12/20/16 09:27	12/28/16 15:40	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.45	1	12/20/16 09:27	12/28/16 15:40	53-70-3	
Fluoranthene	<3.6	ug/kg	3.6	1.1	1	12/20/16 09:27	12/28/16 15:40	206-44-0	
Fluorene	<1.8	ug/kg	1.8	0.53	1	12/20/16 09:27	12/28/16 15:40	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.5	ug/kg	3.5	1.0	1	12/20/16 09:27	12/28/16 15:40	193-39-5	
Naphthalene	<1.6	ug/kg	1.6	0.50	1	12/20/16 09:27	12/28/16 15:40	91-20-3	
Phenanthrene	<1.9	ug/kg	1.9	0.56	1	12/20/16 09:27	12/28/16 15:40	85-01-8	
Pyrene	<3.8	ug/kg	3.8	1.1	1	12/20/16 09:27	12/28/16 15:40	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	65	%	41-125		1	12/20/16 09:27	12/28/16 15:40	321-60-8	
p-Terphenyl-d14 (S)	76	%	39-125		1	12/20/16 09:27	12/28/16 15:40	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1560	ug/kg	1560	469	1	12/20/16 10:38	12/21/16 09:04	67-64-1	
Allyl chloride	<204	ug/kg	204	61.4	1	12/20/16 10:38	12/21/16 09:04	107-05-1	
Benzene	<20.6	ug/kg	20.6	6.2	1	12/20/16 10:38	12/21/16 09:04	71-43-2	
Bromobenzene	<61.0	ug/kg	61.0	18.3	1	12/20/16 10:38	12/21/16 09:04	108-86-1	
Bromochloromethane	<71.0	ug/kg	71.0	21.3	1	12/20/16 10:38	12/21/16 09:04	74-97-5	
Bromodichloromethane	<66.7	ug/kg	66.7	20.0	1	12/20/16 10:38	12/21/16 09:04	75-27-4	
Bromoform	<205	ug/kg	205	61.7	1	12/20/16 10:38	12/21/16 09:04	75-25-2	
Bromomethane	<242	ug/kg	242	72.5	1	12/20/16 10:38	12/21/16 09:04	74-83-9	
2-Butanone (MEK)	<314	ug/kg	314	94.4	1	12/20/16 10:38	12/21/16 09:04	78-93-3	
n-Butylbenzene	<57.6	ug/kg	57.6	17.3	1	12/20/16 10:38	12/21/16 09:04	104-51-8	
sec-Butylbenzene	<56.2	ug/kg	56.2	16.9	1	12/20/16 10:38	12/21/16 09:04	135-98-8	
tert-Butylbenzene	<75.3	ug/kg	75.3	22.6	1	12/20/16 10:38	12/21/16 09:04	98-06-6	
Carbon tetrachloride	<74.8	ug/kg	74.8	22.5	1	12/20/16 10:38	12/21/16 09:04	56-23-5	
Chlorobenzene	<41.4	ug/kg	41.4	12.4	1	12/20/16 10:38	12/21/16 09:04	108-90-7	
Chloroethane	<376	ug/kg	376	113	1	12/20/16 10:38	12/21/16 09:04	75-00-3	
Chloroform	<116	ug/kg	116	34.8	1	12/20/16 10:38	12/21/16 09:04	67-66-3	
Chloromethane	<115	ug/kg	115	34.6	1	12/20/16 10:38	12/21/16 09:04	74-87-3	
2-Chlorotoluene	<65.7	ug/kg	65.7	19.7	1	12/20/16 10:38	12/21/16 09:04	95-49-8	
4-Chlorotoluene	<62.4	ug/kg	62.4	18.7	1	12/20/16 10:38	12/21/16 09:04	106-43-4	
1,2-Dibromo-3-chloropropane	<139	ug/kg	139	139	1	12/20/16 10:38	12/21/16 09:04	96-12-8	
Dibromochloromethane	<204	ug/kg	204	61.4	1	12/20/16 10:38	12/21/16 09:04	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Sample: **SB010\_33-35** Lab ID: **10373615012** Collected: 12/16/16 08:35 Received: 12/16/16 16:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<26.9	ug/kg	26.9	26.9	1	12/20/16 10:38	12/21/16 09:04	106-93-4	
Dibromomethane	<92.9	ug/kg	92.9	27.9	1	12/20/16 10:38	12/21/16 09:04	74-95-3	
1,2-Dichlorobenzene	<13.8	ug/kg	13.8	13.8	1	12/20/16 10:38	12/21/16 09:04	95-50-1	
1,3-Dichlorobenzene	<21.0	ug/kg	21.0	13.8	1	12/20/16 10:38	12/21/16 09:04	541-73-1	
1,4-Dichlorobenzene	<69.1	ug/kg	69.1	20.7	1	12/20/16 10:38	12/21/16 09:04	106-46-7	
Dichlorodifluoromethane	<72.9	ug/kg	72.9	21.9	1	12/20/16 10:38	12/21/16 09:04	75-71-8	
1,1-Dichloroethane	<27.8	ug/kg	27.8	27.8	1	12/20/16 10:38	12/21/16 09:04	75-34-3	
1,2-Dichloroethane	<22.6	ug/kg	22.6	22.6	1	12/20/16 10:38	12/21/16 09:04	107-06-2	
1,1-Dichloroethene	<18.2	ug/kg	18.2	18.2	1	12/20/16 10:38	12/21/16 09:04	75-35-4	
cis-1,2-Dichloroethene	<88.6	ug/kg	88.6	26.6	1	12/20/16 10:38	12/21/16 09:04	156-59-2	
trans-1,2-Dichloroethene	<115	ug/kg	115	34.5	1	12/20/16 10:38	12/21/16 09:04	156-60-5	
Dichlorofluoromethane	<653	ug/kg	653	196	1	12/20/16 10:38	12/21/16 09:04	75-43-4	
1,2-Dichloropropane	<24.7	ug/kg	24.7	24.7	1	12/20/16 10:38	12/21/16 09:04	78-87-5	
1,3-Dichloropropane	<85.3	ug/kg	85.3	25.6	1	12/20/16 10:38	12/21/16 09:04	142-28-9	
2,2-Dichloropropane	<75.7	ug/kg	75.7	22.7	1	12/20/16 10:38	12/21/16 09:04	594-20-7	
1,1-Dichloropropene	<21.6	ug/kg	21.6	21.6	1	12/20/16 10:38	12/21/16 09:04	563-58-6	
cis-1,3-Dichloropropene	<109	ug/kg	109	32.6	1	12/20/16 10:38	12/21/16 09:04	10061-01-5	
trans-1,3-Dichloropropene	<81.0	ug/kg	81.0	24.3	1	12/20/16 10:38	12/21/16 09:04	10061-02-6	
Diethyl ether (Ethyl ether)	<98.1	ug/kg	98.1	29.5	1	12/20/16 10:38	12/21/16 09:04	60-29-7	
Ethylbenzene	<75.7	ug/kg	75.7	22.7	1	12/20/16 10:38	12/21/16 09:04	100-41-4	
Hexachloro-1,3-butadiene	<224	ug/kg	224	67.2	1	12/20/16 10:38	12/21/16 09:04	87-68-3	
Isopropylbenzene (Cumene)	<84.8	ug/kg	84.8	25.5	1	12/20/16 10:38	12/21/16 09:04	98-82-8	
p-Isopropyltoluene	<39.5	ug/kg	39.5	11.9	1	12/20/16 10:38	12/21/16 09:04	99-87-6	
Methylene Chloride	<441	ug/kg	441	132	1	12/20/16 10:38	12/21/16 09:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	<158	ug/kg	158	47.4	1	12/20/16 10:38	12/21/16 09:04	108-10-1	
Methyl-tert-butyl ether	<44.6	ug/kg	44.6	13.4	1	12/20/16 10:38	12/21/16 09:04	1634-04-4	
Naphthalene	<57.6	ug/kg	57.6	17.3	1	12/20/16 10:38	12/21/16 09:04	91-20-3	
n-Propylbenzene	<71.0	ug/kg	71.0	21.3	1	12/20/16 10:38	12/21/16 09:04	103-65-1	
Styrene	<61.9	ug/kg	61.9	18.6	1	12/20/16 10:38	12/21/16 09:04	100-42-5	
1,1,1,2-Tetrachloroethane	<28.3	ug/kg	28.3	28.3	1	12/20/16 10:38	12/21/16 09:04	630-20-6	
1,1,2,2-Tetrachloroethane	<15.9	ug/kg	15.9	15.9	1	12/20/16 10:38	12/21/16 09:04	79-34-5	
Tetrachloroethene	<91.0	ug/kg	91.0	27.3	1	12/20/16 10:38	12/21/16 09:04	127-18-4	
Tetrahydrofuran	<1180	ug/kg	1180	355	1	12/20/16 10:38	12/21/16 09:04	109-99-9	
Toluene	<75.7	ug/kg	75.7	22.7	1	12/20/16 10:38	12/21/16 09:04	108-88-3	
1,2,3-Trichlorobenzene	<20.6	ug/kg	20.6	20.6	1	12/20/16 10:38	12/21/16 09:04	87-61-6	
1,2,4-Trichlorobenzene	<22.0	ug/kg	22.0	22.0	1	12/20/16 10:38	12/21/16 09:04	120-82-1	
1,1,1-Trichloroethane	<29.9	ug/kg	29.9	29.9	1	12/20/16 10:38	12/21/16 09:04	71-55-6	
1,1,2-Trichloroethane	<15.5	ug/kg	15.5	15.5	1	12/20/16 10:38	12/21/16 09:04	79-00-5	
Trichloroethene	<68.1	ug/kg	68.1	20.5	1	12/20/16 10:38	12/21/16 09:04	79-01-6	
Trichlorofluoromethane	<239	ug/kg	239	71.8	1	12/20/16 10:38	12/21/16 09:04	75-69-4	
1,2,3-Trichloropropane	<74.1	ug/kg	74.1	74.1	1	12/20/16 10:38	12/21/16 09:04	96-18-4	
1,1,2-Trichlorotrifluoroethane	<172	ug/kg	172	51.5	1	12/20/16 10:38	12/21/16 09:04	76-13-1	
1,2,4-Trimethylbenzene	<15.7	ug/kg	15.7	15.7	1	12/20/16 10:38	12/21/16 09:04	95-63-6	
1,3,5-Trimethylbenzene	<54.8	ug/kg	54.8	16.5	1	12/20/16 10:38	12/21/16 09:04	108-67-8	
Vinyl chloride	<30.6	ug/kg	30.6	9.2	1	12/20/16 10:38	12/21/16 09:04	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB010\_33-35**      **Lab ID: 10373615012**      Collected: 12/16/16 08:35      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Xylene (Total)	<191	ug/kg	191	57.2	1	12/20/16 10:38	12/21/16 09:04	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	96	%	75-129		1	12/20/16 10:38	12/21/16 09:04	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/20/16 10:38	12/21/16 09:04	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125		1	12/20/16 10:38	12/21/16 09:04	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB011\_8-10**      **Lab ID: 10373615013**      Collected: 12/16/16 09:10      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	21.9	%	0.10	0.10	1		12/29/16 12:23		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	27.6	ug/kg	1.7	0.50	1	12/20/16 09:27	12/28/16 16:01	83-32-9	
Acenaphthylene	3.8	ug/kg	1.2	0.35	1	12/20/16 09:27	12/28/16 16:01	208-96-8	
Anthracene	59.7	ug/kg	1.9	0.58	1	12/20/16 09:27	12/28/16 16:01	120-12-7	
Benzo(a)anthracene	142	ug/kg	2.0	0.60	1	12/20/16 09:27	12/28/16 16:01	56-55-3	
Benzo(a)pyrene	127	ug/kg	1.5	0.44	1	12/20/16 09:27	12/28/16 16:01	50-32-8	
Benzo(b)fluoranthene	147	ug/kg	2.4	0.73	1	12/20/16 09:27	12/28/16 16:01	205-99-2	
Benzo(g,h,i)perylene	75.4	ug/kg	2.0	0.59	1	12/20/16 09:27	12/28/16 16:01	191-24-2	
Benzo(k)fluoranthene	48.7	ug/kg	2.1	0.63	1	12/20/16 09:27	12/28/16 16:01	207-08-9	
Chrysene	113	ug/kg	2.4	0.71	1	12/20/16 09:27	12/28/16 16:01	218-01-9	
Dibenz(a,h)anthracene	20.0	ug/kg	1.4	0.42	1	12/20/16 09:27	12/28/16 16:01	53-70-3	
Fluoranthene	276	ug/kg	3.3	1.0	1	12/20/16 09:27	12/28/16 16:01	206-44-0	
Fluorene	28.0	ug/kg	1.6	0.49	1	12/20/16 09:27	12/28/16 16:01	86-73-7	
Indeno(1,2,3-cd)pyrene	68.4	ug/kg	3.2	0.96	1	12/20/16 09:27	12/28/16 16:01	193-39-5	
Naphthalene	22.0	ug/kg	1.5	0.46	1	12/20/16 09:27	12/28/16 16:01	91-20-3	
Phenanthrene	218	ug/kg	1.7	0.52	1	12/20/16 09:27	12/28/16 16:01	85-01-8	
Pyrene	234	ug/kg	3.5	1.1	1	12/20/16 09:27	12/28/16 16:01	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	83	%	41-125		1	12/20/16 09:27	12/28/16 16:01	321-60-8	
p-Terphenyl-d14 (S)	82	%	39-125		1	12/20/16 09:27	12/28/16 16:01	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1380	ug/kg	1380	414	1	12/20/16 13:02	12/21/16 14:25	67-64-1	
Allyl chloride	<180	ug/kg	180	54.2	1	12/20/16 13:02	12/21/16 14:25	107-05-1	
Benzene	22.2	ug/kg	18.2	5.5	1	12/20/16 13:02	12/21/16 14:25	71-43-2	
Bromobenzene	<53.8	ug/kg	53.8	16.2	1	12/20/16 13:02	12/21/16 14:25	108-86-1	
Bromochloromethane	<62.7	ug/kg	62.7	18.8	1	12/20/16 13:02	12/21/16 14:25	74-97-5	
Bromodichloromethane	<58.9	ug/kg	58.9	17.7	1	12/20/16 13:02	12/21/16 14:25	75-27-4	
Bromoform	<181	ug/kg	181	54.4	1	12/20/16 13:02	12/21/16 14:25	75-25-2	
Bromomethane	<213	ug/kg	213	64.0	1	12/20/16 13:02	12/21/16 14:25	74-83-9	
2-Butanone (MEK)	<278	ug/kg	278	83.3	1	12/20/16 13:02	12/21/16 14:25	78-93-3	
n-Butylbenzene	<50.9	ug/kg	50.9	15.3	1	12/20/16 13:02	12/21/16 14:25	104-51-8	
sec-Butylbenzene	<49.6	ug/kg	49.6	14.9	1	12/20/16 13:02	12/21/16 14:25	135-98-8	
tert-Butylbenzene	<66.4	ug/kg	66.4	20.0	1	12/20/16 13:02	12/21/16 14:25	98-06-6	
Carbon tetrachloride	<66.0	ug/kg	66.0	19.8	1	12/20/16 13:02	12/21/16 14:25	56-23-5	
Chlorobenzene	<36.6	ug/kg	36.6	11.0	1	12/20/16 13:02	12/21/16 14:25	108-90-7	
Chloroethane	<332	ug/kg	332	99.8	1	12/20/16 13:02	12/21/16 14:25	75-00-3	
Chloroform	<102	ug/kg	102	30.7	1	12/20/16 13:02	12/21/16 14:25	67-66-3	
Chloromethane	<102	ug/kg	102	30.6	1	12/20/16 13:02	12/21/16 14:25	74-87-3	
2-Chlorotoluene	<58.0	ug/kg	58.0	17.4	1	12/20/16 13:02	12/21/16 14:25	95-49-8	
4-Chlorotoluene	<55.1	ug/kg	55.1	16.5	1	12/20/16 13:02	12/21/16 14:25	106-43-4	
1,2-Dibromo-3-chloropropane	<123	ug/kg	123	123	1	12/20/16 13:02	12/21/16 14:25	96-12-8	
Dibromochloromethane	<180	ug/kg	180	54.2	1	12/20/16 13:02	12/21/16 14:25	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB011\_8-10**      **Lab ID: 10373615013**      Collected: 12/16/16 09:10      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<23.7	ug/kg	23.7	23.7	1	12/20/16 13:02	12/21/16 14:25	106-93-4	
Dibromomethane	<82.0	ug/kg	82.0	24.6	1	12/20/16 13:02	12/21/16 14:25	74-95-3	
1,2-Dichlorobenzene	<12.2	ug/kg	12.2	12.2	1	12/20/16 13:02	12/21/16 14:25	95-50-1	
1,3-Dichlorobenzene	<18.6	ug/kg	18.6	12.2	1	12/20/16 13:02	12/21/16 14:25	541-73-1	
1,4-Dichlorobenzene	<61.0	ug/kg	61.0	18.3	1	12/20/16 13:02	12/21/16 14:25	106-46-7	
Dichlorodifluoromethane	<64.3	ug/kg	64.3	19.3	1	12/20/16 13:02	12/21/16 14:25	75-71-8	
1,1-Dichloroethane	<24.5	ug/kg	24.5	24.5	1	12/20/16 13:02	12/21/16 14:25	75-34-3	
1,2-Dichloroethane	<20.0	ug/kg	20.0	20.0	1	12/20/16 13:02	12/21/16 14:25	107-06-2	
1,1-Dichloroethene	<16.0	ug/kg	16.0	16.0	1	12/20/16 13:02	12/21/16 14:25	75-35-4	
cis-1,2-Dichloroethene	<78.2	ug/kg	78.2	23.5	1	12/20/16 13:02	12/21/16 14:25	156-59-2	
trans-1,2-Dichloroethene	<101	ug/kg	101	30.4	1	12/20/16 13:02	12/21/16 14:25	156-60-5	
Dichlorofluoromethane	<576	ug/kg	576	173	1	12/20/16 13:02	12/21/16 14:25	75-43-4	
1,2-Dichloropropane	<21.8	ug/kg	21.8	21.8	1	12/20/16 13:02	12/21/16 14:25	78-87-5	
1,3-Dichloropropane	<75.3	ug/kg	75.3	22.6	1	12/20/16 13:02	12/21/16 14:25	142-28-9	
2,2-Dichloropropane	<66.9	ug/kg	66.9	20.1	1	12/20/16 13:02	12/21/16 14:25	594-20-7	
1,1-Dichloropropene	<19.1	ug/kg	19.1	19.1	1	12/20/16 13:02	12/21/16 14:25	563-58-6	
cis-1,3-Dichloropropene	<95.9	ug/kg	95.9	28.8	1	12/20/16 13:02	12/21/16 14:25	10061-01-5	
trans-1,3-Dichloropropene	<71.5	ug/kg	71.5	21.5	1	12/20/16 13:02	12/21/16 14:25	10061-02-6	
Diethyl ether (Ethyl ether)	<86.6	ug/kg	86.6	26.0	1	12/20/16 13:02	12/21/16 14:25	60-29-7	
Ethylbenzene	<66.9	ug/kg	66.9	20.1	1	12/20/16 13:02	12/21/16 14:25	100-41-4	
Hexachloro-1,3-butadiene	<198	ug/kg	198	59.4	1	12/20/16 13:02	12/21/16 14:25	87-68-3	
Isopropylbenzene (Cumene)	<74.9	ug/kg	74.9	22.5	1	12/20/16 13:02	12/21/16 14:25	98-82-8	
p-Isopropyltoluene	<34.9	ug/kg	34.9	10.5	1	12/20/16 13:02	12/21/16 14:25	99-87-6	
Methylene Chloride	<389	ug/kg	389	117	1	12/20/16 13:02	12/21/16 14:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	<139	ug/kg	139	41.8	1	12/20/16 13:02	12/21/16 14:25	108-10-1	
Methyl-tert-butyl ether	<39.4	ug/kg	39.4	11.8	1	12/20/16 13:02	12/21/16 14:25	1634-04-4	
Naphthalene	<50.9	ug/kg	50.9	15.3	1	12/20/16 13:02	12/21/16 14:25	91-20-3	
n-Propylbenzene	<62.7	ug/kg	62.7	18.8	1	12/20/16 13:02	12/21/16 14:25	103-65-1	
Styrene	<54.7	ug/kg	54.7	16.4	1	12/20/16 13:02	12/21/16 14:25	100-42-5	
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	25.0	25.0	1	12/20/16 13:02	12/21/16 14:25	630-20-6	
1,1,1,2,2-Tetrachloroethane	<14.0	ug/kg	14.0	14.0	1	12/20/16 13:02	12/21/16 14:25	79-34-5	
Tetrachloroethene	<80.3	ug/kg	80.3	24.1	1	12/20/16 13:02	12/21/16 14:25	127-18-4	
Tetrahydrofuran	<1040	ug/kg	1040	313	1	12/20/16 13:02	12/21/16 14:25	109-99-9	
Toluene	<66.9	ug/kg	66.9	20.1	1	12/20/16 13:02	12/21/16 14:25	108-88-3	
1,2,3-Trichlorobenzene	<18.2	ug/kg	18.2	18.2	1	12/20/16 13:02	12/21/16 14:25	87-61-6	
1,2,4-Trichlorobenzene	<19.4	ug/kg	19.4	19.4	1	12/20/16 13:02	12/21/16 14:25	120-82-1	
1,1,1-Trichloroethane	<26.4	ug/kg	26.4	26.4	1	12/20/16 13:02	12/21/16 14:25	71-55-6	
1,1,2-Trichloroethane	<13.6	ug/kg	13.6	13.6	1	12/20/16 13:02	12/21/16 14:25	79-00-5	
Trichloroethene	<60.1	ug/kg	60.1	18.1	1	12/20/16 13:02	12/21/16 14:25	79-01-6	
Trichlorofluoromethane	<211	ug/kg	211	63.4	1	12/20/16 13:02	12/21/16 14:25	75-69-4	
1,2,3-Trichloropropane	<65.4	ug/kg	65.4	65.4	1	12/20/16 13:02	12/21/16 14:25	96-18-4	
1,1,2-Trichlorotrifluoroethane	<151	ug/kg	151	45.5	1	12/20/16 13:02	12/21/16 14:25	76-13-1	
1,2,4-Trimethylbenzene	<13.9	ug/kg	13.9	13.9	1	12/20/16 13:02	12/21/16 14:25	95-63-6	
1,3,5-Trimethylbenzene	<48.4	ug/kg	48.4	14.5	1	12/20/16 13:02	12/21/16 14:25	108-67-8	
Vinyl chloride	<27.0	ug/kg	27.0	8.1	1	12/20/16 13:02	12/21/16 14:25	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB011\_8-10**      **Lab ID: 10373615013**      Collected: 12/16/16 09:10      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<168	ug/kg	168	50.5	1	12/20/16 13:02	12/21/16 14:25	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	94	%	75-129		1	12/20/16 13:02	12/21/16 14:25	17060-07-0	
Toluene-d8 (S)	92	%	75-125		1	12/20/16 13:02	12/21/16 14:25	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125		1	12/20/16 13:02	12/21/16 14:25	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB011\_10-18**      **Lab ID: 10373615014**      Collected: 12/16/16 09:15      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	37.4	%	0.10	0.10	1		12/29/16 12:24		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	42.7	ug/kg	2.1	0.62	1	12/20/16 09:27	12/28/16 16:22	83-32-9	
Acenaphthylene	17.8	ug/kg	1.4	0.43	1	12/20/16 09:27	12/28/16 16:22	208-96-8	
Anthracene	46.4	ug/kg	2.4	0.72	1	12/20/16 09:27	12/28/16 16:22	120-12-7	
Benzo(a)anthracene	126	ug/kg	2.5	0.75	1	12/20/16 09:27	12/28/16 16:22	56-55-3	
Benzo(a)pyrene	113	ug/kg	1.8	0.55	1	12/20/16 09:27	12/28/16 16:22	50-32-8	
Benzo(b)fluoranthene	140	ug/kg	3.0	0.91	1	12/20/16 09:27	12/28/16 16:22	205-99-2	
Benzo(g,h,i)perylene	73.1	ug/kg	2.4	0.73	1	12/20/16 09:27	12/28/16 16:22	191-24-2	
Benzo(k)fluoranthene	41.8	ug/kg	2.6	0.78	1	12/20/16 09:27	12/28/16 16:22	207-08-9	
Chrysene	142	ug/kg	2.9	0.88	1	12/20/16 09:27	12/28/16 16:22	218-01-9	
Dibenz(a,h)anthracene	19.8	ug/kg	1.7	0.52	1	12/20/16 09:27	12/28/16 16:22	53-70-3	
Fluoranthene	287	ug/kg	4.2	1.2	1	12/20/16 09:27	12/28/16 16:22	206-44-0	
Fluorene	76.8	ug/kg	2.0	0.61	1	12/20/16 09:27	12/28/16 16:22	86-73-7	
Indeno(1,2,3-cd)pyrene	63.1	ug/kg	4.0	1.2	1	12/20/16 09:27	12/28/16 16:22	193-39-5	
Naphthalene	30.1	ug/kg	1.9	0.57	1	12/20/16 09:27	12/28/16 16:22	91-20-3	
Phenanthrene	314	ug/kg	2.1	0.64	1	12/20/16 09:27	12/28/16 16:22	85-01-8	
Pyrene	268	ug/kg	4.4	1.3	1	12/20/16 09:27	12/28/16 16:22	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	85	%	41-125		1	12/20/16 09:27	12/28/16 16:22	321-60-8	
p-Terphenyl-d14 (S)	74	%	39-125		1	12/20/16 09:27	12/28/16 16:22	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1910	ug/kg	1910	572	1	12/20/16 13:02	12/21/16 14:41	67-64-1	
Allyl chloride	<249	ug/kg	249	74.8	1	12/20/16 13:02	12/21/16 14:41	107-05-1	
Benzene	<25.1	ug/kg	25.1	7.5	1	12/20/16 13:02	12/21/16 14:41	71-43-2	
Bromobenzene	<74.4	ug/kg	74.4	22.3	1	12/20/16 13:02	12/21/16 14:41	108-86-1	
Bromochloromethane	<86.6	ug/kg	86.6	26.0	1	12/20/16 13:02	12/21/16 14:41	74-97-5	
Bromodichloromethane	<81.3	ug/kg	81.3	24.4	1	12/20/16 13:02	12/21/16 14:41	75-27-4	
Bromoform	<250	ug/kg	250	75.2	1	12/20/16 13:02	12/21/16 14:41	75-25-2	
Bromomethane	<295	ug/kg	295	88.5	1	12/20/16 13:02	12/21/16 14:41	74-83-9	
2-Butanone (MEK)	<383	ug/kg	383	115	1	12/20/16 13:02	12/21/16 14:41	78-93-3	
n-Butylbenzene	221	ug/kg	70.3	21.1	1	12/20/16 13:02	12/21/16 14:41	104-51-8	
sec-Butylbenzene	157	ug/kg	68.6	20.6	1	12/20/16 13:02	12/21/16 14:41	135-98-8	
tert-Butylbenzene	<91.8	ug/kg	91.8	27.6	1	12/20/16 13:02	12/21/16 14:41	98-06-6	
Carbon tetrachloride	<91.2	ug/kg	91.2	27.4	1	12/20/16 13:02	12/21/16 14:41	56-23-5	
Chlorobenzene	<50.5	ug/kg	50.5	15.2	1	12/20/16 13:02	12/21/16 14:41	108-90-7	
Chloroethane	<459	ug/kg	459	138	1	12/20/16 13:02	12/21/16 14:41	75-00-3	
Chloroform	<141	ug/kg	141	42.4	1	12/20/16 13:02	12/21/16 14:41	67-66-3	
Chloromethane	<141	ug/kg	141	42.2	1	12/20/16 13:02	12/21/16 14:41	74-87-3	
2-Chlorotoluene	<80.2	ug/kg	80.2	24.1	1	12/20/16 13:02	12/21/16 14:41	95-49-8	
4-Chlorotoluene	<76.1	ug/kg	76.1	22.9	1	12/20/16 13:02	12/21/16 14:41	106-43-4	
1,2-Dibromo-3-chloropropane	<170	ug/kg	170	170	1	12/20/16 13:02	12/21/16 14:41	96-12-8	
Dibromochloromethane	<249	ug/kg	249	74.8	1	12/20/16 13:02	12/21/16 14:41	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Sample: **SB011\_10-18** Lab ID: **10373615014** Collected: 12/16/16 09:15 Received: 12/16/16 16:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<32.8	ug/kg	32.8	32.8	1	12/20/16 13:02	12/21/16 14:41	106-93-4	
Dibromomethane	<113	ug/kg	113	34.0	1	12/20/16 13:02	12/21/16 14:41	74-95-3	
1,2-Dichlorobenzene	26.0	ug/kg	16.9	16.9	1	12/20/16 13:02	12/21/16 14:41	95-50-1	
1,3-Dichlorobenzene	<25.6	ug/kg	25.6	16.9	1	12/20/16 13:02	12/21/16 14:41	541-73-1	
1,4-Dichlorobenzene	<84.2	ug/kg	84.2	25.3	1	12/20/16 13:02	12/21/16 14:41	106-46-7	
Dichlorodifluoromethane	<88.9	ug/kg	88.9	26.7	1	12/20/16 13:02	12/21/16 14:41	75-71-8	
1,1-Dichloroethane	<33.8	ug/kg	33.8	33.8	1	12/20/16 13:02	12/21/16 14:41	75-34-3	
1,2-Dichloroethane	<27.6	ug/kg	27.6	27.6	1	12/20/16 13:02	12/21/16 14:41	107-06-2	
1,1-Dichloroethene	<22.2	ug/kg	22.2	22.2	1	12/20/16 13:02	12/21/16 14:41	75-35-4	
cis-1,2-Dichloroethene	<108	ug/kg	108	32.5	1	12/20/16 13:02	12/21/16 14:41	156-59-2	
trans-1,2-Dichloroethene	<140	ug/kg	140	42.0	1	12/20/16 13:02	12/21/16 14:41	156-60-5	
Dichlorofluoromethane	<796	ug/kg	796	239	1	12/20/16 13:02	12/21/16 14:41	75-43-4	
1,2-Dichloropropane	<30.2	ug/kg	30.2	30.2	1	12/20/16 13:02	12/21/16 14:41	78-87-5	
1,3-Dichloropropane	<104	ug/kg	104	31.2	1	12/20/16 13:02	12/21/16 14:41	142-28-9	
2,2-Dichloropropane	<92.4	ug/kg	92.4	27.7	1	12/20/16 13:02	12/21/16 14:41	594-20-7	
1,1-Dichloropropene	<26.3	ug/kg	26.3	26.3	1	12/20/16 13:02	12/21/16 14:41	563-58-6	
cis-1,3-Dichloropropene	<132	ug/kg	132	39.8	1	12/20/16 13:02	12/21/16 14:41	10061-01-5	
trans-1,3-Dichloropropene	<98.8	ug/kg	98.8	29.7	1	12/20/16 13:02	12/21/16 14:41	10061-02-6	
Diethyl ether (Ethyl ether)	<120	ug/kg	120	35.9	1	12/20/16 13:02	12/21/16 14:41	60-29-7	
Ethylbenzene	<92.4	ug/kg	92.4	27.7	1	12/20/16 13:02	12/21/16 14:41	100-41-4	
Hexachloro-1,3-butadiene	<273	ug/kg	273	82.0	1	12/20/16 13:02	12/21/16 14:41	87-68-3	
Isopropylbenzene (Cumene)	<103	ug/kg	103	31.1	1	12/20/16 13:02	12/21/16 14:41	98-82-8	
p-Isopropyltoluene	275	ug/kg	48.2	14.5	1	12/20/16 13:02	12/21/16 14:41	99-87-6	
Methylene Chloride	<538	ug/kg	538	162	1	12/20/16 13:02	12/21/16 14:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	<192	ug/kg	192	57.7	1	12/20/16 13:02	12/21/16 14:41	108-10-1	
Methyl-tert-butyl ether	<54.4	ug/kg	54.4	16.3	1	12/20/16 13:02	12/21/16 14:41	1634-04-4	
Naphthalene	151	ug/kg	70.3	21.1	1	12/20/16 13:02	12/21/16 14:41	91-20-3	
n-Propylbenzene	<86.6	ug/kg	86.6	26.0	1	12/20/16 13:02	12/21/16 14:41	103-65-1	
Styrene	<75.5	ug/kg	75.5	22.7	1	12/20/16 13:02	12/21/16 14:41	100-42-5	
1,1,1,2-Tetrachloroethane	<34.5	ug/kg	34.5	34.5	1	12/20/16 13:02	12/21/16 14:41	630-20-6	
1,1,2,2-Tetrachloroethane	<19.4	ug/kg	19.4	19.4	1	12/20/16 13:02	12/21/16 14:41	79-34-5	
Tetrachloroethene	<111	ug/kg	111	33.3	1	12/20/16 13:02	12/21/16 14:41	127-18-4	
Tetrahydrofuran	<1440	ug/kg	1440	433	1	12/20/16 13:02	12/21/16 14:41	109-99-9	
Toluene	<92.4	ug/kg	92.4	27.7	1	12/20/16 13:02	12/21/16 14:41	108-88-3	
1,2,3-Trichlorobenzene	<25.1	ug/kg	25.1	25.1	1	12/20/16 13:02	12/21/16 14:41	87-61-6	
1,2,4-Trichlorobenzene	<26.9	ug/kg	26.9	26.9	1	12/20/16 13:02	12/21/16 14:41	120-82-1	
1,1,1-Trichloroethane	<36.5	ug/kg	36.5	36.5	1	12/20/16 13:02	12/21/16 14:41	71-55-6	
1,1,2-Trichloroethane	<18.8	ug/kg	18.8	18.8	1	12/20/16 13:02	12/21/16 14:41	79-00-5	
Trichloroethene	<83.1	ug/kg	83.1	24.9	1	12/20/16 13:02	12/21/16 14:41	79-01-6	
Trichlorofluoromethane	<292	ug/kg	292	87.6	1	12/20/16 13:02	12/21/16 14:41	75-69-4	
1,2,3-Trichloropropane	<90.4	ug/kg	90.4	90.4	1	12/20/16 13:02	12/21/16 14:41	96-18-4	
1,1,2-Trichlorotrifluoroethane	<209	ug/kg	209	62.8	1	12/20/16 13:02	12/21/16 14:41	76-13-1	
1,2,4-Trimethylbenzene	1230	ug/kg	19.2	19.2	1	12/20/16 13:02	12/21/16 14:41	95-63-6	
1,3,5-Trimethylbenzene	397	ug/kg	66.8	20.1	1	12/20/16 13:02	12/21/16 14:41	108-67-8	
Vinyl chloride	<37.3	ug/kg	37.3	11.2	1	12/20/16 13:02	12/21/16 14:41	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB011\_10-18**      **Lab ID: 10373615014**      Collected: 12/16/16 09:15      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<232	ug/kg	232	69.8	1	12/20/16 13:02	12/21/16 14:41	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	99	%	75-129		1	12/20/16 13:02	12/21/16 14:41	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/20/16 13:02	12/21/16 14:41	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/20/16 13:02	12/21/16 14:41	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB011\_10-18D**      **Lab ID: 10373615015**      Collected: 12/16/16 09:15      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>42.3</b>	%	0.10	0.10	1		12/29/16 12:24		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<b>45.3</b>	ug/kg	2.3	0.68	1	12/20/16 09:27	12/28/16 16:42	83-32-9	
Acenaphthylene	<b>17.0</b>	ug/kg	1.6	0.47	1	12/20/16 09:27	12/28/16 16:42	208-96-8	
Anthracene	<b>46.9</b>	ug/kg	2.6	0.79	1	12/20/16 09:27	12/28/16 16:42	120-12-7	
Benzo(a)anthracene	<b>152</b>	ug/kg	2.7	0.81	1	12/20/16 09:27	12/28/16 16:42	56-55-3	
Benzo(a)pyrene	<b>146</b>	ug/kg	2.0	0.60	1	12/20/16 09:27	12/28/16 16:42	50-32-8	
Benzo(b)fluoranthene	<b>168</b>	ug/kg	3.3	0.99	1	12/20/16 09:27	12/28/16 16:42	205-99-2	
Benzo(g,h,i)perylene	<b>91.1</b>	ug/kg	2.6	0.79	1	12/20/16 09:27	12/28/16 16:42	191-24-2	
Benzo(k)fluoranthene	<b>61.7</b>	ug/kg	2.8	0.85	1	12/20/16 09:27	12/28/16 16:42	207-08-9	
Chrysene	<b>168</b>	ug/kg	3.2	0.96	1	12/20/16 09:27	12/28/16 16:42	218-01-9	
Dibenz(a,h)anthracene	<b>24.2</b>	ug/kg	1.9	0.57	1	12/20/16 09:27	12/28/16 16:42	53-70-3	
Fluoranthene	<b>331</b>	ug/kg	4.5	1.4	1	12/20/16 09:27	12/28/16 16:42	206-44-0	
Fluorene	<b>65.5</b>	ug/kg	2.2	0.66	1	12/20/16 09:27	12/28/16 16:42	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>79.9</b>	ug/kg	4.3	1.3	1	12/20/16 09:27	12/28/16 16:42	193-39-5	
Naphthalene	<b>25.8</b>	ug/kg	2.1	0.62	1	12/20/16 09:27	12/28/16 16:42	91-20-3	
Phenanthrene	<b>312</b>	ug/kg	2.3	0.70	1	12/20/16 09:27	12/28/16 16:42	85-01-8	
Pyrene	<b>298</b>	ug/kg	4.8	1.4	1	12/20/16 09:27	12/28/16 16:42	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	86	%	41-125		1	12/20/16 09:27	12/28/16 16:42	321-60-8	
p-Terphenyl-d14 (S)	78	%	39-125		1	12/20/16 09:27	12/28/16 16:42	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<b>&lt;1950</b>	ug/kg	1950	586	1	12/20/16 13:02	12/21/16 14:57	67-64-1	
Allyl chloride	<b>&lt;255</b>	ug/kg	255	76.7	1	12/20/16 13:02	12/21/16 14:57	107-05-1	
Benzene	<b>&lt;25.7</b>	ug/kg	25.7	7.7	1	12/20/16 13:02	12/21/16 14:57	71-43-2	
Bromobenzene	<b>&lt;76.2</b>	ug/kg	76.2	22.9	1	12/20/16 13:02	12/21/16 14:57	108-86-1	
Bromochloromethane	<b>&lt;88.7</b>	ug/kg	88.7	26.6	1	12/20/16 13:02	12/21/16 14:57	74-97-5	
Bromodichloromethane	<b>&lt;83.3</b>	ug/kg	83.3	25.0	1	12/20/16 13:02	12/21/16 14:57	75-27-4	
Bromoform	<b>&lt;256</b>	ug/kg	256	77.0	1	12/20/16 13:02	12/21/16 14:57	75-25-2	
Bromomethane	<b>&lt;302</b>	ug/kg	302	90.6	1	12/20/16 13:02	12/21/16 14:57	74-83-9	
2-Butanone (MEK)	<b>&lt;393</b>	ug/kg	393	118	1	12/20/16 13:02	12/21/16 14:57	78-93-3	
n-Butylbenzene	<b>204</b>	ug/kg	72.0	21.6	1	12/20/16 13:02	12/21/16 14:57	104-51-8	
sec-Butylbenzene	<b>130</b>	ug/kg	70.2	21.1	1	12/20/16 13:02	12/21/16 14:57	135-98-8	
tert-Butylbenzene	<b>&lt;94.0</b>	ug/kg	94.0	28.2	1	12/20/16 13:02	12/21/16 14:57	98-06-6	
Carbon tetrachloride	<b>&lt;93.4</b>	ug/kg	93.4	28.1	1	12/20/16 13:02	12/21/16 14:57	56-23-5	
Chlorobenzene	<b>&lt;51.8</b>	ug/kg	51.8	15.5	1	12/20/16 13:02	12/21/16 14:57	108-90-7	
Chloroethane	<b>&lt;470</b>	ug/kg	470	141	1	12/20/16 13:02	12/21/16 14:57	75-00-3	
Chloroform	<b>&lt;145</b>	ug/kg	145	43.4	1	12/20/16 13:02	12/21/16 14:57	67-66-3	
Chloromethane	<b>&lt;144</b>	ug/kg	144	43.2	1	12/20/16 13:02	12/21/16 14:57	74-87-3	
2-Chlorotoluene	<b>&lt;82.1</b>	ug/kg	82.1	24.7	1	12/20/16 13:02	12/21/16 14:57	95-49-8	
4-Chlorotoluene	<b>&lt;78.0</b>	ug/kg	78.0	23.4	1	12/20/16 13:02	12/21/16 14:57	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;174</b>	ug/kg	174	174	1	12/20/16 13:02	12/21/16 14:57	96-12-8	
Dibromochloromethane	<b>&lt;255</b>	ug/kg	255	76.7	1	12/20/16 13:02	12/21/16 14:57	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Sample: **SB011\_10-18D** Lab ID: **10373615015** Collected: 12/16/16 09:15 Received: 12/16/16 16:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<33.6	ug/kg	33.6	33.6	1	12/20/16 13:02	12/21/16 14:57	106-93-4	
Dibromomethane	<116	ug/kg	116	34.8	1	12/20/16 13:02	12/21/16 14:57	74-95-3	
1,2-Dichlorobenzene	19.9	ug/kg	17.3	17.3	1	12/20/16 13:02	12/21/16 14:57	95-50-1	
1,3-Dichlorobenzene	<26.3	ug/kg	26.3	17.3	1	12/20/16 13:02	12/21/16 14:57	541-73-1	
1,4-Dichlorobenzene	<86.3	ug/kg	86.3	25.9	1	12/20/16 13:02	12/21/16 14:57	106-46-7	
Dichlorodifluoromethane	<91.1	ug/kg	91.1	27.3	1	12/20/16 13:02	12/21/16 14:57	75-71-8	
1,1-Dichloroethane	<34.7	ug/kg	34.7	34.7	1	12/20/16 13:02	12/21/16 14:57	75-34-3	
1,2-Dichloroethane	<28.2	ug/kg	28.2	28.2	1	12/20/16 13:02	12/21/16 14:57	107-06-2	
1,1-Dichloroethene	<22.7	ug/kg	22.7	22.7	1	12/20/16 13:02	12/21/16 14:57	75-35-4	
cis-1,2-Dichloroethene	<111	ug/kg	111	33.2	1	12/20/16 13:02	12/21/16 14:57	156-59-2	
trans-1,2-Dichloroethene	<143	ug/kg	143	43.1	1	12/20/16 13:02	12/21/16 14:57	156-60-5	
Dichlorofluoromethane	<815	ug/kg	815	245	1	12/20/16 13:02	12/21/16 14:57	75-43-4	
1,2-Dichloropropane	<30.9	ug/kg	30.9	30.9	1	12/20/16 13:02	12/21/16 14:57	78-87-5	
1,3-Dichloropropane	<107	ug/kg	107	32.0	1	12/20/16 13:02	12/21/16 14:57	142-28-9	
2,2-Dichloropropane	<94.6	ug/kg	94.6	28.4	1	12/20/16 13:02	12/21/16 14:57	594-20-7	
1,1-Dichloropropene	<27.0	ug/kg	27.0	27.0	1	12/20/16 13:02	12/21/16 14:57	563-58-6	
cis-1,3-Dichloropropene	<136	ug/kg	136	40.7	1	12/20/16 13:02	12/21/16 14:57	10061-01-5	
trans-1,3-Dichloropropene	<101	ug/kg	101	30.4	1	12/20/16 13:02	12/21/16 14:57	10061-02-6	
Diethyl ether (Ethyl ether)	<123	ug/kg	123	36.8	1	12/20/16 13:02	12/21/16 14:57	60-29-7	
Ethylbenzene	<94.6	ug/kg	94.6	28.4	1	12/20/16 13:02	12/21/16 14:57	100-41-4	
Hexachloro-1,3-butadiene	<280	ug/kg	280	84.0	1	12/20/16 13:02	12/21/16 14:57	87-68-3	
Isopropylbenzene (Cumene)	<106	ug/kg	106	31.8	1	12/20/16 13:02	12/21/16 14:57	98-82-8	
p-Isopropyltoluene	212	ug/kg	49.4	14.8	1	12/20/16 13:02	12/21/16 14:57	99-87-6	
Methylene Chloride	<551	ug/kg	551	165	1	12/20/16 13:02	12/21/16 14:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	<197	ug/kg	197	59.2	1	12/20/16 13:02	12/21/16 14:57	108-10-1	
Methyl-tert-butyl ether	<55.7	ug/kg	55.7	16.7	1	12/20/16 13:02	12/21/16 14:57	1634-04-4	
Naphthalene	158	ug/kg	72.0	21.6	1	12/20/16 13:02	12/21/16 14:57	91-20-3	
n-Propylbenzene	<88.7	ug/kg	88.7	26.6	1	12/20/16 13:02	12/21/16 14:57	103-65-1	
Styrene	<77.4	ug/kg	77.4	23.2	1	12/20/16 13:02	12/21/16 14:57	100-42-5	
1,1,1,2-Tetrachloroethane	<35.4	ug/kg	35.4	35.4	1	12/20/16 13:02	12/21/16 14:57	630-20-6	
1,1,2,2-Tetrachloroethane	<19.8	ug/kg	19.8	19.8	1	12/20/16 13:02	12/21/16 14:57	79-34-5	
Tetrachloroethene	<114	ug/kg	114	34.1	1	12/20/16 13:02	12/21/16 14:57	127-18-4	
Tetrahydrofuran	<1480	ug/kg	1480	443	1	12/20/16 13:02	12/21/16 14:57	109-99-9	
Toluene	<94.6	ug/kg	94.6	28.4	1	12/20/16 13:02	12/21/16 14:57	108-88-3	
1,2,3-Trichlorobenzene	<25.7	ug/kg	25.7	25.7	1	12/20/16 13:02	12/21/16 14:57	87-61-6	
1,2,4-Trichlorobenzene	<27.5	ug/kg	27.5	27.5	1	12/20/16 13:02	12/21/16 14:57	120-82-1	
1,1,1-Trichloroethane	<37.4	ug/kg	37.4	37.4	1	12/20/16 13:02	12/21/16 14:57	71-55-6	
1,1,2-Trichloroethane	<19.3	ug/kg	19.3	19.3	1	12/20/16 13:02	12/21/16 14:57	79-00-5	
Trichloroethene	<85.1	ug/kg	85.1	25.6	1	12/20/16 13:02	12/21/16 14:57	79-01-6	
Trichlorofluoromethane	<299	ug/kg	299	89.7	1	12/20/16 13:02	12/21/16 14:57	75-69-4	
1,2,3-Trichloropropane	<92.6	ug/kg	92.6	92.6	1	12/20/16 13:02	12/21/16 14:57	96-18-4	
1,1,2-Trichlorotrifluoroethane	<214	ug/kg	214	64.3	1	12/20/16 13:02	12/21/16 14:57	76-13-1	
1,2,4-Trimethylbenzene	986	ug/kg	19.7	19.7	1	12/20/16 13:02	12/21/16 14:57	95-63-6	
1,3,5-Trimethylbenzene	324	ug/kg	68.4	20.6	1	12/20/16 13:02	12/21/16 14:57	108-67-8	
Vinyl chloride	<38.2	ug/kg	38.2	11.5	1	12/20/16 13:02	12/21/16 14:57	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB011\_10-18D**      **Lab ID: 10373615015**      Collected: 12/16/16 09:15      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<238	ug/kg	238	71.5	1	12/20/16 13:02	12/21/16 14:57	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	94	%	75-129		1	12/20/16 13:02	12/21/16 14:57	17060-07-0	
Toluene-d8 (S)	108	%	75-125		1	12/20/16 13:02	12/21/16 14:57	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125		1	12/20/16 13:02	12/21/16 14:57	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Sample: **SB011\_18-22** Lab ID: **10373615016** Collected: 12/16/16 09:25 Received: 12/16/16 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	57.4	%	0.10	0.10	1		12/29/16 12:24		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	1650	ug/kg	30.4	9.1	10	12/20/16 09:27	12/28/16 18:46	83-32-9	
Acenaphthylene	326	ug/kg	21.2	6.4	10	12/20/16 09:27	12/28/16 18:46	208-96-8	
Anthracene	2780	ug/kg	35.3	10.6	10	12/20/16 09:27	12/28/16 18:46	120-12-7	
Benzo(a)anthracene	7690	ug/kg	36.5	11.0	10	12/20/16 09:27	12/28/16 18:46	56-55-3	
Benzo(a)pyrene	6290	ug/kg	27.0	8.1	10	12/20/16 09:27	12/28/16 18:46	50-32-8	
Benzo(b)fluoranthene	7150	ug/kg	44.6	13.4	10	12/20/16 09:27	12/28/16 18:46	205-99-2	
Benzo(g,h,i)perylene	3600	ug/kg	35.6	10.7	10	12/20/16 09:27	12/28/16 18:46	191-24-2	
Benzo(k)fluoranthene	2290	ug/kg	38.3	11.5	10	12/20/16 09:27	12/28/16 18:46	207-08-9	
Chrysene	6720	ug/kg	43.2	13.0	10	12/20/16 09:27	12/28/16 18:46	218-01-9	
Dibenz(a,h)anthracene	955	ug/kg	25.4	7.6	10	12/20/16 09:27	12/28/16 18:46	53-70-3	
Fluoranthene	15900	ug/kg	305	91.5	50	12/20/16 09:27	12/29/16 13:43	206-44-0	
Fluorene	1620	ug/kg	29.9	9.0	10	12/20/16 09:27	12/28/16 18:46	86-73-7	
Indeno(1,2,3-cd)pyrene	3240	ug/kg	58.3	17.5	10	12/20/16 09:27	12/28/16 18:46	193-39-5	
Naphthalene	913	ug/kg	27.8	8.3	10	12/20/16 09:27	12/28/16 18:46	91-20-3	
Phenanthrene	14100	ug/kg	157	47.1	50	12/20/16 09:27	12/29/16 13:43	85-01-8	
Pyrene	14300	ug/kg	322	96.8	50	12/20/16 09:27	12/29/16 13:43	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	83	%	41-125		10	12/20/16 09:27	12/28/16 18:46	321-60-8	D4
p-Terphenyl-d14 (S)	9	%	39-125		10	12/20/16 09:27	12/28/16 18:46	1718-51-0	S4
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<2660	ug/kg	2660	800	1	12/20/16 13:02	12/21/16 15:13	67-64-1	
Allyl chloride	<348	ug/kg	348	105	1	12/20/16 13:02	12/21/16 15:13	107-05-1	
Benzene	<35.1	ug/kg	35.1	10.5	1	12/20/16 13:02	12/21/16 15:13	71-43-2	
Bromobenzene	<104	ug/kg	104	31.2	1	12/20/16 13:02	12/21/16 15:13	108-86-1	
Bromochloromethane	<121	ug/kg	121	36.3	1	12/20/16 13:02	12/21/16 15:13	74-97-5	
Bromodichloromethane	<114	ug/kg	114	34.1	1	12/20/16 13:02	12/21/16 15:13	75-27-4	
Bromoform	<350	ug/kg	350	105	1	12/20/16 13:02	12/21/16 15:13	75-25-2	
Bromomethane	<412	ug/kg	412	124	1	12/20/16 13:02	12/21/16 15:13	74-83-9	
2-Butanone (MEK)	<536	ug/kg	536	161	1	12/20/16 13:02	12/21/16 15:13	78-93-3	
n-Butylbenzene	<98.2	ug/kg	98.2	29.5	1	12/20/16 13:02	12/21/16 15:13	104-51-8	
sec-Butylbenzene	<95.8	ug/kg	95.8	28.8	1	12/20/16 13:02	12/21/16 15:13	135-98-8	
tert-Butylbenzene	<128	ug/kg	128	38.5	1	12/20/16 13:02	12/21/16 15:13	98-06-6	
Carbon tetrachloride	<127	ug/kg	127	38.3	1	12/20/16 13:02	12/21/16 15:13	56-23-5	
Chlorobenzene	<70.6	ug/kg	70.6	21.2	1	12/20/16 13:02	12/21/16 15:13	108-90-7	
Chloroethane	<641	ug/kg	641	193	1	12/20/16 13:02	12/21/16 15:13	75-00-3	
Chloroform	<197	ug/kg	197	59.2	1	12/20/16 13:02	12/21/16 15:13	67-66-3	
Chloromethane	<196	ug/kg	196	59.0	1	12/20/16 13:02	12/21/16 15:13	74-87-3	
2-Chlorotoluene	<112	ug/kg	112	33.6	1	12/20/16 13:02	12/21/16 15:13	95-49-8	
4-Chlorotoluene	<106	ug/kg	106	31.9	1	12/20/16 13:02	12/21/16 15:13	106-43-4	
1,2-Dibromo-3-chloropropane	<238	ug/kg	238	238	1	12/20/16 13:02	12/21/16 15:13	96-12-8	
Dibromochloromethane	<348	ug/kg	348	105	1	12/20/16 13:02	12/21/16 15:13	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Sample: **SB011\_18-22** Lab ID: **10373615016** Collected: 12/16/16 09:25 Received: 12/16/16 16:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<45.8	ug/kg	45.8	45.8	1	12/20/16 13:02	12/21/16 15:13	106-93-4	
Dibromomethane	<158	ug/kg	158	47.5	1	12/20/16 13:02	12/21/16 15:13	74-95-3	
1,2-Dichlorobenzene	<23.6	ug/kg	23.6	23.6	1	12/20/16 13:02	12/21/16 15:13	95-50-1	
1,3-Dichlorobenzene	<35.8	ug/kg	35.8	23.6	1	12/20/16 13:02	12/21/16 15:13	541-73-1	
1,4-Dichlorobenzene	<118	ug/kg	118	35.3	1	12/20/16 13:02	12/21/16 15:13	106-46-7	
Dichlorodifluoromethane	<124	ug/kg	124	37.3	1	12/20/16 13:02	12/21/16 15:13	75-71-8	
1,1-Dichloroethane	<47.3	ug/kg	47.3	47.3	1	12/20/16 13:02	12/21/16 15:13	75-34-3	
1,2-Dichloroethane	<38.5	ug/kg	38.5	38.5	1	12/20/16 13:02	12/21/16 15:13	107-06-2	
1,1-Dichloroethene	<31.0	ug/kg	31.0	31.0	1	12/20/16 13:02	12/21/16 15:13	75-35-4	
cis-1,2-Dichloroethene	<151	ug/kg	151	45.3	1	12/20/16 13:02	12/21/16 15:13	156-59-2	
trans-1,2-Dichloroethene	<196	ug/kg	196	58.8	1	12/20/16 13:02	12/21/16 15:13	156-60-5	
Dichlorofluoromethane	<1110	ug/kg	1110	334	1	12/20/16 13:02	12/21/16 15:13	75-43-4	
1,2-Dichloropropane	<42.2	ug/kg	42.2	42.2	1	12/20/16 13:02	12/21/16 15:13	78-87-5	
1,3-Dichloropropane	<145	ug/kg	145	43.6	1	12/20/16 13:02	12/21/16 15:13	142-28-9	
2,2-Dichloropropane	<129	ug/kg	129	38.8	1	12/20/16 13:02	12/21/16 15:13	594-20-7	
1,1-Dichloropropene	<36.8	ug/kg	36.8	36.8	1	12/20/16 13:02	12/21/16 15:13	563-58-6	
cis-1,3-Dichloropropene	<185	ug/kg	185	55.6	1	12/20/16 13:02	12/21/16 15:13	10061-01-5	
trans-1,3-Dichloropropene	<138	ug/kg	138	41.4	1	12/20/16 13:02	12/21/16 15:13	10061-02-6	
Diethyl ether (Ethyl ether)	<167	ug/kg	167	50.2	1	12/20/16 13:02	12/21/16 15:13	60-29-7	
Ethylbenzene	<129	ug/kg	129	38.8	1	12/20/16 13:02	12/21/16 15:13	100-41-4	
Hexachloro-1,3-butadiene	<382	ug/kg	382	115	1	12/20/16 13:02	12/21/16 15:13	87-68-3	
Isopropylbenzene (Cumene)	<145	ug/kg	145	43.4	1	12/20/16 13:02	12/21/16 15:13	98-82-8	
p-Isopropyltoluene	131	ug/kg	67.4	20.2	1	12/20/16 13:02	12/21/16 15:13	99-87-6	
Methylene Chloride	<752	ug/kg	752	226	1	12/20/16 13:02	12/21/16 15:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	<269	ug/kg	269	80.7	1	12/20/16 13:02	12/21/16 15:13	108-10-1	
Methyl-tert-butyl ether	<76.0	ug/kg	76.0	22.8	1	12/20/16 13:02	12/21/16 15:13	1634-04-4	
Naphthalene	255	ug/kg	98.2	29.5	1	12/20/16 13:02	12/21/16 15:13	91-20-3	
n-Propylbenzene	<121	ug/kg	121	36.3	1	12/20/16 13:02	12/21/16 15:13	103-65-1	
Styrene	<106	ug/kg	106	31.7	1	12/20/16 13:02	12/21/16 15:13	100-42-5	
1,1,1,2-Tetrachloroethane	<48.3	ug/kg	48.3	48.3	1	12/20/16 13:02	12/21/16 15:13	630-20-6	
1,1,2,2-Tetrachloroethane	<27.1	ug/kg	27.1	27.1	1	12/20/16 13:02	12/21/16 15:13	79-34-5	
Tetrachloroethene	<155	ug/kg	155	46.6	1	12/20/16 13:02	12/21/16 15:13	127-18-4	
Tetrahydrofuran	<2010	ug/kg	2010	605	1	12/20/16 13:02	12/21/16 15:13	109-99-9	
Toluene	197	ug/kg	129	38.8	1	12/20/16 13:02	12/21/16 15:13	108-88-3	
1,2,3-Trichlorobenzene	<35.1	ug/kg	35.1	35.1	1	12/20/16 13:02	12/21/16 15:13	87-61-6	
1,2,4-Trichlorobenzene	<37.5	ug/kg	37.5	37.5	1	12/20/16 13:02	12/21/16 15:13	120-82-1	
1,1,1-Trichloroethane	<51.0	ug/kg	51.0	51.0	1	12/20/16 13:02	12/21/16 15:13	71-55-6	
1,1,2-Trichloroethane	<26.3	ug/kg	26.3	26.3	1	12/20/16 13:02	12/21/16 15:13	79-00-5	
Trichloroethene	<116	ug/kg	116	34.9	1	12/20/16 13:02	12/21/16 15:13	79-01-6	
Trichlorofluoromethane	<408	ug/kg	408	122	1	12/20/16 13:02	12/21/16 15:13	75-69-4	
1,2,3-Trichloropropane	<126	ug/kg	126	126	1	12/20/16 13:02	12/21/16 15:13	96-18-4	
1,1,2-Trichlorotrifluoroethane	<292	ug/kg	292	87.8	1	12/20/16 13:02	12/21/16 15:13	76-13-1	
1,2,4-Trimethylbenzene	209	ug/kg	26.8	26.8	1	12/20/16 13:02	12/21/16 15:13	95-63-6	
1,3,5-Trimethylbenzene	143	ug/kg	93.4	28.0	1	12/20/16 13:02	12/21/16 15:13	108-67-8	
Vinyl chloride	<52.1	ug/kg	52.1	15.7	1	12/20/16 13:02	12/21/16 15:13	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB011\_18-22**      **Lab ID: 10373615016**      Collected: 12/16/16 09:25      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<325	ug/kg	325	97.5	1	12/20/16 13:02	12/21/16 15:13	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	94	%	75-129		1	12/20/16 13:02	12/21/16 15:13	17060-07-0	
Toluene-d8 (S)	94	%	75-125		1	12/20/16 13:02	12/21/16 15:13	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		1	12/20/16 13:02	12/21/16 15:13	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Sample: **SB011\_29-30** Lab ID: **10373615017** Collected: 12/16/16 09:40 Received: 12/16/16 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	17.7	%	0.10	0.10	1		12/29/16 12:25		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	6.4	ug/kg	1.6	0.47	1	12/20/16 09:27	12/28/16 17:03	83-32-9	
Acenaphthylene	2.0	ug/kg	1.1	0.33	1	12/20/16 09:27	12/28/16 17:03	208-96-8	
Anthracene	3.5	ug/kg	1.8	0.55	1	12/20/16 09:27	12/28/16 17:03	120-12-7	
Benzo(a)anthracene	10.7	ug/kg	1.9	0.57	1	12/20/16 09:27	12/28/16 17:03	56-55-3	
Benzo(a)pyrene	16.3	ug/kg	1.4	0.42	1	12/20/16 09:27	12/28/16 17:03	50-32-8	
Benzo(b)fluoranthene	12.1	ug/kg	2.3	0.69	1	12/20/16 09:27	12/28/16 17:03	205-99-2	
Benzo(g,h,i)perylene	10.2	ug/kg	1.8	0.55	1	12/20/16 09:27	12/28/16 17:03	191-24-2	
Benzo(k)fluoranthene	5.1	ug/kg	2.0	0.60	1	12/20/16 09:27	12/28/16 17:03	207-08-9	
Chrysene	9.6	ug/kg	2.2	0.67	1	12/20/16 09:27	12/28/16 17:03	218-01-9	
Dibenz(a,h)anthracene	1.9	ug/kg	1.3	0.40	1	12/20/16 09:27	12/28/16 17:03	53-70-3	
Fluoranthene	19.5	ug/kg	3.2	0.95	1	12/20/16 09:27	12/28/16 17:03	206-44-0	
Fluorene	<1.5	ug/kg	1.5	0.46	1	12/20/16 09:27	12/28/16 17:03	86-73-7	
Indeno(1,2,3-cd)pyrene	7.1	ug/kg	3.0	0.91	1	12/20/16 09:27	12/28/16 17:03	193-39-5	
Naphthalene	<1.4	ug/kg	1.4	0.43	1	12/20/16 09:27	12/28/16 17:03	91-20-3	
Phenanthrene	8.0	ug/kg	1.6	0.49	1	12/20/16 09:27	12/28/16 17:03	85-01-8	
Pyrene	28.0	ug/kg	3.3	1.0	1	12/20/16 09:27	12/28/16 17:03	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	73	%	41-125		1	12/20/16 09:27	12/28/16 17:03	321-60-8	
p-Terphenyl-d14 (S)	80	%	39-125		1	12/20/16 09:27	12/28/16 17:03	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1340	ug/kg	1340	401	1	12/20/16 13:02	12/21/16 15:30	67-64-1	
Allyl chloride	<175	ug/kg	175	52.5	1	12/20/16 13:02	12/21/16 15:30	107-05-1	
Benzene	<17.6	ug/kg	17.6	5.3	1	12/20/16 13:02	12/21/16 15:30	71-43-2	
Bromobenzene	<52.2	ug/kg	52.2	15.7	1	12/20/16 13:02	12/21/16 15:30	108-86-1	
Bromochloromethane	<60.7	ug/kg	60.7	18.2	1	12/20/16 13:02	12/21/16 15:30	74-97-5	
Bromodichloromethane	<57.1	ug/kg	57.1	17.1	1	12/20/16 13:02	12/21/16 15:30	75-27-4	
Bromoform	<176	ug/kg	176	52.8	1	12/20/16 13:02	12/21/16 15:30	75-25-2	
Bromomethane	<207	ug/kg	207	62.1	1	12/20/16 13:02	12/21/16 15:30	74-83-9	
2-Butanone (MEK)	<269	ug/kg	269	80.8	1	12/20/16 13:02	12/21/16 15:30	78-93-3	
n-Butylbenzene	<49.3	ug/kg	49.3	14.8	1	12/20/16 13:02	12/21/16 15:30	104-51-8	
sec-Butylbenzene	<48.1	ug/kg	48.1	14.4	1	12/20/16 13:02	12/21/16 15:30	135-98-8	
tert-Butylbenzene	<64.4	ug/kg	64.4	19.3	1	12/20/16 13:02	12/21/16 15:30	98-06-6	
Carbon tetrachloride	<64.0	ug/kg	64.0	19.2	1	12/20/16 13:02	12/21/16 15:30	56-23-5	
Chlorobenzene	<35.5	ug/kg	35.5	10.6	1	12/20/16 13:02	12/21/16 15:30	108-90-7	
Chloroethane	<322	ug/kg	322	96.7	1	12/20/16 13:02	12/21/16 15:30	75-00-3	
Chloroform	<99.0	ug/kg	99.0	29.7	1	12/20/16 13:02	12/21/16 15:30	67-66-3	
Chloromethane	<98.6	ug/kg	98.6	29.6	1	12/20/16 13:02	12/21/16 15:30	74-87-3	
2-Chlorotoluene	<56.2	ug/kg	56.2	16.9	1	12/20/16 13:02	12/21/16 15:30	95-49-8	
4-Chlorotoluene	<53.4	ug/kg	53.4	16.0	1	12/20/16 13:02	12/21/16 15:30	106-43-4	
1,2-Dibromo-3-chloropropane	<119	ug/kg	119	119	1	12/20/16 13:02	12/21/16 15:30	96-12-8	
Dibromochloromethane	<175	ug/kg	175	52.5	1	12/20/16 13:02	12/21/16 15:30	124-48-1	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Sample: **SB011\_29-30** Lab ID: **10373615017** Collected: 12/16/16 09:40 Received: 12/16/16 16:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<23.0	ug/kg	23.0	23.0	1	12/20/16 13:02	12/21/16 15:30	106-93-4	
Dibromomethane	<79.5	ug/kg	79.5	23.9	1	12/20/16 13:02	12/21/16 15:30	74-95-3	
1,2-Dichlorobenzene	<11.8	ug/kg	11.8	11.8	1	12/20/16 13:02	12/21/16 15:30	95-50-1	
1,3-Dichlorobenzene	<18.0	ug/kg	18.0	11.8	1	12/20/16 13:02	12/21/16 15:30	541-73-1	
1,4-Dichlorobenzene	<59.1	ug/kg	59.1	17.7	1	12/20/16 13:02	12/21/16 15:30	106-46-7	
Dichlorodifluoromethane	<62.4	ug/kg	62.4	18.7	1	12/20/16 13:02	12/21/16 15:30	75-71-8	
1,1-Dichloroethane	<23.7	ug/kg	23.7	23.7	1	12/20/16 13:02	12/21/16 15:30	75-34-3	
1,2-Dichloroethane	<19.3	ug/kg	19.3	19.3	1	12/20/16 13:02	12/21/16 15:30	107-06-2	
1,1-Dichloroethene	<15.5	ug/kg	15.5	15.5	1	12/20/16 13:02	12/21/16 15:30	75-35-4	
cis-1,2-Dichloroethene	<75.8	ug/kg	75.8	22.8	1	12/20/16 13:02	12/21/16 15:30	156-59-2	
trans-1,2-Dichloroethene	<98.2	ug/kg	98.2	29.5	1	12/20/16 13:02	12/21/16 15:30	156-60-5	
Dichlorofluoromethane	<558	ug/kg	558	168	1	12/20/16 13:02	12/21/16 15:30	75-43-4	
1,2-Dichloropropane	<21.2	ug/kg	21.2	21.2	1	12/20/16 13:02	12/21/16 15:30	78-87-5	
1,3-Dichloropropane	<73.0	ug/kg	73.0	21.9	1	12/20/16 13:02	12/21/16 15:30	142-28-9	
2,2-Dichloropropane	<64.8	ug/kg	64.8	19.5	1	12/20/16 13:02	12/21/16 15:30	594-20-7	
1,1-Dichloropropene	<18.5	ug/kg	18.5	18.5	1	12/20/16 13:02	12/21/16 15:30	563-58-6	
cis-1,3-Dichloropropene	<92.9	ug/kg	92.9	27.9	1	12/20/16 13:02	12/21/16 15:30	10061-01-5	
trans-1,3-Dichloropropene	<69.3	ug/kg	69.3	20.8	1	12/20/16 13:02	12/21/16 15:30	10061-02-6	
Diethyl ether (Ethyl ether)	<84.0	ug/kg	84.0	25.2	1	12/20/16 13:02	12/21/16 15:30	60-29-7	
Ethylbenzene	<64.8	ug/kg	64.8	19.5	1	12/20/16 13:02	12/21/16 15:30	100-41-4	
Hexachloro-1,3-butadiene	<192	ug/kg	192	57.5	1	12/20/16 13:02	12/21/16 15:30	87-68-3	
Isopropylbenzene (Cumene)	<72.5	ug/kg	72.5	21.8	1	12/20/16 13:02	12/21/16 15:30	98-82-8	
p-Isopropyltoluene	<33.8	ug/kg	33.8	10.2	1	12/20/16 13:02	12/21/16 15:30	99-87-6	
Methylene Chloride	<377	ug/kg	377	113	1	12/20/16 13:02	12/21/16 15:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	<135	ug/kg	135	40.5	1	12/20/16 13:02	12/21/16 15:30	108-10-1	
Methyl-tert-butyl ether	<38.1	ug/kg	38.1	11.5	1	12/20/16 13:02	12/21/16 15:30	1634-04-4	
Naphthalene	<49.3	ug/kg	49.3	14.8	1	12/20/16 13:02	12/21/16 15:30	91-20-3	
n-Propylbenzene	<60.7	ug/kg	60.7	18.2	1	12/20/16 13:02	12/21/16 15:30	103-65-1	
Styrene	<53.0	ug/kg	53.0	15.9	1	12/20/16 13:02	12/21/16 15:30	100-42-5	
1,1,1,2-Tetrachloroethane	<24.2	ug/kg	24.2	24.2	1	12/20/16 13:02	12/21/16 15:30	630-20-6	
1,1,2,2-Tetrachloroethane	<13.6	ug/kg	13.6	13.6	1	12/20/16 13:02	12/21/16 15:30	79-34-5	
Tetrachloroethene	<77.8	ug/kg	77.8	23.4	1	12/20/16 13:02	12/21/16 15:30	127-18-4	
Tetrahydrofuran	<1010	ug/kg	1010	304	1	12/20/16 13:02	12/21/16 15:30	109-99-9	
Toluene	<64.8	ug/kg	64.8	19.5	1	12/20/16 13:02	12/21/16 15:30	108-88-3	
1,2,3-Trichlorobenzene	<17.6	ug/kg	17.6	17.6	1	12/20/16 13:02	12/21/16 15:30	87-61-6	
1,2,4-Trichlorobenzene	<18.8	ug/kg	18.8	18.8	1	12/20/16 13:02	12/21/16 15:30	120-82-1	
1,1,1-Trichloroethane	<25.6	ug/kg	25.6	25.6	1	12/20/16 13:02	12/21/16 15:30	71-55-6	
1,1,2-Trichloroethane	<13.2	ug/kg	13.2	13.2	1	12/20/16 13:02	12/21/16 15:30	79-00-5	
Trichloroethene	<58.3	ug/kg	58.3	17.5	1	12/20/16 13:02	12/21/16 15:30	79-01-6	
Trichlorofluoromethane	<205	ug/kg	205	61.4	1	12/20/16 13:02	12/21/16 15:30	75-69-4	
1,2,3-Trichloropropane	<63.4	ug/kg	63.4	63.4	1	12/20/16 13:02	12/21/16 15:30	96-18-4	
1,1,2-Trichlorotrifluoroethane	<147	ug/kg	147	44.1	1	12/20/16 13:02	12/21/16 15:30	76-13-1	
1,2,4-Trimethylbenzene	<13.5	ug/kg	13.5	13.5	1	12/20/16 13:02	12/21/16 15:30	95-63-6	
1,3,5-Trimethylbenzene	<46.9	ug/kg	46.9	14.1	1	12/20/16 13:02	12/21/16 15:30	108-67-8	
Vinyl chloride	<26.2	ug/kg	26.2	7.9	1	12/20/16 13:02	12/21/16 15:30	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB011\_29-30**      **Lab ID: 10373615017**      Collected: 12/16/16 09:40      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Xylene (Total)	<163	ug/kg	163	49.0	1	12/20/16 13:02	12/21/16 15:30	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	95	%	75-129		1	12/20/16 13:02	12/21/16 15:30	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/20/16 13:02	12/21/16 15:30	2037-26-5	
4-Bromofluorobenzene (S)	85	%	75-125		1	12/20/16 13:02	12/21/16 15:30	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB011\_32-34**      **Lab ID: 10373615018**      Collected: 12/16/16 09:45      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	34.2	%	0.10	0.10	1		12/29/16 12:25		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Acenaphthene	<2.0	ug/kg	2.0	0.59	1	12/20/16 09:27	12/28/16 17:23	83-32-9	
Acenaphthylene	<1.4	ug/kg	1.4	0.41	1	12/20/16 09:27	12/28/16 17:23	208-96-8	
Anthracene	<2.3	ug/kg	2.3	0.69	1	12/20/16 09:27	12/28/16 17:23	120-12-7	
Benzo(a)anthracene	<2.4	ug/kg	2.4	0.71	1	12/20/16 09:27	12/28/16 17:23	56-55-3	
Benzo(a)pyrene	<1.7	ug/kg	1.7	0.52	1	12/20/16 09:27	12/28/16 17:23	50-32-8	
Benzo(b)fluoranthene	<2.9	ug/kg	2.9	0.87	1	12/20/16 09:27	12/28/16 17:23	205-99-2	
Benzo(g,h,i)perylene	<2.3	ug/kg	2.3	0.69	1	12/20/16 09:27	12/28/16 17:23	191-24-2	
Benzo(k)fluoranthene	<2.5	ug/kg	2.5	0.74	1	12/20/16 09:27	12/28/16 17:23	207-08-9	
Chrysene	<2.8	ug/kg	2.8	0.84	1	12/20/16 09:27	12/28/16 17:23	218-01-9	
Dibenz(a,h)anthracene	<1.6	ug/kg	1.6	0.49	1	12/20/16 09:27	12/28/16 17:23	53-70-3	
Fluoranthene	<3.9	ug/kg	3.9	1.2	1	12/20/16 09:27	12/28/16 17:23	206-44-0	
Fluorene	<1.9	ug/kg	1.9	0.58	1	12/20/16 09:27	12/28/16 17:23	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.8	ug/kg	3.8	1.1	1	12/20/16 09:27	12/28/16 17:23	193-39-5	
Naphthalene	<1.8	ug/kg	1.8	0.54	1	12/20/16 09:27	12/28/16 17:23	91-20-3	
Phenanthrene	2.4	ug/kg	2.0	0.61	1	12/20/16 09:27	12/28/16 17:23	85-01-8	
Pyrene	<4.2	ug/kg	4.2	1.3	1	12/20/16 09:27	12/28/16 17:23	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	52	%	41-125		1	12/20/16 09:27	12/28/16 17:23	321-60-8	
p-Terphenyl-d14 (S)	77	%	39-125		1	12/20/16 09:27	12/28/16 17:23	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<1730	ug/kg	1730	520	1	12/20/16 13:02	12/21/16 15:46	67-64-1	
Allyl chloride	<227	ug/kg	227	68.1	1	12/20/16 13:02	12/21/16 15:46	107-05-1	
Benzene	<22.8	ug/kg	22.8	6.9	1	12/20/16 13:02	12/21/16 15:46	71-43-2	
Bromobenzene	<67.6	ug/kg	67.6	20.3	1	12/20/16 13:02	12/21/16 15:46	108-86-1	
Bromochloromethane	<78.7	ug/kg	78.7	23.6	1	12/20/16 13:02	12/21/16 15:46	74-97-5	
Bromodichloromethane	<74.0	ug/kg	74.0	22.2	1	12/20/16 13:02	12/21/16 15:46	75-27-4	
Bromoform	<228	ug/kg	228	68.4	1	12/20/16 13:02	12/21/16 15:46	75-25-2	
Bromomethane	<268	ug/kg	268	80.4	1	12/20/16 13:02	12/21/16 15:46	74-83-9	
2-Butanone (MEK)	<349	ug/kg	349	105	1	12/20/16 13:02	12/21/16 15:46	78-93-3	
n-Butylbenzene	<63.9	ug/kg	63.9	19.2	1	12/20/16 13:02	12/21/16 15:46	104-51-8	
sec-Butylbenzene	<62.3	ug/kg	62.3	18.7	1	12/20/16 13:02	12/21/16 15:46	135-98-8	
tert-Butylbenzene	<83.5	ug/kg	83.5	25.1	1	12/20/16 13:02	12/21/16 15:46	98-06-6	
Carbon tetrachloride	<83.0	ug/kg	83.0	24.9	1	12/20/16 13:02	12/21/16 15:46	56-23-5	
Chlorobenzene	<46.0	ug/kg	46.0	13.8	1	12/20/16 13:02	12/21/16 15:46	108-90-7	
Chloroethane	<417	ug/kg	417	125	1	12/20/16 13:02	12/21/16 15:46	75-00-3	
Chloroform	<128	ug/kg	128	38.6	1	12/20/16 13:02	12/21/16 15:46	67-66-3	
Chloromethane	<128	ug/kg	128	38.4	1	12/20/16 13:02	12/21/16 15:46	74-87-3	
2-Chlorotoluene	<72.9	ug/kg	72.9	21.9	1	12/20/16 13:02	12/21/16 15:46	95-49-8	
4-Chlorotoluene	<69.2	ug/kg	69.2	20.8	1	12/20/16 13:02	12/21/16 15:46	106-43-4	
1,2-Dibromo-3-chloropropane	<155	ug/kg	155	155	1	12/20/16 13:02	12/21/16 15:46	96-12-8	
Dibromochloromethane	<227	ug/kg	227	68.1	1	12/20/16 13:02	12/21/16 15:46	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Sample: **SB011\_32-34** Lab ID: **10373615018** Collected: 12/16/16 09:45 Received: 12/16/16 16:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<29.8	ug/kg	29.8	29.8	1	12/20/16 13:02	12/21/16 15:46	106-93-4	
Dibromomethane	<103	ug/kg	103	30.9	1	12/20/16 13:02	12/21/16 15:46	74-95-3	
1,2-Dichlorobenzene	<15.3	ug/kg	15.3	15.3	1	12/20/16 13:02	12/21/16 15:46	95-50-1	
1,3-Dichlorobenzene	<23.3	ug/kg	23.3	15.3	1	12/20/16 13:02	12/21/16 15:46	541-73-1	
1,4-Dichlorobenzene	<76.6	ug/kg	76.6	23.0	1	12/20/16 13:02	12/21/16 15:46	106-46-7	
Dichlorodifluoromethane	<80.8	ug/kg	80.8	24.3	1	12/20/16 13:02	12/21/16 15:46	75-71-8	
1,1-Dichloroethane	<30.8	ug/kg	30.8	30.8	1	12/20/16 13:02	12/21/16 15:46	75-34-3	
1,2-Dichloroethane	<25.1	ug/kg	25.1	25.1	1	12/20/16 13:02	12/21/16 15:46	107-06-2	
1,1-Dichloroethene	<20.2	ug/kg	20.2	20.2	1	12/20/16 13:02	12/21/16 15:46	75-35-4	
cis-1,2-Dichloroethene	<98.3	ug/kg	98.3	29.5	1	12/20/16 13:02	12/21/16 15:46	156-59-2	
trans-1,2-Dichloroethene	<127	ug/kg	127	38.2	1	12/20/16 13:02	12/21/16 15:46	156-60-5	
Dichlorofluoromethane	<724	ug/kg	724	217	1	12/20/16 13:02	12/21/16 15:46	75-43-4	
1,2-Dichloropropane	<27.4	ug/kg	27.4	27.4	1	12/20/16 13:02	12/21/16 15:46	78-87-5	
1,3-Dichloropropane	<94.6	ug/kg	94.6	28.4	1	12/20/16 13:02	12/21/16 15:46	142-28-9	
2,2-Dichloropropane	<84.0	ug/kg	84.0	25.2	1	12/20/16 13:02	12/21/16 15:46	594-20-7	
1,1-Dichloropropene	<24.0	ug/kg	24.0	24.0	1	12/20/16 13:02	12/21/16 15:46	563-58-6	
cis-1,3-Dichloropropene	<120	ug/kg	120	36.2	1	12/20/16 13:02	12/21/16 15:46	10061-01-5	
trans-1,3-Dichloropropene	<89.8	ug/kg	89.8	27.0	1	12/20/16 13:02	12/21/16 15:46	10061-02-6	
Diethyl ether (Ethyl ether)	<109	ug/kg	109	32.7	1	12/20/16 13:02	12/21/16 15:46	60-29-7	
Ethylbenzene	<84.0	ug/kg	84.0	25.2	1	12/20/16 13:02	12/21/16 15:46	100-41-4	
Hexachloro-1,3-butadiene	<248	ug/kg	248	74.6	1	12/20/16 13:02	12/21/16 15:46	87-68-3	
Isopropylbenzene (Cumene)	<94.0	ug/kg	94.0	28.2	1	12/20/16 13:02	12/21/16 15:46	98-82-8	
p-Isopropyltoluene	<43.9	ug/kg	43.9	13.2	1	12/20/16 13:02	12/21/16 15:46	99-87-6	
Methylene Chloride	<489	ug/kg	489	147	1	12/20/16 13:02	12/21/16 15:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	<175	ug/kg	175	52.5	1	12/20/16 13:02	12/21/16 15:46	108-10-1	
Methyl-tert-butyl ether	<49.5	ug/kg	49.5	14.9	1	12/20/16 13:02	12/21/16 15:46	1634-04-4	
Naphthalene	<63.9	ug/kg	63.9	19.2	1	12/20/16 13:02	12/21/16 15:46	91-20-3	
n-Propylbenzene	<78.7	ug/kg	78.7	23.6	1	12/20/16 13:02	12/21/16 15:46	103-65-1	
Styrene	<68.7	ug/kg	68.7	20.6	1	12/20/16 13:02	12/21/16 15:46	100-42-5	
1,1,1,2-Tetrachloroethane	<31.4	ug/kg	31.4	31.4	1	12/20/16 13:02	12/21/16 15:46	630-20-6	
1,1,2,2-Tetrachloroethane	<17.6	ug/kg	17.6	17.6	1	12/20/16 13:02	12/21/16 15:46	79-34-5	
Tetrachloroethene	<101	ug/kg	101	30.3	1	12/20/16 13:02	12/21/16 15:46	127-18-4	
Tetrahydrofuran	<1310	ug/kg	1310	393	1	12/20/16 13:02	12/21/16 15:46	109-99-9	
Toluene	<84.0	ug/kg	84.0	25.2	1	12/20/16 13:02	12/21/16 15:46	108-88-3	
1,2,3-Trichlorobenzene	<22.8	ug/kg	22.8	22.8	1	12/20/16 13:02	12/21/16 15:46	87-61-6	
1,2,4-Trichlorobenzene	<24.4	ug/kg	24.4	24.4	1	12/20/16 13:02	12/21/16 15:46	120-82-1	
1,1,1-Trichloroethane	<33.2	ug/kg	33.2	33.2	1	12/20/16 13:02	12/21/16 15:46	71-55-6	
1,1,2-Trichloroethane	<17.1	ug/kg	17.1	17.1	1	12/20/16 13:02	12/21/16 15:46	79-00-5	
Trichloroethene	<75.6	ug/kg	75.6	22.7	1	12/20/16 13:02	12/21/16 15:46	79-01-6	
Trichlorofluoromethane	<265	ug/kg	265	79.6	1	12/20/16 13:02	12/21/16 15:46	75-69-4	
1,2,3-Trichloropropane	<82.2	ug/kg	82.2	82.2	1	12/20/16 13:02	12/21/16 15:46	96-18-4	
1,1,2-Trichlorotrifluoroethane	<190	ug/kg	190	57.1	1	12/20/16 13:02	12/21/16 15:46	76-13-1	
1,2,4-Trimethylbenzene	<17.5	ug/kg	17.5	17.5	1	12/20/16 13:02	12/21/16 15:46	95-63-6	
1,3,5-Trimethylbenzene	<60.8	ug/kg	60.8	18.2	1	12/20/16 13:02	12/21/16 15:46	108-67-8	
Vinyl chloride	<33.9	ug/kg	33.9	10.2	1	12/20/16 13:02	12/21/16 15:46	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: SB011\_32-34**      **Lab ID: 10373615018**      Collected: 12/16/16 09:45      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Xylene (Total)	<211	ug/kg	211	63.5	1	12/20/16 13:02	12/21/16 15:46	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	91	%	75-129		1	12/20/16 13:02	12/21/16 15:46	17060-07-0	
Toluene-d8 (S)	96	%	75-125		1	12/20/16 13:02	12/21/16 15:46	2037-26-5	
4-Bromofluorobenzene (S)	93	%	75-125		1	12/20/16 13:02	12/21/16 15:46	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample: Trip Blank**      **Lab ID: 10373615019**      Collected: 12/16/16 00:00      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	<1090	ug/kg	1090	328	1	12/20/16 12:19	12/20/16 19:52	67-64-1	
Allyl chloride	<143	ug/kg	143	42.9	1	12/20/16 12:19	12/20/16 19:52	107-05-1	
Benzene	<14.4	ug/kg	14.4	4.3	1	12/20/16 12:19	12/20/16 19:52	71-43-2	
Bromobenzene	<42.6	ug/kg	42.6	12.8	1	12/20/16 12:19	12/20/16 19:52	108-86-1	
Bromochloromethane	<49.6	ug/kg	49.6	14.9	1	12/20/16 12:19	12/20/16 19:52	74-97-5	
Bromodichloromethane	<46.6	ug/kg	46.6	14.0	1	12/20/16 12:19	12/20/16 19:52	75-27-4	
Bromoform	<144	ug/kg	144	43.1	1	12/20/16 12:19	12/20/16 19:52	75-25-2	
Bromomethane	<169	ug/kg	169	50.7	1	12/20/16 12:19	12/20/16 19:52	74-83-9	
2-Butanone (MEK)	<220	ug/kg	220	66.0	1	12/20/16 12:19	12/20/16 19:52	78-93-3	
n-Butylbenzene	<40.3	ug/kg	40.3	12.1	1	12/20/16 12:19	12/20/16 19:52	104-51-8	
sec-Butylbenzene	<39.3	ug/kg	39.3	11.8	1	12/20/16 12:19	12/20/16 19:52	135-98-8	
tert-Butylbenzene	<52.6	ug/kg	52.6	15.8	1	12/20/16 12:19	12/20/16 19:52	98-06-6	
Carbon tetrachloride	<52.3	ug/kg	52.3	15.7	1	12/20/16 12:19	12/20/16 19:52	56-23-5	
Chlorobenzene	<29.0	ug/kg	29.0	8.7	1	12/20/16 12:19	12/20/16 19:52	108-90-7	
Chloroethane	<263	ug/kg	263	79.0	1	12/20/16 12:19	12/20/16 19:52	75-00-3	
Chloroform	<80.9	ug/kg	80.9	24.3	1	12/20/16 12:19	12/20/16 19:52	67-66-3	
Chloromethane	<80.6	ug/kg	80.6	24.2	1	12/20/16 12:19	12/20/16 19:52	74-87-3	
2-Chlorotoluene	<46.0	ug/kg	46.0	13.8	1	12/20/16 12:19	12/20/16 19:52	95-49-8	
4-Chlorotoluene	<43.6	ug/kg	43.6	13.1	1	12/20/16 12:19	12/20/16 19:52	106-43-4	
1,2-Dibromo-3-chloropropane	<97.5	ug/kg	97.5	97.5	1	12/20/16 12:19	12/20/16 19:52	96-12-8	
Dibromochloromethane	<143	ug/kg	143	42.9	1	12/20/16 12:19	12/20/16 19:52	124-48-1	
1,2-Dibromoethane (EDB)	<18.8	ug/kg	18.8	18.8	1	12/20/16 12:19	12/20/16 19:52	106-93-4	
Dibromomethane	<64.9	ug/kg	64.9	19.5	1	12/20/16 12:19	12/20/16 19:52	74-95-3	
1,2-Dichlorobenzene	<9.7	ug/kg	9.7	9.7	1	12/20/16 12:19	12/20/16 19:52	95-50-1	
1,3-Dichlorobenzene	<14.7	ug/kg	14.7	9.7	1	12/20/16 12:19	12/20/16 19:52	541-73-1	
1,4-Dichlorobenzene	<48.3	ug/kg	48.3	14.5	1	12/20/16 12:19	12/20/16 19:52	106-46-7	
Dichlorodifluoromethane	<50.9	ug/kg	50.9	15.3	1	12/20/16 12:19	12/20/16 19:52	75-71-8	
1,1-Dichloroethane	<19.4	ug/kg	19.4	19.4	1	12/20/16 12:19	12/20/16 19:52	75-34-3	
1,2-Dichloroethane	<15.8	ug/kg	15.8	15.8	1	12/20/16 12:19	12/20/16 19:52	107-06-2	
1,1-Dichloroethene	<12.7	ug/kg	12.7	12.7	1	12/20/16 12:19	12/20/16 19:52	75-35-4	
cis-1,2-Dichloroethene	<61.9	ug/kg	61.9	18.6	1	12/20/16 12:19	12/20/16 19:52	156-59-2	
trans-1,2-Dichloroethene	<80.3	ug/kg	80.3	24.1	1	12/20/16 12:19	12/20/16 19:52	156-60-5	
Dichlorofluoromethane	<456	ug/kg	456	137	1	12/20/16 12:19	12/20/16 19:52	75-43-4	
1,2-Dichloropropane	<17.3	ug/kg	17.3	17.3	1	12/20/16 12:19	12/20/16 19:52	78-87-5	
1,3-Dichloropropane	<59.6	ug/kg	59.6	17.9	1	12/20/16 12:19	12/20/16 19:52	142-28-9	
2,2-Dichloropropane	<52.9	ug/kg	52.9	15.9	1	12/20/16 12:19	12/20/16 19:52	594-20-7	
1,1-Dichloropropene	<15.1	ug/kg	15.1	15.1	1	12/20/16 12:19	12/20/16 19:52	563-58-6	
cis-1,3-Dichloropropene	<75.9	ug/kg	75.9	22.8	1	12/20/16 12:19	12/20/16 19:52	10061-01-5	
trans-1,3-Dichloropropene	<56.6	ug/kg	56.6	17.0	1	12/20/16 12:19	12/20/16 19:52	10061-02-6	
Diethyl ether (Ethyl ether)	<68.6	ug/kg	68.6	20.6	1	12/20/16 12:19	12/20/16 19:52	60-29-7	
Ethylbenzene	<52.9	ug/kg	52.9	15.9	1	12/20/16 12:19	12/20/16 19:52	100-41-4	
Hexachloro-1,3-butadiene	<157	ug/kg	157	47.0	1	12/20/16 12:19	12/20/16 19:52	87-68-3	
Isopropylbenzene (Cumene)	<59.3	ug/kg	59.3	17.8	1	12/20/16 12:19	12/20/16 19:52	98-82-8	
p-Isopropyltoluene	<27.6	ug/kg	27.6	8.3	1	12/20/16 12:19	12/20/16 19:52	99-87-6	
Methylene Chloride	<308	ug/kg	308	92.6	1	12/20/16 12:19	12/20/16 19:52	75-09-2	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

**Sample:** Trip Blank      **Lab ID:** 10373615019      Collected: 12/16/16 00:00      Received: 12/16/16 16:15      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
4-Methyl-2-pentanone (MIBK)	<110	ug/kg	110	33.1	1	12/20/16 12:19	12/20/16 19:52	108-10-1	
Methyl-tert-butyl ether	<31.2	ug/kg	31.2	9.4	1	12/20/16 12:19	12/20/16 19:52	1634-04-4	
Naphthalene	<40.3	ug/kg	40.3	12.1	1	12/20/16 12:19	12/20/16 19:52	91-20-3	
n-Propylbenzene	<49.6	ug/kg	49.6	14.9	1	12/20/16 12:19	12/20/16 19:52	103-65-1	
Styrene	<43.3	ug/kg	43.3	13.0	1	12/20/16 12:19	12/20/16 19:52	100-42-5	
1,1,1,2-Tetrachloroethane	<19.8	ug/kg	19.8	19.8	1	12/20/16 12:19	12/20/16 19:52	630-20-6	
1,1,2,2-Tetrachloroethane	<11.1	ug/kg	11.1	11.1	1	12/20/16 12:19	12/20/16 19:52	79-34-5	
Tetrachloroethene	<63.6	ug/kg	63.6	19.1	1	12/20/16 12:19	12/20/16 19:52	127-18-4	
Tetrahydrofuran	<826	ug/kg	826	248	1	12/20/16 12:19	12/20/16 19:52	109-99-9	
Toluene	<52.9	ug/kg	52.9	15.9	1	12/20/16 12:19	12/20/16 19:52	108-88-3	
1,2,3-Trichlorobenzene	<14.4	ug/kg	14.4	14.4	1	12/20/16 12:19	12/20/16 19:52	87-61-6	
1,2,4-Trichlorobenzene	<15.4	ug/kg	15.4	15.4	1	12/20/16 12:19	12/20/16 19:52	120-82-1	
1,1,1-Trichloroethane	<20.9	ug/kg	20.9	20.9	1	12/20/16 12:19	12/20/16 19:52	71-55-6	
1,1,2-Trichloroethane	<10.8	ug/kg	10.8	10.8	1	12/20/16 12:19	12/20/16 19:52	79-00-5	
Trichloroethene	<47.6	ug/kg	47.6	14.3	1	12/20/16 12:19	12/20/16 19:52	79-01-6	
Trichlorofluoromethane	<167	ug/kg	167	50.2	1	12/20/16 12:19	12/20/16 19:52	75-69-4	
1,2,3-Trichloropropane	<51.8	ug/kg	51.8	51.8	1	12/20/16 12:19	12/20/16 19:52	96-18-4	
1,1,2-Trichlorotrifluoroethane	<120	ug/kg	120	36.0	1	12/20/16 12:19	12/20/16 19:52	76-13-1	
1,2,4-Trimethylbenzene	<11.0	ug/kg	11.0	11.0	1	12/20/16 12:19	12/20/16 19:52	95-63-6	
1,3,5-Trimethylbenzene	<38.3	ug/kg	38.3	11.5	1	12/20/16 12:19	12/20/16 19:52	108-67-8	
Vinyl chloride	<21.4	ug/kg	21.4	6.4	1	12/20/16 12:19	12/20/16 19:52	75-01-4	
Xylene (Total)	<133	ug/kg	133	40.0	1	12/20/16 12:19	12/20/16 19:52	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	98	%	75-129		1	12/20/16 12:19	12/20/16 19:52	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/20/16 12:19	12/20/16 19:52	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/20/16 12:19	12/20/16 19:52	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 2118-0002 Former Superior\_Rev  
Pace Project No.: 10373615

QC Batch: 453750 Analysis Method: ASTM D2974  
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture  
Associated Lab Samples: 10373615013, 10373615014, 10373615015, 10373615016, 10373615017, 10373615018

SAMPLE DUPLICATE: 2483470

Parameter	Units	10373615013 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.9	22.4	2	30	

SAMPLE DUPLICATE: 2483596

Parameter	Units	10373844001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	30.3	25.0	19	30	

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

QC Batch: 452350 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10373615001, 10373615002, 10373615003, 10373615004

METHOD BLANK: 2476449 Matrix: Solid  
Associated Lab Samples: 10373615001, 10373615002, 10373615003, 10373615004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/19/16 20:34	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/19/16 20:34	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/19/16 20:34	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/19/16 20:34	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/19/16 20:34	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/19/16 20:34	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/19/16 20:34	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/19/16 20:34	
1,2,3-Trichlorobenzene	ug/kg	<14.4	14.4	12/19/16 20:34	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/19/16 20:34	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/19/16 20:34	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/19/16 20:34	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/19/16 20:34	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/19/16 20:34	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/19/16 20:34	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/19/16 20:34	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/19/16 20:34	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/19/16 20:34	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/19/16 20:34	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/19/16 20:34	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/19/16 20:34	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/19/16 20:34	
2-Butanone (MEK)	ug/kg	<220	220	12/19/16 20:34	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/19/16 20:34	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/19/16 20:34	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/19/16 20:34	
Acetone	ug/kg	<1090	1090	12/19/16 20:34	
Allyl chloride	ug/kg	<143	143	12/19/16 20:34	
Benzene	ug/kg	<14.4	14.4	12/19/16 20:34	
Bromobenzene	ug/kg	<42.6	42.6	12/19/16 20:34	
Bromochloromethane	ug/kg	<49.6	49.6	12/19/16 20:34	
Bromodichloromethane	ug/kg	<46.6	46.6	12/19/16 20:34	
Bromoform	ug/kg	<144	144	12/19/16 20:34	
Bromomethane	ug/kg	<169	169	12/19/16 20:34	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/19/16 20:34	
Chlorobenzene	ug/kg	<29.0	29.0	12/19/16 20:34	
Chloroethane	ug/kg	<263	263	12/19/16 20:34	
Chloroform	ug/kg	<80.9	80.9	12/19/16 20:34	
Chloromethane	ug/kg	<80.6	80.6	12/19/16 20:34	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/19/16 20:34	
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/19/16 20:34	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

METHOD BLANK: 2476449

Matrix: Solid

Associated Lab Samples: 10373615001, 10373615002, 10373615003, 10373615004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<143	143	12/19/16 20:34	
Dibromomethane	ug/kg	<64.9	64.9	12/19/16 20:34	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/19/16 20:34	
Dichlorofluoromethane	ug/kg	<456	456	12/19/16 20:34	
Diethyl ether (Ethyl ether)	ug/kg	<68.6	68.6	12/19/16 20:34	
Ethylbenzene	ug/kg	<52.9	52.9	12/19/16 20:34	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/19/16 20:34	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/19/16 20:34	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/19/16 20:34	
Methylene Chloride	ug/kg	<308	308	12/19/16 20:34	
n-Butylbenzene	ug/kg	<40.3	40.3	12/19/16 20:34	
n-Propylbenzene	ug/kg	<49.6	49.6	12/19/16 20:34	
Naphthalene	ug/kg	<40.3	40.3	12/19/16 20:34	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/19/16 20:34	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/19/16 20:34	
Styrene	ug/kg	<43.3	43.3	12/19/16 20:34	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/19/16 20:34	
Tetrachloroethene	ug/kg	<63.6	63.6	12/19/16 20:34	
Tetrahydrofuran	ug/kg	<826	826	12/19/16 20:34	
Toluene	ug/kg	<52.9	52.9	12/19/16 20:34	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/19/16 20:34	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/19/16 20:34	
Trichloroethene	ug/kg	<47.6	47.6	12/19/16 20:34	
Trichlorofluoromethane	ug/kg	<167	167	12/19/16 20:34	
Vinyl chloride	ug/kg	<21.4	21.4	12/19/16 20:34	
Xylene (Total)	ug/kg	<133	133	12/19/16 20:34	
1,2-Dichloroethane-d4 (S)	%	90	75-129	12/19/16 20:34	
4-Bromofluorobenzene (S)	%	102	75-125	12/19/16 20:34	
Toluene-d8 (S)	%	101	75-125	12/19/16 20:34	

LABORATORY CONTROL SAMPLE & LCSD: 2476450

2476451

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	810	815	81	81	71-127	1	20	
1,1,1-Trichloroethane	ug/kg	1000	775	735	78	73	64-132	5	20	
1,1,2,2-Tetrachloroethane	ug/kg	1000	1110	914	111	91	50-138	19	20	
1,1,2-Trichloroethane	ug/kg	1000	862	841	86	84	69-126	3	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	770	746	77	75	53-144	3	20	
1,1-Dichloroethane	ug/kg	1000	867	835	87	83	61-134	4	20	
1,1-Dichloroethene	ug/kg	1000	741	737	74	74	57-135	1	20	
1,1-Dichloropropene	ug/kg	1000	832	839	83	84	59-133	1	20	
1,2,3-Trichlorobenzene	ug/kg	1000	897	876	90	88	32-150	2	20	
1,2,3-Trichloropropane	ug/kg	1000	971	885	97	88	62-130	9	20	
1,2,4-Trichlorobenzene	ug/kg	1000	861	848	86	85	38-138	2	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

LABORATORY CONTROL SAMPLE & LCSD: 2476450		2476451									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1,2,4-Trimethylbenzene	ug/kg	1000	882	845	88	85	70-127	4	20		
1,2-Dibromo-3-chloropropane	ug/kg	2500	2160	1890	87	76	40-141	14	20		
1,2-Dibromoethane (EDB)	ug/kg	1000	863	832	86	83	69-130	4	20		
1,2-Dichlorobenzene	ug/kg	1000	940	890	94	89	72-125	5	20		
1,2-Dichloroethane	ug/kg	1000	752	709	75	71	62-125	6	20		
1,2-Dichloropropane	ug/kg	1000	916	918	92	92	67-126	0	20		
1,3,5-Trimethylbenzene	ug/kg	1000	891	853	89	85	71-129	4	20		
1,3-Dichlorobenzene	ug/kg	1000	910	867	91	87	72-126	5	20		
1,3-Dichloropropane	ug/kg	1000	918	881	92	88	70-125	4	20		
1,4-Dichlorobenzene	ug/kg	1000	895	858	90	86	70-126	4	20		
2,2-Dichloropropane	ug/kg	1000	734	701	73	70	48-134	5	20		
2-Butanone (MEK)	ug/kg	5000	4530	4320	91	86	38-149	5	20		
2-Chlorotoluene	ug/kg	1000	852	797	85	80	71-129	7	20		
4-Chlorotoluene	ug/kg	1000	911	892	91	89	72-128	2	20		
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5000	4560	100	91	52-145	9	20		
Acetone	ug/kg	5000	4590	4320	92	86	65-142	6	20		
Allyl chloride	ug/kg	1000	768	737	77	74	54-125	4	20		
Benzene	ug/kg	1000	859	847	86	85	64-125	1	20		
Bromobenzene	ug/kg	1000	873	833	87	83	70-125	5	20		
Bromochloromethane	ug/kg	1000	891	850	89	85	68-125	5	20		
Bromodichloromethane	ug/kg	1000	758	721	76	72	67-125	5	20		
Bromoform	ug/kg	1000	649	596	65	60	56-127	8	20		
Bromomethane	ug/kg	1000	519	546	52	55	34-137	5	20		
Carbon tetrachloride	ug/kg	1000	720	705	72	71	58-138	2	20		
Chlorobenzene	ug/kg	1000	873	829	87	83	72-125	5	20		
Chloroethane	ug/kg	1000	563	563	56	56	39-148	0	20		
Chloroform	ug/kg	1000	747	739	75	74	67-125	1	20		
Chloromethane	ug/kg	1000	473	480	47	48	54-125	1	20	C0,L0	
cis-1,2-Dichloroethene	ug/kg	1000	887	842	89	84	67-125	5	20		
cis-1,3-Dichloropropene	ug/kg	1000	838	775	84	77	62-127	8	20		
Dibromochloromethane	ug/kg	1000	729	709	73	71	67-125	3	20		
Dibromomethane	ug/kg	1000	847	788	85	79	63-129	7	20		
Dichlorodifluoromethane	ug/kg	1000	341	312	34	31	34-139	9	20	C0,L0	
Dichlorofluoromethane	ug/kg	1000	597	595	60	59	36-144	0	20		
Diethyl ether (Ethyl ether)	ug/kg	1000	723	705	72	71	51-125	2	20		
Ethylbenzene	ug/kg	1000	872	845	87	84	70-129	3	20		
Hexachloro-1,3-butadiene	ug/kg	1000	864	831	86	83	48-126	4	20		
Isopropylbenzene (Cumene)	ug/kg	1000	868	851	87	85	75-127	2	20		
Methyl-tert-butyl ether	ug/kg	1000	823	800	82	80	61-125	3	20		
Methylene Chloride	ug/kg	1000	829	830	83	83	60-126	0	20		
n-Butylbenzene	ug/kg	1000	928	880	93	88	67-125	5	20		
n-Propylbenzene	ug/kg	1000	913	856	91	86	72-133	6	20		
Naphthalene	ug/kg	1000	942	884	94	88	35-147	6	20		
p-Isopropyltoluene	ug/kg	1000	874	833	87	83	69-127	5	20		
sec-Butylbenzene	ug/kg	1000	932	922	93	92	70-127	1	20		
Styrene	ug/kg	1000	889	836	89	84	73-125	6	20		
tert-Butylbenzene	ug/kg	1000	909	867	91	87	71-130	5	20		

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

LABORATORY CONTROL SAMPLE & LCSD: 2476450

2476451

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/kg	1000	897	855	90	86	66-135	5	20	
Tetrahydrofuran	ug/kg	10000	9400	9010	94	90	66-145	4	20	
Toluene	ug/kg	1000	904	888	90	89	69-125	2	20	
trans-1,2-Dichloroethene	ug/kg	1000	791	788	79	79	55-135	0	20	
trans-1,3-Dichloropropene	ug/kg	1000	831	818	83	82	67-125	2	20	
Trichloroethene	ug/kg	1000	902	861	90	86	62-141	5	20	
Trichlorofluoromethane	ug/kg	1000	613	586	61	59	38-150	5	20	
Vinyl chloride	ug/kg	1000	572	574	57	57	57-131	0	20	
Xylene (Total)	ug/kg	3000	2610	2610	87	87	73-128	0	20	
1,2-Dichloroethane-d4 (S)	%				88	88	75-129			
4-Bromofluorobenzene (S)	%				98	95	75-125			
Toluene-d8 (S)	%				96	104	75-125			

MATRIX SPIKE SAMPLE: 2476452

Parameter	Units	10373448004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	2180	2240	103	59-135	
1,1,1-Trichloroethane	ug/kg	ND	2180	1970	91	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	ND	2180	2310	106	40-149	
1,1,2-Trichloroethane	ug/kg	ND	2180	2340	107	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	2180	1890	87	41-150	
1,1-Dichloroethane	ug/kg	ND	2180	2190	101	53-131	
1,1-Dichloroethene	ug/kg	ND	2180	1890	87	41-133	
1,1-Dichloropropene	ug/kg	ND	2180	2180	100	50-139	
1,2,3-Trichlorobenzene	ug/kg	ND	2180	2320	107	52-150	
1,2,3-Trichloropropane	ug/kg	ND	2180	2310	106	61-137	
1,2,4-Trichlorobenzene	ug/kg	ND	2180	2220	102	52-142	
1,2,4-Trimethylbenzene	ug/kg	ND	2180	2220	102	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5430	5310	98	47-143	
1,2-Dibromoethane (EDB)	ug/kg	ND	2180	2300	106	57-136	
1,2-Dichlorobenzene	ug/kg	ND	2180	2320	106	59-136	
1,2-Dichloroethane	ug/kg	ND	2180	1960	90	52-133	
1,2-Dichloropropane	ug/kg	ND	2180	2530	116	62-129	
1,3,5-Trimethylbenzene	ug/kg	ND	2180	2230	102	54-143	
1,3-Dichlorobenzene	ug/kg	ND	2180	2300	106	60-137	
1,3-Dichloropropane	ug/kg	ND	2180	2460	113	57-138	
1,4-Dichlorobenzene	ug/kg	ND	2180	2210	102	51-132	
2,2-Dichloropropane	ug/kg	ND	2180	1830	84	50-134	
2-Butanone (MEK)	ug/kg	ND	10900	12900	118	46-125	
2-Chlorotoluene	ug/kg	ND	2180	2150	99	60-141	
4-Chlorotoluene	ug/kg	ND	2180	2250	104	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10900	13200	122	47-146	
Acetone	ug/kg	ND	10900	11900	109	45-148	
Allyl chloride	ug/kg	ND	2180	2050	94	50-135	
Benzene	ug/kg	ND	2180	2300	106	41-134	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

MATRIX SPIKE SAMPLE: 2476452		10373448004	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromobenzene	ug/kg	ND	2180	2200	101	59-134	
Bromochloromethane	ug/kg	ND	2180	2360	109	56-127	
Bromodichloromethane	ug/kg	ND	2180	2060	95	55-136	
Bromoform	ug/kg	ND	2180	1810	83	51-139	
Bromomethane	ug/kg	ND	2180	1330	61	35-148	
Carbon tetrachloride	ug/kg	ND	2180	1820	84	50-140	
Chlorobenzene	ug/kg	ND	2180	2250	104	59-133	
Chloroethane	ug/kg	ND	2180	1270	59	30-150	
Chloroform	ug/kg	ND	2180	2000	92	58-128	
Chloromethane	ug/kg	ND	2180	1090	50	38-125	
cis-1,2-Dichloroethene	ug/kg	ND	2180	2230	102	59-125	
cis-1,3-Dichloropropene	ug/kg	ND	2180	2140	98	57-133	
Dibromochloromethane	ug/kg	ND	2180	2000	92	54-141	
Dibromomethane	ug/kg	ND	2180	2240	103	53-134	
Dichlorodifluoromethane	ug/kg	ND	2180	484	22	30-125	C0,M1
Dichlorofluoromethane	ug/kg	ND	2180	1400	64	30-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	2180	1880	86	46-137	
Ethylbenzene	ug/kg	ND	2180	2280	105	56-141	
Hexachloro-1,3-butadiene	ug/kg	ND	2180	2150	99	45-150	
Isopropylbenzene (Cumene)	ug/kg	ND	2180	2270	104	48-141	
Methyl-tert-butyl ether	ug/kg	ND	2180	2310	106	53-133	
Methylene Chloride	ug/kg	ND	2180	2230	96	42-135	
n-Butylbenzene	ug/kg	ND	2180	2250	104	52-140	
n-Propylbenzene	ug/kg	ND	2180	2300	106	57-142	
Naphthalene	ug/kg	85.6	2180	2380	105	41-150	
p-Isopropyltoluene	ug/kg	ND	2180	2240	103	54-139	
sec-Butylbenzene	ug/kg	ND	2180	2360	109	30-150	
Styrene	ug/kg	ND	2180	2270	104	53-137	
tert-Butylbenzene	ug/kg	ND	2180	2260	104	59-138	
Tetrachloroethene	ug/kg	ND	2180	2270	104	53-138	
Tetrahydrofuran	ug/kg	ND	21800	22400	103	50-145	
Toluene	ug/kg	ND	2180	2440	111	55-134	
trans-1,2-Dichloroethene	ug/kg	ND	2180	2080	96	44-135	
trans-1,3-Dichloropropene	ug/kg	ND	2180	2210	102	59-139	
Trichloroethene	ug/kg	ND	2180	2370	109	52-143	
Trichlorofluoromethane	ug/kg	ND	2180	1380	63	30-150	
Vinyl chloride	ug/kg	ND	2180	1300	60	36-127	
Xylene (Total)	ug/kg	ND	6520	6890	106	56-137	
1,2-Dichloroethane-d4 (S)	%				91	75-129	
4-Bromofluorobenzene (S)	%				96	75-125	
Toluene-d8 (S)	%				104	75-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

SAMPLE DUPLICATE: 2476453

Parameter	Units	10373448005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	<51.1		30	
1,1,1-Trichloroethane	ug/kg	ND	<53.9		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	<28.6		30	
1,1,2-Trichloroethane	ug/kg	ND	<27.8		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	<309		30	
1,1-Dichloroethane	ug/kg	ND	<50.0		30	
1,1-Dichloroethene	ug/kg	ND	<32.7		30	
1,1-Dichloropropene	ug/kg	ND	<38.9		30	
1,2,3-Trichlorobenzene	ug/kg	ND	<37.1		30	
1,2,3-Trichloropropane	ug/kg	ND	<134		30	
1,2,4-Trichlorobenzene	ug/kg	ND	<39.7		30	
1,2,4-Trimethylbenzene	ug/kg	ND	<28.4		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	<251		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	<48.5		30	
1,2-Dichlorobenzene	ug/kg	ND	<24.9		30	
1,2-Dichloroethane	ug/kg	ND	<40.7		30	
1,2-Dichloropropane	ug/kg	ND	<44.6		30	
1,3,5-Trimethylbenzene	ug/kg	ND	<98.7		30	
1,3-Dichlorobenzene	ug/kg	ND	<37.9		30	
1,3-Dichloropropane	ug/kg	ND	<154		30	
1,4-Dichlorobenzene	ug/kg	ND	<125		30	
2,2-Dichloropropane	ug/kg	ND	<137		30	
2-Butanone (MEK)	ug/kg	ND	<567		30	
2-Chlorotoluene	ug/kg	ND	<118		30	
4-Chlorotoluene	ug/kg	ND	<112		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	<284		30	
Acetone	ug/kg	ND	<2820		30	
Allyl chloride	ug/kg	ND	<368		30	
Benzene	ug/kg	ND	<37.1		30	
Bromobenzene	ug/kg	ND	<110		30	
Bromochloromethane	ug/kg	ND	<128		30	
Bromodichloromethane	ug/kg	ND	<120		30	
Bromoform	ug/kg	ND	<370		30	
Bromomethane	ug/kg	ND	<435		30	
Carbon tetrachloride	ug/kg	ND	<135		30	
Chlorobenzene	ug/kg	ND	<74.7		30	
Chloroethane	ug/kg	ND	<678		30	
Chloroform	ug/kg	ND	<209		30	
Chloromethane	ug/kg	ND	<208		30	
cis-1,2-Dichloroethene	ug/kg	ND	<160		30	
cis-1,3-Dichloropropene	ug/kg	ND	<196		30	
Dibromochloromethane	ug/kg	ND	<368		30	
Dibromomethane	ug/kg	ND	<167		30	
Dichlorodifluoromethane	ug/kg	ND	<131		30	
Dichlorofluoromethane	ug/kg	ND	<1180		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	<177		30	
Ethylbenzene	ug/kg	ND	<137		30	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

SAMPLE DUPLICATE: 2476453

Parameter	Units	10373448005 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	<404		30	
Isopropylbenzene (Cumene)	ug/kg	ND	<153		30	
Methyl-tert-butyl ether	ug/kg	ND	<80.4		30	
Methylene Chloride	ug/kg	ND	<795		30	
n-Butylbenzene	ug/kg	ND	<104		30	
n-Propylbenzene	ug/kg	ND	<128		30	
Naphthalene	ug/kg	ND	<104		30	
p-Isopropyltoluene	ug/kg	ND	<71.3		30	
sec-Butylbenzene	ug/kg	ND	<101		30	
Styrene	ug/kg	ND	<112		30	
tert-Butylbenzene	ug/kg	ND	<136		30	
Tetrachloroethene	ug/kg	ND	<164		30	
Tetrahydrofuran	ug/kg	ND	<2130		30	
Toluene	ug/kg	ND	<137		30	
trans-1,2-Dichloroethene	ug/kg	ND	<207		30	
trans-1,3-Dichloropropene	ug/kg	ND	<146		30	
Trichloroethene	ug/kg	ND	<123		30	
Trichlorofluoromethane	ug/kg	ND	<431		30	
Vinyl chloride	ug/kg	ND	<55.1		30	
Xylene (Total)	ug/kg	ND	<343		30	
1,2-Dichloroethane-d4 (S)	%.	95	87	37		
4-Bromofluorobenzene (S)	%.	99	100	47		
Toluene-d8 (S)	%.	102	100	44		

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

QC Batch: 452534 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
 Associated Lab Samples: 10373615005, 10373615006, 10373615007, 10373615008, 10373615009, 10373615010, 10373615011, 10373615012

METHOD BLANK: 2477145 Matrix: Solid  
 Associated Lab Samples: 10373615005, 10373615006, 10373615007, 10373615008, 10373615009, 10373615010, 10373615011, 10373615012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/20/16 19:19	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/20/16 19:19	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/20/16 19:19	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/20/16 19:19	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/20/16 19:19	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/20/16 19:19	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/20/16 19:19	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/20/16 19:19	
1,2,3-Trichlorobenzene	ug/kg	<14.4	14.4	12/20/16 19:19	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/20/16 19:19	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/20/16 19:19	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/20/16 19:19	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/20/16 19:19	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/20/16 19:19	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/20/16 19:19	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/20/16 19:19	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/20/16 19:19	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/20/16 19:19	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/20/16 19:19	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/20/16 19:19	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/20/16 19:19	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/20/16 19:19	
2-Butanone (MEK)	ug/kg	<220	220	12/20/16 19:19	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/20/16 19:19	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/20/16 19:19	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/20/16 19:19	
Acetone	ug/kg	<1090	1090	12/20/16 19:19	
Allyl chloride	ug/kg	<143	143	12/20/16 19:19	
Benzene	ug/kg	<14.4	14.4	12/20/16 19:19	
Bromobenzene	ug/kg	<42.6	42.6	12/20/16 19:19	
Bromochloromethane	ug/kg	<49.6	49.6	12/20/16 19:19	
Bromodichloromethane	ug/kg	<46.6	46.6	12/20/16 19:19	
Bromoform	ug/kg	<144	144	12/20/16 19:19	
Bromomethane	ug/kg	<169	169	12/20/16 19:19	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/20/16 19:19	
Chlorobenzene	ug/kg	<29.0	29.0	12/20/16 19:19	
Chloroethane	ug/kg	<263	263	12/20/16 19:19	
Chloroform	ug/kg	<80.9	80.9	12/20/16 19:19	
Chloromethane	ug/kg	<80.6	80.6	12/20/16 19:19	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/20/16 19:19	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

METHOD BLANK: 2477145

Matrix: Solid

Associated Lab Samples: 10373615005, 10373615006, 10373615007, 10373615008, 10373615009, 10373615010, 10373615011, 10373615012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/20/16 19:19	
Dibromochloromethane	ug/kg	<143	143	12/20/16 19:19	
Dibromomethane	ug/kg	<64.9	64.9	12/20/16 19:19	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/20/16 19:19	
Dichlorofluoromethane	ug/kg	<456	456	12/20/16 19:19	
Diethyl ether (Ethyl ether)	ug/kg	<68.6	68.6	12/20/16 19:19	
Ethylbenzene	ug/kg	<52.9	52.9	12/20/16 19:19	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/20/16 19:19	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/20/16 19:19	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/20/16 19:19	
Methylene Chloride	ug/kg	<308	308	12/20/16 19:19	
n-Butylbenzene	ug/kg	<40.3	40.3	12/20/16 19:19	
n-Propylbenzene	ug/kg	<49.6	49.6	12/20/16 19:19	
Naphthalene	ug/kg	<40.3	40.3	12/20/16 19:19	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/20/16 19:19	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/20/16 19:19	
Styrene	ug/kg	<43.3	43.3	12/20/16 19:19	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/20/16 19:19	
Tetrachloroethene	ug/kg	<63.6	63.6	12/20/16 19:19	
Tetrahydrofuran	ug/kg	<826	826	12/20/16 19:19	
Toluene	ug/kg	<52.9	52.9	12/20/16 19:19	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/20/16 19:19	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/20/16 19:19	
Trichloroethene	ug/kg	<47.6	47.6	12/20/16 19:19	
Trichlorofluoromethane	ug/kg	<167	167	12/20/16 19:19	
Vinyl chloride	ug/kg	<21.4	21.4	12/20/16 19:19	
Xylene (Total)	ug/kg	<133	133	12/20/16 19:19	
1,2-Dichloroethane-d4 (S)	%	97	75-129	12/20/16 19:19	
4-Bromofluorobenzene (S)	%	98	75-125	12/20/16 19:19	
Toluene-d8 (S)	%	101	75-125	12/20/16 19:19	

LABORATORY CONTROL SAMPLE & LCSD: 2477146

2477147

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	946	904	95	90	71-127	5	20	
1,1,1-Trichloroethane	ug/kg	1000	868	918	87	92	64-132	6	20	
1,1,2,2-Tetrachloroethane	ug/kg	1000	965	945	96	95	50-138	2	20	
1,1,2-Trichloroethane	ug/kg	1000	943	887	94	89	69-126	6	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	968	970	97	97	53-144	0	20	
1,1-Dichloroethane	ug/kg	1000	931	909	93	91	61-134	2	20	
1,1-Dichloroethene	ug/kg	1000	936	946	94	95	57-135	1	20	
1,1-Dichloropropene	ug/kg	1000	902	941	90	94	59-133	4	20	
1,2,3-Trichlorobenzene	ug/kg	1000	897	972	90	97	32-150	8	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

LABORATORY CONTROL SAMPLE & LCSD: 2477146		2477147									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1,2,3-Trichloropropane	ug/kg	1000	921	1020	92	102	62-130	11	20		
1,2,4-Trichlorobenzene	ug/kg	1000	860	930	86	93	38-138	8	20		
1,2,4-Trimethylbenzene	ug/kg	1000	874	909	87	91	70-127	4	20		
1,2-Dibromo-3-chloropropane	ug/kg	2500	1990	2080	80	83	40-141	5	20		
1,2-Dibromoethane (EDB)	ug/kg	1000	885	912	89	91	69-130	3	20		
1,2-Dichlorobenzene	ug/kg	1000	867	899	87	90	72-125	4	20		
1,2-Dichloroethane	ug/kg	1000	841	812	84	81	62-125	4	20		
1,2-Dichloropropane	ug/kg	1000	859	999	86	100	67-126	15	20		
1,3,5-Trimethylbenzene	ug/kg	1000	922	931	92	93	71-129	1	20		
1,3-Dichlorobenzene	ug/kg	1000	907	933	91	93	72-126	3	20		
1,3-Dichloropropane	ug/kg	1000	976	925	98	92	70-125	5	20		
1,4-Dichlorobenzene	ug/kg	1000	862	926	86	93	70-126	7	20		
2,2-Dichloropropane	ug/kg	1000	741	764	74	76	48-134	3	20		
2-Butanone (MEK)	ug/kg	5000	4410	4220	88	84	38-149	4	20		
2-Chlorotoluene	ug/kg	1000	851	886	85	89	71-129	4	20		
4-Chlorotoluene	ug/kg	1000	916	923	92	92	72-128	1	20		
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4800	5000	96	100	52-145	4	20		
Acetone	ug/kg	5000	4270	4470	85	89	65-142	4	20		
Allyl chloride	ug/kg	1000	849	857	85	86	54-125	1	20		
Benzene	ug/kg	1000	853	896	85	90	64-125	5	20		
Bromobenzene	ug/kg	1000	906	914	91	91	70-125	1	20		
Bromochloromethane	ug/kg	1000	904	953	90	95	68-125	5	20		
Bromodichloromethane	ug/kg	1000	821	866	82	87	67-125	5	20		
Bromoform	ug/kg	1000	699	697	70	70	56-127	0	20		
Bromomethane	ug/kg	1000	822	881	82	88	34-137	7	20		
Carbon tetrachloride	ug/kg	1000	829	868	83	87	58-138	5	20		
Chlorobenzene	ug/kg	1000	940	934	94	93	72-125	1	20		
Chloroethane	ug/kg	1000	778	849	78	85	39-148	9	20		
Chloroform	ug/kg	1000	835	842	84	84	67-125	1	20		
Chloromethane	ug/kg	1000	742	831	74	83	54-125	11	20		
cis-1,2-Dichloroethene	ug/kg	1000	899	894	90	89	67-125	1	20		
cis-1,3-Dichloropropene	ug/kg	1000	775	896	78	90	62-127	14	20		
Dibromochloromethane	ug/kg	1000	786	787	79	79	67-125	0	20		
Dibromomethane	ug/kg	1000	864	946	86	95	63-129	9	20		
Dichlorodifluoromethane	ug/kg	1000	541	582	54	58	34-139	7	20		
Dichlorofluoromethane	ug/kg	1000	768	826	77	83	36-144	7	20		
Diethyl ether (Ethyl ether)	ug/kg	1000	891	924	89	92	51-125	4	20		
Ethylbenzene	ug/kg	1000	970	926	97	93	70-129	5	20		
Hexachloro-1,3-butadiene	ug/kg	1000	850	940	85	94	48-126	10	20		
Isopropylbenzene (Cumene)	ug/kg	1000	929	927	93	93	75-127	0	20		
Methyl-tert-butyl ether	ug/kg	1000	904	874	90	87	61-125	3	20		
Methylene Chloride	ug/kg	1000	845	889	84	89	60-126	5	20		
n-Butylbenzene	ug/kg	1000	874	903	87	90	67-125	3	20		
n-Propylbenzene	ug/kg	1000	944	936	94	94	72-133	1	20		
Naphthalene	ug/kg	1000	888	928	89	93	35-147	4	20		
p-Isopropyltoluene	ug/kg	1000	915	906	91	91	69-127	1	20		
sec-Butylbenzene	ug/kg	1000	963	953	96	95	70-127	1	20		

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

LABORATORY CONTROL SAMPLE & LCSD: 2477146		2477147									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Styrene	ug/kg	1000	905	901	91	90	73-125	1	20		
tert-Butylbenzene	ug/kg	1000	924	963	92	96	71-130	4	20		
Tetrachloroethene	ug/kg	1000	997	1080	100	108	66-135	8	20		
Tetrahydrofuran	ug/kg	10000	8280	8410	83	84	66-145	1	20		
Toluene	ug/kg	1000	972	1020	97	102	69-125	5	20		
trans-1,2-Dichloroethene	ug/kg	1000	901	947	90	95	55-135	5	20		
trans-1,3-Dichloropropene	ug/kg	1000	881	914	88	91	67-125	4	20		
Trichloroethene	ug/kg	1000	1000	1010	100	101	62-141	1	20		
Trichlorofluoromethane	ug/kg	1000	865	918	86	92	38-150	6	20		
Vinyl chloride	ug/kg	1000	877	925	88	92	57-131	5	20		
Xylene (Total)	ug/kg	3000	2810	2780	94	93	73-128	1	20		
1,2-Dichloroethane-d4 (S)	%				97	96	75-129				
4-Bromofluorobenzene (S)	%				99	98	75-125				
Toluene-d8 (S)	%				99	101	75-125				

MATRIX SPIKE SAMPLE: 2477299		10373615006	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<29.6	1390	1340	97	59-135	
1,1,1-Trichloroethane	ug/kg	<31.2	1390	1260	91	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	<16.6	1390	1520	110	40-149	
1,1,2-Trichloroethane	ug/kg	<16.1	1390	1360	98	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	<179	1390	1000	72	41-150	
1,1-Dichloroethane	ug/kg	<29.0	1390	1470	106	53-131	
1,1-Dichloroethene	ug/kg	<19.0	1390	1120	80	41-133	
1,1-Dichloropropene	ug/kg	<22.5	1390	1450	104	50-139	
1,2,3-Trichlorobenzene	ug/kg	<21.5	1390	1380	99	52-150	
1,2,3-Trichloropropane	ug/kg	<77.3	1390	1390	100	61-137	
1,2,4-Trichlorobenzene	ug/kg	<23.0	1390	1290	93	52-142	
1,2,4-Trimethylbenzene	ug/kg	<16.4	1390	1320	95	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	<146	3470	3130	90	47-143	
1,2-Dibromoethane (EDB)	ug/kg	<28.1	1390	1260	91	57-136	
1,2-Dichlorobenzene	ug/kg	<14.4	1390	1410	102	59-136	
1,2-Dichloroethane	ug/kg	<23.6	1390	1220	88	52-133	
1,2-Dichloropropane	ug/kg	<25.8	1390	1410	102	62-129	
1,3,5-Trimethylbenzene	ug/kg	<57.2	1390	1330	96	54-143	
1,3-Dichlorobenzene	ug/kg	<21.9	1390	1350	97	60-137	
1,3-Dichloropropane	ug/kg	<89.0	1390	1380	100	57-138	
1,4-Dichlorobenzene	ug/kg	<72.1	1390	1340	97	51-132	
2,2-Dichloropropane	ug/kg	<79.0	1390	731	53	50-134	
2-Butanone (MEK)	ug/kg	<328	6920	7650	110	46-125	
2-Chlorotoluene	ug/kg	<68.6	1390	1260	91	60-141	
4-Chlorotoluene	ug/kg	<65.1	1390	1370	99	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	<165	6920	7850	113	47-146	
Acetone	ug/kg	<1630	6920	6810	98	45-148	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

MATRIX SPIKE SAMPLE: 2477299		10373615006	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Allyl chloride	ug/kg	<213	1390	1300	94	50-135	
Benzene	ug/kg	<21.5	1390	1450	105	41-134	
Bromobenzene	ug/kg	<63.6	1390	1340	97	59-134	
Bromochloromethane	ug/kg	<74.1	1390	1450	105	56-127	
Bromodichloromethane	ug/kg	<69.6	1390	1100	79	55-136	
Bromoform	ug/kg	<214	1390	947	68	51-139	
Bromomethane	ug/kg	<252	1390	1040	75	35-148	
Carbon tetrachloride	ug/kg	<78.1	1390	1100	80	50-140	
Chlorobenzene	ug/kg	<43.3	1390	1340	97	59-133	
Chloroethane	ug/kg	<393	1390	1010	73	30-150	
Chloroform	ug/kg	<121	1390	1250	90	58-128	
Chloromethane	ug/kg	<120	1390	952	69	38-125	
cis-1,2-Dichloroethene	ug/kg	<92.5	1390	1500	108	59-125	
cis-1,3-Dichloropropene	ug/kg	<113	1390	1110	80	57-133	
Dibromochloromethane	ug/kg	<213	1390	1080	78	54-141	
Dibromomethane	ug/kg	<96.9	1390	1220	88	53-134	
Dichlorodifluoromethane	ug/kg	<76.1	1390	399	29	30-125 M1	
Dichlorofluoromethane	ug/kg	<681	1390	973	70	30-150	
Diethyl ether (Ethyl ether)	ug/kg	<102	1390	1170	84	46-137	
Ethylbenzene	ug/kg	<79.0	1390	1360	98	56-141	
Hexachloro-1,3-butadiene	ug/kg	<234	1390	1260	91	45-150	
Isopropylbenzene (Cumene)	ug/kg	<88.5	1390	1360	98	48-141	
Methyl-tert-butyl ether	ug/kg	<46.5	1390	1460	106	53-133	
Methylene Chloride	ug/kg	<460	1390	1420	101	42-135	
n-Butylbenzene	ug/kg	<60.2	1390	1320	95	52-140	
n-Propylbenzene	ug/kg	<74.1	1390	1360	98	57-142	
Naphthalene	ug/kg	<60.2	1390	1460	105	41-150	
p-Isopropyltoluene	ug/kg	<41.3	1390	1290	93	54-139	
sec-Butylbenzene	ug/kg	<58.7	1390	1400	101	30-150	
Styrene	ug/kg	<64.6	1390	1340	97	53-137	
tert-Butylbenzene	ug/kg	<78.5	1390	1340	97	59-138	
Tetrachloroethene	ug/kg	<95.0	1390	1430	103	53-138	
Tetrahydrofuran	ug/kg	<1230	13900	11800	85	50-145	
Toluene	ug/kg	<79.0	1390	1400	101	55-134	
trans-1,2-Dichloroethene	ug/kg	<120	1390	1460	105	44-135	
trans-1,3-Dichloropropene	ug/kg	<84.5	1390	1220	88	59-139	
Trichloroethene	ug/kg	<71.1	1390	1370	99	52-143	
Trichlorofluoromethane	ug/kg	<250	1390	918	66	30-150	
Vinyl chloride	ug/kg	<31.9	1390	1070	77	36-127	
Xylene (Total)	ug/kg	<199	4160	4060	98	56-137	
1,2-Dichloroethane-d4 (S)	%				99	75-129	
4-Bromofluorobenzene (S)	%				99	75-125	
Toluene-d8 (S)	%				103	75-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

SAMPLE DUPLICATE: 2477300

Parameter	Units	10373615007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<23.3	<22.4		30	
1,1,1-Trichloroethane	ug/kg	<24.6	<23.7		30	
1,1,2,2-Tetrachloroethane	ug/kg	<13.1	<12.6		30	
1,1,2-Trichloroethane	ug/kg	<12.7	<12.2		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	<141	<136		30	
1,1-Dichloroethane	ug/kg	<22.9	<22.0		30	
1,1-Dichloroethene	ug/kg	<15.0	<14.4		30	
1,1-Dichloropropene	ug/kg	<17.8	<17.1		30	
1,2,3-Trichlorobenzene	ug/kg	<17.0	<16.3		30	
1,2,3-Trichloropropane	ug/kg	<61.0	<58.7		30	
1,2,4-Trichlorobenzene	ug/kg	<18.1	<17.5		30	
1,2,4-Trimethylbenzene	ug/kg	16.3	<12.5		30	
1,2-Dibromo-3-chloropropane	ug/kg	<115	<111		30	
1,2-Dibromoethane (EDB)	ug/kg	<22.1	<21.3		30	
1,2-Dichlorobenzene	ug/kg	<11.4	<11.0		30	
1,2-Dichloroethane	ug/kg	<18.6	<17.9		30	
1,2-Dichloropropane	ug/kg	<20.4	<19.6		30	
1,3,5-Trimethylbenzene	ug/kg	<45.1	<43.4		30	
1,3-Dichlorobenzene	ug/kg	<17.3	<16.7		30	
1,3-Dichloropropane	ug/kg	<70.2	<67.6		30	
1,4-Dichlorobenzene	ug/kg	<56.9	<54.7		30	
2,2-Dichloropropane	ug/kg	<62.4	<60.0		30	
2-Butanone (MEK)	ug/kg	<259	<249		30	
2-Chlorotoluene	ug/kg	<54.1	<52.1		30	
4-Chlorotoluene	ug/kg	<51.4	<49.5		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	<130	<125		30	
Acetone	ug/kg	<1290	<1240		30	
Allyl chloride	ug/kg	<168	<162		30	
Benzene	ug/kg	17.1	<16.3		30	
Bromobenzene	ug/kg	<50.2	<48.3		30	
Bromochloromethane	ug/kg	<58.4	<56.3		30	
Bromodichloromethane	ug/kg	<54.9	<52.9		30	
Bromoform	ug/kg	<169	<163		30	
Bromomethane	ug/kg	<199	<191		30	
Carbon tetrachloride	ug/kg	<61.6	<59.3		30	
Chlorobenzene	ug/kg	<34.1	<32.8		30	
Chloroethane	ug/kg	<310	<298		30	
Chloroform	ug/kg	<95.3	<91.7		30	
Chloromethane	ug/kg	<94.9	<91.4		30	
cis-1,2-Dichloroethene	ug/kg	<73.0	<70.2		30	
cis-1,3-Dichloropropene	ug/kg	<89.4	<86.1		30	
Dibromochloromethane	ug/kg	<168	<162		30	
Dibromomethane	ug/kg	<76.5	<73.6		30	
Dichlorodifluoromethane	ug/kg	<60.0	<57.8		30	
Dichlorofluoromethane	ug/kg	<537	<517		30	
Diethyl ether (Ethyl ether)	ug/kg	<80.8	<77.8		30	
Ethylbenzene	ug/kg	<62.4	<60.0		30	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

SAMPLE DUPLICATE: 2477300

Parameter	Units	10373615007 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<184	<177		30	
Isopropylbenzene (Cumene)	ug/kg	<69.8	<67.2		30	
Methyl-tert-butyl ether	ug/kg	<36.7	<35.3		30	
Methylene Chloride	ug/kg	<363	<350		30	
n-Butylbenzene	ug/kg	<47.5	<45.7		30	
n-Propylbenzene	ug/kg	<58.4	<56.3		30	
Naphthalene	ug/kg	77.6	65.1		30	
p-Isopropyltoluene	ug/kg	<32.6	<31.3		30	
sec-Butylbenzene	ug/kg	<46.3	<44.5		30	
Styrene	ug/kg	<51.0	<49.1		30	
tert-Butylbenzene	ug/kg	<62.0	<59.7		30	
Tetrachloroethene	ug/kg	<74.9	<72.1		30	
Tetrahydrofuran	ug/kg	<973	<936		30	
Toluene	ug/kg	<62.4	<60.0		30	
trans-1,2-Dichloroethene	ug/kg	<94.5	<91.0		30	
trans-1,3-Dichloropropene	ug/kg	<66.7	<64.2		30	
Trichloroethene	ug/kg	<56.1	<54.0		30	
Trichlorofluoromethane	ug/kg	<197	<190		30	
Vinyl chloride	ug/kg	<25.2	<24.2		30	
Xylene (Total)	ug/kg	<157	<151		30	
1,2-Dichloroethane-d4 (S)	%.	93	99	2		
4-Bromofluorobenzene (S)	%.	97	98	2		
Toluene-d8 (S)	%.	98	101	1		

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

QC Batch: 452569	Analysis Method: EPA 8260B
QC Batch Method: EPA 5035/5030B	Analysis Description: 8260B MSV 5030 Med Level
Associated Lab Samples: 10373615019	

METHOD BLANK: 2477305 Matrix: Solid

Associated Lab Samples: 10373615019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/20/16 19:03	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/20/16 19:03	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/20/16 19:03	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/20/16 19:03	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/20/16 19:03	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/20/16 19:03	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/20/16 19:03	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/20/16 19:03	
1,2,3-Trichlorobenzene	ug/kg	<14.4	14.4	12/20/16 19:03	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/20/16 19:03	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/20/16 19:03	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/20/16 19:03	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/20/16 19:03	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/20/16 19:03	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/20/16 19:03	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/20/16 19:03	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/20/16 19:03	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/20/16 19:03	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/20/16 19:03	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/20/16 19:03	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/20/16 19:03	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/20/16 19:03	
2-Butanone (MEK)	ug/kg	<220	220	12/20/16 19:03	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/20/16 19:03	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/20/16 19:03	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/20/16 19:03	
Acetone	ug/kg	<1090	1090	12/20/16 19:03	
Allyl chloride	ug/kg	<143	143	12/20/16 19:03	
Benzene	ug/kg	<14.4	14.4	12/20/16 19:03	
Bromobenzene	ug/kg	<42.6	42.6	12/20/16 19:03	
Bromochloromethane	ug/kg	<49.6	49.6	12/20/16 19:03	
Bromodichloromethane	ug/kg	<46.6	46.6	12/20/16 19:03	
Bromoform	ug/kg	<144	144	12/20/16 19:03	
Bromomethane	ug/kg	<169	169	12/20/16 19:03	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/20/16 19:03	
Chlorobenzene	ug/kg	<29.0	29.0	12/20/16 19:03	
Chloroethane	ug/kg	<263	263	12/20/16 19:03	
Chloroform	ug/kg	<80.9	80.9	12/20/16 19:03	
Chloromethane	ug/kg	<80.6	80.6	12/20/16 19:03	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/20/16 19:03	
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/20/16 19:03	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

METHOD BLANK: 2477305

Matrix: Solid

Associated Lab Samples: 10373615019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<143	143	12/20/16 19:03	
Dibromomethane	ug/kg	<64.9	64.9	12/20/16 19:03	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/20/16 19:03	
Dichlorofluoromethane	ug/kg	<456	456	12/20/16 19:03	
Diethyl ether (Ethyl ether)	ug/kg	125	68.6	12/20/16 19:03	P8
Ethylbenzene	ug/kg	<52.9	52.9	12/20/16 19:03	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/20/16 19:03	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/20/16 19:03	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/20/16 19:03	
Methylene Chloride	ug/kg	<308	308	12/20/16 19:03	
n-Butylbenzene	ug/kg	<40.3	40.3	12/20/16 19:03	
n-Propylbenzene	ug/kg	<49.6	49.6	12/20/16 19:03	
Naphthalene	ug/kg	<40.3	40.3	12/20/16 19:03	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/20/16 19:03	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/20/16 19:03	
Styrene	ug/kg	<43.3	43.3	12/20/16 19:03	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/20/16 19:03	
Tetrachloroethene	ug/kg	<63.6	63.6	12/20/16 19:03	
Tetrahydrofuran	ug/kg	<826	826	12/20/16 19:03	
Toluene	ug/kg	<52.9	52.9	12/20/16 19:03	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/20/16 19:03	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/20/16 19:03	
Trichloroethene	ug/kg	<47.6	47.6	12/20/16 19:03	
Trichlorofluoromethane	ug/kg	<167	167	12/20/16 19:03	
Vinyl chloride	ug/kg	<21.4	21.4	12/20/16 19:03	
Xylene (Total)	ug/kg	<133	133	12/20/16 19:03	
1,2-Dichloroethane-d4 (S)	%	98	75-129	12/20/16 19:03	
4-Bromofluorobenzene (S)	%	100	75-125	12/20/16 19:03	
Toluene-d8 (S)	%	95	75-125	12/20/16 19:03	

LABORATORY CONTROL SAMPLE & LCSD: 2477306

2477307

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	886	886	89	89	71-127	0	20	
1,1,1-Trichloroethane	ug/kg	1000	847	866	85	87	64-132	2	20	
1,1,2,2-Tetrachloroethane	ug/kg	1000	923	988	92	99	50-138	7	20	
1,1,2-Trichloroethane	ug/kg	1000	875	849	88	85	69-126	3	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	837	958	84	96	53-144	13	20	
1,1-Dichloroethane	ug/kg	1000	862	918	86	92	61-134	6	20	
1,1-Dichloroethene	ug/kg	1000	839	905	84	90	57-135	7	20	
1,1-Dichloropropene	ug/kg	1000	884	926	88	93	59-133	5	20	
1,2,3-Trichlorobenzene	ug/kg	1000	918	943	92	94	32-150	3	20	
1,2,3-Trichloropropane	ug/kg	1000	848	927	85	93	62-130	9	20	
1,2,4-Trichlorobenzene	ug/kg	1000	906	913	91	91	38-138	1	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

LABORATORY CONTROL SAMPLE & LCSD: 2477306

2477307

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	870	886	87	89	70-127	2	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1800	2000	72	80	40-141	10	20	
1,2-Dibromoethane (EDB)	ug/kg	1000	843	856	84	86	69-130	2	20	
1,2-Dichlorobenzene	ug/kg	1000	893	951	89	95	72-125	6	20	
1,2-Dichloroethane	ug/kg	1000	781	825	78	82	62-125	5	20	
1,2-Dichloropropane	ug/kg	1000	968	909	97	91	67-126	6	20	
1,3,5-Trimethylbenzene	ug/kg	1000	842	912	84	91	71-129	8	20	
1,3-Dichlorobenzene	ug/kg	1000	899	930	90	93	72-126	3	20	
1,3-Dichloropropane	ug/kg	1000	914	907	91	91	70-125	1	20	
1,4-Dichlorobenzene	ug/kg	1000	904	901	90	90	70-126	0	20	
2,2-Dichloropropane	ug/kg	1000	775	882	78	88	48-134	13	20	
2-Butanone (MEK)	ug/kg	5000	4100	4510	82	90	38-149	10	20	
2-Chlorotoluene	ug/kg	1000	812	864	81	86	71-129	6	20	
4-Chlorotoluene	ug/kg	1000	899	911	90	91	72-128	1	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4330	4540	87	91	52-145	5	20	
Acetone	ug/kg	5000	4710	4300	94	86	65-142	9	20	
Allyl chloride	ug/kg	1000	759	861	76	86	54-125	13	20	
Benzene	ug/kg	1000	864	902	86	90	64-125	4	20	
Bromobenzene	ug/kg	1000	885	920	88	92	70-125	4	20	
Bromochloromethane	ug/kg	1000	923	953	92	95	68-125	3	20	
Bromodichloromethane	ug/kg	1000	822	824	82	82	67-125	0	20	
Bromoform	ug/kg	1000	632	622	63	62	56-127	2	20	
Bromomethane	ug/kg	1000	791	924	79	92	34-137	16	20	
Carbon tetrachloride	ug/kg	1000	761	822	76	82	58-138	8	20	
Chlorobenzene	ug/kg	1000	829	887	83	89	72-125	7	20	
Chloroethane	ug/kg	1000	802	918	80	92	39-148	14	20	
Chloroform	ug/kg	1000	799	865	80	86	67-125	8	20	
Chloromethane	ug/kg	1000	652	784	65	78	54-125	18	20	
cis-1,2-Dichloroethene	ug/kg	1000	935	939	94	94	67-125	0	20	
cis-1,3-Dichloropropene	ug/kg	1000	828	882	83	88	62-127	6	20	
Dibromochloromethane	ug/kg	1000	775	755	77	75	67-125	3	20	
Dibromomethane	ug/kg	1000	904	908	90	91	63-129	0	20	
Dichlorodifluoromethane	ug/kg	1000	505	549	51	55	34-139	8	20	
Dichlorofluoromethane	ug/kg	1000	754	779	75	78	36-144	3	20	
Diethyl ether (Ethyl ether)	ug/kg	1000	899	904	90	90	51-125	1	20	
Ethylbenzene	ug/kg	1000	874	913	87	91	70-129	4	20	
Hexachloro-1,3-butadiene	ug/kg	1000	884	930	88	93	48-126	5	20	
Isopropylbenzene (Cumene)	ug/kg	1000	871	856	87	86	75-127	2	20	
Methyl-tert-butyl ether	ug/kg	1000	798	886	80	89	61-125	11	20	
Methylene Chloride	ug/kg	1000	783	932	78	93	60-126	17	20	
n-Butylbenzene	ug/kg	1000	885	935	89	93	67-125	5	20	
n-Propylbenzene	ug/kg	1000	835	910	84	91	72-133	9	20	
Naphthalene	ug/kg	1000	854	887	85	89	35-147	4	20	
p-Isopropyltoluene	ug/kg	1000	860	884	86	88	69-127	3	20	
sec-Butylbenzene	ug/kg	1000	894	954	89	95	70-127	7	20	
Styrene	ug/kg	1000	845	865	85	86	73-125	2	20	
tert-Butylbenzene	ug/kg	1000	853	924	85	92	71-130	8	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

LABORATORY CONTROL SAMPLE & LCSD: 2477306

2477307

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Tetrachloroethane	ug/kg	1000	984	968	98	97	66-135	2	20	
Tetrahydrofuran	ug/kg	10000	10600	8350	106	84	66-145	24	20	R1
Toluene	ug/kg	1000	929	923	93	92	69-125	1	20	
trans-1,2-Dichloroethene	ug/kg	1000	834	955	83	95	55-135	13	20	
trans-1,3-Dichloropropene	ug/kg	1000	877	882	88	88	67-125	1	20	
Trichloroethene	ug/kg	1000	944	957	94	96	62-141	1	20	
Trichlorofluoromethane	ug/kg	1000	893	1040	89	104	38-150	16	20	
Vinyl chloride	ug/kg	1000	780	952	78	95	57-131	20	20	
Xylene (Total)	ug/kg	3000	2700	2750	90	92	73-128	2	20	
1,2-Dichloroethane-d4 (S)	%				91	94	75-129			
4-Bromofluorobenzene (S)	%				88	95	75-125			
Toluene-d8 (S)	%				95	98	75-125			

MATRIX SPIKE SAMPLE: 2477308

Parameter	Units	10373728001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1230	1380	112	59-135	
1,1,1-Trichloroethane	ug/kg	ND	1230	1360	110	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1230	1370	112	40-149	
1,1,2-Trichloroethane	ug/kg	ND	1230	1370	111	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1230	1410	115	41-150	
1,1-Dichloroethane	ug/kg	ND	1230	1420	116	53-131	
1,1-Dichloroethene	ug/kg	ND	1230	1480	120	41-133	
1,1-Dichloropropene	ug/kg	ND	1230	1460	118	50-139	
1,2,3-Trichlorobenzene	ug/kg	ND	1230	1490	121	52-150	
1,2,3-Trichloropropane	ug/kg	ND	1230	1410	114	61-137	
1,2,4-Trichlorobenzene	ug/kg	ND	1230	1460	119	52-142	
1,2,4-Trimethylbenzene	ug/kg	ND	1230	1350	110	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	ND	3090	3330	108	47-143	
1,2-Dibromoethane (EDB)	ug/kg	ND	1230	1370	112	57-136	
1,2-Dichlorobenzene	ug/kg	ND	1230	1440	117	59-136	
1,2-Dichloroethane	ug/kg	ND	1230	1250	101	52-133	
1,2-Dichloropropane	ug/kg	ND	1230	1470	119	62-129	
1,3,5-Trimethylbenzene	ug/kg	ND	1230	1360	110	54-143	
1,3-Dichlorobenzene	ug/kg	ND	1230	1400	114	60-137	
1,3-Dichloropropane	ug/kg	ND	1230	1430	116	57-138	
1,4-Dichlorobenzene	ug/kg	ND	1230	1400	114	51-132	
2,2-Dichloropropane	ug/kg	ND	1230	1230	100	50-134	
2-Butanone (MEK)	ug/kg	ND	6160	7350	119	46-125	
2-Chlorotoluene	ug/kg	ND	1230	1310	106	60-141	
4-Chlorotoluene	ug/kg	ND	1230	1370	111	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	6160	7050	114	47-146	
Acetone	ug/kg	ND	6160	6610	107	45-148	
Allyl chloride	ug/kg	ND	1230	1370	111	50-135	
Benzene	ug/kg	ND	1230	1370	111	41-134	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

MATRIX SPIKE SAMPLE: 2477308		10373728001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromobenzene	ug/kg	ND	1230	1330	108	59-134	
Bromochloromethane	ug/kg	ND	1230	1420	115	56-127	
Bromodichloromethane	ug/kg	ND	1230	1290	105	55-136	
Bromoform	ug/kg	ND	1230	1060	86	51-139	
Bromomethane	ug/kg	ND	1230	1200	97	35-148	
Carbon tetrachloride	ug/kg	ND	1230	1310	106	50-140	
Chlorobenzene	ug/kg	ND	1230	1350	109	59-133	
Chloroethane	ug/kg	ND	1230	1180	96	30-150	
Chloroform	ug/kg	ND	1230	1290	105	58-128	
Chloromethane	ug/kg	ND	1230	1150	93	38-125	
cis-1,2-Dichloroethene	ug/kg	ND	1230	1440	117	59-125	
cis-1,3-Dichloropropene	ug/kg	ND	1230	1290	105	57-133	
Dibromochloromethane	ug/kg	ND	1230	1220	99	54-141	
Dibromomethane	ug/kg	ND	1230	1380	112	53-134	
Dichlorodifluoromethane	ug/kg	ND	1230	629	51	30-125	
Dichlorofluoromethane	ug/kg	ND	1230	1170	95	30-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	1230	1400	113	46-137	
Ethylbenzene	ug/kg	ND	1230	1390	112	56-141	
Hexachloro-1,3-butadiene	ug/kg	ND	1230	1520	124	45-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1230	1410	115	48-141	
Methyl-tert-butyl ether	ug/kg	ND	1230	1430	116	53-133	
Methylene Chloride	ug/kg	ND	1230	1410	114	42-135	
n-Butylbenzene	ug/kg	ND	1230	1450	118	52-140	
n-Propylbenzene	ug/kg	ND	1230	1350	110	57-142	
Naphthalene	ug/kg	ND	1230	1450	116	41-150	
p-Isopropyltoluene	ug/kg	ND	1230	1380	112	54-139	
sec-Butylbenzene	ug/kg	ND	1230	1450	118	30-150	
Styrene	ug/kg	ND	1230	1360	111	53-137	
tert-Butylbenzene	ug/kg	ND	1230	1400	114	59-138	
Tetrachloroethene	ug/kg	ND	1230	1510	123	53-138	
Tetrahydrofuran	ug/kg	ND	12300	12600	102	50-145	
Toluene	ug/kg	ND	1230	1430	115	55-134	
trans-1,2-Dichloroethene	ug/kg	ND	1230	1410	114	44-135	
trans-1,3-Dichloropropene	ug/kg	ND	1230	1380	112	59-139	
Trichloroethene	ug/kg	ND	1230	1430	116	52-143	
Trichlorofluoromethane	ug/kg	ND	1230	1170	95	30-150	
Vinyl chloride	ug/kg	ND	1230	1370	111	36-127	
Xylene (Total)	ug/kg	ND	3700	4160	113	56-137	
1,2-Dichloroethane-d4 (S)	%				98	75-129	
4-Bromofluorobenzene (S)	%				93	75-125	
Toluene-d8 (S)	%				99	75-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

SAMPLE DUPLICATE: 2477309

Parameter	Units	10373728002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	<26.1		30	
1,1,1-Trichloroethane	ug/kg	ND	<27.5		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	<14.6		30	
1,1,2-Trichloroethane	ug/kg	ND	<14.2		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	<158		30	
1,1-Dichloroethane	ug/kg	ND	<25.5		30	
1,1-Dichloroethene	ug/kg	ND	<16.7		30	
1,1-Dichloropropene	ug/kg	ND	<19.9		30	
1,2,3-Trichlorobenzene	ug/kg	ND	<19.0		30	
1,2,3-Trichloropropane	ug/kg	ND	<68.2		30	
1,2,4-Trichlorobenzene	ug/kg	ND	<20.3		30	
1,2,4-Trimethylbenzene	ug/kg	ND	<14.5		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	<128		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	<24.8		30	
1,2-Dichlorobenzene	ug/kg	ND	<12.7		30	
1,2-Dichloroethane	ug/kg	ND	<20.8		30	
1,2-Dichloropropane	ug/kg	ND	<22.8		30	
1,3,5-Trimethylbenzene	ug/kg	ND	<50.4		30	
1,3-Dichlorobenzene	ug/kg	ND	<19.4		30	
1,3-Dichloropropane	ug/kg	ND	<78.5		30	
1,4-Dichlorobenzene	ug/kg	ND	<63.6		30	
2,2-Dichloropropane	ug/kg	ND	<69.7		30	
2-Butanone (MEK)	ug/kg	ND	<289		30	
2-Chlorotoluene	ug/kg	ND	<60.5		30	
4-Chlorotoluene	ug/kg	ND	<57.4		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	<145		30	
Acetone	ug/kg	ND	<1440		30	
Allyl chloride	ug/kg	ND	<188		30	
Benzene	ug/kg	ND	<18.9		30	
Bromobenzene	ug/kg	ND	<56.1		30	
Bromochloromethane	ug/kg	ND	<65.3		30	
Bromodichloromethane	ug/kg	ND	<61.4		30	
Bromoform	ug/kg	ND	<189		30	
Bromomethane	ug/kg	ND	<222		30	
Carbon tetrachloride	ug/kg	ND	<68.8		30	
Chlorobenzene	ug/kg	ND	<38.1		30	
Chloroethane	ug/kg	ND	<346		30	
Chloroform	ug/kg	ND	<107		30	
Chloromethane	ug/kg	ND	<106		30	
cis-1,2-Dichloroethene	ug/kg	ND	<81.6		30	
cis-1,3-Dichloropropene	ug/kg	ND	<100		30	
Dibromochloromethane	ug/kg	ND	<188		30	
Dibromomethane	ug/kg	ND	<85.5		30	
Dichlorodifluoromethane	ug/kg	ND	<67.1		30	
Dichlorofluoromethane	ug/kg	ND	<601		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	<90.3		30	
Ethylbenzene	ug/kg	ND	<69.7		30	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

SAMPLE DUPLICATE: 2477309

Parameter	Units	10373728002 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	<206		30	
Isopropylbenzene (Cumene)	ug/kg	ND	<78.0		30	
Methyl-tert-butyl ether	ug/kg	ND	<41.0		30	
Methylene Chloride	ug/kg	ND	<406		30	
n-Butylbenzene	ug/kg	ND	<53.1		30	
n-Propylbenzene	ug/kg	ND	<65.3		30	
Naphthalene	ug/kg	ND	<53.1		30	
p-Isopropyltoluene	ug/kg	ND	<36.4		30	
sec-Butylbenzene	ug/kg	ND	<51.7		30	
Styrene	ug/kg	ND	<57.0		30	
tert-Butylbenzene	ug/kg	ND	<69.3		30	
Tetrachloroethene	ug/kg	ND	<83.7		30	
Tetrahydrofuran	ug/kg	ND	<1090		30	
Toluene	ug/kg	ND	<69.7		30	
trans-1,2-Dichloroethene	ug/kg	ND	<106		30	
trans-1,3-Dichloropropene	ug/kg	ND	<74.5		30	
Trichloroethene	ug/kg	ND	<62.7		30	
Trichlorofluoromethane	ug/kg	ND	<220		30	
Vinyl chloride	ug/kg	ND	<28.2		30	
Xylene (Total)	ug/kg	ND	<175		30	
1,2-Dichloroethane-d4 (S)	%.	88	89	7		
4-Bromofluorobenzene (S)	%.	99	100	6		
Toluene-d8 (S)	%.	103	104	6		

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

QC Batch: 452612 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10373615013, 10373615014, 10373615015, 10373615016, 10373615017, 10373615018

METHOD BLANK: 2477527 Matrix: Solid  
Associated Lab Samples: 10373615013, 10373615014, 10373615015, 10373615016, 10373615017, 10373615018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/21/16 14:09	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/21/16 14:09	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/21/16 14:09	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/21/16 14:09	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/21/16 14:09	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/21/16 14:09	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/21/16 14:09	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/21/16 14:09	
1,2,3-Trichlorobenzene	ug/kg	<14.4	14.4	12/21/16 14:09	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/21/16 14:09	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/21/16 14:09	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/21/16 14:09	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/21/16 14:09	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/21/16 14:09	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/21/16 14:09	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/21/16 14:09	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/21/16 14:09	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/21/16 14:09	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/21/16 14:09	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/21/16 14:09	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/21/16 14:09	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/21/16 14:09	
2-Butanone (MEK)	ug/kg	<220	220	12/21/16 14:09	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/21/16 14:09	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/21/16 14:09	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/21/16 14:09	
Acetone	ug/kg	<1090	1090	12/21/16 14:09	
Allyl chloride	ug/kg	<143	143	12/21/16 14:09	
Benzene	ug/kg	<14.4	14.4	12/21/16 14:09	
Bromobenzene	ug/kg	<42.6	42.6	12/21/16 14:09	
Bromochloromethane	ug/kg	<49.6	49.6	12/21/16 14:09	
Bromodichloromethane	ug/kg	<46.6	46.6	12/21/16 14:09	
Bromoform	ug/kg	<144	144	12/21/16 14:09	
Bromomethane	ug/kg	<169	169	12/21/16 14:09	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/21/16 14:09	
Chlorobenzene	ug/kg	<29.0	29.0	12/21/16 14:09	
Chloroethane	ug/kg	<263	263	12/21/16 14:09	
Chloroform	ug/kg	<80.9	80.9	12/21/16 14:09	
Chloromethane	ug/kg	<80.6	80.6	12/21/16 14:09	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/21/16 14:09	
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/21/16 14:09	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

METHOD BLANK: 2477527

Matrix: Solid

Associated Lab Samples: 10373615013, 10373615014, 10373615015, 10373615016, 10373615017, 10373615018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<143	143	12/21/16 14:09	
Dibromomethane	ug/kg	<64.9	64.9	12/21/16 14:09	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/21/16 14:09	
Dichlorofluoromethane	ug/kg	<456	456	12/21/16 14:09	
Diethyl ether (Ethyl ether)	ug/kg	136	68.6	12/21/16 14:09	C0
Ethylbenzene	ug/kg	<52.9	52.9	12/21/16 14:09	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/21/16 14:09	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/21/16 14:09	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/21/16 14:09	
Methylene Chloride	ug/kg	<308	308	12/21/16 14:09	
n-Butylbenzene	ug/kg	<40.3	40.3	12/21/16 14:09	
n-Propylbenzene	ug/kg	<49.6	49.6	12/21/16 14:09	
Naphthalene	ug/kg	<40.3	40.3	12/21/16 14:09	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/21/16 14:09	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/21/16 14:09	
Styrene	ug/kg	<43.3	43.3	12/21/16 14:09	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/21/16 14:09	
Tetrachloroethene	ug/kg	<63.6	63.6	12/21/16 14:09	
Tetrahydrofuran	ug/kg	<826	826	12/21/16 14:09	
Toluene	ug/kg	<52.9	52.9	12/21/16 14:09	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/21/16 14:09	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/21/16 14:09	
Trichloroethene	ug/kg	<47.6	47.6	12/21/16 14:09	
Trichlorofluoromethane	ug/kg	<167	167	12/21/16 14:09	
Vinyl chloride	ug/kg	<21.4	21.4	12/21/16 14:09	
Xylene (Total)	ug/kg	<133	133	12/21/16 14:09	
1,2-Dichloroethane-d4 (S)	%	94	75-129	12/21/16 14:09	
4-Bromofluorobenzene (S)	%	91	75-125	12/21/16 14:09	
Toluene-d8 (S)	%	100	75-125	12/21/16 14:09	

LABORATORY CONTROL SAMPLE & LCSD: 2477528

2477529

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	847	887	85	89	71-127	5	20	
1,1,1-Trichloroethane	ug/kg	1000	788	899	79	90	64-132	13	20	
1,1,2,2-Tetrachloroethane	ug/kg	1000	950	919	95	92	50-138	3	20	
1,1,2-Trichloroethane	ug/kg	1000	826	902	83	90	69-126	9	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	823	907	82	91	53-144	10	20	
1,1-Dichloroethane	ug/kg	1000	802	936	80	94	61-134	15	20	
1,1-Dichloroethene	ug/kg	1000	798	912	80	91	57-135	13	20	
1,1-Dichloropropene	ug/kg	1000	876	984	88	98	59-133	12	20	
1,2,3-Trichlorobenzene	ug/kg	1000	918	945	92	95	32-150	3	20	
1,2,3-Trichloropropane	ug/kg	1000	890	955	89	95	62-130	7	20	
1,2,4-Trichlorobenzene	ug/kg	1000	894	896	89	90	38-138	0	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

LABORATORY CONTROL SAMPLE & LCSD: 2477528

2477529

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	853	876	85	88	70-127	3	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1810	1900	72	76	40-141	5	20	
1,2-Dibromoethane (EDB)	ug/kg	1000	844	871	84	87	69-130	3	20	
1,2-Dichlorobenzene	ug/kg	1000	897	902	90	90	72-125	1	20	
1,2-Dichloroethane	ug/kg	1000	739	816	74	82	62-125	10	20	
1,2-Dichloropropane	ug/kg	1000	860	920	86	92	67-126	7	20	
1,3,5-Trimethylbenzene	ug/kg	1000	884	918	88	92	71-129	4	20	
1,3-Dichlorobenzene	ug/kg	1000	901	895	90	90	72-126	1	20	
1,3-Dichloropropane	ug/kg	1000	842	934	84	93	70-125	10	20	
1,4-Dichlorobenzene	ug/kg	1000	895	903	90	90	70-126	1	20	
2,2-Dichloropropane	ug/kg	1000	755	855	75	86	48-134	12	20	
2-Butanone (MEK)	ug/kg	5000	3900	4490	78	90	38-149	14	20	
2-Chlorotoluene	ug/kg	1000	841	857	84	86	71-129	2	20	
4-Chlorotoluene	ug/kg	1000	891	914	89	91	72-128	3	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4160	4750	83	95	52-145	13	20	
Acetone	ug/kg	5000	4550	4570	91	91	65-142	0	20	
Allyl chloride	ug/kg	1000	766	888	77	89	54-125	15	20	
Benzene	ug/kg	1000	854	926	85	93	64-125	8	20	
Bromobenzene	ug/kg	1000	905	904	90	90	70-125	0	20	
Bromochloromethane	ug/kg	1000	865	970	86	97	68-125	11	20	
Bromodichloromethane	ug/kg	1000	758	805	76	80	67-125	6	20	
Bromoform	ug/kg	1000	637	670	64	67	56-127	5	20	
Bromomethane	ug/kg	1000	880	923	88	92	34-137	5	20	
Carbon tetrachloride	ug/kg	1000	766	836	77	84	58-138	9	20	
Chlorobenzene	ug/kg	1000	846	880	85	88	72-125	4	20	
Chloroethane	ug/kg	1000	825	861	82	86	39-148	4	20	
Chloroform	ug/kg	1000	737	837	74	84	67-125	13	20	
Chloromethane	ug/kg	1000	802	861	80	86	54-125	7	20	
cis-1,2-Dichloroethene	ug/kg	1000	821	917	82	92	67-125	11	20	
cis-1,3-Dichloropropene	ug/kg	1000	816	849	82	85	62-127	4	20	
Dibromochloromethane	ug/kg	1000	718	783	72	78	67-125	9	20	
Dibromomethane	ug/kg	1000	889	896	89	90	63-129	1	20	
Dichlorodifluoromethane	ug/kg	1000	570	604	57	60	34-139	6	20	
Dichlorofluoromethane	ug/kg	1000	757	822	76	82	36-144	8	20	
Diethyl ether (Ethyl ether)	ug/kg	1000	856	1020	86	102	51-125	17	20	
Ethylbenzene	ug/kg	1000	867	910	87	91	70-129	5	20	
Hexachloro-1,3-butadiene	ug/kg	1000	1000	965	100	97	48-126	4	20	
Isopropylbenzene (Cumene)	ug/kg	1000	894	927	89	93	75-127	4	20	
Methyl-tert-butyl ether	ug/kg	1000	781	883	78	88	61-125	12	20	
Methylene Chloride	ug/kg	1000	811	907	81	91	60-126	11	20	
n-Butylbenzene	ug/kg	1000	920	920	92	92	67-125	0	20	
n-Propylbenzene	ug/kg	1000	915	906	91	91	72-133	1	20	
Naphthalene	ug/kg	1000	817	907	82	91	35-147	10	20	
p-Isopropyltoluene	ug/kg	1000	883	884	88	88	69-127	0	20	
sec-Butylbenzene	ug/kg	1000	939	927	94	93	70-127	1	20	
Styrene	ug/kg	1000	867	884	87	88	73-125	2	20	
tert-Butylbenzene	ug/kg	1000	899	900	90	90	71-130	0	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

LABORATORY CONTROL SAMPLE & LCSD: 2477528

2477529

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/kg	1000	951	1010	95	101	66-135	6	20	
Tetrahydrofuran	ug/kg	10000	8810	9010	88	90	66-145	2	20	
Toluene	ug/kg	1000	923	948	92	95	69-125	3	20	
trans-1,2-Dichloroethene	ug/kg	1000	878	956	88	96	55-135	9	20	
trans-1,3-Dichloropropene	ug/kg	1000	809	902	81	90	67-125	11	20	
Trichloroethene	ug/kg	1000	920	919	92	92	62-141	0	20	
Trichlorofluoromethane	ug/kg	1000	884	951	88	95	38-150	7	20	
Vinyl chloride	ug/kg	1000	910	1030	91	103	57-131	13	20	
Xylene (Total)	ug/kg	3000	2650	2670	88	89	73-128	1	20	
1,2-Dichloroethane-d4 (S)	%				88	98	75-129			
4-Bromofluorobenzene (S)	%				100	96	75-125			
Toluene-d8 (S)	%				98	104	75-125			

MATRIX SPIKE SAMPLE: 2477530

Parameter	Units	10373719001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1020	936	92	59-135	
1,1,1-Trichloroethane	ug/kg	ND	1020	915	90	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1020	1020	101	40-149	
1,1,2-Trichloroethane	ug/kg	ND	1020	954	94	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1020	888	87	41-150	
1,1-Dichloroethane	ug/kg	ND	1020	927	91	53-131	
1,1-Dichloroethene	ug/kg	ND	1020	908	89	41-133	
1,1-Dichloropropene	ug/kg	ND	1020	964	95	50-139	
1,2,3-Trichlorobenzene	ug/kg	ND	1020	1060	104	52-150	
1,2,3-Trichloropropane	ug/kg	ND	1020	982	96	61-137	
1,2,4-Trichlorobenzene	ug/kg	ND	1020	987	97	52-142	
1,2,4-Trimethylbenzene	ug/kg	ND	1020	931	91	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2540	2210	87	47-143	
1,2-Dibromoethane (EDB)	ug/kg	ND	1020	951	93	57-136	
1,2-Dichlorobenzene	ug/kg	ND	1020	979	96	59-136	
1,2-Dichloroethane	ug/kg	ND	1020	789	77	52-133	
1,2-Dichloropropane	ug/kg	ND	1020	978	96	62-129	
1,3,5-Trimethylbenzene	ug/kg	ND	1020	948	93	54-143	
1,3-Dichlorobenzene	ug/kg	ND	1020	953	94	60-137	
1,3-Dichloropropane	ug/kg	ND	1020	1020	100	57-138	
1,4-Dichlorobenzene	ug/kg	ND	1020	961	94	51-132	
2,2-Dichloropropane	ug/kg	ND	1020	825	81	50-134	
2-Butanone (MEK)	ug/kg	ND	5090	4720	93	46-125	
2-Chlorotoluene	ug/kg	ND	1020	912	90	60-141	
4-Chlorotoluene	ug/kg	ND	1020	950	93	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5090	5510	108	47-146	
Acetone	ug/kg	ND	5090	4790	94	45-148	
Allyl chloride	ug/kg	ND	1020	829	81	50-135	
Benzene	ug/kg	ND	1020	919	90	41-134	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

MATRIX SPIKE SAMPLE: 2477530		10373719001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromobenzene	ug/kg	ND	1020	962	94	59-134	
Bromochloromethane	ug/kg	ND	1020	966	95	56-127	
Bromodichloromethane	ug/kg	ND	1020	841	83	55-136	
Bromoform	ug/kg	ND	1020	738	72	51-139	
Bromomethane	ug/kg	ND	1020	848	83	35-148	
Carbon tetrachloride	ug/kg	ND	1020	836	82	50-140	
Chlorobenzene	ug/kg	ND	1020	949	93	59-133	
Chloroethane	ug/kg	ND	1020	796	78	30-150	
Chloroform	ug/kg	ND	1020	855	84	58-128	
Chloromethane	ug/kg	ND	1020	602	59	38-125	
cis-1,2-Dichloroethene	ug/kg	ND	1020	903	89	59-125	
cis-1,3-Dichloropropene	ug/kg	ND	1020	855	84	57-133	
Dibromochloromethane	ug/kg	ND	1020	865	85	54-141	
Dibromomethane	ug/kg	ND	1020	962	94	53-134	
Dichlorodifluoromethane	ug/kg	ND	1020	417	41	30-125	
Dichlorofluoromethane	ug/kg	ND	1020	744	73	30-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	1020	784	76	46-137	
Ethylbenzene	ug/kg	ND	1020	954	94	56-141	
Hexachloro-1,3-butadiene	ug/kg	ND	1020	1200	118	45-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1020	987	97	48-141	
Methyl-tert-butyl ether	ug/kg	ND	1020	990	97	53-133	
Methylene Chloride	ug/kg	ND	1020	874	84	42-135	
n-Butylbenzene	ug/kg	ND	1020	996	98	52-140	
n-Propylbenzene	ug/kg	ND	1020	935	92	57-142	
Naphthalene	ug/kg	ND	1020	1020	101	41-150	
p-Isopropyltoluene	ug/kg	ND	1020	947	93	54-139	
sec-Butylbenzene	ug/kg	ND	1020	1020	100	30-150	
Styrene	ug/kg	ND	1020	922	91	53-137	
tert-Butylbenzene	ug/kg	ND	1020	977	96	59-138	
Tetrachloroethene	ug/kg	ND	1020	1080	107	53-138	
Tetrahydrofuran	ug/kg	ND	10200	10100	99	50-145	
Toluene	ug/kg	ND	1020	1080	106	55-134	
trans-1,2-Dichloroethene	ug/kg	ND	1020	920	90	44-135	
trans-1,3-Dichloropropene	ug/kg	ND	1020	966	95	59-139	
Trichloroethene	ug/kg	ND	1020	1010	99	52-143	
Trichlorofluoromethane	ug/kg	ND	1020	811	80	30-150	
Vinyl chloride	ug/kg	ND	1020	691	68	36-127	
Xylene (Total)	ug/kg	ND	3050	2900	95	56-137	
1,2-Dichloroethane-d4 (S)	%				89	75-129	
4-Bromofluorobenzene (S)	%				95	75-125	
Toluene-d8 (S)	%				105	75-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

SAMPLE DUPLICATE: 2480215

Parameter	Units	10374015001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	<22.9		30	
1,1,1-Trichloroethane	ug/kg	ND	<24.1		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	<12.8		30	
1,1,2-Trichloroethane	ug/kg	ND	<12.5		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	<138		30	
1,1-Dichloroethane	ug/kg	ND	<22.4		30	
1,1-Dichloroethene	ug/kg	ND	<14.7		30	
1,1-Dichloropropene	ug/kg	ND	<17.4		30	
1,2,3-Trichlorobenzene	ug/kg	ND	<16.6		30	
1,2,3-Trichloropropane	ug/kg	ND	<59.8		30	
1,2,4-Trichlorobenzene	ug/kg	ND	<17.8		30	
1,2,4-Trimethylbenzene	ug/kg	ND	<12.7		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	<113		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	<21.7		30	
1,2-Dichlorobenzene	ug/kg	ND	<11.1		30	
1,2-Dichloroethane	ug/kg	ND	<18.2		30	
1,2-Dichloropropane	ug/kg	ND	<20.0		30	
1,3,5-Trimethylbenzene	ug/kg	ND	<44.2		30	
1,3-Dichlorobenzene	ug/kg	ND	<17.0		30	
1,3-Dichloropropane	ug/kg	ND	<68.8		30	
1,4-Dichlorobenzene	ug/kg	ND	<55.7		30	
2,2-Dichloropropane	ug/kg	ND	<61.1		30	
2-Butanone (MEK)	ug/kg	ND	<254		30	
2-Chlorotoluene	ug/kg	ND	<53.0		30	
4-Chlorotoluene	ug/kg	ND	<50.3		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	<127		30	
Acetone	ug/kg	ND	<1260		30	
Allyl chloride	ug/kg	ND	<165		30	
Benzene	ug/kg	ND	<16.6		30	
Bromobenzene	ug/kg	ND	<49.2		30	
Bromochloromethane	ug/kg	ND	<57.3		30	
Bromodichloromethane	ug/kg	ND	<53.8		30	
Bromoform	ug/kg	ND	<166		30	
Bromomethane	ug/kg	ND	<195		30	
Carbon tetrachloride	ug/kg	ND	<60.3		30	
Chlorobenzene	ug/kg	ND	<33.4		30	
Chloroethane	ug/kg	ND	<304		30	
Chloroform	ug/kg	ND	<93.4		30	
Chloromethane	ug/kg	ND	<93.0		30	
cis-1,2-Dichloroethene	ug/kg	ND	<71.5		30	
cis-1,3-Dichloropropene	ug/kg	ND	<87.6		30	
Dibromochloromethane	ug/kg	ND	<165		30	
Dibromomethane	ug/kg	ND	<74.9		30	
Dichlorodifluoromethane	ug/kg	ND	<58.8		30	
Dichlorofluoromethane	ug/kg	ND	<527		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	<79.2		30	
Ethylbenzene	ug/kg	ND	<61.1		30	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

SAMPLE DUPLICATE: 2480215

Parameter	Units	10374015001 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	<181		30	
Isopropylbenzene (Cumene)	ug/kg	ND	<68.4		30	
Methyl-tert-butyl ether	ug/kg	ND	<36.0		30	
Methylene Chloride	ug/kg	ND	<356		30	
n-Butylbenzene	ug/kg	ND	<46.5		30	
n-Propylbenzene	ug/kg	ND	<57.3		30	
Naphthalene	ug/kg	ND	<46.5		30	
p-Isopropyltoluene	ug/kg	ND	<31.9		30	
sec-Butylbenzene	ug/kg	ND	<45.3		30	
Styrene	ug/kg	ND	<50.0		30	
tert-Butylbenzene	ug/kg	ND	<60.7		30	
Tetrachloroethene	ug/kg	ND	<73.4		30	
Tetrahydrofuran	ug/kg	ND	<953		30	
Toluene	ug/kg	ND	<61.1		30	
trans-1,2-Dichloroethene	ug/kg	ND	<92.6		30	
trans-1,3-Dichloropropene	ug/kg	ND	<65.3		30	
Trichloroethene	ug/kg	ND	<55.0		30	
Trichlorofluoromethane	ug/kg	ND	<193		30	
Vinyl chloride	ug/kg	ND	<24.7		30	
Xylene (Total)	ug/kg	ND	<154		30	
1,2-Dichloroethane-d4 (S)	%.	96	90	9		
4-Bromofluorobenzene (S)	%.	98	99	1		
Toluene-d8 (S)	%.	101	100	3		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

QC Batch: 452557 Analysis Method: EPA 8270D by SIM  
 QC Batch Method: EPA 3550 Analysis Description: 8270D Solid PAH by SIM MSSV  
 Associated Lab Samples: 10373615001, 10373615002, 10373615003, 10373615004, 10373615005, 10373615006, 10373615007,  
 10373615008, 10373615009, 10373615010, 10373615011, 10373615012, 10373615013, 10373615014,  
 10373615015, 10373615016, 10373615017, 10373615018

METHOD BLANK: 2477270 Matrix: Solid  
 Associated Lab Samples: 10373615001, 10373615002, 10373615003, 10373615004, 10373615005, 10373615006, 10373615007,  
 10373615008, 10373615009, 10373615010, 10373615011, 10373615012, 10373615013, 10373615014,  
 10373615015, 10373615016, 10373615017, 10373615018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	<1.3	1.3	12/28/16 11:54	
Acenaphthylene	ug/kg	<0.91	0.91	12/28/16 11:54	
Anthracene	ug/kg	<1.5	1.5	12/28/16 11:54	
Benzo(a)anthracene	ug/kg	<1.6	1.6	12/28/16 11:54	
Benzo(a)pyrene	ug/kg	<1.2	1.2	12/28/16 11:54	
Benzo(b)fluoranthene	ug/kg	<1.9	1.9	12/28/16 11:54	
Benzo(g,h,i)perylene	ug/kg	<1.5	1.5	12/28/16 11:54	
Benzo(k)fluoranthene	ug/kg	<1.6	1.6	12/28/16 11:54	
Chrysene	ug/kg	<1.8	1.8	12/28/16 11:54	
Dibenz(a,h)anthracene	ug/kg	<1.1	1.1	12/28/16 11:54	
Fluoranthene	ug/kg	<2.6	2.6	12/28/16 11:54	
Fluorene	ug/kg	<1.3	1.3	12/28/16 11:54	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.5	2.5	12/28/16 11:54	
Naphthalene	ug/kg	<1.2	1.2	12/28/16 11:54	
Phenanthrene	ug/kg	<1.3	1.3	12/28/16 11:54	
Pyrene	ug/kg	<2.8	2.8	12/28/16 11:54	
2-Fluorobiphenyl (S)	%	93	41-125	12/28/16 11:54	
p-Terphenyl-d14 (S)	%	85	39-125	12/28/16 11:54	

Parameter	Units	2477271		2477292		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Acenaphthene	ug/kg	33.3	28.8	27.4	86	82	53-125	5	20
Acenaphthylene	ug/kg	33.3	28.8	28.4	86	85	50-125	1	20
Anthracene	ug/kg	33.3	33.4	33.4	100	100	60-125	0	20
Benzo(a)anthracene	ug/kg	33.3	33.3	32.5	100	97	63-125	3	20
Benzo(a)pyrene	ug/kg	33.3	35.6	35.3	107	106	65-125	1	20
Benzo(b)fluoranthene	ug/kg	33.3	32.3	33.1	97	99	61-125	2	20
Benzo(g,h,i)perylene	ug/kg	33.3	33.4	33.1	100	99	62-125	1	20
Benzo(k)fluoranthene	ug/kg	33.3	34.4	32.4	103	97	65-125	6	20
Chrysene	ug/kg	33.3	32.3	31.4	97	94	62-125	3	20
Dibenz(a,h)anthracene	ug/kg	33.3	33.6	32.7	101	98	61-125	3	20
Fluoranthene	ug/kg	33.3	35.0	33.8	105	101	64-125	4	20
Fluorene	ug/kg	33.3	30.6	29.5	92	88	57-125	4	20
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	34.3	33.1	103	99	61-125	4	20
Naphthalene	ug/kg	33.3	33.2	30.3	100	91	52-125	9	20

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

LABORATORY CONTROL SAMPLE & LCSD: 2477271		2477292									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Phenanthrene	ug/kg	33.3	30.8	30.2	92	91	58-125	2	20		
Pyrene	ug/kg	33.3	33.2	32.8	100	98	65-125	1	20		
2-Fluorobiphenyl (S)	%				86	81	41-125				
p-Terphenyl-d14 (S)	%				81	78	39-125				

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

### WORKORDER QUALIFIERS

WO: 10373615

[1] Samples requiring thermal preservation were received outside of recommended temperature limits of 0-6 degrees Celsius.

### BATCH QUALIFIERS

Batch: 453567

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

C0 Result confirmed by second analysis.

D4 Sample was diluted due to the presence of high levels of target analytes.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

P8 Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

R1 RPD value was outside control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10373615001	SB007_85-90	ASTM D2974	453748		
10373615002	SB008_2-4	ASTM D2974	453748		
10373615003	SB008_2-4D	ASTM D2974	453748		
10373615004	SB008_6.5-9	ASTM D2974	453748		
10373615005	SB008_15-16	ASTM D2974	453748		
10373615006	SB008_18-20	ASTM D2974	453748		
10373615007	SB009_5-10	ASTM D2974	453748		
10373615008	SB009_13.5-15.5	ASTM D2974	453748		
10373615009	SB009_28-29	ASTM D2974	453748		
10373615010	SB010_5-10	ASTM D2974	453748		
10373615011	SB010_25-30	ASTM D2974	453748		
10373615012	SB010_33-35	ASTM D2974	453748		
10373615013	SB011_8-10	ASTM D2974	453750		
10373615014	SB011_10-18	ASTM D2974	453750		
10373615015	SB011_10-18D	ASTM D2974	453750		
10373615016	SB011_18-22	ASTM D2974	453750		
10373615017	SB011_29-30	ASTM D2974	453750		
10373615018	SB011_32-34	ASTM D2974	453750		
10373615001	SB007_85-90	EPA 3550	452557	EPA 8270D by SIM	453567
10373615002	SB008_2-4	EPA 3550	452557	EPA 8270D by SIM	453567
10373615003	SB008_2-4D	EPA 3550	452557	EPA 8270D by SIM	453567
10373615004	SB008_6.5-9	EPA 3550	452557	EPA 8270D by SIM	453567
10373615005	SB008_15-16	EPA 3550	452557	EPA 8270D by SIM	453567
10373615006	SB008_18-20	EPA 3550	452557	EPA 8270D by SIM	453567
10373615007	SB009_5-10	EPA 3550	452557	EPA 8270D by SIM	453567
10373615008	SB009_13.5-15.5	EPA 3550	452557	EPA 8270D by SIM	453567
10373615009	SB009_28-29	EPA 3550	452557	EPA 8270D by SIM	453567
10373615010	SB010_5-10	EPA 3550	452557	EPA 8270D by SIM	453567
10373615011	SB010_25-30	EPA 3550	452557	EPA 8270D by SIM	453567
10373615012	SB010_33-35	EPA 3550	452557	EPA 8270D by SIM	453567
10373615013	SB011_8-10	EPA 3550	452557	EPA 8270D by SIM	453567
10373615014	SB011_10-18	EPA 3550	452557	EPA 8270D by SIM	453567
10373615015	SB011_10-18D	EPA 3550	452557	EPA 8270D by SIM	453567
10373615016	SB011_18-22	EPA 3550	452557	EPA 8270D by SIM	453567
10373615017	SB011_29-30	EPA 3550	452557	EPA 8270D by SIM	453567
10373615018	SB011_32-34	EPA 3550	452557	EPA 8270D by SIM	453567
10373615001	SB007_85-90	EPA 5035/5030B	452350	EPA 8260B	452568
10373615002	SB008_2-4	EPA 5035/5030B	452350	EPA 8260B	452568
10373615003	SB008_2-4D	EPA 5035/5030B	452350	EPA 8260B	452568
10373615004	SB008_6.5-9	EPA 5035/5030B	452350	EPA 8260B	452568
10373615005	SB008_15-16	EPA 5035/5030B	452534	EPA 8260B	452793
10373615006	SB008_18-20	EPA 5035/5030B	452534	EPA 8260B	452793
10373615007	SB009_5-10	EPA 5035/5030B	452534	EPA 8260B	452793
10373615008	SB009_13.5-15.5	EPA 5035/5030B	452534	EPA 8260B	452793
10373615009	SB009_28-29	EPA 5035/5030B	452534	EPA 8260B	452793
10373615010	SB010_5-10	EPA 5035/5030B	452534	EPA 8260B	452793
10373615011	SB010_25-30	EPA 5035/5030B	452534	EPA 8260B	452793

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2118-0002 Former Superior\_Rev

Pace Project No.: 10373615

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10373615012	SB010_33-35	EPA 5035/5030B	452534	EPA 8260B	452793
10373615013	SB011_8-10	EPA 5035/5030B	452612	EPA 8260B	453007
10373615014	SB011_10-18	EPA 5035/5030B	452612	EPA 8260B	453007
10373615015	SB011_10-18D	EPA 5035/5030B	452612	EPA 8260B	453007
10373615016	SB011_18-22	EPA 5035/5030B	452612	EPA 8260B	453007
10373615017	SB011_29-30	EPA 5035/5030B	452612	EPA 8260B	453007
10373615018	SB011_32-34	EPA 5035/5030B	452612	EPA 8260B	453007
10373615019	Trip Blank	EPA 5035/5030B	452569	EPA 8260B	452792

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



**Section A**  
 Required Client Information:  
 Company: Summit Environmental Solutions  
 Address: 1217 Bandana Blvd N  
 Email To: St. Paul, MN 55108  
 Phone: 651-762-4236 Fax:  
 Requested Due Date/TAT: \_\_\_\_\_

**Section B**  
 Required Project Information:  
 Report To: Bill Gregg  
 Copy To: \_\_\_\_\_  
 Purchase Order No.: 2118-0002  
 Project Name: former Superior MGP  
 Project Number: 2118-0002

**Section C**  
 Invoice Information:  
 Attention: Same  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Pace Quote Reference: \_\_\_\_\_  
 Pace Project Manager: Kabor Xiong  
 Pace Profile #: 25777

REGULATORY AGENCY  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER WDNR

Site Location STATE: WI

Page: 1 of 2  
 2146932  
 10373615

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see veld codes to left)	# OF CONTAINERS	Preservatives	Analysis Test ↑	Requested Analysis Filtered (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB							
1	S8007-85-90	DW	12/15/16	830	G	SL G	Unpreserved	RAH VOC Moisture		028	
2	S8008-2-4	WT		1550						008	
3	S8008-2-4-D	WW		1550						003	
4	S8008-6-5-9	F		1600						004	
5	S8008-15-16	SL		1610						005	
6	S8008-18-20	OL		1615						006	
7	S8009-5-10	WP		1620						007	
8	S8009-13.5-15.5	AR		1630						008	
9	S8009-28-29	TS		1640						009	
10	S8010-5-10	OT		800						010	
11	S8010-25-30			830						011	
12	S8010-33-35			835						012	

ADDITIONAL COMMENTS: \_\_\_\_\_

RELINQUISHED BY / AFFILIATION: Ryan Anderson / Summit DATE: 12/16/16 TIME: 1615

ACCEPTED BY / AFFILIATION: W. K. Pace DATE: 12-16-16 TIME: 1615

SAMPLE CONDITIONS: Received on Ice (Y/N) Y Custody Sealed Cooler (Y/N) N Samples Intact (Y/N) Y

Temp in °C: 23

SAMPLER NAME AND SIGNATURE: Ryan Anderson  
 PRINT Name of SAMPLER: Ryan Anderson  
 SIGNATURE of SAMPLER: Ryan Anderson DATE Signed (MM/DD/YY): 12/16/16

ORIGINAL

# CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 2  
 2146931

**Section A**  
 Required Client Information:  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Email To: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Requested Due Date/TAT: \_\_\_\_\_

**Section B**  
 Required Project Information:  
 Report To: \_\_\_\_\_  
 Copy To: \_\_\_\_\_  
 Purchase Order No.: \_\_\_\_\_  
 Project Name: \_\_\_\_\_  
 Project Number: \_\_\_\_\_

**Section C**  
 Invoice Information:  
 Attention: \_\_\_\_\_  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Pace Quote Reference: \_\_\_\_\_  
 Pace Project Manager: \_\_\_\_\_  
 Pace Profile #: 2577

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_

Site Location  
 STATE: \_\_\_\_\_

ITEM #	Section D Required Client Information	Matrix Codes MATRIX I CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Methanol Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB							
1	SBO11-8-10			12/16/16	910	1					013
2	SBO11-10-18				915	1					014
3	SBO11-10-18D				915	1					015
4	SBO11-18-22				925	1					014
5	SBO11-29-30				940	1					017
6	SBO11-32-34				945	1					019
7	Trip Blank				N/A	1					014
8											
9											
10											
11											
12											

**ADDITIONAL COMMENTS**  
 Ryan Anderson/Summit 12/16/16 1615  
 12-16-16 1615 2-3  
 PAH VOC Moisture  
 XX X  
 Y N  
 Y N Y

**RELINQUISHED BY / AFFILIATION**  
 Ryan Anderson/Summit 12/16/16 1615

**ACCEPTED BY / AFFILIATION**  
 Ryan Anderson 12/16/16

**DATE**  
 12/16/16

**TIME**  
 1615

**TEMP IN °C**  
 2-3

**Received on**  
 Y

**Custody Sealed Cooler**  
 N

**Samples Intact**  
 Y

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Ryan Anderson  
 SIGNATURE OF SAMPLER: Ryan Anderson  
 DATE Signed (MM/DD/YY): 12/16/16


ORIGINAL



**Sample Condition Upon Receipt**      **Client Name:** Summit Environmental Solutions      **Project #:** **WO# : 10373615**

**Courier:**       Fed Ex       UPS       USPS       Client  
 Commercial       Pace       Speedee       Other: \_\_\_\_\_

**Tracking Number:** \_\_\_\_\_



**Custody Seal on Cooler/Box Present?**  Yes  No      **Seals Intact?**  Yes  No      **Optional:** Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

**Packing Material:**  Bubble Wrap       Bubble Bags       None       Other: \_\_\_\_\_      **Temp Blank?**  Yes       No

**Thermometer**  151401163       151401164      **Used:** \_\_\_\_\_  
**Type of Ice:**  Wet       Blue       None       Samples on ice, cooling process has begun

**Cooler Temp Read (°C):** 23      **Cooler Temp Corrected (°C):** 23      **Biological Tissue Frozen?**  Yes       No       N/A  
Temp should be above freezing to 6°C      **Correction Factor:** True      **Date and Initials of Person Examining Contents:** 12/16/16 HA

**USDA Regulated Soil** (  N/A, water sample)  
Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No      Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

**If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.**

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? <input type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes Date/Time/ID/Analysis Matrix: <u>SL</u>	
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH      Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH >9 Sulfide, NaOH >12 Cyanide) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin. <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: _____      Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>101716-3</u>	<u>BA 12/16/16</u>

**CLIENT NOTIFICATION/RESOLUTION**      **Field Data Required?**  Yes  No

**Person Contacted:** \_\_\_\_\_      **Date/Time:** \_\_\_\_\_

**Comments/Resolution:** Notified client of sample temperature. the lab will proceed unless notified otherwise from client.

**Project Manager Review:** \_\_\_\_\_      **Date:** \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

## **Appendix F**

### **Vapor Analytical Reports**

February 01, 2017

Bill Gregg  
Summit Envirosolutions  
1217 Bandana Blvd  
Saint Paul, MN 55108

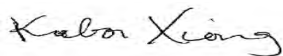
RE: Project: 2118-0002 Superior MGP  
Pace Project No.: 10377147

Dear Bill Gregg:

Enclosed are the analytical results for sample(s) received by the laboratory on January 24, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kabor Xiong  
kabor.xiong@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

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### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

Alaska Certification UST-107

525 N 8th Street, Salina, KS 67401

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN\_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10377147001	VP1	Air	01/23/17 11:25	01/24/17 17:00
10377147002	VP2	Air	01/23/17 12:05	01/24/17 17:00
10377147003	VP3	Air	01/23/17 12:15	01/24/17 17:00
10377147004	VP4	Air	01/23/17 12:50	01/24/17 17:00
10377147005	VP5	Air	01/23/17 13:10	01/24/17 17:00
10377147006	VP6	Air	01/23/17 13:30	01/24/17 17:00
10377147007	VP7	Air	01/23/17 14:30	01/24/17 17:00
10377147008	VP8	Air	01/23/17 14:45	01/24/17 17:00
10377147009	VP9	Air	01/23/17 15:00	01/24/17 17:00

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10377147001	VP1	TO-15	MJL	61	PASI-M
10377147002	VP2	TO-15	MJL	61	PASI-M
10377147003	VP3	TO-15	MJL	61	PASI-M
10377147004	VP4	TO-15	MJL	61	PASI-M
10377147005	VP5	TO-15	MJL	61	PASI-M
10377147006	VP6	TO-15	MJL	61	PASI-M
10377147007	VP7	TO-15	MJL	61	PASI-M
10377147008	VP8	TO-15	MJL	61	PASI-M
10377147009	VP9	TO-15	MJL	61	PASI-M

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

**Sample: VP1**      **Lab ID: 10377147001**      Collected: 01/23/17 11:25      Received: 01/24/17 17:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Acetone	6.3	ug/m3	3.7	1.3	1.55		01/28/17 15:41	67-64-1	
Benzene	ND	ug/m3	0.50	0.19	1.55		01/28/17 15:41	71-43-2	
Benzyl chloride	ND	ug/m3	1.6	0.26	1.55		01/28/17 15:41	100-44-7	
Bromodichloromethane	ND	ug/m3	2.1	0.30	1.55		01/28/17 15:41	75-27-4	
Bromoform	ND	ug/m3	3.3	1.4	1.55		01/28/17 15:41	75-25-2	
Bromomethane	ND	ug/m3	1.2	0.48	1.55		01/28/17 15:41	74-83-9	
1,3-Butadiene	ND	ug/m3	0.70	0.27	1.55		01/28/17 15:41	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.6	0.35	1.55		01/28/17 15:41	78-93-3	
Carbon disulfide	ND	ug/m3	0.98	0.16	1.55		01/28/17 15:41	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.99	0.30	1.55		01/28/17 15:41	56-23-5	
Chlorobenzene	ND	ug/m3	1.5	0.21	1.55		01/28/17 15:41	108-90-7	
Chloroethane	ND	ug/m3	0.84	0.30	1.55		01/28/17 15:41	75-00-3	
Chloroform	32.2	ug/m3	0.77	0.29	1.55		01/28/17 15:41	67-66-3	
Chloromethane	ND	ug/m3	0.65	0.17	1.55		01/28/17 15:41	74-87-3	
Cyclohexane	ND	ug/m3	1.1	0.49	1.55		01/28/17 15:41	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	1.3	1.55		01/28/17 15:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.4	1.2	1.55		01/28/17 15:41	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	0.79	1.55		01/28/17 15:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	0.82	1.55		01/28/17 15:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.9	0.77	1.55		01/28/17 15:41	106-46-7	
Dichlorodifluoromethane	22.9	ug/m3	1.6	0.74	1.55		01/28/17 15:41	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	0.24	1.55		01/28/17 15:41	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.64	0.32	1.55		01/28/17 15:41	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	0.37	1.55		01/28/17 15:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	0.38	1.55		01/28/17 15:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	0.60	1.55		01/28/17 15:41	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	0.42	1.55		01/28/17 15:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	0.57	1.55		01/28/17 15:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	0.40	1.55		01/28/17 15:41	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	0.48	1.55		01/28/17 15:41	76-14-2	
Ethanol	7.2	ug/m3	1.5	0.41	1.55		01/28/17 15:41	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.54	1.55		01/28/17 15:41	141-78-6	
Ethylbenzene	1.8	ug/m3	1.4	0.66	1.55		01/28/17 15:41	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.6	0.29	1.55		01/28/17 15:41	622-96-8	
n-Heptane	ND	ug/m3	1.3	0.43	1.55		01/28/17 15:41	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	8.4	1.0	1.55		01/28/17 15:41	87-68-3	
n-Hexane	ND	ug/m3	1.1	0.55	1.55		01/28/17 15:41	110-54-3	
2-Hexanone	ND	ug/m3	6.5	0.64	1.55		01/28/17 15:41	591-78-6	
Methylene Chloride	ND	ug/m3	5.5	0.84	1.55		01/28/17 15:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.5	0.34	1.55		01/28/17 15:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.7	0.47	1.55		01/28/17 15:41	1634-04-4	
Naphthalene	ND	ug/m3	4.1	0.47	1.55		01/28/17 15:41	91-20-3	
2-Propanol	14.7	ug/m3	3.9	0.37	1.55		01/28/17 15:41	67-63-0	
Propylene	ND	ug/m3	0.54	0.21	1.55		01/28/17 15:41	115-07-1	
Styrene	ND	ug/m3	1.3	0.30	1.55		01/28/17 15:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.1	0.51	1.55		01/28/17 15:41	79-34-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

**Sample: VP1**      **Lab ID: 10377147001**      Collected: 01/23/17 11:25      Received: 01/24/17 17:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrachloroethene	<b>3.0</b>	ug/m3	1.1	0.43	1.55		01/28/17 15:41	127-18-4	
Tetrahydrofuran	<b>2.4</b>	ug/m3	0.93	0.18	1.55		01/28/17 15:41	109-99-9	
Toluene	<b>7.0</b>	ug/m3	1.2	0.24	1.55		01/28/17 15:41	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.8	1.4	1.55		01/28/17 15:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.7	0.38	1.55		01/28/17 15:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.85	0.38	1.55		01/28/17 15:41	79-00-5	
Trichloroethene	ND	ug/m3	0.85	0.43	1.55		01/28/17 15:41	79-01-6	
Trichlorofluoromethane	<b>1.8</b>	ug/m3	1.8	0.20	1.55		01/28/17 15:41	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	0.47	1.55		01/28/17 15:41	76-13-1	
1,2,4-Trimethylbenzene	<b>3.8</b>	ug/m3	1.5	0.19	1.55		01/28/17 15:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	0.28	1.55		01/28/17 15:41	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	0.51	1.55		01/28/17 15:41	108-05-4	
Vinyl chloride	ND	ug/m3	0.40	0.30	1.55		01/28/17 15:41	75-01-4	
m&p-Xylene	<b>7.2</b>	ug/m3	2.7	1.2	1.55		01/28/17 15:41	179601-23-1	
o-Xylene	<b>1.4</b>	ug/m3	1.4	0.54	1.55		01/28/17 15:41	95-47-6	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

**Sample: VP2**      **Lab ID: 10377147002**      Collected: 01/23/17 12:05      Received: 01/24/17 17:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Acetone	ND	ug/m3	3.4	1.2	1.39		01/28/17 16:35	67-64-1	
Benzene	ND	ug/m3	0.45	0.17	1.39		01/28/17 16:35	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.23	1.39		01/28/17 16:35	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.27	1.39		01/28/17 16:35	75-27-4	
Bromoform	ND	ug/m3	2.9	1.3	1.39		01/28/17 16:35	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.43	1.39		01/28/17 16:35	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.24	1.39		01/28/17 16:35	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.2	0.32	1.39		01/28/17 16:35	78-93-3	
Carbon disulfide	ND	ug/m3	0.88	0.14	1.39		01/28/17 16:35	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.89	0.27	1.39		01/28/17 16:35	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.19	1.39		01/28/17 16:35	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.27	1.39		01/28/17 16:35	75-00-3	
Chloroform	<b>130</b>	ug/m3	0.69	0.26	1.39		01/28/17 16:35	67-66-3	
Chloromethane	ND	ug/m3	0.58	0.15	1.39		01/28/17 16:35	74-87-3	
Cyclohexane	ND	ug/m3	0.97	0.44	1.39		01/28/17 16:35	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.39		01/28/17 16:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		01/28/17 16:35	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.71	1.39		01/28/17 16:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	0.74	1.39		01/28/17 16:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	0.69	1.39		01/28/17 16:35	106-46-7	
Dichlorodifluoromethane	<b>26.5</b>	ug/m3	1.4	0.67	1.39		01/28/17 16:35	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.39		01/28/17 16:35	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.28	1.39		01/28/17 16:35	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		01/28/17 16:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.34	1.39		01/28/17 16:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.53	1.39		01/28/17 16:35	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.38	1.39		01/28/17 16:35	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.51	1.39		01/28/17 16:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.36	1.39		01/28/17 16:35	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.43	1.39		01/28/17 16:35	76-14-2	
Ethanol	<b>2.6</b>	ug/m3	1.3	0.37	1.39		01/28/17 16:35	64-17-5	
Ethyl acetate	ND	ug/m3	1.0	0.48	1.39		01/28/17 16:35	141-78-6	
Ethylbenzene	ND	ug/m3	1.2	0.59	1.39		01/28/17 16:35	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.4	0.26	1.39		01/28/17 16:35	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.39	1.39		01/28/17 16:35	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	7.5	0.90	1.39		01/28/17 16:35	87-68-3	
n-Hexane	ND	ug/m3	1.0	0.50	1.39		01/28/17 16:35	110-54-3	
2-Hexanone	ND	ug/m3	5.8	0.57	1.39		01/28/17 16:35	591-78-6	
Methylene Chloride	ND	ug/m3	4.9	0.75	1.39		01/28/17 16:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.8	0.30	1.39		01/28/17 16:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.1	0.42	1.39		01/28/17 16:35	1634-04-4	
Naphthalene	ND	ug/m3	3.7	0.42	1.39		01/28/17 16:35	91-20-3	
2-Propanol	<b>7.0</b>	ug/m3	3.5	0.33	1.39		01/28/17 16:35	67-63-0	
Propylene	<b>0.66</b>	ug/m3	0.49	0.19	1.39		01/28/17 16:35	115-07-1	
Styrene	ND	ug/m3	1.2	0.27	1.39		01/28/17 16:35	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.46	1.39		01/28/17 16:35	79-34-5	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

**Sample: VP2**      **Lab ID: 10377147002**      Collected: 01/23/17 12:05      Received: 01/24/17 17:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrachloroethene	<b>13.0</b>	ug/m3	0.96	0.39	1.39		01/28/17 16:35	127-18-4	
Tetrahydrofuran	<b>1.3</b>	ug/m3	0.83	0.17	1.39		01/28/17 16:35	109-99-9	
Toluene	<b>2.8</b>	ug/m3	1.1	0.21	1.39		01/28/17 16:35	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.2	1.3	1.39		01/28/17 16:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	0.34	1.39		01/28/17 16:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.76	0.34	1.39		01/28/17 16:35	79-00-5	
Trichloroethene	ND	ug/m3	0.76	0.38	1.39		01/28/17 16:35	79-01-6	
Trichlorofluoromethane	<b>3.1</b>	ug/m3	1.6	0.18	1.39		01/28/17 16:35	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.42	1.39		01/28/17 16:35	76-13-1	
1,2,4-Trimethylbenzene	<b>1.9</b>	ug/m3	1.4	0.17	1.39		01/28/17 16:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	0.25	1.39		01/28/17 16:35	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.46	1.39		01/28/17 16:35	108-05-4	
Vinyl chloride	ND	ug/m3	0.36	0.27	1.39		01/28/17 16:35	75-01-4	
m&p-Xylene	<b>3.9</b>	ug/m3	2.5	1.1	1.39		01/28/17 16:35	179601-23-1	
o-Xylene	ND	ug/m3	1.2	0.49	1.39		01/28/17 16:35	95-47-6	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

**Sample: VP3**      **Lab ID: 10377147003**      Collected: 01/23/17 12:15      Received: 01/24/17 17:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Acetone	5.4	ug/m3	3.4	1.2	1.39		01/28/17 17:03	67-64-1	
Benzene	ND	ug/m3	0.45	0.17	1.39		01/28/17 17:03	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.23	1.39		01/28/17 17:03	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.27	1.39		01/28/17 17:03	75-27-4	
Bromoform	ND	ug/m3	2.9	1.3	1.39		01/28/17 17:03	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.43	1.39		01/28/17 17:03	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.24	1.39		01/28/17 17:03	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.2	0.32	1.39		01/28/17 17:03	78-93-3	
Carbon disulfide	ND	ug/m3	0.88	0.14	1.39		01/28/17 17:03	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.89	0.27	1.39		01/28/17 17:03	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.19	1.39		01/28/17 17:03	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.27	1.39		01/28/17 17:03	75-00-3	
Chloroform	ND	ug/m3	0.69	0.26	1.39		01/28/17 17:03	67-66-3	
Chloromethane	ND	ug/m3	0.58	0.15	1.39		01/28/17 17:03	74-87-3	
Cyclohexane	ND	ug/m3	0.97	0.44	1.39		01/28/17 17:03	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.39		01/28/17 17:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		01/28/17 17:03	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.71	1.39		01/28/17 17:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	0.74	1.39		01/28/17 17:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	0.69	1.39		01/28/17 17:03	106-46-7	
Dichlorodifluoromethane	15.6	ug/m3	1.4	0.67	1.39		01/28/17 17:03	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.39		01/28/17 17:03	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.28	1.39		01/28/17 17:03	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		01/28/17 17:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.34	1.39		01/28/17 17:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.53	1.39		01/28/17 17:03	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.38	1.39		01/28/17 17:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.51	1.39		01/28/17 17:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.36	1.39		01/28/17 17:03	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.43	1.39		01/28/17 17:03	76-14-2	
Ethanol	7.4	ug/m3	1.3	0.37	1.39		01/28/17 17:03	64-17-5	
Ethyl acetate	ND	ug/m3	1.0	0.48	1.39		01/28/17 17:03	141-78-6	
Ethylbenzene	1.6	ug/m3	1.2	0.59	1.39		01/28/17 17:03	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.4	0.26	1.39		01/28/17 17:03	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.39	1.39		01/28/17 17:03	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	7.5	0.90	1.39		01/28/17 17:03	87-68-3	
n-Hexane	ND	ug/m3	1.0	0.50	1.39		01/28/17 17:03	110-54-3	
2-Hexanone	ND	ug/m3	5.8	0.57	1.39		01/28/17 17:03	591-78-6	
Methylene Chloride	ND	ug/m3	4.9	0.75	1.39		01/28/17 17:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.8	0.30	1.39		01/28/17 17:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.1	0.42	1.39		01/28/17 17:03	1634-04-4	
Naphthalene	ND	ug/m3	3.7	0.42	1.39		01/28/17 17:03	91-20-3	
2-Propanol	16.3	ug/m3	3.5	0.33	1.39		01/28/17 17:03	67-63-0	
Propylene	ND	ug/m3	0.49	0.19	1.39		01/28/17 17:03	115-07-1	
Styrene	ND	ug/m3	1.2	0.27	1.39		01/28/17 17:03	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.46	1.39		01/28/17 17:03	79-34-5	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

**Sample: VP3**      **Lab ID: 10377147003**      Collected: 01/23/17 12:15      Received: 01/24/17 17:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrachloroethene	<b>7.4</b>	ug/m3	0.96	0.39	1.39		01/28/17 17:03	127-18-4	
Tetrahydrofuran	<b>2.2</b>	ug/m3	0.83	0.17	1.39		01/28/17 17:03	109-99-9	
Toluene	<b>5.9</b>	ug/m3	1.1	0.21	1.39		01/28/17 17:03	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.2	1.3	1.39		01/28/17 17:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	0.34	1.39		01/28/17 17:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.76	0.34	1.39		01/28/17 17:03	79-00-5	
Trichloroethene	ND	ug/m3	0.76	0.38	1.39		01/28/17 17:03	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	0.18	1.39		01/28/17 17:03	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.42	1.39		01/28/17 17:03	76-13-1	
1,2,4-Trimethylbenzene	<b>3.1</b>	ug/m3	1.4	0.17	1.39		01/28/17 17:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	0.25	1.39		01/28/17 17:03	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.46	1.39		01/28/17 17:03	108-05-4	
Vinyl chloride	ND	ug/m3	0.36	0.27	1.39		01/28/17 17:03	75-01-4	
m&p-Xylene	<b>6.3</b>	ug/m3	2.5	1.1	1.39		01/28/17 17:03	179601-23-1	
o-Xylene	<b>1.2</b>	ug/m3	1.2	0.49	1.39		01/28/17 17:03	95-47-6	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

**Sample: VP4**      **Lab ID: 10377147004**      Collected: 01/23/17 12:50      Received: 01/24/17 17:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Acetone	<b>10.2</b>	ug/m3	3.5	1.2	1.44		01/28/17 17:30	67-64-1	
Benzene	ND	ug/m3	0.47	0.18	1.44		01/28/17 17:30	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.24	1.44		01/28/17 17:30	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.28	1.44		01/28/17 17:30	75-27-4	
Bromoform	ND	ug/m3	3.0	1.3	1.44		01/28/17 17:30	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.45	1.44		01/28/17 17:30	74-83-9	
1,3-Butadiene	ND	ug/m3	0.65	0.25	1.44		01/28/17 17:30	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.3	0.33	1.44		01/28/17 17:30	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	0.15	1.44		01/28/17 17:30	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.92	0.28	1.44		01/28/17 17:30	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.19	1.44		01/28/17 17:30	108-90-7	
Chloroethane	ND	ug/m3	0.78	0.28	1.44		01/28/17 17:30	75-00-3	
Chloroform	ND	ug/m3	0.71	0.27	1.44		01/28/17 17:30	67-66-3	
Chloromethane	ND	ug/m3	0.60	0.16	1.44		01/28/17 17:30	74-87-3	
Cyclohexane	ND	ug/m3	1.0	0.46	1.44		01/28/17 17:30	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.2	1.44		01/28/17 17:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.44		01/28/17 17:30	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.74	1.44		01/28/17 17:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	0.76	1.44		01/28/17 17:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	0.72	1.44		01/28/17 17:30	106-46-7	
Dichlorodifluoromethane	<b>2.5</b>	ug/m3	1.5	0.69	1.44		01/28/17 17:30	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.23	1.44		01/28/17 17:30	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	0.30	1.44		01/28/17 17:30	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.34	1.44		01/28/17 17:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.35	1.44		01/28/17 17:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.55	1.44		01/28/17 17:30	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.39	1.44		01/28/17 17:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.53	1.44		01/28/17 17:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.37	1.44		01/28/17 17:30	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.45	1.44		01/28/17 17:30	76-14-2	
Ethanol	<b>13.9</b>	ug/m3	1.4	0.38	1.44		01/28/17 17:30	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.50	1.44		01/28/17 17:30	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	0.61	1.44		01/28/17 17:30	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.4	0.27	1.44		01/28/17 17:30	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.40	1.44		01/28/17 17:30	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	7.8	0.94	1.44		01/28/17 17:30	87-68-3	
n-Hexane	ND	ug/m3	1.0	0.51	1.44		01/28/17 17:30	110-54-3	
2-Hexanone	ND	ug/m3	6.0	0.59	1.44		01/28/17 17:30	591-78-6	
Methylene Chloride	ND	ug/m3	5.1	0.78	1.44		01/28/17 17:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.0	0.31	1.44		01/28/17 17:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.3	0.44	1.44		01/28/17 17:30	1634-04-4	
Naphthalene	ND	ug/m3	3.8	0.44	1.44		01/28/17 17:30	91-20-3	
2-Propanol	<b>5.8</b>	ug/m3	3.6	0.35	1.44		01/28/17 17:30	67-63-0	
Propylene	ND	ug/m3	0.50	0.19	1.44		01/28/17 17:30	115-07-1	
Styrene	ND	ug/m3	1.3	0.28	1.44		01/28/17 17:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.47	1.44		01/28/17 17:30	79-34-5	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

**Sample: VP4**      **Lab ID: 10377147004**      Collected: 01/23/17 12:50      Received: 01/24/17 17:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Tetrachloroethene	ND	ug/m3	0.99	0.40	1.44		01/28/17 17:30	127-18-4	
Tetrahydrofuran	<b>0.96</b>	ug/m3	0.86	0.17	1.44		01/28/17 17:30	109-99-9	
Toluene	<b>3.4</b>	ug/m3	1.1	0.22	1.44		01/28/17 17:30	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.4	1.3	1.44		01/28/17 17:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.6	0.36	1.44		01/28/17 17:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.79	0.35	1.44		01/28/17 17:30	79-00-5	
Trichloroethene	ND	ug/m3	0.79	0.40	1.44		01/28/17 17:30	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	0.19	1.44		01/28/17 17:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	0.43	1.44		01/28/17 17:30	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.4	0.18	1.44		01/28/17 17:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	0.26	1.44		01/28/17 17:30	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.48	1.44		01/28/17 17:30	108-05-4	
Vinyl chloride	ND	ug/m3	0.37	0.28	1.44		01/28/17 17:30	75-01-4	
m&p-Xylene	<b>3.6</b>	ug/m3	2.5	1.1	1.44		01/28/17 17:30	179601-23-1	
o-Xylene	ND	ug/m3	1.3	0.51	1.44		01/28/17 17:30	95-47-6	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

**Sample: VP5**      **Lab ID: 10377147005**      Collected: 01/23/17 13:10      Received: 01/24/17 17:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Acetone	<b>18.3</b>	ug/m3	3.5	1.2	1.44		01/28/17 17:57	67-64-1	
Benzene	ND	ug/m3	0.47	0.18	1.44		01/28/17 17:57	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.24	1.44		01/28/17 17:57	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.28	1.44		01/28/17 17:57	75-27-4	
Bromoform	ND	ug/m3	3.0	1.3	1.44		01/28/17 17:57	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.45	1.44		01/28/17 17:57	74-83-9	
1,3-Butadiene	ND	ug/m3	0.65	0.25	1.44		01/28/17 17:57	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.3	0.33	1.44		01/28/17 17:57	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	0.15	1.44		01/28/17 17:57	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.92	0.28	1.44		01/28/17 17:57	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.19	1.44		01/28/17 17:57	108-90-7	
Chloroethane	ND	ug/m3	0.78	0.28	1.44		01/28/17 17:57	75-00-3	
Chloroform	ND	ug/m3	0.71	0.27	1.44		01/28/17 17:57	67-66-3	
Chloromethane	ND	ug/m3	0.60	0.16	1.44		01/28/17 17:57	74-87-3	
Cyclohexane	ND	ug/m3	1.0	0.46	1.44		01/28/17 17:57	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.2	1.44		01/28/17 17:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.44		01/28/17 17:57	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.74	1.44		01/28/17 17:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	0.76	1.44		01/28/17 17:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	0.72	1.44		01/28/17 17:57	106-46-7	
Dichlorodifluoromethane	<b>3.1</b>	ug/m3	1.5	0.69	1.44		01/28/17 17:57	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.23	1.44		01/28/17 17:57	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	0.30	1.44		01/28/17 17:57	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.34	1.44		01/28/17 17:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.35	1.44		01/28/17 17:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.55	1.44		01/28/17 17:57	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.39	1.44		01/28/17 17:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.53	1.44		01/28/17 17:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.37	1.44		01/28/17 17:57	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.45	1.44		01/28/17 17:57	76-14-2	
Ethanol	<b>29.7</b>	ug/m3	1.4	0.38	1.44		01/28/17 17:57	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.50	1.44		01/28/17 17:57	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	0.61	1.44		01/28/17 17:57	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.4	0.27	1.44		01/28/17 17:57	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.40	1.44		01/28/17 17:57	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	7.8	0.94	1.44		01/28/17 17:57	87-68-3	
n-Hexane	ND	ug/m3	1.0	0.51	1.44		01/28/17 17:57	110-54-3	
2-Hexanone	ND	ug/m3	6.0	0.59	1.44		01/28/17 17:57	591-78-6	
Methylene Chloride	ND	ug/m3	5.1	0.78	1.44		01/28/17 17:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.0	0.31	1.44		01/28/17 17:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.3	0.44	1.44		01/28/17 17:57	1634-04-4	
Naphthalene	ND	ug/m3	3.8	0.44	1.44		01/28/17 17:57	91-20-3	
2-Propanol	<b>23.2</b>	ug/m3	3.6	0.35	1.44		01/28/17 17:57	67-63-0	
Propylene	ND	ug/m3	0.50	0.19	1.44		01/28/17 17:57	115-07-1	
Styrene	ND	ug/m3	1.3	0.28	1.44		01/28/17 17:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.47	1.44		01/28/17 17:57	79-34-5	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

**Sample: VP5**      **Lab ID: 10377147005**      Collected: 01/23/17 13:10      Received: 01/24/17 17:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrachloroethene	ND	ug/m3	0.99	0.40	1.44		01/28/17 17:57	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.86	0.17	1.44		01/28/17 17:57	109-99-9	
Toluene	3.1	ug/m3	1.1	0.22	1.44		01/28/17 17:57	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.4	1.3	1.44		01/28/17 17:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.6	0.36	1.44		01/28/17 17:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.79	0.35	1.44		01/28/17 17:57	79-00-5	
Trichloroethene	ND	ug/m3	0.79	0.40	1.44		01/28/17 17:57	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	0.19	1.44		01/28/17 17:57	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	0.43	1.44		01/28/17 17:57	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.4	0.18	1.44		01/28/17 17:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	0.26	1.44		01/28/17 17:57	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.48	1.44		01/28/17 17:57	108-05-4	
Vinyl chloride	ND	ug/m3	0.37	0.28	1.44		01/28/17 17:57	75-01-4	
m&p-Xylene	3.1	ug/m3	2.5	1.1	1.44		01/28/17 17:57	179601-23-1	
o-Xylene	5.1	ug/m3	1.3	0.51	1.44		01/28/17 17:57	95-47-6	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

**Sample: VP6**      **Lab ID: 10377147006**      Collected: 01/23/17 13:30      Received: 01/24/17 17:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Acetone	<b>11.0</b>	ug/m3	3.0	1.0	1.26		01/28/17 18:25	67-64-1	
Benzene	<b>1.1</b>	ug/m3	0.41	0.15	1.26		01/28/17 18:25	71-43-2	
Benzyl chloride	ND	ug/m3	1.3	0.21	1.26		01/28/17 18:25	100-44-7	
Bromodichloromethane	ND	ug/m3	1.7	0.24	1.26		01/28/17 18:25	75-27-4	
Bromoform	ND	ug/m3	2.6	1.1	1.26		01/28/17 18:25	75-25-2	
Bromomethane	ND	ug/m3	1.0	0.39	1.26		01/28/17 18:25	74-83-9	
1,3-Butadiene	ND	ug/m3	0.57	0.22	1.26		01/28/17 18:25	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.8	0.29	1.26		01/28/17 18:25	78-93-3	
Carbon disulfide	ND	ug/m3	0.79	0.13	1.26		01/28/17 18:25	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.81	0.24	1.26		01/28/17 18:25	56-23-5	
Chlorobenzene	ND	ug/m3	1.2	0.17	1.26		01/28/17 18:25	108-90-7	
Chloroethane	ND	ug/m3	0.68	0.24	1.26		01/28/17 18:25	75-00-3	
Chloroform	<b>0.66</b>	ug/m3	0.62	0.24	1.26		01/28/17 18:25	67-66-3	
Chloromethane	ND	ug/m3	0.53	0.14	1.26		01/28/17 18:25	74-87-3	
Cyclohexane	ND	ug/m3	0.88	0.40	1.26		01/28/17 18:25	110-82-7	
Dibromochloromethane	ND	ug/m3	2.2	1.1	1.26		01/28/17 18:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.0	0.98	1.26		01/28/17 18:25	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.5	0.65	1.26		01/28/17 18:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.5	0.67	1.26		01/28/17 18:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.5	0.63	1.26		01/28/17 18:25	106-46-7	
Dichlorodifluoromethane	<b>19.4</b>	ug/m3	1.3	0.60	1.26		01/28/17 18:25	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.0	0.20	1.26		01/28/17 18:25	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.52	0.26	1.26		01/28/17 18:25	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.0	0.30	1.26		01/28/17 18:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.0	0.31	1.26		01/28/17 18:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.0	0.48	1.26		01/28/17 18:25	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.2	0.34	1.26		01/28/17 18:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	0.46	1.26		01/28/17 18:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.2	0.33	1.26		01/28/17 18:25	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.8	0.39	1.26		01/28/17 18:25	76-14-2	
Ethanol	<b>8.3</b>	ug/m3	1.2	0.33	1.26		01/28/17 18:25	64-17-5	
Ethyl acetate	ND	ug/m3	0.92	0.44	1.26		01/28/17 18:25	141-78-6	
Ethylbenzene	<b>1.6</b>	ug/m3	1.1	0.54	1.26		01/28/17 18:25	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.3	0.24	1.26		01/28/17 18:25	622-96-8	
n-Heptane	ND	ug/m3	1.0	0.35	1.26		01/28/17 18:25	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	6.8	0.82	1.26		01/28/17 18:25	87-68-3	
n-Hexane	ND	ug/m3	0.91	0.45	1.26		01/28/17 18:25	110-54-3	
2-Hexanone	ND	ug/m3	5.2	0.52	1.26		01/28/17 18:25	591-78-6	
Methylene Chloride	ND	ug/m3	4.4	0.68	1.26		01/28/17 18:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.2	0.27	1.26		01/28/17 18:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.6	0.38	1.26		01/28/17 18:25	1634-04-4	
Naphthalene	ND	ug/m3	3.4	0.38	1.26		01/28/17 18:25	91-20-3	
2-Propanol	<b>8.3</b>	ug/m3	3.2	0.30	1.26		01/28/17 18:25	67-63-0	
Propylene	ND	ug/m3	0.44	0.17	1.26		01/28/17 18:25	115-07-1	
Styrene	<b>2.8</b>	ug/m3	1.1	0.24	1.26		01/28/17 18:25	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.88	0.41	1.26		01/28/17 18:25	79-34-5	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

**Sample: VP6**      **Lab ID: 10377147006**      Collected: 01/23/17 13:30      Received: 01/24/17 17:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrachloroethene	ND	ug/m3	0.87	0.35	1.26		01/28/17 18:25	127-18-4	
Tetrahydrofuran	<b>0.87</b>	ug/m3	0.76	0.15	1.26		01/28/17 18:25	109-99-9	
Toluene	<b>3.7</b>	ug/m3	0.97	0.19	1.26		01/28/17 18:25	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	4.8	1.1	1.26		01/28/17 18:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.4	0.31	1.26		01/28/17 18:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.69	0.31	1.26		01/28/17 18:25	79-00-5	
Trichloroethene	ND	ug/m3	0.69	0.35	1.26		01/28/17 18:25	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.4	0.17	1.26		01/28/17 18:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.0	0.38	1.26		01/28/17 18:25	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.3	0.16	1.26		01/28/17 18:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.3	0.23	1.26		01/28/17 18:25	108-67-8	
Vinyl acetate	ND	ug/m3	0.90	0.42	1.26		01/28/17 18:25	108-05-4	
Vinyl chloride	ND	ug/m3	0.33	0.25	1.26		01/28/17 18:25	75-01-4	
m&p-Xylene	<b>3.9</b>	ug/m3	2.2	0.99	1.26		01/28/17 18:25	179601-23-1	
o-Xylene	ND	ug/m3	1.1	0.44	1.26		01/28/17 18:25	95-47-6	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

**Sample: VP7**      **Lab ID: 10377147007**      Collected: 01/23/17 14:30      Received: 01/24/17 17:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Acetone	<b>4.5</b>	ug/m3	3.2	1.1	1.34		01/28/17 18:52	67-64-1	
Benzene	ND	ug/m3	0.44	0.16	1.34		01/28/17 18:52	71-43-2	
Benzyl chloride	ND	ug/m3	1.4	0.22	1.34		01/28/17 18:52	100-44-7	
Bromodichloromethane	ND	ug/m3	1.8	0.26	1.34		01/28/17 18:52	75-27-4	
Bromoform	ND	ug/m3	2.8	1.2	1.34		01/28/17 18:52	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.42	1.34		01/28/17 18:52	74-83-9	
1,3-Butadiene	ND	ug/m3	0.60	0.24	1.34		01/28/17 18:52	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.0	0.31	1.34		01/28/17 18:52	78-93-3	
Carbon disulfide	ND	ug/m3	0.84	0.14	1.34		01/28/17 18:52	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.86	0.26	1.34		01/28/17 18:52	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.18	1.34		01/28/17 18:52	108-90-7	
Chloroethane	ND	ug/m3	0.72	0.26	1.34		01/28/17 18:52	75-00-3	
Chloroform	ND	ug/m3	0.66	0.25	1.34		01/28/17 18:52	67-66-3	
Chloromethane	ND	ug/m3	0.56	0.14	1.34		01/28/17 18:52	74-87-3	
Cyclohexane	ND	ug/m3	0.94	0.42	1.34		01/28/17 18:52	110-82-7	
Dibromochloromethane	ND	ug/m3	2.3	1.1	1.34		01/28/17 18:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.1	1.0	1.34		01/28/17 18:52	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.6	0.69	1.34		01/28/17 18:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.6	0.71	1.34		01/28/17 18:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.6	0.67	1.34		01/28/17 18:52	106-46-7	
Dichlorodifluoromethane	<b>1.7</b>	ug/m3	1.4	0.64	1.34		01/28/17 18:52	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.21	1.34		01/28/17 18:52	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.55	0.27	1.34		01/28/17 18:52	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.32	1.34		01/28/17 18:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.33	1.34		01/28/17 18:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.51	1.34		01/28/17 18:52	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.36	1.34		01/28/17 18:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	0.49	1.34		01/28/17 18:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.2	0.35	1.34		01/28/17 18:52	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.9	0.42	1.34		01/28/17 18:52	76-14-2	
Ethanol	<b>2.5</b>	ug/m3	1.3	0.36	1.34		01/28/17 18:52	64-17-5	
Ethyl acetate	ND	ug/m3	0.98	0.47	1.34		01/28/17 18:52	141-78-6	
Ethylbenzene	ND	ug/m3	1.2	0.57	1.34		01/28/17 18:52	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.3	0.25	1.34		01/28/17 18:52	622-96-8	
n-Heptane	ND	ug/m3	1.1	0.37	1.34		01/28/17 18:52	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	7.3	0.87	1.34		01/28/17 18:52	87-68-3	
n-Hexane	ND	ug/m3	0.96	0.48	1.34		01/28/17 18:52	110-54-3	
2-Hexanone	ND	ug/m3	5.6	0.55	1.34		01/28/17 18:52	591-78-6	
Methylene Chloride	ND	ug/m3	4.7	0.73	1.34		01/28/17 18:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.6	0.29	1.34		01/28/17 18:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.9	0.41	1.34		01/28/17 18:52	1634-04-4	
Naphthalene	ND	ug/m3	3.6	0.41	1.34		01/28/17 18:52	91-20-3	
2-Propanol	<b>5.2</b>	ug/m3	3.4	0.32	1.34		01/28/17 18:52	67-63-0	
Propylene	ND	ug/m3	0.47	0.18	1.34		01/28/17 18:52	115-07-1	
Styrene	ND	ug/m3	1.2	0.26	1.34		01/28/17 18:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.94	0.44	1.34		01/28/17 18:52	79-34-5	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

**Sample: VP7**      **Lab ID: 10377147007**      Collected: 01/23/17 14:30      Received: 01/24/17 17:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrachloroethene	ND	ug/m3	0.92	0.37	1.34		01/28/17 18:52	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.80	0.16	1.34		01/28/17 18:52	109-99-9	
Toluene	<b>2.6</b>	ug/m3	1.0	0.21	1.34		01/28/17 18:52	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.1	1.2	1.34		01/28/17 18:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	0.33	1.34		01/28/17 18:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.74	0.33	1.34		01/28/17 18:52	79-00-5	
Trichloroethene	ND	ug/m3	0.74	0.37	1.34		01/28/17 18:52	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.5	0.18	1.34		01/28/17 18:52	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.1	0.40	1.34		01/28/17 18:52	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.3	0.17	1.34		01/28/17 18:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.3	0.25	1.34		01/28/17 18:52	108-67-8	
Vinyl acetate	ND	ug/m3	0.96	0.44	1.34		01/28/17 18:52	108-05-4	
Vinyl chloride	ND	ug/m3	0.35	0.26	1.34		01/28/17 18:52	75-01-4	
m&p-Xylene	<b>2.9</b>	ug/m3	2.4	1.1	1.34		01/28/17 18:52	179601-23-1	
o-Xylene	ND	ug/m3	1.2	0.47	1.34		01/28/17 18:52	95-47-6	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

**Sample: VP8**      **Lab ID: 10377147008**      Collected: 01/23/17 14:45      Received: 01/24/17 17:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Acetone	<b>21.1</b>	ug/m3	3.4	1.2	1.39		01/28/17 19:20	67-64-1	
Benzene	<b>2.2</b>	ug/m3	0.45	0.17	1.39		01/28/17 19:20	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.23	1.39		01/28/17 19:20	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.27	1.39		01/28/17 19:20	75-27-4	
Bromoform	ND	ug/m3	2.9	1.3	1.39		01/28/17 19:20	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.43	1.39		01/28/17 19:20	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.24	1.39		01/28/17 19:20	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.2	0.32	1.39		01/28/17 19:20	78-93-3	
Carbon disulfide	ND	ug/m3	0.88	0.14	1.39		01/28/17 19:20	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.89	0.27	1.39		01/28/17 19:20	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.19	1.39		01/28/17 19:20	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.27	1.39		01/28/17 19:20	75-00-3	
Chloroform	ND	ug/m3	0.69	0.26	1.39		01/28/17 19:20	67-66-3	
Chloromethane	<b>0.72</b>	ug/m3	0.58	0.15	1.39		01/28/17 19:20	74-87-3	
Cyclohexane	<b>2.9</b>	ug/m3	0.97	0.44	1.39		01/28/17 19:20	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.39		01/28/17 19:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		01/28/17 19:20	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.71	1.39		01/28/17 19:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	0.74	1.39		01/28/17 19:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	0.69	1.39		01/28/17 19:20	106-46-7	
Dichlorodifluoromethane	<b>2.5</b>	ug/m3	1.4	0.67	1.39		01/28/17 19:20	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.39		01/28/17 19:20	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.28	1.39		01/28/17 19:20	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		01/28/17 19:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.34	1.39		01/28/17 19:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.53	1.39		01/28/17 19:20	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.38	1.39		01/28/17 19:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.51	1.39		01/28/17 19:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.36	1.39		01/28/17 19:20	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.43	1.39		01/28/17 19:20	76-14-2	
Ethanol	<b>10</b>	ug/m3	1.3	0.37	1.39		01/28/17 19:20	64-17-5	
Ethyl acetate	ND	ug/m3	1.0	0.48	1.39		01/28/17 19:20	141-78-6	
Ethylbenzene	<b>2.0</b>	ug/m3	1.2	0.59	1.39		01/28/17 19:20	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.4	0.26	1.39		01/28/17 19:20	622-96-8	
n-Heptane	<b>3.0</b>	ug/m3	1.2	0.39	1.39		01/28/17 19:20	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	7.5	0.90	1.39		01/28/17 19:20	87-68-3	
n-Hexane	<b>18.3</b>	ug/m3	1.3	0.66	1.86		01/30/17 13:26	110-54-3	
2-Hexanone	ND	ug/m3	5.8	0.57	1.39		01/28/17 19:20	591-78-6	
Methylene Chloride	<b>133</b>	ug/m3	6.6	1.0	1.86		01/30/17 13:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.8	0.30	1.39		01/28/17 19:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.1	0.42	1.39		01/28/17 19:20	1634-04-4	
Naphthalene	ND	ug/m3	3.7	0.42	1.39		01/28/17 19:20	91-20-3	
2-Propanol	ND	ug/m3	3.5	0.33	1.39		01/28/17 19:20	67-63-0	
Propylene	<b>0.85</b>	ug/m3	0.49	0.19	1.39		01/28/17 19:20	115-07-1	
Styrene	ND	ug/m3	1.2	0.27	1.39		01/28/17 19:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.46	1.39		01/28/17 19:20	79-34-5	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

**Sample: VP8**      **Lab ID: 10377147008**      Collected: 01/23/17 14:45      Received: 01/24/17 17:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrachloroethene	ND	ug/m3	0.96	0.39	1.39		01/28/17 19:20	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.83	0.17	1.39		01/28/17 19:20	109-99-9	
Toluene	<b>11.1</b>	ug/m3	1.1	0.21	1.39		01/28/17 19:20	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.2	1.3	1.39		01/28/17 19:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	0.34	1.39		01/28/17 19:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.76	0.34	1.39		01/28/17 19:20	79-00-5	
Trichloroethene	ND	ug/m3	0.76	0.38	1.39		01/28/17 19:20	79-01-6	
Trichlorofluoromethane	<b>1.6</b>	ug/m3	1.6	0.18	1.39		01/28/17 19:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.42	1.39		01/28/17 19:20	76-13-1	
1,2,4-Trimethylbenzene	<b>1.7</b>	ug/m3	1.4	0.17	1.39		01/28/17 19:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	0.25	1.39		01/28/17 19:20	108-67-8	
Vinyl acetate	<b>3.3</b>	ug/m3	1.0	0.46	1.39		01/28/17 19:20	108-05-4	
Vinyl chloride	ND	ug/m3	0.36	0.27	1.39		01/28/17 19:20	75-01-4	
m&p-Xylene	<b>7.4</b>	ug/m3	2.5	1.1	1.39		01/28/17 19:20	179601-23-1	
o-Xylene	<b>1.7</b>	ug/m3	1.2	0.49	1.39		01/28/17 19:20	95-47-6	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

**Sample: VP9**      **Lab ID: 10377147009**      Collected: 01/23/17 15:00      Received: 01/24/17 17:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Acetone	<b>7.3</b>	ug/m3	3.4	1.2	1.39		01/28/17 19:47	67-64-1	
Benzene	<b>0.46</b>	ug/m3	0.45	0.17	1.39		01/28/17 19:47	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.23	1.39		01/28/17 19:47	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.27	1.39		01/28/17 19:47	75-27-4	
Bromoform	ND	ug/m3	2.9	1.3	1.39		01/28/17 19:47	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.43	1.39		01/28/17 19:47	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.24	1.39		01/28/17 19:47	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.2	0.32	1.39		01/28/17 19:47	78-93-3	
Carbon disulfide	ND	ug/m3	0.88	0.14	1.39		01/28/17 19:47	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.89	0.27	1.39		01/28/17 19:47	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.19	1.39		01/28/17 19:47	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.27	1.39		01/28/17 19:47	75-00-3	
Chloroform	ND	ug/m3	0.69	0.26	1.39		01/28/17 19:47	67-66-3	
Chloromethane	ND	ug/m3	0.58	0.15	1.39		01/28/17 19:47	74-87-3	
Cyclohexane	ND	ug/m3	0.97	0.44	1.39		01/28/17 19:47	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.39		01/28/17 19:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		01/28/17 19:47	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.71	1.39		01/28/17 19:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	0.74	1.39		01/28/17 19:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	0.69	1.39		01/28/17 19:47	106-46-7	
Dichlorodifluoromethane	<b>2.0</b>	ug/m3	1.4	0.67	1.39		01/28/17 19:47	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.39		01/28/17 19:47	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.28	1.39		01/28/17 19:47	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.33	1.39		01/28/17 19:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.34	1.39		01/28/17 19:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.53	1.39		01/28/17 19:47	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.38	1.39		01/28/17 19:47	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.51	1.39		01/28/17 19:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.36	1.39		01/28/17 19:47	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.43	1.39		01/28/17 19:47	76-14-2	
Ethanol	<b>14.5</b>	ug/m3	1.3	0.37	1.39		01/28/17 19:47	64-17-5	
Ethyl acetate	ND	ug/m3	1.0	0.48	1.39		01/28/17 19:47	141-78-6	
Ethylbenzene	ND	ug/m3	1.2	0.59	1.39		01/28/17 19:47	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.4	0.26	1.39		01/28/17 19:47	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.39	1.39		01/28/17 19:47	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	7.5	0.90	1.39		01/28/17 19:47	87-68-3	
n-Hexane	ND	ug/m3	1.0	0.50	1.39		01/28/17 19:47	110-54-3	
2-Hexanone	ND	ug/m3	5.8	0.57	1.39		01/28/17 19:47	591-78-6	
Methylene Chloride	ND	ug/m3	4.9	0.75	1.39		01/28/17 19:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.8	0.30	1.39		01/28/17 19:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.1	0.42	1.39		01/28/17 19:47	1634-04-4	
Naphthalene	ND	ug/m3	3.7	0.42	1.39		01/28/17 19:47	91-20-3	
2-Propanol	<b>10.8</b>	ug/m3	3.5	0.33	1.39		01/28/17 19:47	67-63-0	
Propylene	ND	ug/m3	0.49	0.19	1.39		01/28/17 19:47	115-07-1	
Styrene	ND	ug/m3	1.2	0.27	1.39		01/28/17 19:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.46	1.39		01/28/17 19:47	79-34-5	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

**Sample: VP9**      **Lab ID: 10377147009**      Collected: 01/23/17 15:00      Received: 01/24/17 17:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrachloroethene	<b>9.3</b>	ug/m3	0.96	0.39	1.39		01/28/17 19:47	127-18-4	
Tetrahydrofuran	<b>1.3</b>	ug/m3	0.83	0.17	1.39		01/28/17 19:47	109-99-9	
Toluene	<b>4.5</b>	ug/m3	1.1	0.21	1.39		01/28/17 19:47	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.2	1.3	1.39		01/28/17 19:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	0.34	1.39		01/28/17 19:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.76	0.34	1.39		01/28/17 19:47	79-00-5	
Trichloroethene	ND	ug/m3	0.76	0.38	1.39		01/28/17 19:47	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	0.18	1.39		01/28/17 19:47	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.42	1.39		01/28/17 19:47	76-13-1	
1,2,4-Trimethylbenzene	<b>1.6</b>	ug/m3	1.4	0.17	1.39		01/28/17 19:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	0.25	1.39		01/28/17 19:47	108-67-8	
Vinyl acetate	<b>1.2</b>	ug/m3	1.0	0.46	1.39		01/28/17 19:47	108-05-4	
Vinyl chloride	ND	ug/m3	0.36	0.27	1.39		01/28/17 19:47	75-01-4	
m&p-Xylene	<b>4.8</b>	ug/m3	2.5	1.1	1.39		01/28/17 19:47	179601-23-1	
o-Xylene	ND	ug/m3	1.2	0.49	1.39		01/28/17 19:47	95-47-6	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP  
Pace Project No.: 10377147

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QC Batch: 457679 Analysis Method: TO-15  
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level  
Associated Lab Samples: 10377147001, 10377147002, 10377147003, 10377147004, 10377147005, 10377147006, 10377147007, 10377147008, 10377147009

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METHOD BLANK: 2505626 Matrix: Air  
Associated Lab Samples: 10377147001, 10377147002, 10377147003, 10377147004, 10377147005, 10377147006, 10377147007, 10377147008, 10377147009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	01/28/17 10:16	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	01/28/17 10:16	
1,1,2-Trichloroethane	ug/m3	ND	0.55	01/28/17 10:16	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	01/28/17 10:16	
1,1-Dichloroethane	ug/m3	ND	0.82	01/28/17 10:16	
1,1-Dichloroethene	ug/m3	ND	0.81	01/28/17 10:16	
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	01/28/17 10:16	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	01/28/17 10:16	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	01/28/17 10:16	
1,2-Dichlorobenzene	ug/m3	ND	1.2	01/28/17 10:16	
1,2-Dichloroethane	ug/m3	ND	0.41	01/28/17 10:16	
1,2-Dichloropropane	ug/m3	ND	0.94	01/28/17 10:16	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	01/28/17 10:16	
1,3-Butadiene	ug/m3	ND	0.45	01/28/17 10:16	
1,3-Dichlorobenzene	ug/m3	ND	1.2	01/28/17 10:16	
1,4-Dichlorobenzene	ug/m3	ND	1.2	01/28/17 10:16	
2-Butanone (MEK)	ug/m3	ND	3.0	01/28/17 10:16	
2-Hexanone	ug/m3	ND	4.2	01/28/17 10:16	
2-Propanol	ug/m3	ND	2.5	01/28/17 10:16	
4-Ethyltoluene	ug/m3	ND	1.0	01/28/17 10:16	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	01/28/17 10:16	
Acetone	ug/m3	ND	2.4	01/28/17 10:16	
Benzene	ug/m3	ND	0.32	01/28/17 10:16	
Benzyl chloride	ug/m3	ND	1.0	01/28/17 10:16	
Bromodichloromethane	ug/m3	ND	1.4	01/28/17 10:16	
Bromoform	ug/m3	ND	2.1	01/28/17 10:16	
Bromomethane	ug/m3	ND	0.79	01/28/17 10:16	
Carbon disulfide	ug/m3	ND	0.63	01/28/17 10:16	
Carbon tetrachloride	ug/m3	ND	0.64	01/28/17 10:16	
Chlorobenzene	ug/m3	ND	0.94	01/28/17 10:16	
Chloroethane	ug/m3	ND	0.54	01/28/17 10:16	
Chloroform	ug/m3	ND	0.50	01/28/17 10:16	
Chloromethane	ug/m3	ND	0.42	01/28/17 10:16	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	01/28/17 10:16	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	01/28/17 10:16	
Cyclohexane	ug/m3	ND	0.70	01/28/17 10:16	
Dibromochloromethane	ug/m3	ND	1.7	01/28/17 10:16	
Dichlorodifluoromethane	ug/m3	ND	1.0	01/28/17 10:16	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	01/28/17 10:16	
Ethanol	ug/m3	ND	0.96	01/28/17 10:16	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

METHOD BLANK: 2505626

Matrix: Air

Associated Lab Samples: 10377147001, 10377147002, 10377147003, 10377147004, 10377147005, 10377147006, 10377147007, 10377147008, 10377147009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	ND	0.73	01/28/17 10:16	
Ethylbenzene	ug/m3	ND	0.88	01/28/17 10:16	
Hexachloro-1,3-butadiene	ug/m3	ND	5.4	01/28/17 10:16	
m&p-Xylene	ug/m3	ND	1.8	01/28/17 10:16	
Methyl-tert-butyl ether	ug/m3	ND	3.7	01/28/17 10:16	
Methylene Chloride	ug/m3	ND	3.5	01/28/17 10:16	
n-Heptane	ug/m3	ND	0.83	01/28/17 10:16	
n-Hexane	ug/m3	ND	0.72	01/28/17 10:16	
Naphthalene	ug/m3	ND	2.7	01/28/17 10:16	
o-Xylene	ug/m3	ND	0.88	01/28/17 10:16	
Propylene	ug/m3	ND	0.35	01/28/17 10:16	
Styrene	ug/m3	ND	0.87	01/28/17 10:16	
Tetrachloroethene	ug/m3	ND	0.69	01/28/17 10:16	
Tetrahydrofuran	ug/m3	ND	0.60	01/28/17 10:16	
Toluene	ug/m3	ND	0.77	01/28/17 10:16	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	01/28/17 10:16	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	01/28/17 10:16	
Trichloroethene	ug/m3	ND	0.55	01/28/17 10:16	
Trichlorofluoromethane	ug/m3	ND	1.1	01/28/17 10:16	
Vinyl acetate	ug/m3	ND	0.72	01/28/17 10:16	
Vinyl chloride	ug/m3	ND	0.26	01/28/17 10:16	

LABORATORY CONTROL SAMPLE: 2505627

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	57.3	103	60-143	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	82.3	118	49-150	
1,1,2-Trichloroethane	ug/m3	55.5	67.5	122	57-149	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	87.3	112	66-131	
1,1-Dichloroethane	ug/m3	41.1	47.5	115	62-139	
1,1-Dichloroethene	ug/m3	40.3	44.0	109	62-135	
1,2,4-Trichlorobenzene	ug/m3	75.4	86.8	115	55-146	
1,2,4-Trimethylbenzene	ug/m3	50	58.7	118	57-143	
1,2-Dibromoethane (EDB)	ug/m3	78.1	94.4	121	63-150	
1,2-Dichlorobenzene	ug/m3	61.1	69.6	114	57-141	
1,2-Dichloroethane	ug/m3	41.1	43.8	106	61-144	
1,2-Dichloropropane	ug/m3	47	57.7	123	63-144	
1,3,5-Trimethylbenzene	ug/m3	50	58.3	117	54-147	
1,3-Butadiene	ug/m3	22.5	24.4	108	61-140	
1,3-Dichlorobenzene	ug/m3	61.1	69.7	114	51-150	
1,4-Dichlorobenzene	ug/m3	61.1	68.8	113	57-143	
2-Butanone (MEK)	ug/m3	30	35.9	120	66-144	
2-Hexanone	ug/m3	104	116	112	63-147	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

LABORATORY CONTROL SAMPLE: 2505627

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Propanol	ug/m3	125	141	113	54-146	
4-Ethyltoluene	ug/m3	50	58.6	117	56-150	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	117	112	58-150	
Acetone	ug/m3	121	117	97	46-140	
Benzene	ug/m3	32.5	39.5	122	62-141	
Benzyl chloride	ug/m3	52.6	56.0	106	66-138	
Bromodichloromethane	ug/m3	68.1	84.6	124	58-149	
Bromoform	ug/m3	105	119	113	61-150	
Bromomethane	ug/m3	39.5	42.4	107	58-136	
Carbon disulfide	ug/m3	31.6	35.4	112	59-135	
Carbon tetrachloride	ug/m3	64	78.3	122	60-149	
Chlorobenzene	ug/m3	46.8	56.7	121	60-150	
Chloroethane	ug/m3	26.8	28.5	106	61-136	
Chloroform	ug/m3	49.6	58.1	117	65-138	
Chloromethane	ug/m3	21	22.6	108	62-133	
cis-1,2-Dichloroethene	ug/m3	40.3	47.0	117	65-139	
cis-1,3-Dichloropropene	ug/m3	46.1	58.0	126	61-149	
Cyclohexane	ug/m3	35	41.7	119	64-134	
Dibromochloromethane	ug/m3	86.6	100	115	59-150	
Dichlorodifluoromethane	ug/m3	50.3	55.0	109	63-134	
Dichlorotetrafluoroethane	ug/m3	71	87.8	124	62-134	
Ethanol	ug/m3	91.6	112	122	50-144	
Ethyl acetate	ug/m3	36.6	42.1	115	55-146	
Ethylbenzene	ug/m3	44.1	52.0	118	59-149	
Hexachloro-1,3-butadiene	ug/m3	108	121	112	42-150	SS
m&p-Xylene	ug/m3	88.3	99.9	113	59-146	
Methyl-tert-butyl ether	ug/m3	91.6	107	117	64-135	
Methylene Chloride	ug/m3	177	177	100	64-128	
n-Heptane	ug/m3	41.6	47.8	115	64-140	
n-Hexane	ug/m3	35.8	36.9	103	50-138	
Naphthalene	ug/m3	53.3	60.2	113	46-146	
o-Xylene	ug/m3	44.1	53.0	120	54-149	
Propylene	ug/m3	17.5	18.3	104	58-135	
Styrene	ug/m3	43.3	49.5	114	54-150	
Tetrachloroethene	ug/m3	68.9	80.1	116	60-142	
Tetrahydrofuran	ug/m3	30	33.0	110	56-143	
Toluene	ug/m3	38.3	46.0	120	61-138	
trans-1,2-Dichloroethene	ug/m3	40.3	46.5	115	67-137	
trans-1,3-Dichloropropene	ug/m3	46.1	58.8	128	59-145	
Trichloroethene	ug/m3	54.6	66.1	121	60-144	
Trichlorofluoromethane	ug/m3	57.1	62.4	109	59-134	
Vinyl acetate	ug/m3	35.8	42.3	118	55-143	
Vinyl chloride	ug/m3	26	28.3	109	63-135	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

SAMPLE DUPLICATE: 2506085

Parameter	Units	10377147001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	3.8	4.1	8	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	ND	4J		25	
2-Hexanone	ug/m3	ND	.69J		25	
2-Propanol	ug/m3	14.7	14.7	0	25	
4-Ethyltoluene	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	1.5J		25	
Acetone	ug/m3	6.3	5.9	7	25	
Benzene	ug/m3	ND	.44J		25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	32.2	33.3	3	25	
Chloromethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	1J		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	22.9	26.3	14	25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	7.2	5.7	22	25	
Ethyl acetate	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	1.8	1.9	4	25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	7.2	7.6	6	25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	1.6J		25	
n-Heptane	ug/m3	ND	.66J		25	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

SAMPLE DUPLICATE: 2506085

Parameter	Units	10377147001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	ND	.62J		25	
Naphthalene	ug/m3	ND	ND		25	
o-Xylene	ug/m3	1.4	1.6	14	25	
Propylene	ug/m3	ND	.32J		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	3.0	3.1	5	25	
Tetrahydrofuran	ug/m3	2.4	2.4	2	25	
Toluene	ug/m3	7.0	7.3	5	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	1.8	1.9	5	25	
Vinyl acetate	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

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## QUALIFIERS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

### ANALYTE QUALIFIERS

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2118-0002 Superior MGP

Pace Project No.: 10377147

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10377147001	VP1	TO-15	457679		
10377147002	VP2	TO-15	457679		
10377147003	VP3	TO-15	457679		
10377147004	VP4	TO-15	457679		
10377147005	VP5	TO-15	457679		
10377147006	VP6	TO-15	457679		
10377147007	VP7	TO-15	457679		
10377147008	VP8	TO-15	457679		
10377147009	VP9	TO-15	457679		

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10 327147



# AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information: Company: <u>Sund FluoroSolutions</u> Address: <u>1317 Benton Blvd N, St. Paul, MN 55108</u> Email To: <u>kgregg@sundfluoro.com</u> Phone: <u>715-507-0000</u> Requested Due Date/TAT: _____		<b>Section B</b> Required Project Information: Report To: <u>B:11 Gregg</u> Copy To: _____ Purchase Order No.: <u>2118-0002</u> Project Name: <u>Superfund</u> Project Number: _____		<b>Section C</b> Invoice Information: Attention: <u>B:11 Gregg</u> Company Name: _____ Address: _____ Pace Quote Reference: _____ Pace Project Manager/Sales Rep. <u>Kelley Y. C. Y.</u> Pace Profile #: _____		Page: <u>1</u> of <u>1</u>	
<b>Section D</b> Required Client Information <b>AIR SAMPLE ID</b> Sample IDs MUST BE UNIQUE		Valid Media Codes MEDIA CODE TB 1 Liter Summa Can T1C 6 Liter Summa Can BLC Low Volume Puff LVP High Volume Puff HVP Other PM10		COLLECTED MEDIA CODE PID Reading (Client only) COMPOSITE START ENDORSE DATE TIME DATE TIME 1/23/17 11:55 12:05 12:15 12:50 13:10 13:30 14:50 14:45 15:00		Method: PM10 3C-Fixed Gas (%) TO-3 (Methane) TO-4 (PbAs) TO-13 (PM) TO-14 TO-15 TO-15 Short List	
ITEM #							
1	VP1	6LL					
2	VP2						
3	VP3						
4	VP4						
5	VP5						
6	VP6						
7	VP7						
8	VP8						
9	VP9						
10	VP9						
11							
12							

RELIQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Kyle Korans / Sund	1/23/17	4:15	Kristina Polson	1/23/17	10:15	Temp in °C Received on Ice Custody Sealed Cooler Samples Intact
Kristina Polson	1/24/17	14:30		1/24/17	14:30	
	1/24/17	17:00		1/24/17	17:00	

SAMPLER NAME AND SIGNATURE  
 PRINT Name of SAMPLER: Kyle Korans  
 SIGNATURE of SAMPLER: [Signature]  
 DATE Signed (MM/DD/YY): 1/23/17





Document Name:  
Air Sample Condition Upon Receipt  
Document No.:  
F-MN-A-106-rev.11

Document Revised: 26APR2016  
Page 1 of 1  
Issuing Authority:  
Pace Minnesota Quality Office

**Air Sample Condition Upon Receipt**

Client Name: Summit

Project #:

**WO#: 10377147**

10377147

Courier:  Fed Ex  UPS  Speedee  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Tracking Number: \_\_\_\_\_

Custody Seal on Cooler/Box Present?  Yes  No <sup>12517</sup> Seals Intact?  Yes  No

Optional: Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

Packing Material:  Bubble Wrap  Bubble Bags  Foam  None  Tin Can  Other: \_\_\_\_\_ Temp Blank rec:  Yes  No

Temp. (TO17 and TO13 samples only) (°C): 0 Corrected Temp (°C): 0 Thermom. Used:  B88A912167504  B88A0143310098  151401163  151401164

Temp should be above freezing to 6°C Correction Factor: 6 Date & Initials of Person Examining Contents: 12/25/17

Type of ice Received  Blue  Wet  None

**Comments:**

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID

**CLIENT NOTIFICATION/RESOLUTION** Field Data Required?  Yes  No  
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/Resolution: \_\_\_\_\_

**Project Manager Review:** \_\_\_\_\_ **Date:** \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

May 01, 2017

Bill Gregg  
Summit Envirosolutions  
1217 Bandana Blvd  
Saint Paul, MN 55108

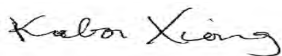
RE: Project: 2118-0002 Superior Former MGP  
Pace Project No.: 10386417

Dear Bill Gregg:

Enclosed are the analytical results for sample(s) received by the laboratory on April 25, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kabor Xiong  
kabor.xiong@pacelabs.com  
(612)607-6347  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2118-0002 Superior Former MGP

Pace Project No.: 10386417

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### Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: UST-078

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas Certification #: 88-0680

California Certification #: MN00064

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia WW Certification #: 382

Wisconsin Certification #: 999407970

Wyoming via EPA Region 8 Certification #: 8TMS-L

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## SAMPLE SUMMARY

Project: 2118-0002 Superior Former MGP

Pace Project No.: 10386417

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10386417001	VP001	Air	04/04/17 10:00	04/25/17 18:00
10386417002	VP002	Air	04/04/17 10:15	04/25/17 18:00
10386417003	VP003	Air	04/04/17 10:35	04/25/17 18:00
10386417004	VP004	Air	04/04/17 11:15	04/25/17 18:00
10386417005	VP005	Air	04/04/17 11:35	04/25/17 18:00
10386417006	VP006	Air	04/04/17 11:45	04/25/17 18:00
10386417007	VP007	Air	04/04/17 12:15	04/25/17 18:00
10386417008	VP008	Air	04/04/17 12:30	04/25/17 18:00
10386417009	VP009	Air	04/04/17 12:55	04/25/17 18:00

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### SAMPLE ANALYTE COUNT

Project: 2118-0002 Superior Former MGP

Pace Project No.: 10386417

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10386417001	VP001	TO-15	MJL	61	PASI-M
10386417002	VP002	TO-15	MJL	61	PASI-M
10386417003	VP003	TO-15	MJL	61	PASI-M
10386417004	VP004	TO-15	MJL	61	PASI-M
10386417005	VP005	TO-15	MJL	61	PASI-M
10386417006	VP006	TO-15	MJL	61	PASI-M
10386417007	VP007	TO-15	MJL	61	PASI-M
10386417008	VP008	TO-15	MJL	61	PASI-M
10386417009	VP009	TO-15	MJL	61	PASI-M

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior Former MGP

Pace Project No.: 10386417

Sample: **VP001** Lab ID: **10386417001** Collected: 04/04/17 10:00 Received: 04/25/17 18:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Acetone	<b>11.0</b>	ug/m3	3.2	1.1	1.34		04/29/17 20:50	67-64-1	
Benzene	ND	ug/m3	0.44	0.16	1.34		04/29/17 20:50	71-43-2	
Benzyl chloride	ND	ug/m3	3.5	0.22	1.34		04/29/17 20:50	100-44-7	
Bromodichloromethane	ND	ug/m3	1.8	0.26	1.34		04/29/17 20:50	75-27-4	
Bromoform	ND	ug/m3	7.0	1.2	1.34		04/29/17 20:50	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.42	1.34		04/29/17 20:50	74-83-9	
1,3-Butadiene	ND	ug/m3	0.60	0.24	1.34		04/29/17 20:50	106-99-0	
2-Butanone (MEK)	<b>13.4</b>	ug/m3	4.0	0.31	1.34		04/29/17 20:50	78-93-3	
Carbon disulfide	ND	ug/m3	0.84	0.14	1.34		04/29/17 20:50	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.86	0.26	1.34		04/29/17 20:50	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.18	1.34		04/29/17 20:50	108-90-7	
Chloroethane	ND	ug/m3	0.72	0.26	1.34		04/29/17 20:50	75-00-3	
Chloroform	<b>47.0</b>	ug/m3	0.66	0.25	1.34		04/29/17 20:50	67-66-3	
Chloromethane	ND	ug/m3	0.56	0.14	1.34		04/29/17 20:50	74-87-3	
Cyclohexane	<b>2.4</b>	ug/m3	0.94	0.42	1.34		04/29/17 20:50	110-82-7	
Dibromochloromethane	ND	ug/m3	2.3	1.1	1.34		04/29/17 20:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.1	1.0	1.34		04/29/17 20:50	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	4.1	0.69	1.34		04/29/17 20:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	4.1	0.71	1.34		04/29/17 20:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.1	0.67	1.34		04/29/17 20:50	106-46-7	
Dichlorodifluoromethane	<b>26.5</b>	ug/m3	1.4	0.64	1.34		04/29/17 20:50	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.21	1.34		04/29/17 20:50	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.55	0.27	1.34		04/29/17 20:50	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.32	1.34		04/29/17 20:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.33	1.34		04/29/17 20:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.51	1.34		04/29/17 20:50	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.36	1.34		04/29/17 20:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	0.49	1.34		04/29/17 20:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3.1	0.35	1.34		04/29/17 20:50	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.9	0.42	1.34		04/29/17 20:50	76-14-2	
Ethanol	<b>1.5</b>	ug/m3	1.3	0.36	1.34		04/29/17 20:50	64-17-5	
Ethyl acetate	ND	ug/m3	0.98	0.47	1.34		04/29/17 20:50	141-78-6	
Ethylbenzene	ND	ug/m3	1.2	0.57	1.34		04/29/17 20:50	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.3	0.25	1.34		04/29/17 20:50	622-96-8	
n-Heptane	ND	ug/m3	1.1	0.37	1.34		04/29/17 20:50	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.9	0.87	1.34		04/29/17 20:50	87-68-3	
n-Hexane	<b>2.4</b>	ug/m3	0.96	0.48	1.34		04/29/17 20:50	110-54-3	
2-Hexanone	ND	ug/m3	5.6	0.55	1.34		04/29/17 20:50	591-78-6	
Methylene Chloride	ND	ug/m3	4.7	0.73	1.34		04/29/17 20:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.6	0.29	1.34		04/29/17 20:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.9	0.41	1.34		04/29/17 20:50	1634-04-4	
Naphthalene	ND	ug/m3	7.1	0.41	1.34		04/29/17 20:50	91-20-3	
2-Propanol	<b>43.9</b>	ug/m3	3.4	0.32	1.34		04/29/17 20:50	67-63-0	
Propylene	<b>0.68</b>	ug/m3	0.47	0.18	1.34		04/29/17 20:50	115-07-1	
Styrene	<b>1.3</b>	ug/m3	1.2	0.26	1.34		04/29/17 20:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.94	0.44	1.34		04/29/17 20:50	79-34-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior Former MGP

Pace Project No.: 10386417

**Sample: VP001**      **Lab ID: 10386417001**      Collected: 04/04/17 10:00      Received: 04/25/17 18:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrachloroethene	<b>6.8</b>	ug/m3	0.92	0.37	1.34		04/29/17 20:50	127-18-4	
Tetrahydrofuran	<b>1.5</b>	ug/m3	0.80	0.16	1.34		04/29/17 20:50	109-99-9	
Toluene	<b>2.3</b>	ug/m3	1.0	0.21	1.34		04/29/17 20:50	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10.1	1.2	1.34		04/29/17 20:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	0.33	1.34		04/29/17 20:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.74	0.33	1.34		04/29/17 20:50	79-00-5	
Trichloroethene	ND	ug/m3	0.74	0.37	1.34		04/29/17 20:50	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.5	0.18	1.34		04/29/17 20:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.1	0.40	1.34		04/29/17 20:50	76-13-1	
1,2,4-Trimethylbenzene	<b>5.3</b>	ug/m3	1.3	0.17	1.34		04/29/17 20:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.3	0.25	1.34		04/29/17 20:50	108-67-8	
Vinyl acetate	ND	ug/m3	0.96	0.44	1.34		04/29/17 20:50	108-05-4	
Vinyl chloride	ND	ug/m3	0.35	0.26	1.34		04/29/17 20:50	75-01-4	
m&p-Xylene	<b>3.9</b>	ug/m3	2.4	1.1	1.34		04/29/17 20:50	179601-23-1	
o-Xylene	<b>1.5</b>	ug/m3	1.2	0.47	1.34		04/29/17 20:50	95-47-6	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior Former MGP

Pace Project No.: 10386417

**Sample: VP002**      **Lab ID: 10386417002**      Collected: 04/04/17 10:15      Received: 04/25/17 18:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Acetone	4.7	ug/m3	3.5	1.2	1.44		04/29/17 21:51	67-64-1	
Benzene	ND	ug/m3	0.47	0.18	1.44		04/29/17 21:51	71-43-2	
Benzyl chloride	ND	ug/m3	3.8	0.24	1.44		04/29/17 21:51	100-44-7	
Bromodichloromethane	2.0	ug/m3	2.0	0.28	1.44		04/29/17 21:51	75-27-4	
Bromoform	ND	ug/m3	7.6	1.3	1.44		04/29/17 21:51	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.45	1.44		04/29/17 21:51	74-83-9	
1,3-Butadiene	ND	ug/m3	0.65	0.25	1.44		04/29/17 21:51	106-99-0	
2-Butanone (MEK)	37.1	ug/m3	4.3	0.33	1.44		04/29/17 21:51	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	0.15	1.44		04/29/17 21:51	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.92	0.28	1.44		04/29/17 21:51	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.19	1.44		04/29/17 21:51	108-90-7	
Chloroethane	ND	ug/m3	0.78	0.28	1.44		04/29/17 21:51	75-00-3	
Chloroform	174	ug/m3	0.71	0.27	1.44		04/29/17 21:51	67-66-3	
Chloromethane	ND	ug/m3	0.60	0.16	1.44		04/29/17 21:51	74-87-3	
Cyclohexane	1.4	ug/m3	1.0	0.46	1.44		04/29/17 21:51	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.2	1.44		04/29/17 21:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.44		04/29/17 21:51	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	4.4	0.74	1.44		04/29/17 21:51	95-50-1	
1,3-Dichlorobenzene	4.9	ug/m3	4.4	0.76	1.44		04/29/17 21:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.4	0.72	1.44		04/29/17 21:51	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.5	0.69	1.44		04/29/17 21:51	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.23	1.44		04/29/17 21:51	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	0.30	1.44		04/29/17 21:51	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.34	1.44		04/29/17 21:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.35	1.44		04/29/17 21:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.55	1.44		04/29/17 21:51	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.39	1.44		04/29/17 21:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.53	1.44		04/29/17 21:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3.3	0.37	1.44		04/29/17 21:51	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.45	1.44		04/29/17 21:51	76-14-2	
Ethanol	4.9	ug/m3	1.4	0.38	1.44		04/29/17 21:51	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.50	1.44		04/29/17 21:51	141-78-6	
Ethylbenzene	3.3	ug/m3	1.3	0.61	1.44		04/29/17 21:51	100-41-4	
4-Ethyltoluene	3.7	ug/m3	3.6	0.27	1.44		04/29/17 21:51	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.40	1.44		04/29/17 21:51	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	0.94	1.44		04/29/17 21:51	87-68-3	
n-Hexane	5.2	ug/m3	1.0	0.51	1.44		04/29/17 21:51	110-54-3	
2-Hexanone	ND	ug/m3	6.0	0.59	1.44		04/29/17 21:51	591-78-6	
Methylene Chloride	ND	ug/m3	5.1	0.78	1.44		04/29/17 21:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.0	0.31	1.44		04/29/17 21:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.3	0.44	1.44		04/29/17 21:51	1634-04-4	
Naphthalene	13.7	ug/m3	7.7	0.44	1.44		04/29/17 21:51	91-20-3	
2-Propanol	17.7	ug/m3	3.6	0.35	1.44		04/29/17 21:51	67-63-0	
Propylene	1.8	ug/m3	0.50	0.19	1.44		04/29/17 21:51	115-07-1	
Styrene	2.4	ug/m3	1.3	0.28	1.44		04/29/17 21:51	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.47	1.44		04/29/17 21:51	79-34-5	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior Former MGP

Pace Project No.: 10386417

**Sample: VP002**      **Lab ID: 10386417002**      Collected: 04/04/17 10:15      Received: 04/25/17 18:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrachloroethene	<b>11.6</b>	ug/m3	0.99	0.40	1.44		04/29/17 21:51	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.86	0.17	1.44		04/29/17 21:51	109-99-9	
Toluene	<b>5.1</b>	ug/m3	1.1	0.22	1.44		04/29/17 21:51	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10.9	1.3	1.44		04/29/17 21:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.6	0.36	1.44		04/29/17 21:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.79	0.35	1.44		04/29/17 21:51	79-00-5	
Trichloroethene	ND	ug/m3	0.79	0.40	1.44		04/29/17 21:51	79-01-6	
Trichlorofluoromethane	<b>2.1</b>	ug/m3	1.6	0.19	1.44		04/29/17 21:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	0.43	1.44		04/29/17 21:51	76-13-1	
1,2,4-Trimethylbenzene	<b>19.1</b>	ug/m3	1.4	0.18	1.44		04/29/17 21:51	95-63-6	
1,3,5-Trimethylbenzene	<b>4.8</b>	ug/m3	1.4	0.26	1.44		04/29/17 21:51	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.48	1.44		04/29/17 21:51	108-05-4	
Vinyl chloride	ND	ug/m3	0.37	0.28	1.44		04/29/17 21:51	75-01-4	
m&p-Xylene	<b>14.4</b>	ug/m3	2.5	1.1	1.44		04/29/17 21:51	179601-23-1	
o-Xylene	<b>5.5</b>	ug/m3	1.3	0.51	1.44		04/29/17 21:51	95-47-6	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior Former MGP

Sample Project No.: 10386417

**Sample: VP003**      **Lab ID: 10386417003**      Collected: 04/04/17 10:35      Received: 04/25/17 18:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Acetone	ND	ug/m3	3.6	1.2	1.49		04/29/17 22:48	67-64-1	
Benzene	ND	ug/m3	0.48	0.18	1.49		04/29/17 22:48	71-43-2	
Benzyl chloride	ND	ug/m3	3.9	0.25	1.49		04/29/17 22:48	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.29	1.49		04/29/17 22:48	75-27-4	
Bromoform	ND	ug/m3	7.8	1.3	1.49		04/29/17 22:48	75-25-2	
Bromomethane	ND	ug/m3	1.2	0.46	1.49		04/29/17 22:48	74-83-9	
1,3-Butadiene	ND	ug/m3	0.67	0.26	1.49		04/29/17 22:48	106-99-0	
2-Butanone (MEK)	<b>21.4</b>	ug/m3	4.5	0.34	1.49		04/29/17 22:48	78-93-3	
Carbon disulfide	ND	ug/m3	0.94	0.15	1.49		04/29/17 22:48	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.95	0.29	1.49		04/29/17 22:48	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.20	1.49		04/29/17 22:48	108-90-7	
Chloroethane	ND	ug/m3	0.80	0.29	1.49		04/29/17 22:48	75-00-3	
Chloroform	ND	ug/m3	0.74	0.28	1.49		04/29/17 22:48	67-66-3	
Chloromethane	ND	ug/m3	0.63	0.16	1.49		04/29/17 22:48	74-87-3	
Cyclohexane	ND	ug/m3	1.0	0.47	1.49		04/29/17 22:48	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	1.3	1.49		04/29/17 22:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.3	1.2	1.49		04/29/17 22:48	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	4.6	0.76	1.49		04/29/17 22:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	4.6	0.79	1.49		04/29/17 22:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.6	0.74	1.49		04/29/17 22:48	106-46-7	
Dichlorodifluoromethane	<b>13.2</b>	ug/m3	1.5	0.72	1.49		04/29/17 22:48	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.23	1.49		04/29/17 22:48	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.61	0.31	1.49		04/29/17 22:48	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.35	1.49		04/29/17 22:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.37	1.49		04/29/17 22:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.57	1.49		04/29/17 22:48	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.40	1.49		04/29/17 22:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	0.55	1.49		04/29/17 22:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3.4	0.39	1.49		04/29/17 22:48	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.1	0.46	1.49		04/29/17 22:48	76-14-2	
Ethanol	<b>2.7</b>	ug/m3	1.4	0.39	1.49		04/29/17 22:48	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.52	1.49		04/29/17 22:48	141-78-6	
Ethylbenzene	<b>1.4</b>	ug/m3	1.3	0.63	1.49		04/29/17 22:48	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.7	0.28	1.49		04/29/17 22:48	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.42	1.49		04/29/17 22:48	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.2	0.97	1.49		04/29/17 22:48	87-68-3	
n-Hexane	<b>3.0</b>	ug/m3	1.1	0.53	1.49		04/29/17 22:48	110-54-3	
2-Hexanone	ND	ug/m3	6.2	0.61	1.49		04/29/17 22:48	591-78-6	
Methylene Chloride	ND	ug/m3	5.3	0.81	1.49		04/29/17 22:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.2	0.32	1.49		04/29/17 22:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.5	0.45	1.49		04/29/17 22:48	1634-04-4	
Naphthalene	ND	ug/m3	7.9	0.45	1.49		04/29/17 22:48	91-20-3	
2-Propanol	<b>9.1</b>	ug/m3	3.7	0.36	1.49		04/29/17 22:48	67-63-0	
Propylene	<b>0.85</b>	ug/m3	0.52	0.20	1.49		04/29/17 22:48	115-07-1	
Styrene	<b>1.5</b>	ug/m3	1.3	0.29	1.49		04/29/17 22:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.49	1.49		04/29/17 22:48	79-34-5	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior Former MGP

Pace Project No.: 10386417

**Sample: VP003**      **Lab ID: 10386417003**      Collected: 04/04/17 10:35      Received: 04/25/17 18:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrachloroethene	<b>9.3</b>	ug/m3	1.0	0.41	1.49		04/29/17 22:48	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.89	0.18	1.49		04/29/17 22:48	109-99-9	
Toluene	<b>3.6</b>	ug/m3	1.1	0.23	1.49		04/29/17 22:48	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	11.2	1.4	1.49		04/29/17 22:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.7	0.37	1.49		04/29/17 22:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.82	0.37	1.49		04/29/17 22:48	79-00-5	
Trichloroethene	ND	ug/m3	0.82	0.41	1.49		04/29/17 22:48	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	0.20	1.49		04/29/17 22:48	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	0.45	1.49		04/29/17 22:48	76-13-1	
1,2,4-Trimethylbenzene	<b>7.8</b>	ug/m3	1.5	0.19	1.49		04/29/17 22:48	95-63-6	
1,3,5-Trimethylbenzene	<b>1.8</b>	ug/m3	1.5	0.27	1.49		04/29/17 22:48	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	0.49	1.49		04/29/17 22:48	108-05-4	
Vinyl chloride	ND	ug/m3	0.39	0.29	1.49		04/29/17 22:48	75-01-4	
m&p-Xylene	<b>6.5</b>	ug/m3	2.6	1.2	1.49		04/29/17 22:48	179601-23-1	
o-Xylene	<b>2.4</b>	ug/m3	1.3	0.52	1.49		04/29/17 22:48	95-47-6	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior Former MGP

Sample Project No.: 10386417

**Sample: VP004**      **Lab ID: 10386417004**      Collected: 04/04/17 11:15      Received: 04/25/17 18:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Acetone	4.2	ug/m3	3.6	1.2	1.49		04/29/17 23:18	67-64-1	
Benzene	ND	ug/m3	0.48	0.18	1.49		04/29/17 23:18	71-43-2	
Benzyl chloride	ND	ug/m3	3.9	0.25	1.49		04/29/17 23:18	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.29	1.49		04/29/17 23:18	75-27-4	
Bromoform	ND	ug/m3	7.8	1.3	1.49		04/29/17 23:18	75-25-2	
Bromomethane	ND	ug/m3	1.2	0.46	1.49		04/29/17 23:18	74-83-9	
1,3-Butadiene	ND	ug/m3	0.67	0.26	1.49		04/29/17 23:18	106-99-0	
2-Butanone (MEK)	26.9	ug/m3	4.5	0.34	1.49		04/29/17 23:18	78-93-3	
Carbon disulfide	ND	ug/m3	0.94	0.15	1.49		04/29/17 23:18	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.95	0.29	1.49		04/29/17 23:18	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.20	1.49		04/29/17 23:18	108-90-7	
Chloroethane	ND	ug/m3	0.80	0.29	1.49		04/29/17 23:18	75-00-3	
Chloroform	ND	ug/m3	0.74	0.28	1.49		04/29/17 23:18	67-66-3	
Chloromethane	ND	ug/m3	0.63	0.16	1.49		04/29/17 23:18	74-87-3	
Cyclohexane	ND	ug/m3	1.0	0.47	1.49		04/29/17 23:18	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	1.3	1.49		04/29/17 23:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.3	1.2	1.49		04/29/17 23:18	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	4.6	0.76	1.49		04/29/17 23:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	4.6	0.79	1.49		04/29/17 23:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.6	0.74	1.49		04/29/17 23:18	106-46-7	
Dichlorodifluoromethane	3.0	ug/m3	1.5	0.72	1.49		04/29/17 23:18	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.23	1.49		04/29/17 23:18	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.61	0.31	1.49		04/29/17 23:18	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.35	1.49		04/29/17 23:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.37	1.49		04/29/17 23:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.57	1.49		04/29/17 23:18	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.40	1.49		04/29/17 23:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	0.55	1.49		04/29/17 23:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3.4	0.39	1.49		04/29/17 23:18	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.1	0.46	1.49		04/29/17 23:18	76-14-2	
Ethanol	2.6	ug/m3	1.4	0.39	1.49		04/29/17 23:18	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.52	1.49		04/29/17 23:18	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	0.63	1.49		04/29/17 23:18	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.7	0.28	1.49		04/29/17 23:18	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.42	1.49		04/29/17 23:18	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.2	0.97	1.49		04/29/17 23:18	87-68-3	
n-Hexane	3.7	ug/m3	1.1	0.53	1.49		04/29/17 23:18	110-54-3	
2-Hexanone	ND	ug/m3	6.2	0.61	1.49		04/29/17 23:18	591-78-6	
Methylene Chloride	ND	ug/m3	5.3	0.81	1.49		04/29/17 23:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.2	0.32	1.49		04/29/17 23:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.5	0.45	1.49		04/29/17 23:18	1634-04-4	
Naphthalene	ND	ug/m3	7.9	0.45	1.49		04/29/17 23:18	91-20-3	
2-Propanol	10.6	ug/m3	3.7	0.36	1.49		04/29/17 23:18	67-63-0	
Propylene	2.3	ug/m3	0.52	0.20	1.49		04/29/17 23:18	115-07-1	
Styrene	ND	ug/m3	1.3	0.29	1.49		04/29/17 23:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.49	1.49		04/29/17 23:18	79-34-5	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior Former MGP

Pace Project No.: 10386417

**Sample: VP004**      **Lab ID: 10386417004**      Collected: 04/04/17 11:15      Received: 04/25/17 18:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrachloroethene	ND	ug/m3	1.0	0.41	1.49		04/29/17 23:18	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.89	0.18	1.49		04/29/17 23:18	109-99-9	
Toluene	<b>3.1</b>	ug/m3	1.1	0.23	1.49		04/29/17 23:18	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	11.2	1.4	1.49		04/29/17 23:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.7	0.37	1.49		04/29/17 23:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.82	0.37	1.49		04/29/17 23:18	79-00-5	
Trichloroethene	ND	ug/m3	0.82	0.41	1.49		04/29/17 23:18	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	0.20	1.49		04/29/17 23:18	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	0.45	1.49		04/29/17 23:18	76-13-1	
1,2,4-Trimethylbenzene	<b>4.6</b>	ug/m3	1.5	0.19	1.49		04/29/17 23:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	0.27	1.49		04/29/17 23:18	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	0.49	1.49		04/29/17 23:18	108-05-4	
Vinyl chloride	ND	ug/m3	0.39	0.29	1.49		04/29/17 23:18	75-01-4	
m&p-Xylene	<b>4.8</b>	ug/m3	2.6	1.2	1.49		04/29/17 23:18	179601-23-1	
o-Xylene	<b>1.9</b>	ug/m3	1.3	0.52	1.49		04/29/17 23:18	95-47-6	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior Former MGP

Sample Project No.: 10386417

Sample: **VP005** Lab ID: **10386417005** Collected: 04/04/17 11:35 Received: 04/25/17 18:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Acetone	<b>8.0</b>	ug/m3	3.0	1.0	1.26		04/29/17 23:49	67-64-1	
Benzene	ND	ug/m3	0.41	0.15	1.26		04/29/17 23:49	71-43-2	
Benzyl chloride	ND	ug/m3	3.3	0.21	1.26		04/29/17 23:49	100-44-7	
Bromodichloromethane	ND	ug/m3	1.7	0.24	1.26		04/29/17 23:49	75-27-4	
Bromoform	ND	ug/m3	6.6	1.1	1.26		04/29/17 23:49	75-25-2	
Bromomethane	ND	ug/m3	1.0	0.39	1.26		04/29/17 23:49	74-83-9	
1,3-Butadiene	ND	ug/m3	0.57	0.22	1.26		04/29/17 23:49	106-99-0	
2-Butanone (MEK)	<b>50.0</b>	ug/m3	3.8	0.29	1.26		04/29/17 23:49	78-93-3	
Carbon disulfide	ND	ug/m3	0.79	0.13	1.26		04/29/17 23:49	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.81	0.24	1.26		04/29/17 23:49	56-23-5	
Chlorobenzene	ND	ug/m3	1.2	0.17	1.26		04/29/17 23:49	108-90-7	
Chloroethane	ND	ug/m3	0.68	0.24	1.26		04/29/17 23:49	75-00-3	
Chloroform	ND	ug/m3	0.62	0.24	1.26		04/29/17 23:49	67-66-3	
Chloromethane	ND	ug/m3	0.53	0.14	1.26		04/29/17 23:49	74-87-3	
Cyclohexane	ND	ug/m3	0.88	0.40	1.26		04/29/17 23:49	110-82-7	
Dibromochloromethane	ND	ug/m3	2.2	1.1	1.26		04/29/17 23:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.0	0.98	1.26		04/29/17 23:49	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	3.8	0.65	1.26		04/29/17 23:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	3.8	0.67	1.26		04/29/17 23:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	3.8	0.63	1.26		04/29/17 23:49	106-46-7	
Dichlorodifluoromethane	<b>2.4</b>	ug/m3	1.3	0.60	1.26		04/29/17 23:49	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.0	0.20	1.26		04/29/17 23:49	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.52	0.26	1.26		04/29/17 23:49	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.0	0.30	1.26		04/29/17 23:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.0	0.31	1.26		04/29/17 23:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.0	0.48	1.26		04/29/17 23:49	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.2	0.34	1.26		04/29/17 23:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	0.46	1.26		04/29/17 23:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.9	0.33	1.26		04/29/17 23:49	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.8	0.39	1.26		04/29/17 23:49	76-14-2	
Ethanol	<b>5.7</b>	ug/m3	1.2	0.33	1.26		04/29/17 23:49	64-17-5	
Ethyl acetate	ND	ug/m3	0.92	0.44	1.26		04/29/17 23:49	141-78-6	
Ethylbenzene	ND	ug/m3	1.1	0.54	1.26		04/29/17 23:49	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.1	0.24	1.26		04/29/17 23:49	622-96-8	
n-Heptane	ND	ug/m3	1.0	0.35	1.26		04/29/17 23:49	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.7	0.82	1.26		04/29/17 23:49	87-68-3	
n-Hexane	<b>12.9</b>	ug/m3	0.91	0.45	1.26		04/29/17 23:49	110-54-3	
2-Hexanone	ND	ug/m3	5.2	0.52	1.26		04/29/17 23:49	591-78-6	
Methylene Chloride	<b>12.4</b>	ug/m3	4.4	0.68	1.26		04/29/17 23:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.2	0.27	1.26		04/29/17 23:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.6	0.38	1.26		04/29/17 23:49	1634-04-4	
Naphthalene	ND	ug/m3	6.7	0.38	1.26		04/29/17 23:49	91-20-3	
2-Propanol	<b>21.2</b>	ug/m3	3.2	0.30	1.26		04/29/17 23:49	67-63-0	
Propylene	<b>8.3</b>	ug/m3	0.44	0.17	1.26		04/29/17 23:49	115-07-1	
Styrene	ND	ug/m3	1.1	0.24	1.26		04/29/17 23:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.88	0.41	1.26		04/29/17 23:49	79-34-5	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior Former MGP

Pace Project No.: 10386417

**Sample: VP005**      **Lab ID: 10386417005**      Collected: 04/04/17 11:35      Received: 04/25/17 18:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrachloroethene	ND	ug/m3	0.87	0.35	1.26		04/29/17 23:49	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.76	0.15	1.26		04/29/17 23:49	109-99-9	
Toluene	<b>5.2</b>	ug/m3	0.97	0.19	1.26		04/29/17 23:49	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	9.5	1.1	1.26		04/29/17 23:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.4	0.31	1.26		04/29/17 23:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.69	0.31	1.26		04/29/17 23:49	79-00-5	
Trichloroethene	ND	ug/m3	0.69	0.35	1.26		04/29/17 23:49	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.4	0.17	1.26		04/29/17 23:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.0	0.38	1.26		04/29/17 23:49	76-13-1	
1,2,4-Trimethylbenzene	<b>3.8</b>	ug/m3	1.3	0.16	1.26		04/29/17 23:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.3	0.23	1.26		04/29/17 23:49	108-67-8	
Vinyl acetate	ND	ug/m3	0.90	0.42	1.26		04/29/17 23:49	108-05-4	
Vinyl chloride	ND	ug/m3	0.33	0.25	1.26		04/29/17 23:49	75-01-4	
m&p-Xylene	<b>4.3</b>	ug/m3	2.2	0.99	1.26		04/29/17 23:49	179601-23-1	
o-Xylene	<b>1.7</b>	ug/m3	1.1	0.44	1.26		04/29/17 23:49	95-47-6	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior Former MGP

Sample Project No.: 10386417

Sample: **VP006** Lab ID: **10386417006** Collected: 04/04/17 11:45 Received: 04/25/17 18:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Acetone	<b>18.8</b>	ug/m3	3.0	1.0	1.26		04/30/17 00:19	67-64-1	
Benzene	<b>0.71</b>	ug/m3	0.41	0.15	1.26		04/30/17 00:19	71-43-2	
Benzyl chloride	ND	ug/m3	3.3	0.21	1.26		04/30/17 00:19	100-44-7	
Bromodichloromethane	ND	ug/m3	1.7	0.24	1.26		04/30/17 00:19	75-27-4	
Bromoform	ND	ug/m3	6.6	1.1	1.26		04/30/17 00:19	75-25-2	
Bromomethane	ND	ug/m3	1.0	0.39	1.26		04/30/17 00:19	74-83-9	
1,3-Butadiene	ND	ug/m3	0.57	0.22	1.26		04/30/17 00:19	106-99-0	
2-Butanone (MEK)	<b>158</b>	ug/m3	3.8	0.29	1.26		04/30/17 00:19	78-93-3	E
Carbon disulfide	<b>3.7</b>	ug/m3	0.79	0.13	1.26		04/30/17 00:19	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.81	0.24	1.26		04/30/17 00:19	56-23-5	
Chlorobenzene	ND	ug/m3	1.2	0.17	1.26		04/30/17 00:19	108-90-7	
Chloroethane	ND	ug/m3	0.68	0.24	1.26		04/30/17 00:19	75-00-3	
Chloroform	ND	ug/m3	0.62	0.24	1.26		04/30/17 00:19	67-66-3	
Chloromethane	ND	ug/m3	0.53	0.14	1.26		04/30/17 00:19	74-87-3	
Cyclohexane	ND	ug/m3	0.88	0.40	1.26		04/30/17 00:19	110-82-7	
Dibromochloromethane	ND	ug/m3	2.2	1.1	1.26		04/30/17 00:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.0	0.98	1.26		04/30/17 00:19	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	3.8	0.65	1.26		04/30/17 00:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	3.8	0.67	1.26		04/30/17 00:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	3.8	0.63	1.26		04/30/17 00:19	106-46-7	
Dichlorodifluoromethane	<b>2.0</b>	ug/m3	1.3	0.60	1.26		04/30/17 00:19	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.0	0.20	1.26		04/30/17 00:19	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.52	0.26	1.26		04/30/17 00:19	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.0	0.30	1.26		04/30/17 00:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.0	0.31	1.26		04/30/17 00:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.0	0.48	1.26		04/30/17 00:19	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.2	0.34	1.26		04/30/17 00:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	0.46	1.26		04/30/17 00:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.9	0.33	1.26		04/30/17 00:19	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.8	0.39	1.26		04/30/17 00:19	76-14-2	
Ethanol	<b>15.9</b>	ug/m3	1.2	0.33	1.26		04/30/17 00:19	64-17-5	
Ethyl acetate	ND	ug/m3	0.92	0.44	1.26		04/30/17 00:19	141-78-6	
Ethylbenzene	<b>2.9</b>	ug/m3	1.1	0.54	1.26		04/30/17 00:19	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.1	0.24	1.26		04/30/17 00:19	622-96-8	
n-Heptane	<b>1.2</b>	ug/m3	1.0	0.35	1.26		04/30/17 00:19	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.7	0.82	1.26		04/30/17 00:19	87-68-3	
n-Hexane	<b>21.9</b>	ug/m3	0.91	0.45	1.26		04/30/17 00:19	110-54-3	
2-Hexanone	ND	ug/m3	5.2	0.52	1.26		04/30/17 00:19	591-78-6	
Methylene Chloride	ND	ug/m3	4.4	0.68	1.26		04/30/17 00:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.2	0.27	1.26		04/30/17 00:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.6	0.38	1.26		04/30/17 00:19	1634-04-4	
Naphthalene	<b>15.9</b>	ug/m3	6.7	0.38	1.26		04/30/17 00:19	91-20-3	
2-Propanol	<b>18.0</b>	ug/m3	3.2	0.30	1.26		04/30/17 00:19	67-63-0	
Propylene	<b>41.5</b>	ug/m3	0.44	0.17	1.26		04/30/17 00:19	115-07-1	
Styrene	ND	ug/m3	1.1	0.24	1.26		04/30/17 00:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.88	0.41	1.26		04/30/17 00:19	79-34-5	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior Former MGP

Pace Project No.: 10386417

**Sample: VP006**      **Lab ID: 10386417006**      Collected: 04/04/17 11:45      Received: 04/25/17 18:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrachloroethene	ND	ug/m3	0.87	0.35	1.26		04/30/17 00:19	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.76	0.15	1.26		04/30/17 00:19	109-99-9	
Toluene	<b>8.7</b>	ug/m3	0.97	0.19	1.26		04/30/17 00:19	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	9.5	1.1	1.26		04/30/17 00:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.4	0.31	1.26		04/30/17 00:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.69	0.31	1.26		04/30/17 00:19	79-00-5	
Trichloroethene	ND	ug/m3	0.69	0.35	1.26		04/30/17 00:19	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.4	0.17	1.26		04/30/17 00:19	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.0	0.38	1.26		04/30/17 00:19	76-13-1	
1,2,4-Trimethylbenzene	<b>11.2</b>	ug/m3	1.3	0.16	1.26		04/30/17 00:19	95-63-6	
1,3,5-Trimethylbenzene	<b>2.1</b>	ug/m3	1.3	0.23	1.26		04/30/17 00:19	108-67-8	
Vinyl acetate	ND	ug/m3	0.90	0.42	1.26		04/30/17 00:19	108-05-4	
Vinyl chloride	ND	ug/m3	0.33	0.25	1.26		04/30/17 00:19	75-01-4	
m&p-Xylene	<b>11.9</b>	ug/m3	2.2	0.99	1.26		04/30/17 00:19	179601-23-1	
o-Xylene	<b>3.9</b>	ug/m3	1.1	0.44	1.26		04/30/17 00:19	95-47-6	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior Former MGP

Sample Project No.: 10386417

**Sample: VP007**      **Lab ID: 10386417007**      Collected: 04/04/17 12:15      Received: 04/25/17 18:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Acetone	5.2	ug/m3	3.0	1.0	1.26		04/30/17 00:50	67-64-1	
Benzene	1.1	ug/m3	0.41	0.15	1.26		04/30/17 00:50	71-43-2	
Benzyl chloride	ND	ug/m3	3.3	0.21	1.26		04/30/17 00:50	100-44-7	
Bromodichloromethane	ND	ug/m3	1.7	0.24	1.26		04/30/17 00:50	75-27-4	
Bromoform	ND	ug/m3	6.6	1.1	1.26		04/30/17 00:50	75-25-2	
Bromomethane	ND	ug/m3	1.0	0.39	1.26		04/30/17 00:50	74-83-9	
1,3-Butadiene	ND	ug/m3	0.57	0.22	1.26		04/30/17 00:50	106-99-0	
2-Butanone (MEK)	61.9	ug/m3	3.8	0.29	1.26		04/30/17 00:50	78-93-3	
Carbon disulfide	ND	ug/m3	0.79	0.13	1.26		04/30/17 00:50	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.81	0.24	1.26		04/30/17 00:50	56-23-5	
Chlorobenzene	ND	ug/m3	1.2	0.17	1.26		04/30/17 00:50	108-90-7	
Chloroethane	ND	ug/m3	0.68	0.24	1.26		04/30/17 00:50	75-00-3	
Chloroform	ND	ug/m3	0.62	0.24	1.26		04/30/17 00:50	67-66-3	
Chloromethane	ND	ug/m3	0.53	0.14	1.26		04/30/17 00:50	74-87-3	
Cyclohexane	ND	ug/m3	0.88	0.40	1.26		04/30/17 00:50	110-82-7	
Dibromochloromethane	ND	ug/m3	2.2	1.1	1.26		04/30/17 00:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.0	0.98	1.26		04/30/17 00:50	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	3.8	0.65	1.26		04/30/17 00:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	3.8	0.67	1.26		04/30/17 00:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	3.8	0.63	1.26		04/30/17 00:50	106-46-7	
Dichlorodifluoromethane	2.3	ug/m3	1.3	0.60	1.26		04/30/17 00:50	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.0	0.20	1.26		04/30/17 00:50	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.52	0.26	1.26		04/30/17 00:50	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.0	0.30	1.26		04/30/17 00:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.0	0.31	1.26		04/30/17 00:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.0	0.48	1.26		04/30/17 00:50	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.2	0.34	1.26		04/30/17 00:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	0.46	1.26		04/30/17 00:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.9	0.33	1.26		04/30/17 00:50	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.8	0.39	1.26		04/30/17 00:50	76-14-2	
Ethanol	4.3	ug/m3	1.2	0.33	1.26		04/30/17 00:50	64-17-5	
Ethyl acetate	ND	ug/m3	0.92	0.44	1.26		04/30/17 00:50	141-78-6	
Ethylbenzene	1.2	ug/m3	1.1	0.54	1.26		04/30/17 00:50	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.1	0.24	1.26		04/30/17 00:50	622-96-8	
n-Heptane	ND	ug/m3	1.0	0.35	1.26		04/30/17 00:50	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.7	0.82	1.26		04/30/17 00:50	87-68-3	
n-Hexane	8.1	ug/m3	0.91	0.45	1.26		04/30/17 00:50	110-54-3	
2-Hexanone	ND	ug/m3	5.2	0.52	1.26		04/30/17 00:50	591-78-6	
Methylene Chloride	ND	ug/m3	4.4	0.68	1.26		04/30/17 00:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.2	0.27	1.26		04/30/17 00:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.6	0.38	1.26		04/30/17 00:50	1634-04-4	
Naphthalene	ND	ug/m3	6.7	0.38	1.26		04/30/17 00:50	91-20-3	
2-Propanol	7.1	ug/m3	3.2	0.30	1.26		04/30/17 00:50	67-63-0	
Propylene	8.3	ug/m3	0.44	0.17	1.26		04/30/17 00:50	115-07-1	
Styrene	ND	ug/m3	1.1	0.24	1.26		04/30/17 00:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.88	0.41	1.26		04/30/17 00:50	79-34-5	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior Former MGP

Pace Project No.: 10386417

**Sample: VP007**      **Lab ID: 10386417007**      Collected: 04/04/17 12:15      Received: 04/25/17 18:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrachloroethene	2.4	ug/m3	0.87	0.35	1.26		04/30/17 00:50	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.76	0.15	1.26		04/30/17 00:50	109-99-9	
Toluene	2.8	ug/m3	0.97	0.19	1.26		04/30/17 00:50	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	9.5	1.1	1.26		04/30/17 00:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.4	0.31	1.26		04/30/17 00:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.69	0.31	1.26		04/30/17 00:50	79-00-5	
Trichloroethene	ND	ug/m3	0.69	0.35	1.26		04/30/17 00:50	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.4	0.17	1.26		04/30/17 00:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.0	0.38	1.26		04/30/17 00:50	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.3	0.16	1.26		04/30/17 00:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.3	0.23	1.26		04/30/17 00:50	108-67-8	
Vinyl acetate	ND	ug/m3	0.90	0.42	1.26		04/30/17 00:50	108-05-4	
Vinyl chloride	ND	ug/m3	0.33	0.25	1.26		04/30/17 00:50	75-01-4	
m&p-Xylene	4.8	ug/m3	2.2	0.99	1.26		04/30/17 00:50	179601-23-1	
o-Xylene	1.5	ug/m3	1.1	0.44	1.26		04/30/17 00:50	95-47-6	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior Former MGP

Sample Project No.: 10386417

**Sample: VP008**      **Lab ID: 10386417008**      Collected: 04/04/17 12:30      Received: 04/25/17 18:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Acetone	ND	ug/m3	3.0	1.0	1.26		04/30/17 01:20	67-64-1	
Benzene	ND	ug/m3	0.41	0.15	1.26		04/30/17 01:20	71-43-2	
Benzyl chloride	ND	ug/m3	3.3	0.21	1.26		04/30/17 01:20	100-44-7	
Bromodichloromethane	ND	ug/m3	1.7	0.24	1.26		04/30/17 01:20	75-27-4	
Bromoform	ND	ug/m3	6.6	1.1	1.26		04/30/17 01:20	75-25-2	
Bromomethane	ND	ug/m3	1.0	0.39	1.26		04/30/17 01:20	74-83-9	
1,3-Butadiene	ND	ug/m3	0.57	0.22	1.26		04/30/17 01:20	106-99-0	
2-Butanone (MEK)	<b>14.6</b>	ug/m3	3.8	0.29	1.26		04/30/17 01:20	78-93-3	
Carbon disulfide	ND	ug/m3	0.79	0.13	1.26		04/30/17 01:20	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.81	0.24	1.26		04/30/17 01:20	56-23-5	
Chlorobenzene	ND	ug/m3	1.2	0.17	1.26		04/30/17 01:20	108-90-7	
Chloroethane	ND	ug/m3	0.68	0.24	1.26		04/30/17 01:20	75-00-3	
Chloroform	<b>1.4</b>	ug/m3	0.62	0.24	1.26		04/30/17 01:20	67-66-3	
Chloromethane	ND	ug/m3	0.53	0.14	1.26		04/30/17 01:20	74-87-3	
Cyclohexane	ND	ug/m3	0.88	0.40	1.26		04/30/17 01:20	110-82-7	
Dibromochloromethane	ND	ug/m3	2.2	1.1	1.26		04/30/17 01:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.0	0.98	1.26		04/30/17 01:20	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	3.8	0.65	1.26		04/30/17 01:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	3.8	0.67	1.26		04/30/17 01:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	3.8	0.63	1.26		04/30/17 01:20	106-46-7	
Dichlorodifluoromethane	<b>1.9</b>	ug/m3	1.3	0.60	1.26		04/30/17 01:20	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.0	0.20	1.26		04/30/17 01:20	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.52	0.26	1.26		04/30/17 01:20	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.0	0.30	1.26		04/30/17 01:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.0	0.31	1.26		04/30/17 01:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.0	0.48	1.26		04/30/17 01:20	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.2	0.34	1.26		04/30/17 01:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	0.46	1.26		04/30/17 01:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.9	0.33	1.26		04/30/17 01:20	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.8	0.39	1.26		04/30/17 01:20	76-14-2	
Ethanol	ND	ug/m3	1.2	0.33	1.26		04/30/17 01:20	64-17-5	
Ethyl acetate	ND	ug/m3	0.92	0.44	1.26		04/30/17 01:20	141-78-6	
Ethylbenzene	ND	ug/m3	1.1	0.54	1.26		04/30/17 01:20	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.1	0.24	1.26		04/30/17 01:20	622-96-8	
n-Heptane	ND	ug/m3	1.0	0.35	1.26		04/30/17 01:20	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.7	0.82	1.26		04/30/17 01:20	87-68-3	
n-Hexane	<b>2.0</b>	ug/m3	0.91	0.45	1.26		04/30/17 01:20	110-54-3	
2-Hexanone	ND	ug/m3	5.2	0.52	1.26		04/30/17 01:20	591-78-6	
Methylene Chloride	ND	ug/m3	4.4	0.68	1.26		04/30/17 01:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.2	0.27	1.26		04/30/17 01:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.6	0.38	1.26		04/30/17 01:20	1634-04-4	
Naphthalene	ND	ug/m3	6.7	0.38	1.26		04/30/17 01:20	91-20-3	
2-Propanol	ND	ug/m3	3.2	0.30	1.26		04/30/17 01:20	67-63-0	
Propylene	<b>1.0</b>	ug/m3	0.44	0.17	1.26		04/30/17 01:20	115-07-1	
Styrene	ND	ug/m3	1.1	0.24	1.26		04/30/17 01:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.88	0.41	1.26		04/30/17 01:20	79-34-5	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior Former MGP

Pace Project No.: 10386417

**Sample: VP008**      **Lab ID: 10386417008**      Collected: 04/04/17 12:30      Received: 04/25/17 18:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrachloroethene	ND	ug/m3	0.87	0.35	1.26		04/30/17 01:20	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.76	0.15	1.26		04/30/17 01:20	109-99-9	
Toluene	ND	ug/m3	0.97	0.19	1.26		04/30/17 01:20	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	9.5	1.1	1.26		04/30/17 01:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.4	0.31	1.26		04/30/17 01:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.69	0.31	1.26		04/30/17 01:20	79-00-5	
Trichloroethene	ND	ug/m3	0.69	0.35	1.26		04/30/17 01:20	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.4	0.17	1.26		04/30/17 01:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.0	0.38	1.26		04/30/17 01:20	76-13-1	
1,2,4-Trimethylbenzene	<b>1.6</b>	ug/m3	1.3	0.16	1.26		04/30/17 01:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.3	0.23	1.26		04/30/17 01:20	108-67-8	
Vinyl acetate	ND	ug/m3	0.90	0.42	1.26		04/30/17 01:20	108-05-4	
Vinyl chloride	ND	ug/m3	0.33	0.25	1.26		04/30/17 01:20	75-01-4	
m&p-Xylene	ND	ug/m3	2.2	0.99	1.26		04/30/17 01:20	179601-23-1	
o-Xylene	ND	ug/m3	1.1	0.44	1.26		04/30/17 01:20	95-47-6	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior Former MGP

Sample Project No.: 10386417

Sample: **VP009** Lab ID: **10386417009** Collected: 04/04/17 12:55 Received: 04/25/17 18:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Acetone	ND	ug/m3	3.6	1.2	1.49		04/30/17 01:52	67-64-1	
Benzene	ND	ug/m3	0.48	0.18	1.49		04/30/17 01:52	71-43-2	
Benzyl chloride	ND	ug/m3	3.9	0.25	1.49		04/30/17 01:52	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.29	1.49		04/30/17 01:52	75-27-4	
Bromoform	ND	ug/m3	7.8	1.3	1.49		04/30/17 01:52	75-25-2	
Bromomethane	ND	ug/m3	1.2	0.46	1.49		04/30/17 01:52	74-83-9	
1,3-Butadiene	ND	ug/m3	0.67	0.26	1.49		04/30/17 01:52	106-99-0	
2-Butanone (MEK)	<b>16.4</b>	ug/m3	4.5	0.34	1.49		04/30/17 01:52	78-93-3	
Carbon disulfide	ND	ug/m3	0.94	0.15	1.49		04/30/17 01:52	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.95	0.29	1.49		04/30/17 01:52	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.20	1.49		04/30/17 01:52	108-90-7	
Chloroethane	ND	ug/m3	0.80	0.29	1.49		04/30/17 01:52	75-00-3	
Chloroform	ND	ug/m3	0.74	0.28	1.49		04/30/17 01:52	67-66-3	
Chloromethane	<b>0.63</b>	ug/m3	0.63	0.16	1.49		04/30/17 01:52	74-87-3	
Cyclohexane	ND	ug/m3	1.0	0.47	1.49		04/30/17 01:52	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	1.3	1.49		04/30/17 01:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.3	1.2	1.49		04/30/17 01:52	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	4.6	0.76	1.49		04/30/17 01:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	4.6	0.79	1.49		04/30/17 01:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.6	0.74	1.49		04/30/17 01:52	106-46-7	
Dichlorodifluoromethane	<b>2.5</b>	ug/m3	1.5	0.72	1.49		04/30/17 01:52	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.23	1.49		04/30/17 01:52	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.61	0.31	1.49		04/30/17 01:52	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.35	1.49		04/30/17 01:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.37	1.49		04/30/17 01:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.57	1.49		04/30/17 01:52	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.40	1.49		04/30/17 01:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	0.55	1.49		04/30/17 01:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3.4	0.39	1.49		04/30/17 01:52	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.1	0.46	1.49		04/30/17 01:52	76-14-2	
Ethanol	<b>2.1</b>	ug/m3	1.4	0.39	1.49		04/30/17 01:52	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.52	1.49		04/30/17 01:52	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	0.63	1.49		04/30/17 01:52	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.7	0.28	1.49		04/30/17 01:52	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.42	1.49		04/30/17 01:52	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.2	0.97	1.49		04/30/17 01:52	87-68-3	
n-Hexane	<b>2.5</b>	ug/m3	1.1	0.53	1.49		04/30/17 01:52	110-54-3	
2-Hexanone	ND	ug/m3	6.2	0.61	1.49		04/30/17 01:52	591-78-6	
Methylene Chloride	ND	ug/m3	5.3	0.81	1.49		04/30/17 01:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.2	0.32	1.49		04/30/17 01:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.5	0.45	1.49		04/30/17 01:52	1634-04-4	
Naphthalene	ND	ug/m3	7.9	0.45	1.49		04/30/17 01:52	91-20-3	
2-Propanol	<b>9.7</b>	ug/m3	3.7	0.36	1.49		04/30/17 01:52	67-63-0	
Propylene	<b>1.9</b>	ug/m3	0.52	0.20	1.49		04/30/17 01:52	115-07-1	
Styrene	ND	ug/m3	1.3	0.29	1.49		04/30/17 01:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.49	1.49		04/30/17 01:52	79-34-5	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior Former MGP

Pace Project No.: 10386417

**Sample: VP009**      **Lab ID: 10386417009**      Collected: 04/04/17 12:55      Received: 04/25/17 18:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Tetrachloroethene	1.1	ug/m3	1.0	0.41	1.49		04/30/17 01:52	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.89	0.18	1.49		04/30/17 01:52	109-99-9	
Toluene	3.2	ug/m3	1.1	0.23	1.49		04/30/17 01:52	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	11.2	1.4	1.49		04/30/17 01:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.7	0.37	1.49		04/30/17 01:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.82	0.37	1.49		04/30/17 01:52	79-00-5	
Trichloroethene	ND	ug/m3	0.82	0.41	1.49		04/30/17 01:52	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	0.20	1.49		04/30/17 01:52	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	0.45	1.49		04/30/17 01:52	76-13-1	
1,2,4-Trimethylbenzene	2.9	ug/m3	1.5	0.19	1.49		04/30/17 01:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	0.27	1.49		04/30/17 01:52	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	0.49	1.49		04/30/17 01:52	108-05-4	
Vinyl chloride	ND	ug/m3	0.39	0.29	1.49		04/30/17 01:52	75-01-4	
m&p-Xylene	3.1	ug/m3	2.6	1.2	1.49		04/30/17 01:52	179601-23-1	
o-Xylene	ND	ug/m3	1.3	0.52	1.49		04/30/17 01:52	95-47-6	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior Former MGP

Pace Project No.: 10386417

QC Batch: 471268 Analysis Method: TO-15  
 QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level  
 Associated Lab Samples: 10386417001, 10386417002, 10386417003, 10386417004, 10386417005, 10386417006, 10386417007, 10386417008, 10386417009

METHOD BLANK: 2572934 Matrix: Air  
 Associated Lab Samples: 10386417001, 10386417002, 10386417003, 10386417004, 10386417005, 10386417006, 10386417007, 10386417008, 10386417009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	04/29/17 14:28	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	04/29/17 14:28	
1,1,2-Trichloroethane	ug/m3	ND	0.55	04/29/17 14:28	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	04/29/17 14:28	
1,1-Dichloroethane	ug/m3	ND	0.82	04/29/17 14:28	
1,1-Dichloroethene	ug/m3	ND	0.81	04/29/17 14:28	
1,2,4-Trichlorobenzene	ug/m3	ND	7.5	04/29/17 14:28	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	04/29/17 14:28	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	04/29/17 14:28	
1,2-Dichlorobenzene	ug/m3	ND	3.1	04/29/17 14:28	
1,2-Dichloroethane	ug/m3	ND	0.41	04/29/17 14:28	
1,2-Dichloropropane	ug/m3	ND	0.94	04/29/17 14:28	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	04/29/17 14:28	
1,3-Butadiene	ug/m3	ND	0.45	04/29/17 14:28	
1,3-Dichlorobenzene	ug/m3	ND	3.1	04/29/17 14:28	
1,4-Dichlorobenzene	ug/m3	ND	3.1	04/29/17 14:28	
2-Butanone (MEK)	ug/m3	ND	3.0	04/29/17 14:28	
2-Hexanone	ug/m3	ND	4.2	04/29/17 14:28	
2-Propanol	ug/m3	ND	2.5	04/29/17 14:28	
4-Ethyltoluene	ug/m3	ND	2.5	04/29/17 14:28	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	04/29/17 14:28	
Acetone	ug/m3	ND	2.4	04/29/17 14:28	
Benzene	ug/m3	ND	0.32	04/29/17 14:28	
Benzyl chloride	ug/m3	ND	2.6	04/29/17 14:28	
Bromodichloromethane	ug/m3	ND	1.4	04/29/17 14:28	
Bromoform	ug/m3	ND	5.3	04/29/17 14:28	
Bromomethane	ug/m3	ND	0.79	04/29/17 14:28	
Carbon disulfide	ug/m3	ND	0.63	04/29/17 14:28	
Carbon tetrachloride	ug/m3	ND	0.64	04/29/17 14:28	
Chlorobenzene	ug/m3	ND	0.94	04/29/17 14:28	
Chloroethane	ug/m3	ND	0.54	04/29/17 14:28	
Chloroform	ug/m3	ND	0.50	04/29/17 14:28	
Chloromethane	ug/m3	ND	0.42	04/29/17 14:28	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	04/29/17 14:28	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	04/29/17 14:28	
Cyclohexane	ug/m3	ND	0.70	04/29/17 14:28	
Dibromochloromethane	ug/m3	ND	1.7	04/29/17 14:28	
Dichlorodifluoromethane	ug/m3	ND	1.0	04/29/17 14:28	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	04/29/17 14:28	
Ethanol	ug/m3	ND	0.96	04/29/17 14:28	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior Former MGP

Pace Project No.: 10386417

METHOD BLANK: 2572934

Matrix: Air

Associated Lab Samples: 10386417001, 10386417002, 10386417003, 10386417004, 10386417005, 10386417006, 10386417007, 10386417008, 10386417009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	ND	0.73	04/29/17 14:28	
Ethylbenzene	ug/m3	ND	0.88	04/29/17 14:28	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	04/29/17 14:28	
m&p-Xylene	ug/m3	ND	1.8	04/29/17 14:28	
Methyl-tert-butyl ether	ug/m3	ND	3.7	04/29/17 14:28	
Methylene Chloride	ug/m3	ND	3.5	04/29/17 14:28	
n-Heptane	ug/m3	ND	0.83	04/29/17 14:28	
n-Hexane	ug/m3	ND	0.72	04/29/17 14:28	
Naphthalene	ug/m3	ND	5.3	04/29/17 14:28	
o-Xylene	ug/m3	ND	0.88	04/29/17 14:28	
Propylene	ug/m3	ND	0.35	04/29/17 14:28	
Styrene	ug/m3	ND	0.87	04/29/17 14:28	
Tetrachloroethene	ug/m3	ND	0.69	04/29/17 14:28	
Tetrahydrofuran	ug/m3	ND	0.60	04/29/17 14:28	
Toluene	ug/m3	ND	0.77	04/29/17 14:28	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	04/29/17 14:28	
trans-1,3-Dichloropropene	ug/m3	ND	2.3	04/29/17 14:28	
Trichloroethene	ug/m3	ND	0.55	04/29/17 14:28	
Trichlorofluoromethane	ug/m3	ND	1.1	04/29/17 14:28	
Vinyl acetate	ug/m3	ND	0.72	04/29/17 14:28	
Vinyl chloride	ug/m3	ND	0.26	04/29/17 14:28	

LABORATORY CONTROL SAMPLE: 2572935

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	54.5	98	70-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	73.8	106	70-130	
1,1,2-Trichloroethane	ug/m3	55.5	55.7	100	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	64.9	83	70-130	
1,1-Dichloroethane	ug/m3	41.1	39.6	96	70-130	
1,1-Dichloroethene	ug/m3	40.3	35.3	88	70-130	
1,2,4-Trichlorobenzene	ug/m3	75.4	67.1	89	60-150 SS	
1,2,4-Trimethylbenzene	ug/m3	50	55.5	111	70-136	
1,2-Dibromoethane (EDB)	ug/m3	78.1	80.4	103	70-130	
1,2-Dichlorobenzene	ug/m3	61.1	55.1	90	70-139	
1,2-Dichloroethane	ug/m3	41.1	38.1	93	70-130	
1,2-Dichloropropane	ug/m3	47	49.2	105	70-131	
1,3,5-Trimethylbenzene	ug/m3	50	58.5	117	70-133	
1,3-Butadiene	ug/m3	22.5	19.6	87	70-130	
1,3-Dichlorobenzene	ug/m3	61.1	54.0	88	70-144	
1,4-Dichlorobenzene	ug/m3	61.1	51.7	85	70-139	
2-Butanone (MEK)	ug/m3	30	29.9	100	70-130	
2-Hexanone	ug/m3	104	109	105	70-138	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior Former MGP

Pace Project No.: 10386417

LABORATORY CONTROL SAMPLE: 2572935

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Propanol	ug/m3	125	114	91	70-130	
4-Ethyltoluene	ug/m3	50	50.9	102	70-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	105	101	70-130	
Acetone	ug/m3	121	96.6	80	64-130	
Benzene	ug/m3	32.5	32.9	101	70-130	
Benzyl chloride	ug/m3	52.6	58.4	111	70-144	
Bromodichloromethane	ug/m3	68.1	69.9	103	70-134	
Bromoform	ug/m3	105	92.3	88	70-150	
Bromomethane	ug/m3	39.5	33.1	84	70-130	
Carbon disulfide	ug/m3	31.6	33.3	105	70-134	
Carbon tetrachloride	ug/m3	64	63.0	99	68-150	
Chlorobenzene	ug/m3	46.8	48.0	102	70-132	
Chloroethane	ug/m3	26.8	22.4	84	70-132	
Chloroform	ug/m3	49.6	45.9	93	70-130	
Chloromethane	ug/m3	21	18.9	90	70-130	
cis-1,2-Dichloroethene	ug/m3	40.3	40.5	101	70-133	
cis-1,3-Dichloropropene	ug/m3	46.1	57.4	125	70-137	
Cyclohexane	ug/m3	35	38.3	109	70-130	
Dibromochloromethane	ug/m3	86.6	96.6	112	70-144	
Dichlorodifluoromethane	ug/m3	50.3	42.4	84	70-130	
Dichlorotetrafluoroethane	ug/m3	71	63.1	89	70-130	
Ethanol	ug/m3	91.6	82.7	90	70-136	
Ethyl acetate	ug/m3	36.6	35.9	98	70-130	
Ethylbenzene	ug/m3	44.1	49.4	112	70-134	
Hexachloro-1,3-butadiene	ug/m3	108	106	98	45-150	SS
m&p-Xylene	ug/m3	88.3	95.5	108	70-130	
Methyl-tert-butyl ether	ug/m3	91.6	96.1	105	66-148	
Methylene Chloride	ug/m3	177	143	81	67-133	
n-Heptane	ug/m3	41.6	45.0	108	70-130	
n-Hexane	ug/m3	35.8	35.7	100	67-132	
Naphthalene	ug/m3	53.3	49.0	92	53-150	
o-Xylene	ug/m3	44.1	46.2	105	70-130	
Propylene	ug/m3	17.5	18.0	103	70-135	
Styrene	ug/m3	43.3	50.1	116	70-139	
Tetrachloroethene	ug/m3	68.9	62.6	91	70-130	
Tetrahydrofuran	ug/m3	30	30.6	102	70-130	
Toluene	ug/m3	38.3	40.3	105	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	36.0	89	70-131	
trans-1,3-Dichloropropene	ug/m3	46.1	49.4	107	70-142	
Trichloroethene	ug/m3	54.6	54.8	100	70-130	
Trichlorofluoromethane	ug/m3	57.1	45.9	80	70-130	
Vinyl acetate	ug/m3	35.8	40.3	113	70-137	
Vinyl chloride	ug/m3	26	24.3	94	70-130	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior Former MGP

Pace Project No.: 10386417

SAMPLE DUPLICATE: 2572989

Parameter	Units	10386417001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	5.3	5.7	6	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	1.2J		25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	13.4	17.6	27	25	R1
2-Hexanone	ug/m3	ND	3.7J		25	
2-Propanol	ug/m3	43.9	56.9	26	25	R1
4-Ethyltoluene	ug/m3	ND	.91J		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	11.0	14.3	26	25	R1
Benzene	ug/m3	ND	.25J		25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	47.0	61.0	26	25	R1
Chloromethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	2.4	1.8	29	25	R1
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	26.5	33.4	23	25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	1.5	1.9	23	25	
Ethyl acetate	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	ND	.96J		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	3.9	4.3	10	25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	ND		25	
n-Heptane	ug/m3	ND	ND		25	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior Former MGP

Pace Project No.: 10386417

SAMPLE DUPLICATE: 2572989

Parameter	Units	10386417001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	2.4	2.9	19	25	
Naphthalene	ug/m3	ND	7.2		25	
o-Xylene	ug/m3	1.5	1.6	8	25	
Propylene	ug/m3	0.68	0.83	20	25	
Styrene	ug/m3	1.3	1.4	8	25	
Tetrachloroethene	ug/m3	6.8	7.3	8	25	
Tetrahydrofuran	ug/m3	1.5	2.0	25	25	
Toluene	ug/m3	2.3	3.1	28	25	R1
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	ND	1.9		25	
Vinyl acetate	ug/m3	ND	1.8		25	
Vinyl chloride	ug/m3	ND	ND		25	

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## QUALIFIERS

Project: 2118-0002 Superior Former MGP

Pace Project No.: 10386417

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

### ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

R1 RPD value was outside control limits.

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2118-0002 Superior Former MGP

Pace Project No.: 10386417

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10386417001	VP001	TO-15	471268		
10386417002	VP002	TO-15	471268		
10386417003	VP003	TO-15	471268		
10386417004	VP004	TO-15	471268		
10386417005	VP005	TO-15	471268		
10386417006	VP006	TO-15	471268		
10386417007	VP007	TO-15	471268		
10386417008	VP008	TO-15	471268		
10386417009	VP009	TO-15	471268		

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# AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10386417

Page: 1 of 1

<b>Section A</b> Required Client Information: Company: <u>Summit Environmental</u> Address: <u>1210 11th Street East</u> Email To: <u>Bill Gregg - 55037</u> Phone: <u>763-572-4444</u> Requested Date/TAT: _____		<b>Section B</b> Required Project Information: Report To: <u>Bill Gregg</u> Copy To: _____ Project Name: <u>Superior Home Mkt</u> Project Number: <u>2118-0007</u>		<b>Section C</b> Invoice Information: Attention: <u>Bill Gregg</u> Company Name: _____ Address: _____ Pace Quote Reference: _____ Pace Project Manager/Sales Rep. <u>Kyber Xiong</u> Pace Profile #: _____	
<b>Section D</b> Required Client Information <b>AIR SAMPLE ID</b> Sample IDs MUST BE UNIQUE		Program <input type="checkbox"/> UST Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other Reporting Units ug/m <sup>3</sup> _____ mg/m <sup>3</sup> _____ ppbv _____ ppmv _____ Other _____ Location of Sampling by State _____ Report Level II. _____ III. _____ IV. _____ Other _____			

ITEM #	Valid Media Codes MEDIA Tectar Bag 1 Liter Summa Can 6 Liter Summa Can Low Volume Puff High Volume Puff Other	ESQ#	TB	TLC	GLC	LVP	RVP	PW10	COLLECTED		Flow Control Number	Summa Can Number	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
									DATE	TIME								
1									4/17/17	1000		1749	3000.0		Kyber Xiong	4/24/17	1420	AMB
2									1015		1741							
3									1035		1765							
4									1115		1697							
5									1155		1707							
6									1145		1719							
7									1215		1684							
8									1230		1702							
9									1255		1760							
10																		
11																		
12																		

Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Kyle Borens / Summit	4/17/17	1420	Kyber Xiong	4/24/17	1420	AMB
Kyber Xiong	4/24/17	1525	Kyber Xiong	4/25/17	1525	
	4/25/17	1800		4-25-17	1820	

Temp in °C \_\_\_\_\_

Received on \_\_\_\_\_ Y/N

Ice \_\_\_\_\_ Y/N

Custody \_\_\_\_\_ Y/N

Sealed Cooler \_\_\_\_\_ Y/N

Samples Intact \_\_\_\_\_ Y/N

SAMPLER NAME AND SIGNATURE  
 PRINT Name of SAMPLER: Kyle Borens  
 SIGNATURE of SAMPLER: [Signature]  
 DATE SIGNED: 4/24/17

**Air Sample Condition Upon Receipt**

Client Name: Summit Environmental Solutions

Project #:

WO#: **10386417**



10386417

Courier:  Fed Ex  UPS  Speedee  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Tracking Number: \_\_\_\_\_

Custody Seal on Cooler/Box Present?  Yes  No      Seals Intact?  Yes  No

Optional: Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

Packing Material:  Bubble Wrap  Bubble Bags  Foam  None  Tin Can  Other: \_\_\_\_\_      Temp Blank rec:  Yes  No

Temp. (TO17 and TO13 samples only) (°C): \_\_\_\_\_ Corrected Temp (°C): \_\_\_\_\_      Thermom. Used:  B88A912167504  B88A0143310098  
 151401163  151401164

Temp should be above freezing to 6°C      Correction Factor: \_\_\_\_\_      Date & Initials of Person Examining Contents: KAC 4-26-17  
KAC 4-26-17

Type of ice Received  Blue  Wet  None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: <u>Air Can</u> Airbag      Filter      TDT      Passive		11.
Sample Labels Match COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>sample vPac3 not labeled. ID'd by car #.</u>

Samples Received:			Samples Received:		
Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID

CLIENT NOTIFICATION/RESOLUTION      Field Data Required?  Yes  No  
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/Resolution: \_\_\_\_\_

Project Manager Review: \_\_\_\_\_ Date: \_\_\_\_\_  
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

## **Appendix G**

### **Sediment Analytical Reports**

January 12, 2017

Bill Gregg  
Summit Envirosolutions  
1217 Bandana Blvd  
Saint Paul, MN 55108

RE: Project: 2118-0002 SWLP\_Rev  
Pace Project No.: 10372445

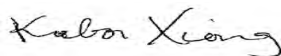
Dear Bill Gregg:

Enclosed are the analytical results for sample(s) received by the laboratory between December 07, 2016 and December 08, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised on January 12, 2017 to change report format per client's request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kabor Xiong  
kabor.xiong@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

---

### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

525 N 8th Street, Salina, KS 67401

Alaska Certification UST-107

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN\_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10372445001	S-3_24.5-25	Solid	12/06/16 08:45	12/07/16 18:00
10372445002	S-2_25-27.5	Solid	12/06/16 09:15	12/07/16 18:00
10372445003	S-4_23.5-24	Solid	12/06/16 10:00	12/07/16 18:00
10372445004	S-4_24-26.5	Solid	12/06/16 10:30	12/07/16 18:00
10372445005	S-5_24-24.5	Solid	12/06/16 11:30	12/07/16 18:00
10372445006	S-5_24.5-25.5	Solid	12/06/16 11:45	12/07/16 18:00
10372445007	S-6_23-23.5	Solid	12/06/16 12:15	12/07/16 18:00
10372445008	S-6_23.5-24.5	Solid	12/06/16 12:30	12/07/16 18:00
10372445009	S-7_23-23.5	Solid	12/06/16 13:15	12/07/16 18:00
10372445010	S7_23.5-26	Solid	12/06/16 13:30	12/07/16 18:00
10372445011	S8_23.5-24	Solid	12/06/16 14:00	12/07/16 18:00
10372445012	S8_24-25	Solid	12/06/16 14:30	12/07/16 18:00
10372445013	S-9_24-24.5	Solid	12/06/16 14:45	12/07/16 18:00
10372445014	S-9_24.5-25	Solid	12/06/16 15:15	12/07/16 18:00
10372445015	S-9_25-26	Solid	12/06/16 15:20	12/07/16 18:00
10372445016	S-10_23.5-24	Solid	12/06/16 15:30	12/07/16 18:00
10372445017	S-10_24-25	Solid	12/06/16 16:00	12/07/16 18:00
10372445018	S7_23.5-26 DUP	Solid	12/06/16 13:30	12/08/16 09:22
10372445019	S8_23.5-24 DUP	Solid	12/06/16 14:00	12/08/16 09:22

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2118-0002 SWLP\_Rev  
Pace Project No.: 10372445

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10372445001	S-3_24.5-25	EPA 6010C	BD1	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10372445002	S-2_25-27.5	EPA 6010C	BD1	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10372445003	S-4_23.5-24	EPA 6010C	BD1	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10372445004	S-4_24-26.5	EPA 6010C	BD1	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10372445005	S-5_24-24.5	EPA 6010C	BD1	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10372445006	S-5_24.5-25.5	EPA 6010C	BD1	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10372445007	S-6_23-23.5	EPA 6010C	BD1	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
10372445008	S-6_23.5-24.5	EPA 6010C	BD1	7	PASI-M
		EPA 7471B	LMW	1	PASI-M

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### SAMPLE ANALYTE COUNT

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10372445009	S-7_23-23.5	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
		EPA 6010C	BD1	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
10372445010	S7_23.5-26	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
		EPA 6010C	BD1	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
10372445011	S8_23.5-24	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
		EPA 6010C	BD1	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
10372445012	S8_24-25	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
		EPA 6010C	BD1	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
10372445013	S-9_24-24.5	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
		EPA 6010C	BD1	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
10372445014	S-9_24.5-25	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
		EPA 6010C	BD1	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
10372445015	S-9_25-26	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
		EPA 6010C	BD1	7	PASI-M
		EPA 7471B	LMW	1	PASI-M

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### SAMPLE ANALYTE COUNT

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10372445016	S-10_23.5-24	EPA 8260B	MRB	70	PASI-M
		EPA 6010C	BD1	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10372445017	S-10_24-25	EPA 8260B	MRB	70	PASI-M
		EPA 6010C	BD1	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10372445018	S7_23.5-26 DUP	EPA 8260B	MRB	70	PASI-M
		EPA 6010C	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
10372445019	S8_23.5-24 DUP	EPA 8260B	MRB	70	PASI-M
		EPA 6010C	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-3\_24.5-25**      **Lab ID: 10372445001**      Collected: 12/06/16 08:45      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	4.7	mg/kg	1.0	0.31	1	12/20/16 16:32	12/22/16 04:36	7440-38-2	R1
Barium	61.3	mg/kg	0.083	0.025	1	12/20/16 16:32	12/22/16 04:36	7440-39-3	
Cadmium	0.27	mg/kg	0.049	0.015	1	12/20/16 16:32	12/22/16 04:36	7440-43-9	R1
Chromium	18.9	mg/kg	0.54	0.16	1	12/20/16 16:32	12/22/16 04:36	7440-47-3	R1
Lead	16.3	mg/kg	0.52	0.16	1	12/20/16 16:32	12/22/16 04:36	7439-92-1	R1
Selenium	<1.5	mg/kg	1.5	0.45	1	12/20/16 16:32	12/22/16 04:36	7782-49-2	R1
Silver	<0.41	mg/kg	0.41	0.12	1	12/20/16 16:32	12/22/16 04:36	7440-22-4	R1
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.14	mg/kg	0.031	0.0092	1	12/16/16 12:31	12/20/16 13:52	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	43.6	%	0.10	0.10	1		12/20/16 13:10		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	9.3	ug/kg	2.3	0.69	1	12/09/16 11:09	12/18/16 19:19	83-32-9	
Acenaphthylene	<1.6	ug/kg	1.6	0.48	1	12/09/16 11:09	12/18/16 19:19	208-96-8	
Anthracene	27.5	ug/kg	2.7	0.80	1	12/09/16 11:09	12/18/16 19:19	120-12-7	
Benzo(a)anthracene	51.6	ug/kg	2.8	0.83	1	12/09/16 11:09	12/18/16 19:19	56-55-3	
Benzo(a)pyrene	56.6	ug/kg	2.0	0.61	1	12/09/16 11:09	12/18/16 19:19	50-32-8	
Benzo(b)fluoranthene	67.8	ug/kg	3.4	1.0	1	12/09/16 11:09	12/18/16 19:19	205-99-2	
Benzo(g,h,i)perylene	40.2	ug/kg	2.7	0.81	1	12/09/16 11:09	12/18/16 19:19	191-24-2	
Benzo(k)fluoranthene	35.4	ug/kg	2.9	0.87	1	12/09/16 11:09	12/18/16 19:19	207-08-9	
Chrysene	58.7	ug/kg	3.3	0.98	1	12/09/16 11:09	12/18/16 19:19	218-01-9	
Dibenz(a,h)anthracene	13.7	ug/kg	1.9	0.58	1	12/09/16 11:09	12/18/16 19:19	53-70-3	M1
Fluoranthene	117	ug/kg	4.6	1.4	1	12/09/16 11:09	12/18/16 19:19	206-44-0	
Fluorene	11.7	ug/kg	2.3	0.68	1	12/09/16 11:09	12/18/16 19:19	86-73-7	
Indeno(1,2,3-cd)pyrene	35.6	ug/kg	4.4	1.3	1	12/09/16 11:09	12/18/16 19:19	193-39-5	
Naphthalene	13.7	ug/kg	2.1	0.63	1	12/09/16 11:09	12/18/16 19:19	91-20-3	
Phenanthrene	72.3	ug/kg	2.4	0.71	1	12/09/16 11:09	12/18/16 19:19	85-01-8	
Pyrene	96.6	ug/kg	4.9	1.5	1	12/09/16 11:09	12/18/16 19:19	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	61	%	41-125		1	12/09/16 11:09	12/18/16 19:19	321-60-8	
p-Terphenyl-d14 (S)	55	%	39-125		1	12/09/16 11:09	12/18/16 19:19	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1960	ug/kg	1960	589	1	12/08/16 10:33	12/10/16 15:50	67-64-1	
Allyl chloride	<256	ug/kg	256	77.0	1	12/08/16 10:33	12/10/16 15:50	107-05-1	
Benzene	<25.8	ug/kg	25.8	7.8	1	12/08/16 10:33	12/10/16 15:50	71-43-2	
Bromobenzene	<76.5	ug/kg	76.5	23.0	1	12/08/16 10:33	12/10/16 15:50	108-86-1	
Bromochloromethane	<89.0	ug/kg	89.0	26.7	1	12/08/16 10:33	12/10/16 15:50	74-97-5	
Bromodichloromethane	<83.7	ug/kg	83.7	25.1	1	12/08/16 10:33	12/10/16 15:50	75-27-4	
Bromoform	<258	ug/kg	258	77.3	1	12/08/16 10:33	12/10/16 15:50	75-25-2	
Bromomethane	<303	ug/kg	303	91.0	1	12/08/16 10:33	12/10/16 15:50	74-83-9	
2-Butanone (MEK)	<394	ug/kg	394	118	1	12/08/16 10:33	12/10/16 15:50	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

Sample: S-3\_24.5-25 Lab ID: 10372445001 Collected: 12/06/16 08:45 Received: 12/07/16 18:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<72.3	ug/kg	72.3	21.7	1	12/08/16 10:33	12/10/16 15:50	104-51-8	
sec-Butylbenzene	<70.5	ug/kg	70.5	21.2	1	12/08/16 10:33	12/10/16 15:50	135-98-8	
tert-Butylbenzene	<94.4	ug/kg	94.4	28.4	1	12/08/16 10:33	12/10/16 15:50	98-06-6	
Carbon tetrachloride	<93.8	ug/kg	93.8	28.2	1	12/08/16 10:33	12/10/16 15:50	56-23-5	
Chlorobenzene	<52.0	ug/kg	52.0	15.6	1	12/08/16 10:33	12/10/16 15:50	108-90-7	
Chloroethane	<472	ug/kg	472	142	1	12/08/16 10:33	12/10/16 15:50	75-00-3	
Chloroform	<145	ug/kg	145	43.6	1	12/08/16 10:33	12/10/16 15:50	67-66-3	
Chloromethane	<145	ug/kg	145	43.4	1	12/08/16 10:33	12/10/16 15:50	74-87-3	
2-Chlorotoluene	<82.5	ug/kg	82.5	24.8	1	12/08/16 10:33	12/10/16 15:50	95-49-8	
4-Chlorotoluene	<78.3	ug/kg	78.3	23.5	1	12/08/16 10:33	12/10/16 15:50	106-43-4	
1,2-Dibromo-3-chloropropane	<175	ug/kg	175	175	1	12/08/16 10:33	12/10/16 15:50	96-12-8	
Dibromochloromethane	<256	ug/kg	256	77.0	1	12/08/16 10:33	12/10/16 15:50	124-48-1	
1,2-Dibromoethane (EDB)	<33.7	ug/kg	33.7	33.7	1	12/08/16 10:33	12/10/16 15:50	106-93-4	
Dibromomethane	<117	ug/kg	117	35.0	1	12/08/16 10:33	12/10/16 15:50	74-95-3	
1,2-Dichlorobenzene	<17.3	ug/kg	17.3	17.3	1	12/08/16 10:33	12/10/16 15:50	95-50-1	
1,3-Dichlorobenzene	<26.4	ug/kg	26.4	26.4	1	12/08/16 10:33	12/10/16 15:50	541-73-1	
1,4-Dichlorobenzene	<86.6	ug/kg	86.6	26.0	1	12/08/16 10:33	12/10/16 15:50	106-46-7	
Dichlorodifluoromethane	<91.4	ug/kg	91.4	27.5	1	12/08/16 10:33	12/10/16 15:50	75-71-8	
1,1-Dichloroethane	<34.8	ug/kg	34.8	34.8	1	12/08/16 10:33	12/10/16 15:50	75-34-3	
1,2-Dichloroethane	<28.4	ug/kg	28.4	28.4	1	12/08/16 10:33	12/10/16 15:50	107-06-2	
1,1-Dichloroethene	<22.8	ug/kg	22.8	22.8	1	12/08/16 10:33	12/10/16 15:50	75-35-4	
cis-1,2-Dichloroethene	<111	ug/kg	111	33.4	1	12/08/16 10:33	12/10/16 15:50	156-59-2	
trans-1,2-Dichloroethene	<144	ug/kg	144	43.2	1	12/08/16 10:33	12/10/16 15:50	156-60-5	
Dichlorofluoromethane	<819	ug/kg	819	246	1	12/08/16 10:33	12/10/16 15:50	75-43-4	
1,2-Dichloropropane	<31.0	ug/kg	31.0	31.0	1	12/08/16 10:33	12/10/16 15:50	78-87-5	
1,3-Dichloropropane	<107	ug/kg	107	32.1	1	12/08/16 10:33	12/10/16 15:50	142-28-9	
2,2-Dichloropropane	<95.0	ug/kg	95.0	28.5	1	12/08/16 10:33	12/10/16 15:50	594-20-7	
1,1-Dichloropropene	<27.1	ug/kg	27.1	27.1	1	12/08/16 10:33	12/10/16 15:50	563-58-6	
cis-1,3-Dichloropropene	<136	ug/kg	136	40.9	1	12/08/16 10:33	12/10/16 15:50	10061-01-5	
trans-1,3-Dichloropropene	<102	ug/kg	102	30.5	1	12/08/16 10:33	12/10/16 15:50	10061-02-6	
Diethyl ether (Ethyl ether)	<123	ug/kg	123	37.0	1	12/08/16 10:33	12/10/16 15:50	60-29-7	
Ethylbenzene	<95.0	ug/kg	95.0	28.5	1	12/08/16 10:33	12/10/16 15:50	100-41-4	
Hexachloro-1,3-butadiene	<281	ug/kg	281	84.3	1	12/08/16 10:33	12/10/16 15:50	87-68-3	
Isopropylbenzene (Cumene)	<106	ug/kg	106	31.9	1	12/08/16 10:33	12/10/16 15:50	98-82-8	
p-Isopropyltoluene	<49.6	ug/kg	49.6	14.9	1	12/08/16 10:33	12/10/16 15:50	99-87-6	
Methylene Chloride	<553	ug/kg	553	166	1	12/08/16 10:33	12/10/16 15:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	<198	ug/kg	198	59.4	1	12/08/16 10:33	12/10/16 15:50	108-10-1	
Methyl-tert-butyl ether	<55.9	ug/kg	55.9	16.8	1	12/08/16 10:33	12/10/16 15:50	1634-04-4	
Naphthalene	<72.3	ug/kg	72.3	21.7	1	12/08/16 10:33	12/10/16 15:50	91-20-3	
n-Propylbenzene	<89.0	ug/kg	89.0	26.7	1	12/08/16 10:33	12/10/16 15:50	103-65-1	
Styrene	<77.7	ug/kg	77.7	23.3	1	12/08/16 10:33	12/10/16 15:50	100-42-5	
1,1,1,2-Tetrachloroethane	<35.5	ug/kg	35.5	35.5	1	12/08/16 10:33	12/10/16 15:50	630-20-6	
1,1,2,2-Tetrachloroethane	<19.9	ug/kg	19.9	19.9	1	12/08/16 10:33	12/10/16 15:50	79-34-5	
Tetrachloroethene	<114	ug/kg	114	34.3	1	12/08/16 10:33	12/10/16 15:50	127-18-4	
Tetrahydrofuran	<1480	ug/kg	1480	445	1	12/08/16 10:33	12/10/16 15:50	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-3\_24.5-25**      **Lab ID: 10372445001**      Collected: 12/06/16 08:45      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<95.0	ug/kg	95.0	28.5	1	12/08/16 10:33	12/10/16 15:50	108-88-3	
1,2,3-Trichlorobenzene	<25.8	ug/kg	25.8	25.8	1	12/08/16 10:33	12/10/16 15:50	87-61-6	
1,2,4-Trichlorobenzene	<27.6	ug/kg	27.6	27.6	1	12/08/16 10:33	12/10/16 15:50	120-82-1	
1,1,1-Trichloroethane	<37.5	ug/kg	37.5	37.5	1	12/08/16 10:33	12/10/16 15:50	71-55-6	
1,1,2-Trichloroethane	<19.4	ug/kg	19.4	19.4	1	12/08/16 10:33	12/10/16 15:50	79-00-5	
Trichloroethene	<85.4	ug/kg	85.4	25.7	1	12/08/16 10:33	12/10/16 15:50	79-01-6	
Trichlorofluoromethane	<300	ug/kg	300	90.1	1	12/08/16 10:33	12/10/16 15:50	75-69-4	
1,2,3-Trichloropropane	<93.0	ug/kg	93.0	93.0	1	12/08/16 10:33	12/10/16 15:50	96-18-4	
1,1,2-Trichlorotrifluoroethane	<215	ug/kg	215	64.6	1	12/08/16 10:33	12/10/16 15:50	76-13-1	
1,2,4-Trimethylbenzene	<19.7	ug/kg	19.7	19.7	1	12/08/16 10:33	12/10/16 15:50	95-63-6	
1,3,5-Trimethylbenzene	<68.7	ug/kg	68.7	20.6	1	12/08/16 10:33	12/10/16 15:50	108-67-8	
Vinyl chloride	<38.4	ug/kg	38.4	11.5	1	12/08/16 10:33	12/10/16 15:50	75-01-4	
Xylene (Total)	<239	ug/kg	239	71.8	1	12/08/16 10:33	12/10/16 15:50	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-129		1	12/08/16 10:33	12/10/16 15:50	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/08/16 10:33	12/10/16 15:50	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/08/16 10:33	12/10/16 15:50	460-00-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-2\_25-27.5**      **Lab ID: 10372445002**      Collected: 12/06/16 09:15      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	8.1	mg/kg	0.75	0.23	1	12/20/16 16:32	12/22/16 05:02	7440-38-2	
Barium	47.5	mg/kg	0.060	0.018	1	12/20/16 16:32	12/22/16 05:02	7440-39-3	
Cadmium	0.48	mg/kg	0.036	0.011	1	12/20/16 16:32	12/22/16 05:02	7440-43-9	
Chromium	12.5	mg/kg	0.39	0.12	1	12/20/16 16:32	12/22/16 05:02	7440-47-3	
Lead	32.2	mg/kg	0.38	0.11	1	12/20/16 16:32	12/22/16 05:02	7439-92-1	
Selenium	<1.1	mg/kg	1.1	0.33	1	12/20/16 16:32	12/22/16 05:02	7782-49-2	
Silver	0.67	mg/kg	0.30	0.091	1	12/20/16 16:32	12/22/16 05:02	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.64	mg/kg	0.022	0.0066	1	12/16/16 12:31	12/20/16 13:58	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	26.4	%	0.10	0.10	1		12/20/16 13:10		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	107	ug/kg	8.8	2.7	5	12/09/16 11:09	12/19/16 02:06	83-32-9	
Acenaphthylene	41.0	ug/kg	6.2	1.8	5	12/09/16 11:09	12/19/16 02:06	208-96-8	
Anthracene	172	ug/kg	10.3	3.1	5	12/09/16 11:09	12/19/16 02:06	120-12-7	
Benzo(a)anthracene	415	ug/kg	10.6	3.2	5	12/09/16 11:09	12/19/16 02:06	56-55-3	
Benzo(a)pyrene	339	ug/kg	7.8	2.4	5	12/09/16 11:09	12/19/16 02:06	50-32-8	
Benzo(b)fluoranthene	433	ug/kg	13.0	3.9	5	12/09/16 11:09	12/19/16 02:06	205-99-2	
Benzo(g,h,i)perylene	176	ug/kg	10.4	3.1	5	12/09/16 11:09	12/19/16 02:06	191-24-2	
Benzo(k)fluoranthene	172	ug/kg	11.1	3.3	5	12/09/16 11:09	12/19/16 02:06	207-08-9	
Chrysene	546	ug/kg	12.5	3.8	5	12/09/16 11:09	12/19/16 02:06	218-01-9	
Dibenz(a,h)anthracene	42.7	ug/kg	7.4	2.2	5	12/09/16 11:09	12/19/16 02:06	53-70-3	
Fluoranthene	1130	ug/kg	17.7	5.3	5	12/09/16 11:09	12/19/16 02:06	206-44-0	
Fluorene	151	ug/kg	8.7	2.6	5	12/09/16 11:09	12/19/16 02:06	86-73-7	
Indeno(1,2,3-cd)pyrene	145	ug/kg	17.0	5.1	5	12/09/16 11:09	12/19/16 02:06	193-39-5	
Naphthalene	87.7	ug/kg	8.1	2.4	5	12/09/16 11:09	12/19/16 02:06	91-20-3	
Phenanthrene	781	ug/kg	9.1	2.7	5	12/09/16 11:09	12/19/16 02:06	85-01-8	
Pyrene	833	ug/kg	18.7	5.6	5	12/09/16 11:09	12/19/16 02:06	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	84	%	41-125		5	12/09/16 11:09	12/19/16 02:06	321-60-8	D4
p-Terphenyl-d14 (S)	78	%	39-125		5	12/09/16 11:09	12/19/16 02:06	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1840	ug/kg	1840	551	1	12/08/16 10:33	12/10/16 16:07	67-64-1	
Allyl chloride	<240	ug/kg	240	72.1	1	12/08/16 10:33	12/10/16 16:07	107-05-1	
Benzene	<24.2	ug/kg	24.2	7.3	1	12/08/16 10:33	12/10/16 16:07	71-43-2	
Bromobenzene	<71.6	ug/kg	71.6	21.5	1	12/08/16 10:33	12/10/16 16:07	108-86-1	
Bromochloromethane	<83.4	ug/kg	83.4	25.0	1	12/08/16 10:33	12/10/16 16:07	74-97-5	
Bromodichloromethane	<78.3	ug/kg	78.3	23.5	1	12/08/16 10:33	12/10/16 16:07	75-27-4	
Bromoform	<241	ug/kg	241	72.4	1	12/08/16 10:33	12/10/16 16:07	75-25-2	
Bromomethane	<284	ug/kg	284	85.2	1	12/08/16 10:33	12/10/16 16:07	74-83-9	
2-Butanone (MEK)	<369	ug/kg	369	111	1	12/08/16 10:33	12/10/16 16:07	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

Sample: S-2\_25-27.5 Lab ID: 10372445002 Collected: 12/06/16 09:15 Received: 12/07/16 18:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<67.7	ug/kg	67.7	20.3	1	12/08/16 10:33	12/10/16 16:07	104-51-8	
sec-Butylbenzene	<66.0	ug/kg	66.0	19.8	1	12/08/16 10:33	12/10/16 16:07	135-98-8	
tert-Butylbenzene	<88.4	ug/kg	88.4	26.5	1	12/08/16 10:33	12/10/16 16:07	98-06-6	
Carbon tetrachloride	<87.8	ug/kg	87.8	26.4	1	12/08/16 10:33	12/10/16 16:07	56-23-5	
Chlorobenzene	<48.7	ug/kg	48.7	14.6	1	12/08/16 10:33	12/10/16 16:07	108-90-7	
Chloroethane	<442	ug/kg	442	133	1	12/08/16 10:33	12/10/16 16:07	75-00-3	
Chloroform	<136	ug/kg	136	40.8	1	12/08/16 10:33	12/10/16 16:07	67-66-3	
Chloromethane	<135	ug/kg	135	40.7	1	12/08/16 10:33	12/10/16 16:07	74-87-3	
2-Chlorotoluene	<77.2	ug/kg	77.2	23.2	1	12/08/16 10:33	12/10/16 16:07	95-49-8	
4-Chlorotoluene	<73.3	ug/kg	73.3	22.0	1	12/08/16 10:33	12/10/16 16:07	106-43-4	
1,2-Dibromo-3-chloropropane	<164	ug/kg	164	164	1	12/08/16 10:33	12/10/16 16:07	96-12-8	
Dibromochloromethane	<240	ug/kg	240	72.1	1	12/08/16 10:33	12/10/16 16:07	124-48-1	
1,2-Dibromoethane (EDB)	<31.6	ug/kg	31.6	31.6	1	12/08/16 10:33	12/10/16 16:07	106-93-4	
Dibromomethane	<109	ug/kg	109	32.8	1	12/08/16 10:33	12/10/16 16:07	74-95-3	
1,2-Dichlorobenzene	<16.2	ug/kg	16.2	16.2	1	12/08/16 10:33	12/10/16 16:07	95-50-1	
1,3-Dichlorobenzene	<24.7	ug/kg	24.7	24.7	1	12/08/16 10:33	12/10/16 16:07	541-73-1	
1,4-Dichlorobenzene	<81.1	ug/kg	81.1	24.4	1	12/08/16 10:33	12/10/16 16:07	106-46-7	
Dichlorodifluoromethane	<85.6	ug/kg	85.6	25.7	1	12/08/16 10:33	12/10/16 16:07	75-71-8	
1,1-Dichloroethane	<32.6	ug/kg	32.6	32.6	1	12/08/16 10:33	12/10/16 16:07	75-34-3	
1,2-Dichloroethane	<26.5	ug/kg	26.5	26.5	1	12/08/16 10:33	12/10/16 16:07	107-06-2	
1,1-Dichloroethene	<21.3	ug/kg	21.3	21.3	1	12/08/16 10:33	12/10/16 16:07	75-35-4	
cis-1,2-Dichloroethene	<104	ug/kg	104	31.3	1	12/08/16 10:33	12/10/16 16:07	156-59-2	
trans-1,2-Dichloroethene	<135	ug/kg	135	40.5	1	12/08/16 10:33	12/10/16 16:07	156-60-5	
Dichlorofluoromethane	<767	ug/kg	767	230	1	12/08/16 10:33	12/10/16 16:07	75-43-4	
1,2-Dichloropropane	<29.1	ug/kg	29.1	29.1	1	12/08/16 10:33	12/10/16 16:07	78-87-5	
1,3-Dichloropropane	<100	ug/kg	100	30.1	1	12/08/16 10:33	12/10/16 16:07	142-28-9	
2,2-Dichloropropane	<89.0	ug/kg	89.0	26.7	1	12/08/16 10:33	12/10/16 16:07	594-20-7	
1,1-Dichloropropene	<25.4	ug/kg	25.4	25.4	1	12/08/16 10:33	12/10/16 16:07	563-58-6	
cis-1,3-Dichloropropene	<128	ug/kg	128	38.3	1	12/08/16 10:33	12/10/16 16:07	10061-01-5	
trans-1,3-Dichloropropene	<95.1	ug/kg	95.1	28.6	1	12/08/16 10:33	12/10/16 16:07	10061-02-6	
Diethyl ether (Ethyl ether)	<115	ug/kg	115	34.6	1	12/08/16 10:33	12/10/16 16:07	60-29-7	
Ethylbenzene	<89.0	ug/kg	89.0	26.7	1	12/08/16 10:33	12/10/16 16:07	100-41-4	
Hexachloro-1,3-butadiene	<263	ug/kg	263	79.0	1	12/08/16 10:33	12/10/16 16:07	87-68-3	
Isopropylbenzene (Cumene)	<99.6	ug/kg	99.6	29.9	1	12/08/16 10:33	12/10/16 16:07	98-82-8	
p-Isopropyltoluene	<46.4	ug/kg	46.4	13.9	1	12/08/16 10:33	12/10/16 16:07	99-87-6	
Methylene Chloride	<518	ug/kg	518	156	1	12/08/16 10:33	12/10/16 16:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	<185	ug/kg	185	55.6	1	12/08/16 10:33	12/10/16 16:07	108-10-1	
Methyl-tert-butyl ether	<52.4	ug/kg	52.4	15.7	1	12/08/16 10:33	12/10/16 16:07	1634-04-4	
Naphthalene	166	ug/kg	67.7	20.3	1	12/08/16 10:33	12/10/16 16:07	91-20-3	
n-Propylbenzene	<83.4	ug/kg	83.4	25.0	1	12/08/16 10:33	12/10/16 16:07	103-65-1	
Styrene	<72.7	ug/kg	72.7	21.8	1	12/08/16 10:33	12/10/16 16:07	100-42-5	
1,1,1,2-Tetrachloroethane	<33.3	ug/kg	33.3	33.3	1	12/08/16 10:33	12/10/16 16:07	630-20-6	
1,1,2,2-Tetrachloroethane	<18.7	ug/kg	18.7	18.7	1	12/08/16 10:33	12/10/16 16:07	79-34-5	
Tetrachloroethene	<107	ug/kg	107	32.1	1	12/08/16 10:33	12/10/16 16:07	127-18-4	
Tetrahydrofuran	<1390	ug/kg	1390	417	1	12/08/16 10:33	12/10/16 16:07	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-2\_25-27.5**      **Lab ID: 10372445002**      Collected: 12/06/16 09:15      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<b>153</b>	ug/kg	89.0	26.7	1	12/08/16 10:33	12/10/16 16:07	108-88-3	
1,2,3-Trichlorobenzene	<b>&lt;24.2</b>	ug/kg	24.2	24.2	1	12/08/16 10:33	12/10/16 16:07	87-61-6	
1,2,4-Trichlorobenzene	<b>&lt;25.9</b>	ug/kg	25.9	25.9	1	12/08/16 10:33	12/10/16 16:07	120-82-1	
1,1,1-Trichloroethane	<b>&lt;35.1</b>	ug/kg	35.1	35.1	1	12/08/16 10:33	12/10/16 16:07	71-55-6	
1,1,2-Trichloroethane	<b>&lt;18.1</b>	ug/kg	18.1	18.1	1	12/08/16 10:33	12/10/16 16:07	79-00-5	
Trichloroethene	<b>&lt;80.0</b>	ug/kg	80.0	24.0	1	12/08/16 10:33	12/10/16 16:07	79-01-6	
Trichlorofluoromethane	<b>&lt;281</b>	ug/kg	281	84.4	1	12/08/16 10:33	12/10/16 16:07	75-69-4	
1,2,3-Trichloropropane	<b>&lt;87.0</b>	ug/kg	87.0	87.0	1	12/08/16 10:33	12/10/16 16:07	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;201</b>	ug/kg	201	60.5	1	12/08/16 10:33	12/10/16 16:07	76-13-1	
1,2,4-Trimethylbenzene	<b>47.0</b>	ug/kg	18.5	18.5	1	12/08/16 10:33	12/10/16 16:07	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;64.3</b>	ug/kg	64.3	19.3	1	12/08/16 10:33	12/10/16 16:07	108-67-8	
Vinyl chloride	<b>&lt;35.9</b>	ug/kg	35.9	10.8	1	12/08/16 10:33	12/10/16 16:07	75-01-4	
Xylene (Total)	<b>&lt;224</b>	ug/kg	224	67.2	1	12/08/16 10:33	12/10/16 16:07	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-129		1	12/08/16 10:33	12/10/16 16:07	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/08/16 10:33	12/10/16 16:07	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/08/16 10:33	12/10/16 16:07	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-4\_23.5-24**      **Lab ID: 10372445003**      Collected: 12/06/16 10:00      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	3.8	mg/kg	1.2	0.36	1	12/20/16 16:32	12/22/16 05:05	7440-38-2	
Barium	79.2	mg/kg	0.096	0.029	1	12/20/16 16:32	12/22/16 05:05	7440-39-3	
Cadmium	0.27	mg/kg	0.057	0.017	1	12/20/16 16:32	12/22/16 05:05	7440-43-9	
Chromium	24.5	mg/kg	0.62	0.19	1	12/20/16 16:32	12/22/16 05:05	7440-47-3	
Lead	18.1	mg/kg	0.60	0.18	1	12/20/16 16:32	12/22/16 05:05	7439-92-1	
Selenium	<1.7	mg/kg	1.7	0.52	1	12/20/16 16:32	12/22/16 05:05	7782-49-2	
Silver	<0.48	mg/kg	0.48	0.14	1	12/20/16 16:32	12/22/16 05:05	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.22	mg/kg	0.033	0.0098	1	12/16/16 12:31	12/20/16 14:00	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	53.0	%	0.10	0.10	1		12/20/16 13:11		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	12.3	ug/kg	2.8	0.83	1	12/09/16 11:09	12/18/16 20:23	83-32-9	
Acenaphthylene	12.6	ug/kg	1.9	0.58	1	12/09/16 11:09	12/18/16 20:23	208-96-8	
Anthracene	41.4	ug/kg	3.2	0.96	1	12/09/16 11:09	12/18/16 20:23	120-12-7	
Benzo(a)anthracene	75.5	ug/kg	3.3	0.99	1	12/09/16 11:09	12/18/16 20:23	56-55-3	
Benzo(a)pyrene	85.8	ug/kg	2.4	0.73	1	12/09/16 11:09	12/18/16 20:23	50-32-8	
Benzo(b)fluoranthene	95.6	ug/kg	4.0	1.2	1	12/09/16 11:09	12/18/16 20:23	205-99-2	
Benzo(g,h,i)perylene	58.4	ug/kg	3.2	0.97	1	12/09/16 11:09	12/18/16 20:23	191-24-2	
Benzo(k)fluoranthene	48.4	ug/kg	3.5	1.0	1	12/09/16 11:09	12/18/16 20:23	207-08-9	
Chrysene	86.6	ug/kg	3.9	1.2	1	12/09/16 11:09	12/18/16 20:23	218-01-9	
Dibenz(a,h)anthracene	16.4	ug/kg	2.3	0.69	1	12/09/16 11:09	12/18/16 20:23	53-70-3	
Fluoranthene	155	ug/kg	5.5	1.7	1	12/09/16 11:09	12/18/16 20:23	206-44-0	
Fluorene	14.3	ug/kg	2.7	0.81	1	12/09/16 11:09	12/18/16 20:23	86-73-7	
Indeno(1,2,3-cd)pyrene	46.6	ug/kg	5.3	1.6	1	12/09/16 11:09	12/18/16 20:23	193-39-5	
Naphthalene	17.0	ug/kg	2.5	0.76	1	12/09/16 11:09	12/18/16 20:23	91-20-3	
Phenanthrene	103	ug/kg	2.8	0.85	1	12/09/16 11:09	12/18/16 20:23	85-01-8	
Pyrene	130	ug/kg	5.8	1.8	1	12/09/16 11:09	12/18/16 20:23	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	71	%	41-125		1	12/09/16 11:09	12/18/16 20:23	321-60-8	
p-Terphenyl-d14 (S)	67	%	39-125		1	12/09/16 11:09	12/18/16 20:23	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<2320	ug/kg	2320	695	1	12/08/16 10:33	12/10/16 16:25	67-64-1	
Allyl chloride	<303	ug/kg	303	90.9	1	12/08/16 10:33	12/10/16 16:25	107-05-1	
Benzene	<30.5	ug/kg	30.5	9.2	1	12/08/16 10:33	12/10/16 16:25	71-43-2	
Bromobenzene	<90.4	ug/kg	90.4	27.1	1	12/08/16 10:33	12/10/16 16:25	108-86-1	
Bromochloromethane	<105	ug/kg	105	31.6	1	12/08/16 10:33	12/10/16 16:25	74-97-5	
Bromodichloromethane	<98.8	ug/kg	98.8	29.7	1	12/08/16 10:33	12/10/16 16:25	75-27-4	
Bromoform	<304	ug/kg	304	91.4	1	12/08/16 10:33	12/10/16 16:25	75-25-2	
Bromomethane	<358	ug/kg	358	107	1	12/08/16 10:33	12/10/16 16:25	74-83-9	
2-Butanone (MEK)	<466	ug/kg	466	140	1	12/08/16 10:33	12/10/16 16:25	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

Sample: S-4\_23.5-24 Lab ID: 10372445003 Collected: 12/06/16 10:00 Received: 12/07/16 18:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<85.4	ug/kg	85.4	25.7	1	12/08/16 10:33	12/10/16 16:25	104-51-8	
sec-Butylbenzene	<83.3	ug/kg	83.3	25.0	1	12/08/16 10:33	12/10/16 16:25	135-98-8	
tert-Butylbenzene	<112	ug/kg	112	33.5	1	12/08/16 10:33	12/10/16 16:25	98-06-6	
Carbon tetrachloride	<111	ug/kg	111	33.3	1	12/08/16 10:33	12/10/16 16:25	56-23-5	
Chlorobenzene	<61.4	ug/kg	61.4	18.4	1	12/08/16 10:33	12/10/16 16:25	108-90-7	
Chloroethane	<558	ug/kg	558	167	1	12/08/16 10:33	12/10/16 16:25	75-00-3	
Chloroform	<172	ug/kg	172	51.5	1	12/08/16 10:33	12/10/16 16:25	67-66-3	
Chloromethane	<171	ug/kg	171	51.3	1	12/08/16 10:33	12/10/16 16:25	74-87-3	
2-Chlorotoluene	<97.4	ug/kg	97.4	29.3	1	12/08/16 10:33	12/10/16 16:25	95-49-8	
4-Chlorotoluene	<92.5	ug/kg	92.5	27.8	1	12/08/16 10:33	12/10/16 16:25	106-43-4	
1,2-Dibromo-3-chloropropane	<207	ug/kg	207	207	1	12/08/16 10:33	12/10/16 16:25	96-12-8	
Dibromochloromethane	<303	ug/kg	303	90.9	1	12/08/16 10:33	12/10/16 16:25	124-48-1	
1,2-Dibromoethane (EDB)	<39.9	ug/kg	39.9	39.9	1	12/08/16 10:33	12/10/16 16:25	106-93-4	
Dibromomethane	<138	ug/kg	138	41.3	1	12/08/16 10:33	12/10/16 16:25	74-95-3	
1,2-Dichlorobenzene	<20.5	ug/kg	20.5	20.5	1	12/08/16 10:33	12/10/16 16:25	95-50-1	
1,3-Dichlorobenzene	<31.2	ug/kg	31.2	31.2	1	12/08/16 10:33	12/10/16 16:25	541-73-1	
1,4-Dichlorobenzene	<102	ug/kg	102	30.7	1	12/08/16 10:33	12/10/16 16:25	106-46-7	
Dichlorodifluoromethane	<108	ug/kg	108	32.4	1	12/08/16 10:33	12/10/16 16:25	75-71-8	
1,1-Dichloroethane	<41.1	ug/kg	41.1	41.1	1	12/08/16 10:33	12/10/16 16:25	75-34-3	
1,2-Dichloroethane	<33.5	ug/kg	33.5	33.5	1	12/08/16 10:33	12/10/16 16:25	107-06-2	
1,1-Dichloroethene	<26.9	ug/kg	26.9	26.9	1	12/08/16 10:33	12/10/16 16:25	75-35-4	
cis-1,2-Dichloroethene	<131	ug/kg	131	39.4	1	12/08/16 10:33	12/10/16 16:25	156-59-2	
trans-1,2-Dichloroethene	<170	ug/kg	170	51.1	1	12/08/16 10:33	12/10/16 16:25	156-60-5	
Dichlorofluoromethane	<967	ug/kg	967	290	1	12/08/16 10:33	12/10/16 16:25	75-43-4	
1,2-Dichloropropane	<36.7	ug/kg	36.7	36.7	1	12/08/16 10:33	12/10/16 16:25	78-87-5	
1,3-Dichloropropane	<126	ug/kg	126	37.9	1	12/08/16 10:33	12/10/16 16:25	142-28-9	
2,2-Dichloropropane	<112	ug/kg	112	33.7	1	12/08/16 10:33	12/10/16 16:25	594-20-7	
1,1-Dichloropropene	<32.0	ug/kg	32.0	32.0	1	12/08/16 10:33	12/10/16 16:25	563-58-6	
cis-1,3-Dichloropropene	<161	ug/kg	161	48.3	1	12/08/16 10:33	12/10/16 16:25	10061-01-5	
trans-1,3-Dichloropropene	<120	ug/kg	120	36.0	1	12/08/16 10:33	12/10/16 16:25	10061-02-6	
Diethyl ether (Ethyl ether)	<145	ug/kg	145	43.7	1	12/08/16 10:33	12/10/16 16:25	60-29-7	
Ethylbenzene	<112	ug/kg	112	33.7	1	12/08/16 10:33	12/10/16 16:25	100-41-4	
Hexachloro-1,3-butadiene	<332	ug/kg	332	99.6	1	12/08/16 10:33	12/10/16 16:25	87-68-3	
Isopropylbenzene (Cumene)	<126	ug/kg	126	37.7	1	12/08/16 10:33	12/10/16 16:25	98-82-8	
p-Isopropyltoluene	<58.6	ug/kg	58.6	17.6	1	12/08/16 10:33	12/10/16 16:25	99-87-6	
Methylene Chloride	<654	ug/kg	654	196	1	12/08/16 10:33	12/10/16 16:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	<234	ug/kg	234	70.2	1	12/08/16 10:33	12/10/16 16:25	108-10-1	
Methyl-tert-butyl ether	<66.1	ug/kg	66.1	19.8	1	12/08/16 10:33	12/10/16 16:25	1634-04-4	
Naphthalene	<85.4	ug/kg	85.4	25.7	1	12/08/16 10:33	12/10/16 16:25	91-20-3	
n-Propylbenzene	<105	ug/kg	105	31.6	1	12/08/16 10:33	12/10/16 16:25	103-65-1	
Styrene	<91.8	ug/kg	91.8	27.6	1	12/08/16 10:33	12/10/16 16:25	100-42-5	
1,1,1,2-Tetrachloroethane	<42.0	ug/kg	42.0	42.0	1	12/08/16 10:33	12/10/16 16:25	630-20-6	
1,1,2,2-Tetrachloroethane	<23.5	ug/kg	23.5	23.5	1	12/08/16 10:33	12/10/16 16:25	79-34-5	
Tetrachloroethene	<135	ug/kg	135	40.5	1	12/08/16 10:33	12/10/16 16:25	127-18-4	
Tetrahydrofuran	<1750	ug/kg	1750	526	1	12/08/16 10:33	12/10/16 16:25	109-99-9	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-4\_23.5-24**      **Lab ID: 10372445003**      Collected: 12/06/16 10:00      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<b>201</b>	ug/kg	112	33.7	1	12/08/16 10:33	12/10/16 16:25	108-88-3	
1,2,3-Trichlorobenzene	<b>&lt;30.5</b>	ug/kg	30.5	30.5	1	12/08/16 10:33	12/10/16 16:25	87-61-6	
1,2,4-Trichlorobenzene	<b>&lt;32.6</b>	ug/kg	32.6	32.6	1	12/08/16 10:33	12/10/16 16:25	120-82-1	
1,1,1-Trichloroethane	<b>&lt;44.3</b>	ug/kg	44.3	44.3	1	12/08/16 10:33	12/10/16 16:25	71-55-6	
1,1,2-Trichloroethane	<b>&lt;22.9</b>	ug/kg	22.9	22.9	1	12/08/16 10:33	12/10/16 16:25	79-00-5	
Trichloroethene	<b>&lt;101</b>	ug/kg	101	30.3	1	12/08/16 10:33	12/10/16 16:25	79-01-6	
Trichlorofluoromethane	<b>&lt;354</b>	ug/kg	354	106	1	12/08/16 10:33	12/10/16 16:25	75-69-4	
1,2,3-Trichloropropane	<b>&lt;110</b>	ug/kg	110	110	1	12/08/16 10:33	12/10/16 16:25	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;254</b>	ug/kg	254	76.3	1	12/08/16 10:33	12/10/16 16:25	76-13-1	
1,2,4-Trimethylbenzene	<b>&lt;23.3</b>	ug/kg	23.3	23.3	1	12/08/16 10:33	12/10/16 16:25	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;81.2</b>	ug/kg	81.2	24.4	1	12/08/16 10:33	12/10/16 16:25	108-67-8	
Vinyl chloride	<b>&lt;45.3</b>	ug/kg	45.3	13.6	1	12/08/16 10:33	12/10/16 16:25	75-01-4	
Xylene (Total)	<b>&lt;282</b>	ug/kg	282	84.8	1	12/08/16 10:33	12/10/16 16:25	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-129		1	12/08/16 10:33	12/10/16 16:25	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/08/16 10:33	12/10/16 16:25	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/08/16 10:33	12/10/16 16:25	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-4\_24-26.5**      **Lab ID: 10372445004**      Collected: 12/06/16 10:30      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	4.3	mg/kg	0.88	0.27	1	12/20/16 16:32	12/22/16 05:08	7440-38-2	
Barium	64.4	mg/kg	0.071	0.021	1	12/20/16 16:32	12/22/16 05:08	7440-39-3	
Cadmium	0.36	mg/kg	0.042	0.013	1	12/20/16 16:32	12/22/16 05:08	7440-43-9	
Chromium	16.7	mg/kg	0.46	0.14	1	12/20/16 16:32	12/22/16 05:08	7440-47-3	
Lead	55.7	mg/kg	0.44	0.13	1	12/20/16 16:32	12/22/16 05:08	7439-92-1	
Selenium	<1.3	mg/kg	1.3	0.39	1	12/20/16 16:32	12/22/16 05:08	7782-49-2	
Silver	0.44	mg/kg	0.35	0.11	1	12/20/16 16:32	12/22/16 05:08	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.31	mg/kg	0.022	0.0066	1	12/16/16 12:31	12/20/16 14:02	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	32.2	%	0.10	0.10	1		12/20/16 13:11		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	11.3	ug/kg	1.9	0.57	1	12/09/16 11:09	12/18/16 20:44	83-32-9	
Acenaphthylene	10.9	ug/kg	1.3	0.40	1	12/09/16 11:09	12/18/16 20:44	208-96-8	
Anthracene	23.0	ug/kg	2.2	0.67	1	12/09/16 11:09	12/18/16 20:44	120-12-7	
Benzo(a)anthracene	67.4	ug/kg	2.3	0.69	1	12/09/16 11:09	12/18/16 20:44	56-55-3	
Benzo(a)pyrene	74.6	ug/kg	1.7	0.51	1	12/09/16 11:09	12/18/16 20:44	50-32-8	
Benzo(b)fluoranthene	83.9	ug/kg	2.8	0.84	1	12/09/16 11:09	12/18/16 20:44	205-99-2	
Benzo(g,h,i)perylene	50.9	ug/kg	2.2	0.67	1	12/09/16 11:09	12/18/16 20:44	191-24-2	
Benzo(k)fluoranthene	39.4	ug/kg	2.4	0.72	1	12/09/16 11:09	12/18/16 20:44	207-08-9	
Chrysene	68.3	ug/kg	2.7	0.81	1	12/09/16 11:09	12/18/16 20:44	218-01-9	
Dibenz(a,h)anthracene	16.6	ug/kg	1.6	0.48	1	12/09/16 11:09	12/18/16 20:44	53-70-3	
Fluoranthene	141	ug/kg	3.8	1.1	1	12/09/16 11:09	12/18/16 20:44	206-44-0	
Fluorene	12.7	ug/kg	1.9	0.56	1	12/09/16 11:09	12/18/16 20:44	86-73-7	
Indeno(1,2,3-cd)pyrene	40.7	ug/kg	3.7	1.1	1	12/09/16 11:09	12/18/16 20:44	193-39-5	
Naphthalene	16.5	ug/kg	1.7	0.52	1	12/09/16 11:09	12/18/16 20:44	91-20-3	
Phenanthrene	82.2	ug/kg	2.0	0.59	1	12/09/16 11:09	12/18/16 20:44	85-01-8	
Pyrene	123	ug/kg	4.0	1.2	1	12/09/16 11:09	12/18/16 20:44	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	76	%	41-125		1	12/09/16 11:09	12/18/16 20:44	321-60-8	
p-Terphenyl-d14 (S)	72	%	39-125		1	12/09/16 11:09	12/18/16 20:44	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1790	ug/kg	1790	539	1	12/08/16 10:33	12/10/16 16:42	67-64-1	
Allyl chloride	<235	ug/kg	235	70.5	1	12/08/16 10:33	12/10/16 16:42	107-05-1	
Benzene	<23.6	ug/kg	23.6	7.1	1	12/08/16 10:33	12/10/16 16:42	71-43-2	
Bromobenzene	<70.0	ug/kg	70.0	21.0	1	12/08/16 10:33	12/10/16 16:42	108-86-1	
Bromochloromethane	<81.5	ug/kg	81.5	24.5	1	12/08/16 10:33	12/10/16 16:42	74-97-5	
Bromodichloromethane	<76.6	ug/kg	76.6	23.0	1	12/08/16 10:33	12/10/16 16:42	75-27-4	
Bromoform	<236	ug/kg	236	70.8	1	12/08/16 10:33	12/10/16 16:42	75-25-2	
Bromomethane	<277	ug/kg	277	83.3	1	12/08/16 10:33	12/10/16 16:42	74-83-9	
2-Butanone (MEK)	<361	ug/kg	361	108	1	12/08/16 10:33	12/10/16 16:42	78-93-3	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

Sample: **S-4\_24-26.5** Lab ID: **10372445004** Collected: 12/06/16 10:30 Received: 12/07/16 18:00 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<66.2	ug/kg	66.2	19.9	1	12/08/16 10:33	12/10/16 16:42	104-51-8	
sec-Butylbenzene	<64.6	ug/kg	64.6	19.4	1	12/08/16 10:33	12/10/16 16:42	135-98-8	
tert-Butylbenzene	<86.5	ug/kg	86.5	26.0	1	12/08/16 10:33	12/10/16 16:42	98-06-6	
Carbon tetrachloride	<85.9	ug/kg	85.9	25.8	1	12/08/16 10:33	12/10/16 16:42	56-23-5	
Chlorobenzene	<47.6	ug/kg	47.6	14.3	1	12/08/16 10:33	12/10/16 16:42	108-90-7	
Chloroethane	<432	ug/kg	432	130	1	12/08/16 10:33	12/10/16 16:42	75-00-3	
Chloroform	<133	ug/kg	133	39.9	1	12/08/16 10:33	12/10/16 16:42	67-66-3	
Chloromethane	<132	ug/kg	132	39.8	1	12/08/16 10:33	12/10/16 16:42	74-87-3	
2-Chlorotoluene	<75.5	ug/kg	75.5	22.7	1	12/08/16 10:33	12/10/16 16:42	95-49-8	
4-Chlorotoluene	<71.7	ug/kg	71.7	21.5	1	12/08/16 10:33	12/10/16 16:42	106-43-4	
1,2-Dibromo-3-chloropropane	<160	ug/kg	160	160	1	12/08/16 10:33	12/10/16 16:42	96-12-8	
Dibromochloromethane	<235	ug/kg	235	70.5	1	12/08/16 10:33	12/10/16 16:42	124-48-1	
1,2-Dibromoethane (EDB)	<30.9	ug/kg	30.9	30.9	1	12/08/16 10:33	12/10/16 16:42	106-93-4	
Dibromomethane	<107	ug/kg	107	32.0	1	12/08/16 10:33	12/10/16 16:42	74-95-3	
1,2-Dichlorobenzene	<15.9	ug/kg	15.9	15.9	1	12/08/16 10:33	12/10/16 16:42	95-50-1	
1,3-Dichlorobenzene	<24.2	ug/kg	24.2	24.2	1	12/08/16 10:33	12/10/16 16:42	541-73-1	
1,4-Dichlorobenzene	<79.4	ug/kg	79.4	23.8	1	12/08/16 10:33	12/10/16 16:42	106-46-7	
Dichlorodifluoromethane	<83.7	ug/kg	83.7	25.1	1	12/08/16 10:33	12/10/16 16:42	75-71-8	
1,1-Dichloroethane	<31.9	ug/kg	31.9	31.9	1	12/08/16 10:33	12/10/16 16:42	75-34-3	
1,2-Dichloroethane	<26.0	ug/kg	26.0	26.0	1	12/08/16 10:33	12/10/16 16:42	107-06-2	
1,1-Dichloroethene	<20.9	ug/kg	20.9	20.9	1	12/08/16 10:33	12/10/16 16:42	75-35-4	
cis-1,2-Dichloroethene	<102	ug/kg	102	30.6	1	12/08/16 10:33	12/10/16 16:42	156-59-2	
trans-1,2-Dichloroethene	<132	ug/kg	132	39.6	1	12/08/16 10:33	12/10/16 16:42	156-60-5	
Dichlorofluoromethane	<750	ug/kg	750	225	1	12/08/16 10:33	12/10/16 16:42	75-43-4	
1,2-Dichloropropane	<28.4	ug/kg	28.4	28.4	1	12/08/16 10:33	12/10/16 16:42	78-87-5	
1,3-Dichloropropane	<98.0	ug/kg	98.0	29.4	1	12/08/16 10:33	12/10/16 16:42	142-28-9	
2,2-Dichloropropane	<87.0	ug/kg	87.0	26.1	1	12/08/16 10:33	12/10/16 16:42	594-20-7	
1,1-Dichloropropene	<24.8	ug/kg	24.8	24.8	1	12/08/16 10:33	12/10/16 16:42	563-58-6	
cis-1,3-Dichloropropene	<125	ug/kg	125	37.5	1	12/08/16 10:33	12/10/16 16:42	10061-01-5	
trans-1,3-Dichloropropene	<93.0	ug/kg	93.0	27.9	1	12/08/16 10:33	12/10/16 16:42	10061-02-6	
Diethyl ether (Ethyl ether)	<113	ug/kg	113	33.9	1	12/08/16 10:33	12/10/16 16:42	60-29-7	
Ethylbenzene	<87.0	ug/kg	87.0	26.1	1	12/08/16 10:33	12/10/16 16:42	100-41-4	
Hexachloro-1,3-butadiene	<257	ug/kg	257	77.2	1	12/08/16 10:33	12/10/16 16:42	87-68-3	
Isopropylbenzene (Cumene)	<97.4	ug/kg	97.4	29.3	1	12/08/16 10:33	12/10/16 16:42	98-82-8	
p-Isopropyltoluene	<45.4	ug/kg	45.4	13.6	1	12/08/16 10:33	12/10/16 16:42	99-87-6	
Methylene Chloride	<507	ug/kg	507	152	1	12/08/16 10:33	12/10/16 16:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	<181	ug/kg	181	54.4	1	12/08/16 10:33	12/10/16 16:42	108-10-1	
Methyl-tert-butyl ether	<51.2	ug/kg	51.2	15.4	1	12/08/16 10:33	12/10/16 16:42	1634-04-4	
Naphthalene	<66.2	ug/kg	66.2	19.9	1	12/08/16 10:33	12/10/16 16:42	91-20-3	
n-Propylbenzene	<81.5	ug/kg	81.5	24.5	1	12/08/16 10:33	12/10/16 16:42	103-65-1	
Styrene	<71.1	ug/kg	71.1	21.4	1	12/08/16 10:33	12/10/16 16:42	100-42-5	
1,1,1,2-Tetrachloroethane	<32.5	ug/kg	32.5	32.5	1	12/08/16 10:33	12/10/16 16:42	630-20-6	
1,1,2,2-Tetrachloroethane	<18.2	ug/kg	18.2	18.2	1	12/08/16 10:33	12/10/16 16:42	79-34-5	
Tetrachloroethene	<105	ug/kg	105	31.4	1	12/08/16 10:33	12/10/16 16:42	127-18-4	
Tetrahydrofuran	<1360	ug/kg	1360	408	1	12/08/16 10:33	12/10/16 16:42	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-4\_24-26.5**      **Lab ID: 10372445004**      Collected: 12/06/16 10:30      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<87.0	ug/kg	87.0	26.1	1	12/08/16 10:33	12/10/16 16:42	108-88-3	
1,2,3-Trichlorobenzene	<23.7	ug/kg	23.7	23.7	1	12/08/16 10:33	12/10/16 16:42	87-61-6	
1,2,4-Trichlorobenzene	<25.3	ug/kg	25.3	25.3	1	12/08/16 10:33	12/10/16 16:42	120-82-1	
1,1,1-Trichloroethane	<34.3	ug/kg	34.3	34.3	1	12/08/16 10:33	12/10/16 16:42	71-55-6	
1,1,2-Trichloroethane	<17.7	ug/kg	17.7	17.7	1	12/08/16 10:33	12/10/16 16:42	79-00-5	
Trichloroethene	<78.3	ug/kg	78.3	23.5	1	12/08/16 10:33	12/10/16 16:42	79-01-6	
Trichlorofluoromethane	<275	ug/kg	275	82.5	1	12/08/16 10:33	12/10/16 16:42	75-69-4	
1,2,3-Trichloropropane	<85.1	ug/kg	85.1	85.1	1	12/08/16 10:33	12/10/16 16:42	96-18-4	
1,1,2-Trichlorotrifluoroethane	<197	ug/kg	197	59.2	1	12/08/16 10:33	12/10/16 16:42	76-13-1	
1,2,4-Trimethylbenzene	18.9	ug/kg	18.1	18.1	1	12/08/16 10:33	12/10/16 16:42	95-63-6	
1,3,5-Trimethylbenzene	<62.9	ug/kg	62.9	18.9	1	12/08/16 10:33	12/10/16 16:42	108-67-8	
Vinyl chloride	<35.1	ug/kg	35.1	10.6	1	12/08/16 10:33	12/10/16 16:42	75-01-4	
Xylene (Total)	<219	ug/kg	219	65.7	1	12/08/16 10:33	12/10/16 16:42	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%	75-129		1	12/08/16 10:33	12/10/16 16:42	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/08/16 10:33	12/10/16 16:42	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/08/16 10:33	12/10/16 16:42	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-5\_24-24.5**      **Lab ID: 10372445005**      Collected: 12/06/16 11:30      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	5.7	mg/kg	1.7	0.52	1	12/20/16 16:32	12/22/16 05:10	7440-38-2	
Barium	132	mg/kg	0.14	0.042	1	12/20/16 16:32	12/22/16 05:10	7440-39-3	
Cadmium	0.38	mg/kg	0.083	0.025	1	12/20/16 16:32	12/22/16 05:10	7440-43-9	
Chromium	38.0	mg/kg	0.90	0.27	1	12/20/16 16:32	12/22/16 05:10	7440-47-3	
Lead	30.4	mg/kg	0.87	0.26	1	12/20/16 16:32	12/22/16 05:10	7439-92-1	
Selenium	<2.5	mg/kg	2.5	0.76	1	12/20/16 16:32	12/22/16 05:10	7782-49-2	
Silver	<0.70	mg/kg	0.70	0.21	1	12/20/16 16:32	12/22/16 05:10	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.25	mg/kg	0.051	0.015	1	12/16/16 12:31	12/20/16 14:09	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	67.2	%	0.10	0.10	1		12/20/16 13:11		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	24.1	ug/kg	4.0	1.2	1	12/09/16 11:09	12/18/16 21:06	83-32-9	
Acenaphthylene	<2.8	ug/kg	2.8	0.83	1	12/09/16 11:09	12/18/16 21:06	208-96-8	
Anthracene	64.0	ug/kg	4.6	1.4	1	12/09/16 11:09	12/18/16 21:06	120-12-7	
Benzo(a)anthracene	108	ug/kg	4.8	1.4	1	12/09/16 11:09	12/18/16 21:06	56-55-3	
Benzo(a)pyrene	99.5	ug/kg	3.5	1.1	1	12/09/16 11:09	12/18/16 21:06	50-32-8	
Benzo(b)fluoranthene	117	ug/kg	5.8	1.7	1	12/09/16 11:09	12/18/16 21:06	205-99-2	
Benzo(g,h,i)perylene	61.9	ug/kg	4.6	1.4	1	12/09/16 11:09	12/18/16 21:06	191-24-2	
Benzo(k)fluoranthene	61.5	ug/kg	5.0	1.5	1	12/09/16 11:09	12/18/16 21:06	207-08-9	
Chrysene	108	ug/kg	5.6	1.7	1	12/09/16 11:09	12/18/16 21:06	218-01-9	
Dibenz(a,h)anthracene	21.1	ug/kg	3.3	1.0	1	12/09/16 11:09	12/18/16 21:06	53-70-3	
Fluoranthene	242	ug/kg	8.0	2.4	1	12/09/16 11:09	12/18/16 21:06	206-44-0	
Fluorene	24.7	ug/kg	3.9	1.2	1	12/09/16 11:09	12/18/16 21:06	86-73-7	
Indeno(1,2,3-cd)pyrene	52.8	ug/kg	7.6	2.3	1	12/09/16 11:09	12/18/16 21:06	193-39-5	
Naphthalene	20.0	ug/kg	3.6	1.1	1	12/09/16 11:09	12/18/16 21:06	91-20-3	
Phenanthrene	194	ug/kg	4.1	1.2	1	12/09/16 11:09	12/18/16 21:06	85-01-8	
Pyrene	199	ug/kg	8.4	2.5	1	12/09/16 11:09	12/18/16 21:06	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	76	%	41-125		1	12/09/16 11:09	12/18/16 21:06	321-60-8	
p-Terphenyl-d14 (S)	68	%	39-125		1	12/09/16 11:09	12/18/16 21:06	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<3240	ug/kg	3240	974	1	12/08/16 10:33	12/10/16 16:59	67-64-1	
Allyl chloride	<424	ug/kg	424	127	1	12/08/16 10:33	12/10/16 16:59	107-05-1	
Benzene	<42.7	ug/kg	42.7	12.8	1	12/08/16 10:33	12/10/16 16:59	71-43-2	
Bromobenzene	<127	ug/kg	127	38.0	1	12/08/16 10:33	12/10/16 16:59	108-86-1	
Bromochloromethane	<147	ug/kg	147	44.3	1	12/08/16 10:33	12/10/16 16:59	74-97-5	
Bromodichloromethane	<138	ug/kg	138	41.6	1	12/08/16 10:33	12/10/16 16:59	75-27-4	
Bromoform	<426	ug/kg	426	128	1	12/08/16 10:33	12/10/16 16:59	75-25-2	
Bromomethane	<502	ug/kg	502	151	1	12/08/16 10:33	12/10/16 16:59	74-83-9	
2-Butanone (MEK)	<653	ug/kg	653	196	1	12/08/16 10:33	12/10/16 16:59	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-5\_24-24.5**      **Lab ID: 10372445005**      Collected: 12/06/16 11:30      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<120	ug/kg	120	35.9	1	12/08/16 10:33	12/10/16 16:59	104-51-8	
sec-Butylbenzene	<117	ug/kg	117	35.1	1	12/08/16 10:33	12/10/16 16:59	135-98-8	
tert-Butylbenzene	<156	ug/kg	156	46.9	1	12/08/16 10:33	12/10/16 16:59	98-06-6	
Carbon tetrachloride	<155	ug/kg	155	46.6	1	12/08/16 10:33	12/10/16 16:59	56-23-5	
Chlorobenzene	<86.1	ug/kg	86.1	25.8	1	12/08/16 10:33	12/10/16 16:59	108-90-7	
Chloroethane	<781	ug/kg	781	235	1	12/08/16 10:33	12/10/16 16:59	75-00-3	
Chloroform	<240	ug/kg	240	72.2	1	12/08/16 10:33	12/10/16 16:59	67-66-3	
Chloromethane	<239	ug/kg	239	71.9	1	12/08/16 10:33	12/10/16 16:59	74-87-3	
2-Chlorotoluene	<137	ug/kg	137	41.0	1	12/08/16 10:33	12/10/16 16:59	95-49-8	
4-Chlorotoluene	<130	ug/kg	130	38.9	1	12/08/16 10:33	12/10/16 16:59	106-43-4	
1,2-Dibromo-3-chloropropane	<290	ug/kg	290	290	1	12/08/16 10:33	12/10/16 16:59	96-12-8	
Dibromochloromethane	<424	ug/kg	424	127	1	12/08/16 10:33	12/10/16 16:59	124-48-1	
1,2-Dibromoethane (EDB)	<55.8	ug/kg	55.8	55.8	1	12/08/16 10:33	12/10/16 16:59	106-93-4	
Dibromomethane	<193	ug/kg	193	57.9	1	12/08/16 10:33	12/10/16 16:59	74-95-3	
1,2-Dichlorobenzene	<28.7	ug/kg	28.7	28.7	1	12/08/16 10:33	12/10/16 16:59	95-50-1	
1,3-Dichlorobenzene	<43.7	ug/kg	43.7	43.7	1	12/08/16 10:33	12/10/16 16:59	541-73-1	
1,4-Dichlorobenzene	<143	ug/kg	143	43.1	1	12/08/16 10:33	12/10/16 16:59	106-46-7	
Dichlorodifluoromethane	<151	ug/kg	151	45.4	1	12/08/16 10:33	12/10/16 16:59	75-71-8	
1,1-Dichloroethane	<57.6	ug/kg	57.6	57.6	1	12/08/16 10:33	12/10/16 16:59	75-34-3	
1,2-Dichloroethane	<46.9	ug/kg	46.9	46.9	1	12/08/16 10:33	12/10/16 16:59	107-06-2	
1,1-Dichloroethene	<37.7	ug/kg	37.7	37.7	1	12/08/16 10:33	12/10/16 16:59	75-35-4	
cis-1,2-Dichloroethene	<184	ug/kg	184	55.3	1	12/08/16 10:33	12/10/16 16:59	156-59-2	
trans-1,2-Dichloroethene	<238	ug/kg	238	71.6	1	12/08/16 10:33	12/10/16 16:59	156-60-5	
Dichlorofluoromethane	<1360	ug/kg	1360	407	1	12/08/16 10:33	12/10/16 16:59	75-43-4	
1,2-Dichloropropane	<51.4	ug/kg	51.4	51.4	1	12/08/16 10:33	12/10/16 16:59	78-87-5	
1,3-Dichloropropane	<177	ug/kg	177	53.2	1	12/08/16 10:33	12/10/16 16:59	142-28-9	
2,2-Dichloropropane	<157	ug/kg	157	47.2	1	12/08/16 10:33	12/10/16 16:59	594-20-7	
1,1-Dichloropropene	<44.9	ug/kg	44.9	44.9	1	12/08/16 10:33	12/10/16 16:59	563-58-6	
cis-1,3-Dichloropropene	<226	ug/kg	226	67.7	1	12/08/16 10:33	12/10/16 16:59	10061-01-5	
trans-1,3-Dichloropropene	<168	ug/kg	168	50.5	1	12/08/16 10:33	12/10/16 16:59	10061-02-6	
Diethyl ether (Ethyl ether)	<204	ug/kg	204	61.2	1	12/08/16 10:33	12/10/16 16:59	60-29-7	
Ethylbenzene	<157	ug/kg	157	47.2	1	12/08/16 10:33	12/10/16 16:59	100-41-4	
Hexachloro-1,3-butadiene	<465	ug/kg	465	140	1	12/08/16 10:33	12/10/16 16:59	87-68-3	
Isopropylbenzene (Cumene)	<176	ug/kg	176	52.9	1	12/08/16 10:33	12/10/16 16:59	98-82-8	
p-Isopropyltoluene	<82.1	ug/kg	82.1	24.7	1	12/08/16 10:33	12/10/16 16:59	99-87-6	
Methylene Chloride	<916	ug/kg	916	275	1	12/08/16 10:33	12/10/16 16:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	<327	ug/kg	327	98.3	1	12/08/16 10:33	12/10/16 16:59	108-10-1	
Methyl-tert-butyl ether	<92.6	ug/kg	92.6	27.8	1	12/08/16 10:33	12/10/16 16:59	1634-04-4	
Naphthalene	<120	ug/kg	120	35.9	1	12/08/16 10:33	12/10/16 16:59	91-20-3	
n-Propylbenzene	<147	ug/kg	147	44.3	1	12/08/16 10:33	12/10/16 16:59	103-65-1	
Styrene	<129	ug/kg	129	38.6	1	12/08/16 10:33	12/10/16 16:59	100-42-5	
1,1,1,2-Tetrachloroethane	<58.8	ug/kg	58.8	58.8	1	12/08/16 10:33	12/10/16 16:59	630-20-6	
1,1,2,2-Tetrachloroethane	<33.0	ug/kg	33.0	33.0	1	12/08/16 10:33	12/10/16 16:59	79-34-5	
Tetrachloroethene	<189	ug/kg	189	56.7	1	12/08/16 10:33	12/10/16 16:59	127-18-4	
Tetrahydrofuran	<2450	ug/kg	2450	737	1	12/08/16 10:33	12/10/16 16:59	109-99-9	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-5\_24-24.5**      **Lab ID: 10372445005**      Collected: 12/06/16 11:30      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<157	ug/kg	157	47.2	1	12/08/16 10:33	12/10/16 16:59	108-88-3	
1,2,3-Trichlorobenzene	<42.8	ug/kg	42.8	42.8	1	12/08/16 10:33	12/10/16 16:59	87-61-6	
1,2,4-Trichlorobenzene	<45.7	ug/kg	45.7	45.7	1	12/08/16 10:33	12/10/16 16:59	120-82-1	
1,1,1-Trichloroethane	<62.1	ug/kg	62.1	62.1	1	12/08/16 10:33	12/10/16 16:59	71-55-6	
1,1,2-Trichloroethane	<32.1	ug/kg	32.1	32.1	1	12/08/16 10:33	12/10/16 16:59	79-00-5	
Trichloroethene	<141	ug/kg	141	42.5	1	12/08/16 10:33	12/10/16 16:59	79-01-6	
Trichlorofluoromethane	<497	ug/kg	497	149	1	12/08/16 10:33	12/10/16 16:59	75-69-4	
1,2,3-Trichloropropane	<154	ug/kg	154	154	1	12/08/16 10:33	12/10/16 16:59	96-18-4	
1,1,2-Trichlorotrifluoroethane	<356	ug/kg	356	107	1	12/08/16 10:33	12/10/16 16:59	76-13-1	
1,2,4-Trimethylbenzene	<32.7	ug/kg	32.7	32.7	1	12/08/16 10:33	12/10/16 16:59	95-63-6	
1,3,5-Trimethylbenzene	<114	ug/kg	114	34.2	1	12/08/16 10:33	12/10/16 16:59	108-67-8	
Vinyl chloride	<63.5	ug/kg	63.5	19.1	1	12/08/16 10:33	12/10/16 16:59	75-01-4	
Xylene (Total)	<396	ug/kg	396	119	1	12/08/16 10:33	12/10/16 16:59	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-129		1	12/08/16 10:33	12/10/16 16:59	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/08/16 10:33	12/10/16 16:59	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	12/08/16 10:33	12/10/16 16:59	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-5\_24.5-25.5**      **Lab ID: 10372445006**      Collected: 12/06/16 11:45      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	3.7	mg/kg	0.77	0.23	1	12/20/16 16:32	12/22/16 05:13	7440-38-2	
Barium	58.8	mg/kg	0.062	0.019	1	12/20/16 16:32	12/22/16 05:13	7440-39-3	
Cadmium	0.58	mg/kg	0.037	0.011	1	12/20/16 16:32	12/22/16 05:13	7440-43-9	
Chromium	16.5	mg/kg	0.40	0.12	1	12/20/16 16:32	12/22/16 05:13	7440-47-3	
Lead	41.0	mg/kg	0.39	0.12	1	12/20/16 16:32	12/22/16 05:13	7439-92-1	
Selenium	<1.1	mg/kg	1.1	0.34	1	12/20/16 16:32	12/22/16 05:13	7782-49-2	
Silver	0.51	mg/kg	0.31	0.093	1	12/20/16 16:32	12/22/16 05:13	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.55	mg/kg	0.028	0.0083	1	12/16/16 12:31	12/20/16 14:11	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	39.6	%	0.10	0.10	1		12/20/16 13:11		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	69.4	ug/kg	2.2	0.65	1	12/09/16 11:09	12/18/16 21:49	83-32-9	
Acenaphthylene	18.0	ug/kg	1.5	0.45	1	12/09/16 11:09	12/18/16 21:49	208-96-8	
Anthracene	125	ug/kg	2.5	0.75	1	12/09/16 11:09	12/18/16 21:49	120-12-7	
Benzo(a)anthracene	261	ug/kg	2.6	0.78	1	12/09/16 11:09	12/18/16 21:49	56-55-3	
Benzo(a)pyrene	251	ug/kg	1.9	0.57	1	12/09/16 11:09	12/18/16 21:49	50-32-8	
Benzo(b)fluoranthene	295	ug/kg	3.2	0.95	1	12/09/16 11:09	12/18/16 21:49	205-99-2	
Benzo(g,h,i)perylene	147	ug/kg	2.5	0.76	1	12/09/16 11:09	12/18/16 21:49	191-24-2	
Benzo(k)fluoranthene	141	ug/kg	2.7	0.81	1	12/09/16 11:09	12/18/16 21:49	207-08-9	
Chrysene	253	ug/kg	3.1	0.92	1	12/09/16 11:09	12/18/16 21:49	218-01-9	
Dibenz(a,h)anthracene	45.1	ug/kg	1.8	0.54	1	12/09/16 11:09	12/18/16 21:49	53-70-3	
Fluoranthene	665	ug/kg	8.6	2.6	2	12/09/16 11:09	12/19/16 23:30	206-44-0	
Fluorene	77.9	ug/kg	2.1	0.64	1	12/09/16 11:09	12/18/16 21:49	86-73-7	
Indeno(1,2,3-cd)pyrene	122	ug/kg	4.1	1.2	1	12/09/16 11:09	12/18/16 21:49	193-39-5	
Naphthalene	66.7	ug/kg	2.0	0.59	1	12/09/16 11:09	12/18/16 21:49	91-20-3	
Phenanthrene	513	ug/kg	2.2	0.67	1	12/09/16 11:09	12/18/16 21:49	85-01-8	
Pyrene	502	ug/kg	4.6	1.4	1	12/09/16 11:09	12/18/16 21:49	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	71	%	41-125		1	12/09/16 11:09	12/18/16 21:49	321-60-8	
p-Terphenyl-d14 (S)	63	%	39-125		1	12/09/16 11:09	12/18/16 21:49	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<2140	ug/kg	2140	643	1	12/08/16 10:33	12/10/16 17:17	67-64-1	
Allyl chloride	<280	ug/kg	280	84.1	1	12/08/16 10:33	12/10/16 17:17	107-05-1	
Benzene	<28.2	ug/kg	28.2	8.5	1	12/08/16 10:33	12/10/16 17:17	71-43-2	
Bromobenzene	<83.5	ug/kg	83.5	25.1	1	12/08/16 10:33	12/10/16 17:17	108-86-1	
Bromochloromethane	<97.3	ug/kg	97.3	29.2	1	12/08/16 10:33	12/10/16 17:17	74-97-5	
Bromodichloromethane	<91.4	ug/kg	91.4	27.4	1	12/08/16 10:33	12/10/16 17:17	75-27-4	
Bromoform	<281	ug/kg	281	84.5	1	12/08/16 10:33	12/10/16 17:17	75-25-2	
Bromomethane	<331	ug/kg	331	99.4	1	12/08/16 10:33	12/10/16 17:17	74-83-9	
2-Butanone (MEK)	<431	ug/kg	431	129	1	12/08/16 10:33	12/10/16 17:17	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-5\_24.5-25.5**      **Lab ID: 10372445006**      Collected: 12/06/16 11:45      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<79.0	ug/kg	79.0	23.7	1	12/08/16 10:33	12/10/16 17:17	104-51-8	
sec-Butylbenzene	<77.0	ug/kg	77.0	23.1	1	12/08/16 10:33	12/10/16 17:17	135-98-8	
tert-Butylbenzene	<103	ug/kg	103	31.0	1	12/08/16 10:33	12/10/16 17:17	98-06-6	
Carbon tetrachloride	<102	ug/kg	102	30.8	1	12/08/16 10:33	12/10/16 17:17	56-23-5	
Chlorobenzene	<56.8	ug/kg	56.8	17.1	1	12/08/16 10:33	12/10/16 17:17	108-90-7	
Chloroethane	<516	ug/kg	516	155	1	12/08/16 10:33	12/10/16 17:17	75-00-3	
Chloroform	<159	ug/kg	159	47.6	1	12/08/16 10:33	12/10/16 17:17	67-66-3	
Chloromethane	<158	ug/kg	158	47.4	1	12/08/16 10:33	12/10/16 17:17	74-87-3	
2-Chlorotoluene	<90.1	ug/kg	90.1	27.0	1	12/08/16 10:33	12/10/16 17:17	95-49-8	
4-Chlorotoluene	<85.5	ug/kg	85.5	25.7	1	12/08/16 10:33	12/10/16 17:17	106-43-4	
1,2-Dibromo-3-chloropropane	<191	ug/kg	191	191	1	12/08/16 10:33	12/10/16 17:17	96-12-8	
Dibromochloromethane	<280	ug/kg	280	84.1	1	12/08/16 10:33	12/10/16 17:17	124-48-1	
1,2-Dibromoethane (EDB)	<36.9	ug/kg	36.9	36.9	1	12/08/16 10:33	12/10/16 17:17	106-93-4	
Dibromomethane	<127	ug/kg	127	38.2	1	12/08/16 10:33	12/10/16 17:17	74-95-3	
1,2-Dichlorobenzene	<18.9	ug/kg	18.9	18.9	1	12/08/16 10:33	12/10/16 17:17	95-50-1	
1,3-Dichlorobenzene	<28.8	ug/kg	28.8	28.8	1	12/08/16 10:33	12/10/16 17:17	541-73-1	
1,4-Dichlorobenzene	<94.6	ug/kg	94.6	28.4	1	12/08/16 10:33	12/10/16 17:17	106-46-7	
Dichlorodifluoromethane	<99.9	ug/kg	99.9	30.0	1	12/08/16 10:33	12/10/16 17:17	75-71-8	
1,1-Dichloroethane	<38.0	ug/kg	38.0	38.0	1	12/08/16 10:33	12/10/16 17:17	75-34-3	
1,2-Dichloroethane	<31.0	ug/kg	31.0	31.0	1	12/08/16 10:33	12/10/16 17:17	107-06-2	
1,1-Dichloroethene	<24.9	ug/kg	24.9	24.9	1	12/08/16 10:33	12/10/16 17:17	75-35-4	
cis-1,2-Dichloroethene	<121	ug/kg	121	36.5	1	12/08/16 10:33	12/10/16 17:17	156-59-2	
trans-1,2-Dichloroethene	<157	ug/kg	157	47.2	1	12/08/16 10:33	12/10/16 17:17	156-60-5	
Dichlorofluoromethane	<894	ug/kg	894	269	1	12/08/16 10:33	12/10/16 17:17	75-43-4	
1,2-Dichloropropane	<33.9	ug/kg	33.9	33.9	1	12/08/16 10:33	12/10/16 17:17	78-87-5	
1,3-Dichloropropane	<117	ug/kg	117	35.1	1	12/08/16 10:33	12/10/16 17:17	142-28-9	
2,2-Dichloropropane	<104	ug/kg	104	31.2	1	12/08/16 10:33	12/10/16 17:17	594-20-7	
1,1-Dichloropropene	<29.6	ug/kg	29.6	29.6	1	12/08/16 10:33	12/10/16 17:17	563-58-6	
cis-1,3-Dichloropropene	<149	ug/kg	149	44.7	1	12/08/16 10:33	12/10/16 17:17	10061-01-5	
trans-1,3-Dichloropropene	<111	ug/kg	111	33.3	1	12/08/16 10:33	12/10/16 17:17	10061-02-6	
Diethyl ether (Ethyl ether)	<134	ug/kg	134	40.4	1	12/08/16 10:33	12/10/16 17:17	60-29-7	
Ethylbenzene	<104	ug/kg	104	31.2	1	12/08/16 10:33	12/10/16 17:17	100-41-4	
Hexachloro-1,3-butadiene	<307	ug/kg	307	92.1	1	12/08/16 10:33	12/10/16 17:17	87-68-3	
Isopropylbenzene (Cumene)	<116	ug/kg	116	34.9	1	12/08/16 10:33	12/10/16 17:17	98-82-8	
p-Isopropyltoluene	<54.2	ug/kg	54.2	16.3	1	12/08/16 10:33	12/10/16 17:17	99-87-6	
Methylene Chloride	<604	ug/kg	604	182	1	12/08/16 10:33	12/10/16 17:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	<216	ug/kg	216	64.9	1	12/08/16 10:33	12/10/16 17:17	108-10-1	
Methyl-tert-butyl ether	<61.1	ug/kg	61.1	18.3	1	12/08/16 10:33	12/10/16 17:17	1634-04-4	
Naphthalene	<79.0	ug/kg	79.0	23.7	1	12/08/16 10:33	12/10/16 17:17	91-20-3	
n-Propylbenzene	<97.3	ug/kg	97.3	29.2	1	12/08/16 10:33	12/10/16 17:17	103-65-1	
Styrene	<84.9	ug/kg	84.9	25.5	1	12/08/16 10:33	12/10/16 17:17	100-42-5	
1,1,1,2-Tetrachloroethane	<38.8	ug/kg	38.8	38.8	1	12/08/16 10:33	12/10/16 17:17	630-20-6	
1,1,2,2-Tetrachloroethane	<21.8	ug/kg	21.8	21.8	1	12/08/16 10:33	12/10/16 17:17	79-34-5	
Tetrachloroethene	<125	ug/kg	125	37.4	1	12/08/16 10:33	12/10/16 17:17	127-18-4	
Tetrahydrofuran	<1620	ug/kg	1620	486	1	12/08/16 10:33	12/10/16 17:17	109-99-9	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-5\_24.5-25.5**      **Lab ID: 10372445006**      Collected: 12/06/16 11:45      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<104	ug/kg	104	31.2	1	12/08/16 10:33	12/10/16 17:17	108-88-3	
1,2,3-Trichlorobenzene	<28.2	ug/kg	28.2	28.2	1	12/08/16 10:33	12/10/16 17:17	87-61-6	
1,2,4-Trichlorobenzene	<30.2	ug/kg	30.2	30.2	1	12/08/16 10:33	12/10/16 17:17	120-82-1	
1,1,1-Trichloroethane	<41.0	ug/kg	41.0	41.0	1	12/08/16 10:33	12/10/16 17:17	71-55-6	
1,1,2-Trichloroethane	<21.2	ug/kg	21.2	21.2	1	12/08/16 10:33	12/10/16 17:17	79-00-5	
Trichloroethene	<93.3	ug/kg	93.3	28.0	1	12/08/16 10:33	12/10/16 17:17	79-01-6	
Trichlorofluoromethane	<328	ug/kg	328	98.4	1	12/08/16 10:33	12/10/16 17:17	75-69-4	
1,2,3-Trichloropropane	<102	ug/kg	102	102	1	12/08/16 10:33	12/10/16 17:17	96-18-4	
1,1,2-Trichlorotrifluoroethane	<235	ug/kg	235	70.6	1	12/08/16 10:33	12/10/16 17:17	76-13-1	
1,2,4-Trimethylbenzene	<21.6	ug/kg	21.6	21.6	1	12/08/16 10:33	12/10/16 17:17	95-63-6	
1,3,5-Trimethylbenzene	<75.1	ug/kg	75.1	22.5	1	12/08/16 10:33	12/10/16 17:17	108-67-8	
Vinyl chloride	<41.9	ug/kg	41.9	12.6	1	12/08/16 10:33	12/10/16 17:17	75-01-4	
Xylene (Total)	<261	ug/kg	261	78.4	1	12/08/16 10:33	12/10/16 17:17	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-129		1	12/08/16 10:33	12/10/16 17:17	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/08/16 10:33	12/10/16 17:17	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/08/16 10:33	12/10/16 17:17	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-6\_23-23.5**      **Lab ID: 10372445007**      Collected: 12/06/16 12:15      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	4.3	mg/kg	1.1	0.33	1	12/20/16 16:32	12/22/16 05:15	7440-38-2	
Barium	101	mg/kg	0.087	0.026	1	12/20/16 16:32	12/22/16 05:15	7440-39-3	
Cadmium	0.39	mg/kg	0.052	0.016	1	12/20/16 16:32	12/22/16 05:15	7440-43-9	
Chromium	25.6	mg/kg	0.57	0.17	1	12/20/16 16:32	12/22/16 05:15	7440-47-3	
Lead	31.5	mg/kg	0.54	0.16	1	12/20/16 16:32	12/22/16 05:15	7439-92-1	
Selenium	<1.6	mg/kg	1.6	0.47	1	12/20/16 16:32	12/22/16 05:15	7782-49-2	
Silver	0.58	mg/kg	0.44	0.13	1	12/20/16 16:32	12/22/16 05:15	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.30	mg/kg	0.038	0.012	1	12/16/16 12:31	12/20/16 14:13	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	56.3	%	0.10	0.10	1		12/20/16 13:12		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	18.7	ug/kg	3.0	0.89	1	12/09/16 11:09	12/18/16 22:10	83-32-9	
Acenaphthylene	14.8	ug/kg	2.1	0.62	1	12/09/16 11:09	12/18/16 22:10	208-96-8	
Anthracene	53.1	ug/kg	3.4	1.0	1	12/09/16 11:09	12/18/16 22:10	120-12-7	
Benzo(a)anthracene	94.1	ug/kg	3.6	1.1	1	12/09/16 11:09	12/18/16 22:10	56-55-3	
Benzo(a)pyrene	105	ug/kg	2.6	0.79	1	12/09/16 11:09	12/18/16 22:10	50-32-8	
Benzo(b)fluoranthene	120	ug/kg	4.4	1.3	1	12/09/16 11:09	12/18/16 22:10	205-99-2	
Benzo(g,h,i)perylene	72.6	ug/kg	3.5	1.0	1	12/09/16 11:09	12/18/16 22:10	191-24-2	
Benzo(k)fluoranthene	58.3	ug/kg	3.7	1.1	1	12/09/16 11:09	12/18/16 22:10	207-08-9	
Chrysene	97.9	ug/kg	4.2	1.3	1	12/09/16 11:09	12/18/16 22:10	218-01-9	
Dibenz(a,h)anthracene	23.4	ug/kg	2.5	0.75	1	12/09/16 11:09	12/18/16 22:10	53-70-3	
Fluoranthene	203	ug/kg	6.0	1.8	1	12/09/16 11:09	12/18/16 22:10	206-44-0	
Fluorene	24.7	ug/kg	2.9	0.88	1	12/09/16 11:09	12/18/16 22:10	86-73-7	
Indeno(1,2,3-cd)pyrene	62.2	ug/kg	5.7	1.7	1	12/09/16 11:09	12/18/16 22:10	193-39-5	
Naphthalene	26.4	ug/kg	2.7	0.81	1	12/09/16 11:09	12/18/16 22:10	91-20-3	
Phenanthrene	142	ug/kg	3.1	0.92	1	12/09/16 11:09	12/18/16 22:10	85-01-8	
Pyrene	175	ug/kg	6.3	1.9	1	12/09/16 11:09	12/18/16 22:10	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	66	%	41-125		1	12/09/16 11:09	12/18/16 22:10	321-60-8	
p-Terphenyl-d14 (S)	59	%	39-125		1	12/09/16 11:09	12/18/16 22:10	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<2400	ug/kg	2400	722	1	12/08/16 10:33	12/14/16 13:54	67-64-1	
Allyl chloride	<314	ug/kg	314	94.4	1	12/08/16 10:33	12/14/16 13:54	107-05-1	
Benzene	<31.7	ug/kg	31.7	9.5	1	12/08/16 10:33	12/14/16 13:54	71-43-2	
Bromobenzene	<93.8	ug/kg	93.8	28.2	1	12/08/16 10:33	12/14/16 13:54	108-86-1	
Bromochloromethane	<109	ug/kg	109	32.8	1	12/08/16 10:33	12/14/16 13:54	74-97-5	
Bromodichloromethane	<103	ug/kg	103	30.8	1	12/08/16 10:33	12/14/16 13:54	75-27-4	
Bromoform	<316	ug/kg	316	94.8	1	12/08/16 10:33	12/14/16 13:54	75-25-2	
Bromomethane	<372	ug/kg	372	112	1	12/08/16 10:33	12/14/16 13:54	74-83-9	
2-Butanone (MEK)	<484	ug/kg	484	145	1	12/08/16 10:33	12/14/16 13:54	78-93-3	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-6\_23-23.5**      **Lab ID: 10372445007**      Collected: 12/06/16 12:15      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<88.7	ug/kg	88.7	26.6	1	12/08/16 10:33	12/14/16 13:54	104-51-8	
sec-Butylbenzene	<86.5	ug/kg	86.5	26.0	1	12/08/16 10:33	12/14/16 13:54	135-98-8	
tert-Butylbenzene	<116	ug/kg	116	34.8	1	12/08/16 10:33	12/14/16 13:54	98-06-6	
Carbon tetrachloride	<115	ug/kg	115	34.5	1	12/08/16 10:33	12/14/16 13:54	56-23-5	
Chlorobenzene	<63.7	ug/kg	63.7	19.1	1	12/08/16 10:33	12/14/16 13:54	108-90-7	
Chloroethane	<579	ug/kg	579	174	1	12/08/16 10:33	12/14/16 13:54	75-00-3	
Chloroform	<178	ug/kg	178	53.5	1	12/08/16 10:33	12/14/16 13:54	67-66-3	
Chloromethane	<177	ug/kg	177	53.3	1	12/08/16 10:33	12/14/16 13:54	74-87-3	
2-Chlorotoluene	<101	ug/kg	101	30.4	1	12/08/16 10:33	12/14/16 13:54	95-49-8	
4-Chlorotoluene	<96.0	ug/kg	96.0	28.8	1	12/08/16 10:33	12/14/16 13:54	106-43-4	
1,2-Dibromo-3-chloropropane	<215	ug/kg	215	215	1	12/08/16 10:33	12/14/16 13:54	96-12-8	
Dibromochloromethane	<314	ug/kg	314	94.4	1	12/08/16 10:33	12/14/16 13:54	124-48-1	
1,2-Dibromoethane (EDB)	<41.4	ug/kg	41.4	41.4	1	12/08/16 10:33	12/14/16 13:54	106-93-4	
Dibromomethane	<143	ug/kg	143	42.9	1	12/08/16 10:33	12/14/16 13:54	74-95-3	
1,2-Dichlorobenzene	<21.3	ug/kg	21.3	21.3	1	12/08/16 10:33	12/14/16 13:54	95-50-1	
1,3-Dichlorobenzene	<32.3	ug/kg	32.3	32.3	1	12/08/16 10:33	12/14/16 13:54	541-73-1	
1,4-Dichlorobenzene	<106	ug/kg	106	31.9	1	12/08/16 10:33	12/14/16 13:54	106-46-7	
Dichlorodifluoromethane	<112	ug/kg	112	33.7	1	12/08/16 10:33	12/14/16 13:54	75-71-8	
1,1-Dichloroethane	<42.7	ug/kg	42.7	42.7	1	12/08/16 10:33	12/14/16 13:54	75-34-3	
1,2-Dichloroethane	<34.8	ug/kg	34.8	34.8	1	12/08/16 10:33	12/14/16 13:54	107-06-2	
1,1-Dichloroethene	<27.9	ug/kg	27.9	27.9	1	12/08/16 10:33	12/14/16 13:54	75-35-4	
cis-1,2-Dichloroethene	<136	ug/kg	136	40.9	1	12/08/16 10:33	12/14/16 13:54	156-59-2	
trans-1,2-Dichloroethene	<177	ug/kg	177	53.0	1	12/08/16 10:33	12/14/16 13:54	156-60-5	
Dichlorofluoromethane	<1000	ug/kg	1000	301	1	12/08/16 10:33	12/14/16 13:54	75-43-4	
1,2-Dichloropropane	<38.1	ug/kg	38.1	38.1	1	12/08/16 10:33	12/14/16 13:54	78-87-5	
1,3-Dichloropropane	<131	ug/kg	131	39.4	1	12/08/16 10:33	12/14/16 13:54	142-28-9	
2,2-Dichloropropane	<117	ug/kg	117	35.0	1	12/08/16 10:33	12/14/16 13:54	594-20-7	
1,1-Dichloropropene	<33.2	ug/kg	33.2	33.2	1	12/08/16 10:33	12/14/16 13:54	563-58-6	
cis-1,3-Dichloropropene	<167	ug/kg	167	50.2	1	12/08/16 10:33	12/14/16 13:54	10061-01-5	
trans-1,3-Dichloropropene	<125	ug/kg	125	37.4	1	12/08/16 10:33	12/14/16 13:54	10061-02-6	
Diethyl ether (Ethyl ether)	<151	ug/kg	151	45.3	1	12/08/16 10:33	12/14/16 13:54	60-29-7	
Ethylbenzene	<117	ug/kg	117	35.0	1	12/08/16 10:33	12/14/16 13:54	100-41-4	
Hexachloro-1,3-butadiene	<344	ug/kg	344	103	1	12/08/16 10:33	12/14/16 13:54	87-68-3	
Isopropylbenzene (Cumene)	<130	ug/kg	130	39.2	1	12/08/16 10:33	12/14/16 13:54	98-82-8	
p-Isopropyltoluene	<60.8	ug/kg	60.8	18.3	1	12/08/16 10:33	12/14/16 13:54	99-87-6	
Methylene Chloride	<679	ug/kg	679	204	1	12/08/16 10:33	12/14/16 13:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	<243	ug/kg	243	72.8	1	12/08/16 10:33	12/14/16 13:54	108-10-1	
Methyl-tert-butyl ether	<68.6	ug/kg	68.6	20.6	1	12/08/16 10:33	12/14/16 13:54	1634-04-4	
Naphthalene	<88.7	ug/kg	88.7	26.6	1	12/08/16 10:33	12/14/16 13:54	91-20-3	
n-Propylbenzene	<109	ug/kg	109	32.8	1	12/08/16 10:33	12/14/16 13:54	103-65-1	
Styrene	<95.3	ug/kg	95.3	28.6	1	12/08/16 10:33	12/14/16 13:54	100-42-5	
1,1,1,2-Tetrachloroethane	<43.6	ug/kg	43.6	43.6	1	12/08/16 10:33	12/14/16 13:54	630-20-6	
1,1,2,2-Tetrachloroethane	<24.4	ug/kg	24.4	24.4	1	12/08/16 10:33	12/14/16 13:54	79-34-5	
Tetrachloroethene	<140	ug/kg	140	42.0	1	12/08/16 10:33	12/14/16 13:54	127-18-4	
Tetrahydrofuran	<1820	ug/kg	1820	546	1	12/08/16 10:33	12/14/16 13:54	109-99-9	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-6\_23-23.5**      **Lab ID: 10372445007**      Collected: 12/06/16 12:15      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<b>228</b>	ug/kg	117	35.0	1	12/08/16 10:33	12/14/16 13:54	108-88-3	
1,2,3-Trichlorobenzene	<b>&lt;31.7</b>	ug/kg	31.7	31.7	1	12/08/16 10:33	12/14/16 13:54	87-61-6	
1,2,4-Trichlorobenzene	<b>&lt;33.9</b>	ug/kg	33.9	33.9	1	12/08/16 10:33	12/14/16 13:54	120-82-1	
1,1,1-Trichloroethane	<b>&lt;46.0</b>	ug/kg	46.0	46.0	1	12/08/16 10:33	12/14/16 13:54	71-55-6	
1,1,2-Trichloroethane	<b>&lt;23.8</b>	ug/kg	23.8	23.8	1	12/08/16 10:33	12/14/16 13:54	79-00-5	
Trichloroethene	<b>&lt;105</b>	ug/kg	105	31.5	1	12/08/16 10:33	12/14/16 13:54	79-01-6	
Trichlorofluoromethane	<b>&lt;368</b>	ug/kg	368	110	1	12/08/16 10:33	12/14/16 13:54	75-69-4	
1,2,3-Trichloropropane	<b>&lt;114</b>	ug/kg	114	114	1	12/08/16 10:33	12/14/16 13:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;264</b>	ug/kg	264	79.2	1	12/08/16 10:33	12/14/16 13:54	76-13-1	
1,2,4-Trimethylbenzene	<b>&lt;24.2</b>	ug/kg	24.2	24.2	1	12/08/16 10:33	12/14/16 13:54	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;84.3</b>	ug/kg	84.3	25.3	1	12/08/16 10:33	12/14/16 13:54	108-67-8	
Vinyl chloride	<b>&lt;47.0</b>	ug/kg	47.0	14.1	1	12/08/16 10:33	12/14/16 13:54	75-01-4	
Xylene (Total)	<b>&lt;293</b>	ug/kg	293	88.0	1	12/08/16 10:33	12/14/16 13:54	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%	75-129		1	12/08/16 10:33	12/14/16 13:54	17060-07-0	
Toluene-d8 (S)	104	%	75-125		1	12/08/16 10:33	12/14/16 13:54	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/08/16 10:33	12/14/16 13:54	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-6\_23.5-24.5**      **Lab ID: 10372445008**      Collected: 12/06/16 12:30      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	3.7	mg/kg	0.82	0.25	1	12/20/16 16:32	12/22/16 05:18	7440-38-2	
Barium	99.1	mg/kg	0.065	0.020	1	12/20/16 16:32	12/22/16 05:18	7440-39-3	
Cadmium	0.15	mg/kg	0.039	0.012	1	12/20/16 16:32	12/22/16 05:18	7440-43-9	
Chromium	22.0	mg/kg	0.42	0.13	1	12/20/16 16:32	12/22/16 05:18	7440-47-3	
Lead	26.2	mg/kg	0.41	0.12	1	12/20/16 16:32	12/22/16 05:18	7439-92-1	
Selenium	<1.2	mg/kg	1.2	0.36	1	12/20/16 16:32	12/22/16 05:18	7782-49-2	
Silver	0.40	mg/kg	0.33	0.098	1	12/20/16 16:32	12/22/16 05:18	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.75	mg/kg	0.022	0.0066	1	12/16/16 12:31	12/20/16 14:15	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	30.9	%	0.10	0.10	1		12/20/16 13:12		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	44.2	ug/kg	1.9	0.56	1	12/09/16 11:09	12/18/16 22:32	83-32-9	
Acenaphthylene	54.4	ug/kg	1.3	0.39	1	12/09/16 11:09	12/18/16 22:32	208-96-8	
Anthracene	87.1	ug/kg	2.2	0.66	1	12/09/16 11:09	12/18/16 22:32	120-12-7	
Benzo(a)anthracene	282	ug/kg	2.3	0.68	1	12/09/16 11:09	12/18/16 22:32	56-55-3	
Benzo(a)pyrene	305	ug/kg	1.7	0.50	1	12/09/16 11:09	12/18/16 22:32	50-32-8	
Benzo(b)fluoranthene	304	ug/kg	2.8	0.83	1	12/09/16 11:09	12/18/16 22:32	205-99-2	
Benzo(g,h,i)perylene	190	ug/kg	2.2	0.66	1	12/09/16 11:09	12/18/16 22:32	191-24-2	
Benzo(k)fluoranthene	127	ug/kg	2.4	0.71	1	12/09/16 11:09	12/18/16 22:32	207-08-9	
Chrysene	264	ug/kg	2.7	0.80	1	12/09/16 11:09	12/18/16 22:32	218-01-9	
Dibenz(a,h)anthracene	51.7	ug/kg	1.6	0.47	1	12/09/16 11:09	12/18/16 22:32	53-70-3	
Fluoranthene	546	ug/kg	7.5	2.3	2	12/09/16 11:09	12/19/16 23:52	206-44-0	
Fluorene	50.3	ug/kg	1.8	0.55	1	12/09/16 11:09	12/18/16 22:32	86-73-7	
Indeno(1,2,3-cd)pyrene	140	ug/kg	3.6	1.1	1	12/09/16 11:09	12/18/16 22:32	193-39-5	
Naphthalene	27.0	ug/kg	1.7	0.52	1	12/09/16 11:09	12/18/16 22:32	91-20-3	
Phenanthrene	226	ug/kg	1.9	0.58	1	12/09/16 11:09	12/18/16 22:32	85-01-8	
Pyrene	549	ug/kg	8.0	2.4	2	12/09/16 11:09	12/19/16 23:52	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	74	%	41-125		1	12/09/16 11:09	12/18/16 22:32	321-60-8	
p-Terphenyl-d14 (S)	72	%	39-125		1	12/09/16 11:09	12/18/16 22:32	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<2450	ug/kg	2450	737	1	12/08/16 10:33	12/13/16 20:22	67-64-1	
Allyl chloride	<321	ug/kg	321	96.3	1	12/08/16 10:33	12/13/16 20:22	107-05-1	
Benzene	<32.3	ug/kg	32.3	9.7	1	12/08/16 10:33	12/13/16 20:22	71-43-2	
Bromobenzene	<95.7	ug/kg	95.7	28.7	1	12/08/16 10:33	12/13/16 20:22	108-86-1	
Bromochloromethane	<111	ug/kg	111	33.5	1	12/08/16 10:33	12/13/16 20:22	74-97-5	
Bromodichloromethane	<105	ug/kg	105	31.4	1	12/08/16 10:33	12/13/16 20:22	75-27-4	
Bromoform	<322	ug/kg	322	96.8	1	12/08/16 10:33	12/13/16 20:22	75-25-2	
Bromomethane	<379	ug/kg	379	114	1	12/08/16 10:33	12/13/16 20:22	74-83-9	
2-Butanone (MEK)	<494	ug/kg	494	148	1	12/08/16 10:33	12/13/16 20:22	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

Sample: S-6\_23.5-24.5 Lab ID: 10372445008 Collected: 12/06/16 12:30 Received: 12/07/16 18:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<90.5	ug/kg	90.5	27.2	1	12/08/16 10:33	12/13/16 20:22	104-51-8	
sec-Butylbenzene	<88.2	ug/kg	88.2	26.5	1	12/08/16 10:33	12/13/16 20:22	135-98-8	
tert-Butylbenzene	<118	ug/kg	118	35.5	1	12/08/16 10:33	12/13/16 20:22	98-06-6	
Carbon tetrachloride	<117	ug/kg	117	35.3	1	12/08/16 10:33	12/13/16 20:22	56-23-5	
Chlorobenzene	<65.1	ug/kg	65.1	19.5	1	12/08/16 10:33	12/13/16 20:22	108-90-7	
Chloroethane	<591	ug/kg	591	177	1	12/08/16 10:33	12/13/16 20:22	75-00-3	
Chloroform	<182	ug/kg	182	54.6	1	12/08/16 10:33	12/13/16 20:22	67-66-3	
Chloromethane	<181	ug/kg	181	54.3	1	12/08/16 10:33	12/13/16 20:22	74-87-3	
2-Chlorotoluene	<103	ug/kg	103	31.0	1	12/08/16 10:33	12/13/16 20:22	95-49-8	
4-Chlorotoluene	<98.0	ug/kg	98.0	29.4	1	12/08/16 10:33	12/13/16 20:22	106-43-4	
1,2-Dibromo-3-chloropropane	<219	ug/kg	219	219	1	12/08/16 10:33	12/13/16 20:22	96-12-8	
Dibromochloromethane	<321	ug/kg	321	96.3	1	12/08/16 10:33	12/13/16 20:22	124-48-1	
1,2-Dibromoethane (EDB)	<42.2	ug/kg	42.2	42.2	1	12/08/16 10:33	12/13/16 20:22	106-93-4	
Dibromomethane	<146	ug/kg	146	43.8	1	12/08/16 10:33	12/13/16 20:22	74-95-3	
1,2-Dichlorobenzene	<21.7	ug/kg	21.7	21.7	1	12/08/16 10:33	12/13/16 20:22	95-50-1	
1,3-Dichlorobenzene	<33.0	ug/kg	33.0	33.0	1	12/08/16 10:33	12/13/16 20:22	541-73-1	
1,4-Dichlorobenzene	<108	ug/kg	108	32.6	1	12/08/16 10:33	12/13/16 20:22	106-46-7	
Dichlorodifluoromethane	<114	ug/kg	114	34.4	1	12/08/16 10:33	12/13/16 20:22	75-71-8	
1,1-Dichloroethane	<43.6	ug/kg	43.6	43.6	1	12/08/16 10:33	12/13/16 20:22	75-34-3	
1,2-Dichloroethane	<35.5	ug/kg	35.5	35.5	1	12/08/16 10:33	12/13/16 20:22	107-06-2	
1,1-Dichloroethene	<28.5	ug/kg	28.5	28.5	1	12/08/16 10:33	12/13/16 20:22	75-35-4	
cis-1,2-Dichloroethene	<139	ug/kg	139	41.8	1	12/08/16 10:33	12/13/16 20:22	156-59-2	
trans-1,2-Dichloroethene	<180	ug/kg	180	54.1	1	12/08/16 10:33	12/13/16 20:22	156-60-5	
Dichlorofluoromethane	<1020	ug/kg	1020	308	1	12/08/16 10:33	12/13/16 20:22	75-43-4	
1,2-Dichloropropane	<38.9	ug/kg	38.9	38.9	1	12/08/16 10:33	12/13/16 20:22	78-87-5	
1,3-Dichloropropane	<134	ug/kg	134	40.2	1	12/08/16 10:33	12/13/16 20:22	142-28-9	
2,2-Dichloropropane	<119	ug/kg	119	35.7	1	12/08/16 10:33	12/13/16 20:22	594-20-7	
1,1-Dichloropropene	<33.9	ug/kg	33.9	33.9	1	12/08/16 10:33	12/13/16 20:22	563-58-6	
cis-1,3-Dichloropropene	<171	ug/kg	171	51.2	1	12/08/16 10:33	12/13/16 20:22	10061-01-5	
trans-1,3-Dichloropropene	<127	ug/kg	127	38.2	1	12/08/16 10:33	12/13/16 20:22	10061-02-6	
Diethyl ether (Ethyl ether)	<154	ug/kg	154	46.3	1	12/08/16 10:33	12/13/16 20:22	60-29-7	
Ethylbenzene	<119	ug/kg	119	35.7	1	12/08/16 10:33	12/13/16 20:22	100-41-4	
Hexachloro-1,3-butadiene	<352	ug/kg	352	106	1	12/08/16 10:33	12/13/16 20:22	87-68-3	
Isopropylbenzene (Cumene)	<133	ug/kg	133	40.0	1	12/08/16 10:33	12/13/16 20:22	98-82-8	
p-Isopropyltoluene	<62.1	ug/kg	62.1	18.6	1	12/08/16 10:33	12/13/16 20:22	99-87-6	
Methylene Chloride	<693	ug/kg	693	208	1	12/08/16 10:33	12/13/16 20:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	<248	ug/kg	248	74.3	1	12/08/16 10:33	12/13/16 20:22	108-10-1	
Methyl-tert-butyl ether	<70.0	ug/kg	70.0	21.0	1	12/08/16 10:33	12/13/16 20:22	1634-04-4	
Naphthalene	224	ug/kg	90.5	27.2	1	12/08/16 10:33	12/13/16 20:22	91-20-3	
n-Propylbenzene	<111	ug/kg	111	33.5	1	12/08/16 10:33	12/13/16 20:22	103-65-1	
Styrene	<97.2	ug/kg	97.2	29.2	1	12/08/16 10:33	12/13/16 20:22	100-42-5	
1,1,1,2-Tetrachloroethane	<44.5	ug/kg	44.5	44.5	1	12/08/16 10:33	12/13/16 20:22	630-20-6	
1,1,2,2-Tetrachloroethane	<24.9	ug/kg	24.9	24.9	1	12/08/16 10:33	12/13/16 20:22	79-34-5	
Tetrachloroethene	<143	ug/kg	143	42.9	1	12/08/16 10:33	12/13/16 20:22	127-18-4	
Tetrahydrofuran	<1850	ug/kg	1850	557	1	12/08/16 10:33	12/13/16 20:22	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-6\_23.5-24.5**      **Lab ID: 10372445008**      Collected: 12/06/16 12:30      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<b>2770</b>	ug/kg	119	35.7	1	12/08/16 10:33	12/13/16 20:22	108-88-3	
1,2,3-Trichlorobenzene	<b>&lt;32.3</b>	ug/kg	32.3	32.3	1	12/08/16 10:33	12/13/16 20:22	87-61-6	
1,2,4-Trichlorobenzene	<b>&lt;34.6</b>	ug/kg	34.6	34.6	1	12/08/16 10:33	12/13/16 20:22	120-82-1	
1,1,1-Trichloroethane	<b>&lt;46.9</b>	ug/kg	46.9	46.9	1	12/08/16 10:33	12/13/16 20:22	71-55-6	
1,1,2-Trichloroethane	<b>&lt;24.3</b>	ug/kg	24.3	24.3	1	12/08/16 10:33	12/13/16 20:22	79-00-5	
Trichloroethene	<b>&lt;107</b>	ug/kg	107	32.1	1	12/08/16 10:33	12/13/16 20:22	79-01-6	
Trichlorofluoromethane	<b>&lt;375</b>	ug/kg	375	113	1	12/08/16 10:33	12/13/16 20:22	75-69-4	
1,2,3-Trichloropropane	<b>&lt;116</b>	ug/kg	116	116	1	12/08/16 10:33	12/13/16 20:22	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;269</b>	ug/kg	269	80.9	1	12/08/16 10:33	12/13/16 20:22	76-13-1	
1,2,4-Trimethylbenzene	<b>54.7</b>	ug/kg	24.7	24.7	1	12/08/16 10:33	12/13/16 20:22	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;86.0</b>	ug/kg	86.0	25.8	1	12/08/16 10:33	12/13/16 20:22	108-67-8	
Vinyl chloride	<b>&lt;48.0</b>	ug/kg	48.0	14.4	1	12/08/16 10:33	12/13/16 20:22	75-01-4	
Xylene (Total)	<b>&lt;299</b>	ug/kg	299	89.8	1	12/08/16 10:33	12/13/16 20:22	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-129		1	12/08/16 10:33	12/13/16 20:22	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/08/16 10:33	12/13/16 20:22	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/08/16 10:33	12/13/16 20:22	460-00-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-7\_23-23.5**      **Lab ID: 10372445009**      Collected: 12/06/16 13:15      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	2.7	mg/kg	0.79	0.24	1	12/20/16 16:32	12/22/16 05:26	7440-38-2	
Barium	61.8	mg/kg	0.063	0.019	1	12/20/16 16:32	12/22/16 05:26	7440-39-3	
Cadmium	0.17	mg/kg	0.037	0.011	1	12/20/16 16:32	12/22/16 05:26	7440-43-9	
Chromium	11.1	mg/kg	0.41	0.12	1	12/20/16 16:32	12/22/16 05:26	7440-47-3	
Lead	28.4	mg/kg	0.39	0.12	1	12/20/16 16:32	12/22/16 05:26	7439-92-1	
Selenium	<1.1	mg/kg	1.1	0.34	1	12/20/16 16:32	12/22/16 05:26	7782-49-2	
Silver	<0.31	mg/kg	0.31	0.094	1	12/20/16 16:32	12/22/16 05:26	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.15	mg/kg	0.023	0.0068	1	12/16/16 12:31	12/20/16 14:17	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	34.3	%	0.10	0.10	1		12/20/16 13:12		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	20.7	ug/kg	2.0	0.59	1	12/09/16 11:09	12/20/16 02:02	83-32-9	
Acenaphthylene	10.3	ug/kg	1.4	0.41	1	12/09/16 11:09	12/20/16 02:02	208-96-8	
Anthracene	34.6	ug/kg	2.3	0.69	1	12/09/16 11:09	12/20/16 02:02	120-12-7	
Benzo(a)anthracene	81.2	ug/kg	2.4	0.71	1	12/09/16 11:09	12/20/16 02:02	56-55-3	
Benzo(a)pyrene	77.0	ug/kg	1.8	0.53	1	12/09/16 11:09	12/20/16 02:02	50-32-8	
Benzo(b)fluoranthene	95.9	ug/kg	2.9	0.87	1	12/09/16 11:09	12/20/16 02:02	205-99-2	
Benzo(g,h,i)perylene	50.7	ug/kg	2.3	0.69	1	12/09/16 11:09	12/20/16 02:02	191-24-2	
Benzo(k)fluoranthene	36.2	ug/kg	2.5	0.75	1	12/09/16 11:09	12/20/16 02:02	207-08-9	
Chrysene	82.2	ug/kg	2.8	0.84	1	12/09/16 11:09	12/20/16 02:02	218-01-9	
Dibenz(a,h)anthracene	16.8	ug/kg	1.7	0.50	1	12/09/16 11:09	12/20/16 02:02	53-70-3	
Fluoranthene	169	ug/kg	4.0	1.2	1	12/09/16 11:09	12/20/16 02:02	206-44-0	
Fluorene	21.0	ug/kg	1.9	0.58	1	12/09/16 11:09	12/20/16 02:02	86-73-7	
Indeno(1,2,3-cd)pyrene	40.4	ug/kg	3.8	1.1	1	12/09/16 11:09	12/20/16 02:02	193-39-5	
Naphthalene	29.5	ug/kg	1.8	0.54	1	12/09/16 11:09	12/20/16 02:02	91-20-3	
Phenanthrene	136	ug/kg	2.0	0.61	1	12/09/16 11:09	12/20/16 02:02	85-01-8	
Pyrene	144	ug/kg	4.2	1.3	1	12/09/16 11:09	12/20/16 02:02	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	70	%	41-125		1	12/09/16 11:09	12/20/16 02:02	321-60-8	
p-Terphenyl-d14 (S)	64	%	39-125		1	12/09/16 11:09	12/20/16 02:02	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1640	ug/kg	1640	492	1	12/08/16 13:13	12/12/16 17:02	67-64-1	
Allyl chloride	<214	ug/kg	214	64.4	1	12/08/16 13:13	12/12/16 17:02	107-05-1	
Benzene	<21.6	ug/kg	21.6	6.5	1	12/08/16 13:13	12/12/16 17:02	71-43-2	
Bromobenzene	<63.9	ug/kg	63.9	19.2	1	12/08/16 13:13	12/12/16 17:02	108-86-1	
Bromochloromethane	<74.4	ug/kg	74.4	22.4	1	12/08/16 13:13	12/12/16 17:02	74-97-5	
Bromodichloromethane	<69.9	ug/kg	69.9	21.0	1	12/08/16 13:13	12/12/16 17:02	75-27-4	
Bromoform	<215	ug/kg	215	64.7	1	12/08/16 13:13	12/12/16 17:02	75-25-2	
Bromomethane	<253	ug/kg	253	76.1	1	12/08/16 13:13	12/12/16 17:02	74-83-9	
2-Butanone (MEK)	<330	ug/kg	330	99.0	1	12/08/16 13:13	12/12/16 17:02	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-7\_23-23.5**      **Lab ID: 10372445009**      Collected: 12/06/16 13:15      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<60.4	ug/kg	60.4	18.2	1	12/08/16 13:13	12/12/16 17:02	104-51-8	
sec-Butylbenzene	<58.9	ug/kg	58.9	17.7	1	12/08/16 13:13	12/12/16 17:02	135-98-8	
tert-Butylbenzene	<78.9	ug/kg	78.9	23.7	1	12/08/16 13:13	12/12/16 17:02	98-06-6	
Carbon tetrachloride	<78.4	ug/kg	78.4	23.6	1	12/08/16 13:13	12/12/16 17:02	56-23-5	
Chlorobenzene	<43.5	ug/kg	43.5	13.1	1	12/08/16 13:13	12/12/16 17:02	108-90-7	
Chloroethane	<395	ug/kg	395	119	1	12/08/16 13:13	12/12/16 17:02	75-00-3	
Chloroform	<121	ug/kg	121	36.5	1	12/08/16 13:13	12/12/16 17:02	67-66-3	
Chloromethane	<121	ug/kg	121	36.3	1	12/08/16 13:13	12/12/16 17:02	74-87-3	
2-Chlorotoluene	<68.9	ug/kg	68.9	20.7	1	12/08/16 13:13	12/12/16 17:02	95-49-8	
4-Chlorotoluene	<65.4	ug/kg	65.4	19.7	1	12/08/16 13:13	12/12/16 17:02	106-43-4	
1,2-Dibromo-3-chloropropane	<146	ug/kg	146	146	1	12/08/16 13:13	12/12/16 17:02	96-12-8	
Dibromochloromethane	<214	ug/kg	214	64.4	1	12/08/16 13:13	12/12/16 17:02	124-48-1	
1,2-Dibromoethane (EDB)	<28.2	ug/kg	28.2	28.2	1	12/08/16 13:13	12/12/16 17:02	106-93-4	
Dibromomethane	<97.4	ug/kg	97.4	29.3	1	12/08/16 13:13	12/12/16 17:02	74-95-3	
1,2-Dichlorobenzene	<14.5	ug/kg	14.5	14.5	1	12/08/16 13:13	12/12/16 17:02	95-50-1	
1,3-Dichlorobenzene	<22.1	ug/kg	22.1	14.5	1	12/08/16 13:13	12/12/16 17:02	541-73-1	
1,4-Dichlorobenzene	<72.4	ug/kg	72.4	21.8	1	12/08/16 13:13	12/12/16 17:02	106-46-7	
Dichlorodifluoromethane	<76.4	ug/kg	76.4	23.0	1	12/08/16 13:13	12/12/16 17:02	75-71-8	
1,1-Dichloroethane	<29.1	ug/kg	29.1	29.1	1	12/08/16 13:13	12/12/16 17:02	75-34-3	
1,2-Dichloroethane	<23.7	ug/kg	23.7	23.7	1	12/08/16 13:13	12/12/16 17:02	107-06-2	
1,1-Dichloroethene	<19.1	ug/kg	19.1	19.1	1	12/08/16 13:13	12/12/16 17:02	75-35-4	
cis-1,2-Dichloroethene	<92.9	ug/kg	92.9	27.9	1	12/08/16 13:13	12/12/16 17:02	156-59-2	
trans-1,2-Dichloroethene	<120	ug/kg	120	36.2	1	12/08/16 13:13	12/12/16 17:02	156-60-5	
Dichlorofluoromethane	<684	ug/kg	684	206	1	12/08/16 13:13	12/12/16 17:02	75-43-4	
1,2-Dichloropropane	<26.0	ug/kg	26.0	26.0	1	12/08/16 13:13	12/12/16 17:02	78-87-5	
1,3-Dichloropropane	<89.4	ug/kg	89.4	26.9	1	12/08/16 13:13	12/12/16 17:02	142-28-9	
2,2-Dichloropropane	<79.4	ug/kg	79.4	23.9	1	12/08/16 13:13	12/12/16 17:02	594-20-7	
1,1-Dichloropropene	<22.7	ug/kg	22.7	22.7	1	12/08/16 13:13	12/12/16 17:02	563-58-6	
cis-1,3-Dichloropropene	<114	ug/kg	114	34.2	1	12/08/16 13:13	12/12/16 17:02	10061-01-5	
trans-1,3-Dichloropropene	<84.9	ug/kg	84.9	25.5	1	12/08/16 13:13	12/12/16 17:02	10061-02-6	
Diethyl ether (Ethyl ether)	<103	ug/kg	103	30.9	1	12/08/16 13:13	12/12/16 17:02	60-29-7	
Ethylbenzene	<79.4	ug/kg	79.4	23.9	1	12/08/16 13:13	12/12/16 17:02	100-41-4	
Hexachloro-1,3-butadiene	<235	ug/kg	235	70.5	1	12/08/16 13:13	12/12/16 17:02	87-68-3	
Isopropylbenzene (Cumene)	<88.9	ug/kg	88.9	26.7	1	12/08/16 13:13	12/12/16 17:02	98-82-8	
p-Isopropyltoluene	<41.5	ug/kg	41.5	12.5	1	12/08/16 13:13	12/12/16 17:02	99-87-6	
Methylene Chloride	<463	ug/kg	463	139	1	12/08/16 13:13	12/12/16 17:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	<165	ug/kg	165	49.7	1	12/08/16 13:13	12/12/16 17:02	108-10-1	
Methyl-tert-butyl ether	<46.8	ug/kg	46.8	14.0	1	12/08/16 13:13	12/12/16 17:02	1634-04-4	
Naphthalene	<60.4	ug/kg	60.4	18.2	1	12/08/16 13:13	12/12/16 17:02	91-20-3	
n-Propylbenzene	<74.4	ug/kg	74.4	22.4	1	12/08/16 13:13	12/12/16 17:02	103-65-1	
Styrene	<64.9	ug/kg	64.9	19.5	1	12/08/16 13:13	12/12/16 17:02	100-42-5	
1,1,1,2-Tetrachloroethane	<29.7	ug/kg	29.7	29.7	1	12/08/16 13:13	12/12/16 17:02	630-20-6	
1,1,2,2-Tetrachloroethane	<16.7	ug/kg	16.7	16.7	1	12/08/16 13:13	12/12/16 17:02	79-34-5	
Tetrachloroethene	<95.4	ug/kg	95.4	28.7	1	12/08/16 13:13	12/12/16 17:02	127-18-4	
Tetrahydrofuran	<1240	ug/kg	1240	372	1	12/08/16 13:13	12/12/16 17:02	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-7\_23-23.5**      **Lab ID: 10372445009**      Collected: 12/06/16 13:15      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<79.4	ug/kg	79.4	23.9	1	12/08/16 13:13	12/12/16 17:02	108-88-3	
1,2,3-Trichlorobenzene	<21.6	ug/kg	21.6	21.6	1	12/08/16 13:13	12/12/16 17:02	87-61-6	
1,2,4-Trichlorobenzene	<23.1	ug/kg	23.1	23.1	1	12/08/16 13:13	12/12/16 17:02	120-82-1	
1,1,1-Trichloroethane	<31.4	ug/kg	31.4	31.4	1	12/08/16 13:13	12/12/16 17:02	71-55-6	
1,1,2-Trichloroethane	<16.2	ug/kg	16.2	16.2	1	12/08/16 13:13	12/12/16 17:02	79-00-5	
Trichloroethene	<71.4	ug/kg	71.4	21.5	1	12/08/16 13:13	12/12/16 17:02	79-01-6	
Trichlorofluoromethane	<251	ug/kg	251	75.3	1	12/08/16 13:13	12/12/16 17:02	75-69-4	
1,2,3-Trichloropropane	<77.7	ug/kg	77.7	77.7	1	12/08/16 13:13	12/12/16 17:02	96-18-4	
1,1,2-Trichlorotrifluoroethane	<180	ug/kg	180	54.0	1	12/08/16 13:13	12/12/16 17:02	76-13-1	
1,2,4-Trimethylbenzene	<16.5	ug/kg	16.5	16.5	1	12/08/16 13:13	12/12/16 17:02	95-63-6	
1,3,5-Trimethylbenzene	<57.4	ug/kg	57.4	17.3	1	12/08/16 13:13	12/12/16 17:02	108-67-8	
Vinyl chloride	<32.1	ug/kg	32.1	9.6	1	12/08/16 13:13	12/12/16 17:02	75-01-4	
Xylene (Total)	<200	ug/kg	200	60.0	1	12/08/16 13:13	12/12/16 17:02	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	95	%	75-129		1	12/08/16 13:13	12/12/16 17:02	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/08/16 13:13	12/12/16 17:02	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/08/16 13:13	12/12/16 17:02	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S7\_23.5-26**      **Lab ID: 10372445010**      Collected: 12/06/16 13:30      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	4.9	mg/kg	1.3	0.39	1	12/20/16 16:32	12/22/16 05:28	7440-38-2	
Barium	129	mg/kg	0.10	0.031	1	12/20/16 16:32	12/22/16 05:28	7440-39-3	
Cadmium	1.1	mg/kg	0.061	0.018	1	12/20/16 16:32	12/22/16 05:28	7440-43-9	
Chromium	30.0	mg/kg	0.67	0.20	1	12/20/16 16:32	12/22/16 05:28	7440-47-3	
Lead	106	mg/kg	0.65	0.19	1	12/20/16 16:32	12/22/16 05:28	7439-92-1	
Selenium	<1.9	mg/kg	1.9	0.56	1	12/20/16 16:32	12/22/16 05:28	7782-49-2	
Silver	2.1	mg/kg	0.52	0.15	1	12/20/16 16:32	12/22/16 05:28	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	1.8	mg/kg	0.056	0.017	2	12/16/16 12:31	12/20/16 14:41	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	48.9	%	0.10	0.10	1		12/20/16 13:13		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	69.9	ug/kg	2.5	0.76	1	12/09/16 11:09	12/18/16 22:53	83-32-9	
Acenaphthylene	67.6	ug/kg	1.8	0.53	1	12/09/16 11:09	12/18/16 22:53	208-96-8	
Anthracene	120	ug/kg	3.0	0.89	1	12/09/16 11:09	12/18/16 22:53	120-12-7	
Benzo(a)anthracene	385	ug/kg	3.1	0.92	1	12/09/16 11:09	12/18/16 22:53	56-55-3	
Benzo(a)pyrene	421	ug/kg	2.3	0.68	1	12/09/16 11:09	12/18/16 22:53	50-32-8	
Benzo(b)fluoranthene	436	ug/kg	3.7	1.1	1	12/09/16 11:09	12/18/16 22:53	205-99-2	
Benzo(g,h,i)perylene	268	ug/kg	3.0	0.89	1	12/09/16 11:09	12/18/16 22:53	191-24-2	
Benzo(k)fluoranthene	212	ug/kg	3.2	0.96	1	12/09/16 11:09	12/18/16 22:53	207-08-9	
Chrysene	353	ug/kg	3.6	1.1	1	12/09/16 11:09	12/18/16 22:53	218-01-9	
Dibenz(a,h)anthracene	81.8	ug/kg	2.1	0.64	1	12/09/16 11:09	12/18/16 22:53	53-70-3	
Fluoranthene	821	ug/kg	10.2	3.1	2	12/09/16 11:09	12/20/16 00:14	206-44-0	
Fluorene	56.1	ug/kg	2.5	0.75	1	12/09/16 11:09	12/18/16 22:53	86-73-7	
Indeno(1,2,3-cd)pyrene	201	ug/kg	4.9	1.5	1	12/09/16 11:09	12/18/16 22:53	193-39-5	
Naphthalene	71.5	ug/kg	2.3	0.70	1	12/09/16 11:09	12/18/16 22:53	91-20-3	
Phenanthrene	391	ug/kg	2.6	0.79	1	12/09/16 11:09	12/18/16 22:53	85-01-8	
Pyrene	719	ug/kg	10.8	3.2	2	12/09/16 11:09	12/20/16 00:14	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	78	%	41-125		1	12/09/16 11:09	12/18/16 22:53	321-60-8	
p-Terphenyl-d14 (S)	75	%	39-125		1	12/09/16 11:09	12/18/16 22:53	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<2320	ug/kg	2320	695	1	12/08/16 13:13	12/12/16 17:18	67-64-1	
Allyl chloride	<303	ug/kg	303	90.9	1	12/08/16 13:13	12/12/16 17:18	107-05-1	
Benzene	<30.5	ug/kg	30.5	9.2	1	12/08/16 13:13	12/12/16 17:18	71-43-2	
Bromobenzene	<90.3	ug/kg	90.3	27.1	1	12/08/16 13:13	12/12/16 17:18	108-86-1	
Bromochloromethane	<105	ug/kg	105	31.6	1	12/08/16 13:13	12/12/16 17:18	74-97-5	
Bromodichloromethane	<98.8	ug/kg	98.8	29.7	1	12/08/16 13:13	12/12/16 17:18	75-27-4	
Bromoform	<304	ug/kg	304	91.4	1	12/08/16 13:13	12/12/16 17:18	75-25-2	
Bromomethane	<358	ug/kg	358	107	1	12/08/16 13:13	12/12/16 17:18	74-83-9	
2-Butanone (MEK)	<466	ug/kg	466	140	1	12/08/16 13:13	12/12/16 17:18	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S7\_23.5-26**      **Lab ID: 10372445010**      Collected: 12/06/16 13:30      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<85.4	ug/kg	85.4	25.6	1	12/08/16 13:13	12/12/16 17:18	104-51-8	
sec-Butylbenzene	<83.3	ug/kg	83.3	25.0	1	12/08/16 13:13	12/12/16 17:18	135-98-8	
tert-Butylbenzene	<112	ug/kg	112	33.5	1	12/08/16 13:13	12/12/16 17:18	98-06-6	
Carbon tetrachloride	<111	ug/kg	111	33.3	1	12/08/16 13:13	12/12/16 17:18	56-23-5	
Chlorobenzene	<61.4	ug/kg	61.4	18.4	1	12/08/16 13:13	12/12/16 17:18	108-90-7	
Chloroethane	<558	ug/kg	558	167	1	12/08/16 13:13	12/12/16 17:18	75-00-3	
Chloroform	<172	ug/kg	172	51.5	1	12/08/16 13:13	12/12/16 17:18	67-66-3	
Chloromethane	<171	ug/kg	171	51.3	1	12/08/16 13:13	12/12/16 17:18	74-87-3	
2-Chlorotoluene	<97.4	ug/kg	97.4	29.3	1	12/08/16 13:13	12/12/16 17:18	95-49-8	
4-Chlorotoluene	<92.5	ug/kg	92.5	27.8	1	12/08/16 13:13	12/12/16 17:18	106-43-4	
1,2-Dibromo-3-chloropropane	<207	ug/kg	207	207	1	12/08/16 13:13	12/12/16 17:18	96-12-8	
Dibromochloromethane	<303	ug/kg	303	90.9	1	12/08/16 13:13	12/12/16 17:18	124-48-1	
1,2-Dibromoethane (EDB)	<39.8	ug/kg	39.8	39.8	1	12/08/16 13:13	12/12/16 17:18	106-93-4	
Dibromomethane	<138	ug/kg	138	41.3	1	12/08/16 13:13	12/12/16 17:18	74-95-3	
1,2-Dichlorobenzene	<20.5	ug/kg	20.5	20.5	1	12/08/16 13:13	12/12/16 17:18	95-50-1	
1,3-Dichlorobenzene	<31.2	ug/kg	31.2	20.5	1	12/08/16 13:13	12/12/16 17:18	541-73-1	
1,4-Dichlorobenzene	<102	ug/kg	102	30.7	1	12/08/16 13:13	12/12/16 17:18	106-46-7	
Dichlorodifluoromethane	<108	ug/kg	108	32.4	1	12/08/16 13:13	12/12/16 17:18	75-71-8	
1,1-Dichloroethane	<41.1	ug/kg	41.1	41.1	1	12/08/16 13:13	12/12/16 17:18	75-34-3	
1,2-Dichloroethane	<33.5	ug/kg	33.5	33.5	1	12/08/16 13:13	12/12/16 17:18	107-06-2	
1,1-Dichloroethene	<26.9	ug/kg	26.9	26.9	1	12/08/16 13:13	12/12/16 17:18	75-35-4	
cis-1,2-Dichloroethene	<131	ug/kg	131	39.4	1	12/08/16 13:13	12/12/16 17:18	156-59-2	
trans-1,2-Dichloroethene	<170	ug/kg	170	51.1	1	12/08/16 13:13	12/12/16 17:18	156-60-5	
Dichlorofluoromethane	<967	ug/kg	967	290	1	12/08/16 13:13	12/12/16 17:18	75-43-4	
1,2-Dichloropropane	<36.7	ug/kg	36.7	36.7	1	12/08/16 13:13	12/12/16 17:18	78-87-5	
1,3-Dichloropropane	<126	ug/kg	126	37.9	1	12/08/16 13:13	12/12/16 17:18	142-28-9	
2,2-Dichloropropane	<112	ug/kg	112	33.7	1	12/08/16 13:13	12/12/16 17:18	594-20-7	
1,1-Dichloropropene	<32.0	ug/kg	32.0	32.0	1	12/08/16 13:13	12/12/16 17:18	563-58-6	
cis-1,3-Dichloropropene	<161	ug/kg	161	48.3	1	12/08/16 13:13	12/12/16 17:18	10061-01-5	
trans-1,3-Dichloropropene	<120	ug/kg	120	36.0	1	12/08/16 13:13	12/12/16 17:18	10061-02-6	
Diethyl ether (Ethyl ether)	<145	ug/kg	145	43.7	1	12/08/16 13:13	12/12/16 17:18	60-29-7	
Ethylbenzene	<112	ug/kg	112	33.7	1	12/08/16 13:13	12/12/16 17:18	100-41-4	
Hexachloro-1,3-butadiene	<332	ug/kg	332	99.6	1	12/08/16 13:13	12/12/16 17:18	87-68-3	
Isopropylbenzene (Cumene)	<126	ug/kg	126	37.7	1	12/08/16 13:13	12/12/16 17:18	98-82-8	
p-Isopropyltoluene	<58.6	ug/kg	58.6	17.6	1	12/08/16 13:13	12/12/16 17:18	99-87-6	
Methylene Chloride	<654	ug/kg	654	196	1	12/08/16 13:13	12/12/16 17:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	<234	ug/kg	234	70.2	1	12/08/16 13:13	12/12/16 17:18	108-10-1	
Methyl-tert-butyl ether	<66.1	ug/kg	66.1	19.8	1	12/08/16 13:13	12/12/16 17:18	1634-04-4	
Naphthalene	95.5	ug/kg	85.4	25.6	1	12/08/16 13:13	12/12/16 17:18	91-20-3	
n-Propylbenzene	<105	ug/kg	105	31.6	1	12/08/16 13:13	12/12/16 17:18	103-65-1	
Styrene	<91.8	ug/kg	91.8	27.6	1	12/08/16 13:13	12/12/16 17:18	100-42-5	
1,1,1,2-Tetrachloroethane	<42.0	ug/kg	42.0	42.0	1	12/08/16 13:13	12/12/16 17:18	630-20-6	
1,1,2,2-Tetrachloroethane	<23.5	ug/kg	23.5	23.5	1	12/08/16 13:13	12/12/16 17:18	79-34-5	
Tetrachloroethene	<135	ug/kg	135	40.5	1	12/08/16 13:13	12/12/16 17:18	127-18-4	
Tetrahydrofuran	<1750	ug/kg	1750	526	1	12/08/16 13:13	12/12/16 17:18	109-99-9	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S7\_23.5-26**      **Lab ID: 10372445010**      Collected: 12/06/16 13:30      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<112	ug/kg	112	33.7	1	12/08/16 13:13	12/12/16 17:18	108-88-3	
1,2,3-Trichlorobenzene	<30.5	ug/kg	30.5	30.5	1	12/08/16 13:13	12/12/16 17:18	87-61-6	
1,2,4-Trichlorobenzene	<32.6	ug/kg	32.6	32.6	1	12/08/16 13:13	12/12/16 17:18	120-82-1	
1,1,1-Trichloroethane	<44.3	ug/kg	44.3	44.3	1	12/08/16 13:13	12/12/16 17:18	71-55-6	
1,1,2-Trichloroethane	<22.9	ug/kg	22.9	22.9	1	12/08/16 13:13	12/12/16 17:18	79-00-5	
Trichloroethene	<101	ug/kg	101	30.3	1	12/08/16 13:13	12/12/16 17:18	79-01-6	
Trichlorofluoromethane	<354	ug/kg	354	106	1	12/08/16 13:13	12/12/16 17:18	75-69-4	
1,2,3-Trichloropropane	<110	ug/kg	110	110	1	12/08/16 13:13	12/12/16 17:18	96-18-4	
1,1,2-Trichlorotrifluoroethane	<254	ug/kg	254	76.3	1	12/08/16 13:13	12/12/16 17:18	76-13-1	
1,2,4-Trimethylbenzene	23.8	ug/kg	23.3	23.3	1	12/08/16 13:13	12/12/16 17:18	95-63-6	
1,3,5-Trimethylbenzene	<81.2	ug/kg	81.2	24.4	1	12/08/16 13:13	12/12/16 17:18	108-67-8	
Vinyl chloride	<45.3	ug/kg	45.3	13.6	1	12/08/16 13:13	12/12/16 17:18	75-01-4	
Xylene (Total)	<282	ug/kg	282	84.8	1	12/08/16 13:13	12/12/16 17:18	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	100	%	75-129		1	12/08/16 13:13	12/12/16 17:18	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/08/16 13:13	12/12/16 17:18	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/08/16 13:13	12/12/16 17:18	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S8\_23.5-24**      **Lab ID: 10372445011**      Collected: 12/06/16 14:00      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	5.1	mg/kg	1.3	0.38	1	12/20/16 16:32	12/22/16 05:31	7440-38-2	
Barium	122	mg/kg	0.10	0.031	1	12/20/16 16:32	12/22/16 05:31	7440-39-3	
Cadmium	0.52	mg/kg	0.061	0.018	1	12/20/16 16:32	12/22/16 05:31	7440-43-9	
Chromium	32.3	mg/kg	0.66	0.20	1	12/20/16 16:32	12/22/16 05:31	7440-47-3	
Lead	42.4	mg/kg	0.64	0.19	1	12/20/16 16:32	12/22/16 05:31	7439-92-1	
Selenium	<1.8	mg/kg	1.8	0.56	1	12/20/16 16:32	12/22/16 05:31	7782-49-2	
Silver	0.58	mg/kg	0.51	0.15	1	12/20/16 16:32	12/22/16 05:31	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.57	mg/kg	0.039	0.012	1	12/16/16 12:31	12/20/16 14:21	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	62.2	%	0.10	0.10	1		12/20/16 13:13		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	36.3	ug/kg	3.4	1.0	1	12/09/16 11:09	12/18/16 23:36	83-32-9	
Acenaphthylene	16.1	ug/kg	2.4	0.72	1	12/09/16 11:09	12/18/16 23:36	208-96-8	
Anthracene	88.8	ug/kg	4.0	1.2	1	12/09/16 11:09	12/18/16 23:36	120-12-7	
Benzo(a)anthracene	139	ug/kg	4.1	1.2	1	12/09/16 11:09	12/18/16 23:36	56-55-3	
Benzo(a)pyrene	136	ug/kg	3.0	0.91	1	12/09/16 11:09	12/18/16 23:36	50-32-8	
Benzo(b)fluoranthene	159	ug/kg	5.0	1.5	1	12/09/16 11:09	12/18/16 23:36	205-99-2	
Benzo(g,h,i)perylene	83.0	ug/kg	4.0	1.2	1	12/09/16 11:09	12/18/16 23:36	191-24-2	
Benzo(k)fluoranthene	82.3	ug/kg	4.3	1.3	1	12/09/16 11:09	12/18/16 23:36	207-08-9	
Chrysene	138	ug/kg	4.9	1.5	1	12/09/16 11:09	12/18/16 23:36	218-01-9	
Dibenz(a,h)anthracene	30.0	ug/kg	2.9	0.86	1	12/09/16 11:09	12/18/16 23:36	53-70-3	
Fluoranthene	323	ug/kg	6.9	2.1	1	12/09/16 11:09	12/18/16 23:36	206-44-0	
Fluorene	40.5	ug/kg	3.4	1.0	1	12/09/16 11:09	12/18/16 23:36	86-73-7	
Indeno(1,2,3-cd)pyrene	72.2	ug/kg	6.6	2.0	1	12/09/16 11:09	12/18/16 23:36	193-39-5	
Naphthalene	30.4	ug/kg	3.1	0.94	1	12/09/16 11:09	12/18/16 23:36	91-20-3	
Phenanthrene	292	ug/kg	3.5	1.1	1	12/09/16 11:09	12/18/16 23:36	85-01-8	
Pyrene	252	ug/kg	7.3	2.2	1	12/09/16 11:09	12/18/16 23:36	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	72	%	41-125		1	12/09/16 11:09	12/18/16 23:36	321-60-8	
p-Terphenyl-d14 (S)	63	%	39-125		1	12/09/16 11:09	12/18/16 23:36	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<3000	ug/kg	3000	901	1	12/08/16 13:13	12/12/16 17:35	67-64-1	
Allyl chloride	<393	ug/kg	393	118	1	12/08/16 13:13	12/12/16 17:35	107-05-1	
Benzene	<39.5	ug/kg	39.5	11.9	1	12/08/16 13:13	12/12/16 17:35	71-43-2	
Bromobenzene	<117	ug/kg	117	35.2	1	12/08/16 13:13	12/12/16 17:35	108-86-1	
Bromochloromethane	<136	ug/kg	136	40.9	1	12/08/16 13:13	12/12/16 17:35	74-97-5	
Bromodichloromethane	<128	ug/kg	128	38.5	1	12/08/16 13:13	12/12/16 17:35	75-27-4	
Bromoform	<394	ug/kg	394	118	1	12/08/16 13:13	12/12/16 17:35	75-25-2	
Bromomethane	<464	ug/kg	464	139	1	12/08/16 13:13	12/12/16 17:35	74-83-9	
2-Butanone (MEK)	<604	ug/kg	604	181	1	12/08/16 13:13	12/12/16 17:35	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

Sample: **S8\_23.5-24** Lab ID: **10372445011** Collected: 12/06/16 14:00 Received: 12/07/16 18:00 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<111	ug/kg	111	33.2	1	12/08/16 13:13	12/12/16 17:35	104-51-8	
sec-Butylbenzene	<108	ug/kg	108	32.4	1	12/08/16 13:13	12/12/16 17:35	135-98-8	
tert-Butylbenzene	<145	ug/kg	145	43.4	1	12/08/16 13:13	12/12/16 17:35	98-06-6	
Carbon tetrachloride	<144	ug/kg	144	43.1	1	12/08/16 13:13	12/12/16 17:35	56-23-5	
Chlorobenzene	<79.6	ug/kg	79.6	23.9	1	12/08/16 13:13	12/12/16 17:35	108-90-7	
Chloroethane	<723	ug/kg	723	217	1	12/08/16 13:13	12/12/16 17:35	75-00-3	
Chloroform	<222	ug/kg	222	66.8	1	12/08/16 13:13	12/12/16 17:35	67-66-3	
Chloromethane	<221	ug/kg	221	66.5	1	12/08/16 13:13	12/12/16 17:35	74-87-3	
2-Chlorotoluene	<126	ug/kg	126	37.9	1	12/08/16 13:13	12/12/16 17:35	95-49-8	
4-Chlorotoluene	<120	ug/kg	120	36.0	1	12/08/16 13:13	12/12/16 17:35	106-43-4	
1,2-Dibromo-3-chloropropane	<268	ug/kg	268	268	1	12/08/16 13:13	12/12/16 17:35	96-12-8	
Dibromochloromethane	<393	ug/kg	393	118	1	12/08/16 13:13	12/12/16 17:35	124-48-1	
1,2-Dibromoethane (EDB)	<51.7	ug/kg	51.7	51.7	1	12/08/16 13:13	12/12/16 17:35	106-93-4	
Dibromomethane	<178	ug/kg	178	53.6	1	12/08/16 13:13	12/12/16 17:35	74-95-3	
1,2-Dichlorobenzene	<26.5	ug/kg	26.5	26.5	1	12/08/16 13:13	12/12/16 17:35	95-50-1	
1,3-Dichlorobenzene	<40.4	ug/kg	40.4	26.5	1	12/08/16 13:13	12/12/16 17:35	541-73-1	
1,4-Dichlorobenzene	<133	ug/kg	133	39.8	1	12/08/16 13:13	12/12/16 17:35	106-46-7	
Dichlorodifluoromethane	<140	ug/kg	140	42.0	1	12/08/16 13:13	12/12/16 17:35	75-71-8	
1,1-Dichloroethane	<53.3	ug/kg	53.3	53.3	1	12/08/16 13:13	12/12/16 17:35	75-34-3	
1,2-Dichloroethane	<43.4	ug/kg	43.4	43.4	1	12/08/16 13:13	12/12/16 17:35	107-06-2	
1,1-Dichloroethene	<34.9	ug/kg	34.9	34.9	1	12/08/16 13:13	12/12/16 17:35	75-35-4	
cis-1,2-Dichloroethene	<170	ug/kg	170	51.1	1	12/08/16 13:13	12/12/16 17:35	156-59-2	
trans-1,2-Dichloroethene	<221	ug/kg	221	66.2	1	12/08/16 13:13	12/12/16 17:35	156-60-5	
Dichlorofluoromethane	<1250	ug/kg	1250	376	1	12/08/16 13:13	12/12/16 17:35	75-43-4	
1,2-Dichloropropane	<47.5	ug/kg	47.5	47.5	1	12/08/16 13:13	12/12/16 17:35	78-87-5	
1,3-Dichloropropane	<164	ug/kg	164	49.2	1	12/08/16 13:13	12/12/16 17:35	142-28-9	
2,2-Dichloropropane	<145	ug/kg	145	43.7	1	12/08/16 13:13	12/12/16 17:35	594-20-7	
1,1-Dichloropropene	<41.5	ug/kg	41.5	41.5	1	12/08/16 13:13	12/12/16 17:35	563-58-6	
cis-1,3-Dichloropropene	<209	ug/kg	209	62.6	1	12/08/16 13:13	12/12/16 17:35	10061-01-5	
trans-1,3-Dichloropropene	<156	ug/kg	156	46.7	1	12/08/16 13:13	12/12/16 17:35	10061-02-6	
Diethyl ether (Ethyl ether)	<188	ug/kg	188	56.6	1	12/08/16 13:13	12/12/16 17:35	60-29-7	
Ethylbenzene	<145	ug/kg	145	43.7	1	12/08/16 13:13	12/12/16 17:35	100-41-4	
Hexachloro-1,3-butadiene	<430	ug/kg	430	129	1	12/08/16 13:13	12/12/16 17:35	87-68-3	
Isopropylbenzene (Cumene)	<163	ug/kg	163	48.9	1	12/08/16 13:13	12/12/16 17:35	98-82-8	
p-Isopropyltoluene	<75.9	ug/kg	75.9	22.8	1	12/08/16 13:13	12/12/16 17:35	99-87-6	
Methylene Chloride	<847	ug/kg	847	254	1	12/08/16 13:13	12/12/16 17:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	<303	ug/kg	303	90.9	1	12/08/16 13:13	12/12/16 17:35	108-10-1	
Methyl-tert-butyl ether	<85.6	ug/kg	85.6	25.7	1	12/08/16 13:13	12/12/16 17:35	1634-04-4	
Naphthalene	<111	ug/kg	111	33.2	1	12/08/16 13:13	12/12/16 17:35	91-20-3	
n-Propylbenzene	<136	ug/kg	136	40.9	1	12/08/16 13:13	12/12/16 17:35	103-65-1	
Styrene	<119	ug/kg	119	35.7	1	12/08/16 13:13	12/12/16 17:35	100-42-5	
1,1,1,2-Tetrachloroethane	<54.4	ug/kg	54.4	54.4	1	12/08/16 13:13	12/12/16 17:35	630-20-6	
1,1,2,2-Tetrachloroethane	<30.5	ug/kg	30.5	30.5	1	12/08/16 13:13	12/12/16 17:35	79-34-5	
Tetrachloroethene	<175	ug/kg	175	52.5	1	12/08/16 13:13	12/12/16 17:35	127-18-4	
Tetrahydrofuran	<2270	ug/kg	2270	681	1	12/08/16 13:13	12/12/16 17:35	109-99-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S8\_23.5-24**      **Lab ID: 10372445011**      Collected: 12/06/16 14:00      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<145	ug/kg	145	43.7	1	12/08/16 13:13	12/12/16 17:35	108-88-3	
1,2,3-Trichlorobenzene	<39.6	ug/kg	39.6	39.6	1	12/08/16 13:13	12/12/16 17:35	87-61-6	
1,2,4-Trichlorobenzene	<42.3	ug/kg	42.3	42.3	1	12/08/16 13:13	12/12/16 17:35	120-82-1	
1,1,1-Trichloroethane	<57.4	ug/kg	57.4	57.4	1	12/08/16 13:13	12/12/16 17:35	71-55-6	
1,1,2-Trichloroethane	<29.7	ug/kg	29.7	29.7	1	12/08/16 13:13	12/12/16 17:35	79-00-5	
Trichloroethene	<131	ug/kg	131	39.3	1	12/08/16 13:13	12/12/16 17:35	79-01-6	
Trichlorofluoromethane	<459	ug/kg	459	138	1	12/08/16 13:13	12/12/16 17:35	75-69-4	
1,2,3-Trichloropropane	<142	ug/kg	142	142	1	12/08/16 13:13	12/12/16 17:35	96-18-4	
1,1,2-Trichlorotrifluoroethane	<329	ug/kg	329	98.9	1	12/08/16 13:13	12/12/16 17:35	76-13-1	
1,2,4-Trimethylbenzene	<30.2	ug/kg	30.2	30.2	1	12/08/16 13:13	12/12/16 17:35	95-63-6	
1,3,5-Trimethylbenzene	<105	ug/kg	105	31.6	1	12/08/16 13:13	12/12/16 17:35	108-67-8	
Vinyl chloride	<58.7	ug/kg	58.7	17.6	1	12/08/16 13:13	12/12/16 17:35	75-01-4	
Xylene (Total)	<366	ug/kg	366	110	1	12/08/16 13:13	12/12/16 17:35	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	97	%	75-129		1	12/08/16 13:13	12/12/16 17:35	17060-07-0	
Toluene-d8 (S)	96	%	75-125		1	12/08/16 13:13	12/12/16 17:35	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	12/08/16 13:13	12/12/16 17:35	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S8\_24-25**      **Lab ID: 10372445012**      Collected: 12/06/16 14:30      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	4.4	mg/kg	1.1	0.34	1	12/20/16 16:32	12/22/16 05:34	7440-38-2	
Barium	91.3	mg/kg	0.091	0.027	1	12/20/16 16:32	12/22/16 05:34	7440-39-3	
Cadmium	0.75	mg/kg	0.054	0.016	1	12/20/16 16:32	12/22/16 05:34	7440-43-9	
Chromium	22.1	mg/kg	0.59	0.18	1	12/20/16 16:32	12/22/16 05:34	7440-47-3	
Lead	69.3	mg/kg	0.57	0.17	1	12/20/16 16:32	12/22/16 05:34	7439-92-1	
Selenium	<1.7	mg/kg	1.7	0.50	1	12/20/16 16:32	12/22/16 05:34	7782-49-2	
Silver	1.6	mg/kg	0.46	0.14	1	12/20/16 16:32	12/22/16 05:34	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	1.9	mg/kg	0.058	0.017	2	12/16/16 12:31	12/20/16 14:43	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	46.9	%	0.10	0.10	1		12/20/16 13:13		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	76.1	ug/kg	2.4	0.74	1	12/09/16 11:09	12/18/16 23:14	83-32-9	
Acenaphthylene	52.8	ug/kg	1.7	0.51	1	12/09/16 11:09	12/18/16 23:14	208-96-8	
Anthracene	127	ug/kg	2.8	0.85	1	12/09/16 11:09	12/18/16 23:14	120-12-7	
Benzo(a)anthracene	363	ug/kg	2.9	0.88	1	12/09/16 11:09	12/18/16 23:14	56-55-3	
Benzo(a)pyrene	386	ug/kg	2.2	0.65	1	12/09/16 11:09	12/18/16 23:14	50-32-8	
Benzo(b)fluoranthene	403	ug/kg	3.6	1.1	1	12/09/16 11:09	12/18/16 23:14	205-99-2	
Benzo(g,h,i)perylene	235	ug/kg	2.9	0.86	1	12/09/16 11:09	12/18/16 23:14	191-24-2	
Benzo(k)fluoranthene	190	ug/kg	3.1	0.93	1	12/09/16 11:09	12/18/16 23:14	207-08-9	
Chrysene	322	ug/kg	3.5	1.0	1	12/09/16 11:09	12/18/16 23:14	218-01-9	
Dibenz(a,h)anthracene	75.3	ug/kg	2.0	0.62	1	12/09/16 11:09	12/18/16 23:14	53-70-3	
Fluoranthene	741	ug/kg	9.8	2.9	2	12/09/16 11:09	12/20/16 00:36	206-44-0	
Fluorene	59.7	ug/kg	2.4	0.72	1	12/09/16 11:09	12/18/16 23:14	86-73-7	
Indeno(1,2,3-cd)pyrene	178	ug/kg	4.7	1.4	1	12/09/16 11:09	12/18/16 23:14	193-39-5	
Naphthalene	65.0	ug/kg	2.2	0.67	1	12/09/16 11:09	12/18/16 23:14	91-20-3	
Phenanthrene	425	ug/kg	2.5	0.76	1	12/09/16 11:09	12/18/16 23:14	85-01-8	
Pyrene	622	ug/kg	5.2	1.6	1	12/09/16 11:09	12/18/16 23:14	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	67	%	41-125		1	12/09/16 11:09	12/18/16 23:14	321-60-8	
p-Terphenyl-d14 (S)	63	%	39-125		1	12/09/16 11:09	12/18/16 23:14	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<2420	ug/kg	2420	726	1	12/08/16 13:13	12/12/16 17:51	67-64-1	
Allyl chloride	<316	ug/kg	316	95.0	1	12/08/16 13:13	12/12/16 17:51	107-05-1	
Benzene	<31.8	ug/kg	31.8	9.6	1	12/08/16 13:13	12/12/16 17:51	71-43-2	
Bromobenzene	<94.3	ug/kg	94.3	28.3	1	12/08/16 13:13	12/12/16 17:51	108-86-1	
Bromochloromethane	<110	ug/kg	110	33.0	1	12/08/16 13:13	12/12/16 17:51	74-97-5	
Bromodichloromethane	<103	ug/kg	103	31.0	1	12/08/16 13:13	12/12/16 17:51	75-27-4	
Bromoform	<318	ug/kg	318	95.4	1	12/08/16 13:13	12/12/16 17:51	75-25-2	
Bromomethane	<374	ug/kg	374	112	1	12/08/16 13:13	12/12/16 17:51	74-83-9	
2-Butanone (MEK)	<486	ug/kg	486	146	1	12/08/16 13:13	12/12/16 17:51	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S8\_24-25**      **Lab ID: 10372445012**      Collected: 12/06/16 14:30      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<89.2	ug/kg	89.2	26.8	1	12/08/16 13:13	12/12/16 17:51	104-51-8	
sec-Butylbenzene	<87.0	ug/kg	87.0	26.1	1	12/08/16 13:13	12/12/16 17:51	135-98-8	
tert-Butylbenzene	<116	ug/kg	116	35.0	1	12/08/16 13:13	12/12/16 17:51	98-06-6	
Carbon tetrachloride	<116	ug/kg	116	34.7	1	12/08/16 13:13	12/12/16 17:51	56-23-5	
Chlorobenzene	<64.1	ug/kg	64.1	19.3	1	12/08/16 13:13	12/12/16 17:51	108-90-7	
Chloroethane	<582	ug/kg	582	175	1	12/08/16 13:13	12/12/16 17:51	75-00-3	
Chloroform	<179	ug/kg	179	53.8	1	12/08/16 13:13	12/12/16 17:51	67-66-3	
Chloromethane	<178	ug/kg	178	53.6	1	12/08/16 13:13	12/12/16 17:51	74-87-3	
2-Chlorotoluene	<102	ug/kg	102	30.5	1	12/08/16 13:13	12/12/16 17:51	95-49-8	
4-Chlorotoluene	<96.6	ug/kg	96.6	29.0	1	12/08/16 13:13	12/12/16 17:51	106-43-4	
1,2-Dibromo-3-chloropropane	<216	ug/kg	216	216	1	12/08/16 13:13	12/12/16 17:51	96-12-8	
Dibromochloromethane	<316	ug/kg	316	95.0	1	12/08/16 13:13	12/12/16 17:51	124-48-1	
1,2-Dibromoethane (EDB)	<41.6	ug/kg	41.6	41.6	1	12/08/16 13:13	12/12/16 17:51	106-93-4	
Dibromomethane	<144	ug/kg	144	43.2	1	12/08/16 13:13	12/12/16 17:51	74-95-3	
1,2-Dichlorobenzene	<21.4	ug/kg	21.4	21.4	1	12/08/16 13:13	12/12/16 17:51	95-50-1	
1,3-Dichlorobenzene	<32.5	ug/kg	32.5	21.4	1	12/08/16 13:13	12/12/16 17:51	541-73-1	
1,4-Dichlorobenzene	<107	ug/kg	107	32.1	1	12/08/16 13:13	12/12/16 17:51	106-46-7	
Dichlorodifluoromethane	<113	ug/kg	113	33.9	1	12/08/16 13:13	12/12/16 17:51	75-71-8	
1,1-Dichloroethane	<42.9	ug/kg	42.9	42.9	1	12/08/16 13:13	12/12/16 17:51	75-34-3	
1,2-Dichloroethane	<35.0	ug/kg	35.0	35.0	1	12/08/16 13:13	12/12/16 17:51	107-06-2	
1,1-Dichloroethene	<28.1	ug/kg	28.1	28.1	1	12/08/16 13:13	12/12/16 17:51	75-35-4	
cis-1,2-Dichloroethene	<137	ug/kg	137	41.2	1	12/08/16 13:13	12/12/16 17:51	156-59-2	
trans-1,2-Dichloroethene	<178	ug/kg	178	53.3	1	12/08/16 13:13	12/12/16 17:51	156-60-5	
Dichlorofluoromethane	<1010	ug/kg	1010	303	1	12/08/16 13:13	12/12/16 17:51	75-43-4	
1,2-Dichloropropane	<38.3	ug/kg	38.3	38.3	1	12/08/16 13:13	12/12/16 17:51	78-87-5	
1,3-Dichloropropane	<132	ug/kg	132	39.6	1	12/08/16 13:13	12/12/16 17:51	142-28-9	
2,2-Dichloropropane	<117	ug/kg	117	35.2	1	12/08/16 13:13	12/12/16 17:51	594-20-7	
1,1-Dichloropropene	<33.4	ug/kg	33.4	33.4	1	12/08/16 13:13	12/12/16 17:51	563-58-6	
cis-1,3-Dichloropropene	<168	ug/kg	168	50.5	1	12/08/16 13:13	12/12/16 17:51	10061-01-5	
trans-1,3-Dichloropropene	<125	ug/kg	125	37.6	1	12/08/16 13:13	12/12/16 17:51	10061-02-6	
Diethyl ether (Ethyl ether)	<152	ug/kg	152	45.6	1	12/08/16 13:13	12/12/16 17:51	60-29-7	
Ethylbenzene	<117	ug/kg	117	35.2	1	12/08/16 13:13	12/12/16 17:51	100-41-4	
Hexachloro-1,3-butadiene	<346	ug/kg	346	104	1	12/08/16 13:13	12/12/16 17:51	87-68-3	
Isopropylbenzene (Cumene)	<131	ug/kg	131	39.4	1	12/08/16 13:13	12/12/16 17:51	98-82-8	
p-Isopropyltoluene	<61.2	ug/kg	61.2	18.4	1	12/08/16 13:13	12/12/16 17:51	99-87-6	
Methylene Chloride	<682	ug/kg	682	205	1	12/08/16 13:13	12/12/16 17:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	<244	ug/kg	244	73.3	1	12/08/16 13:13	12/12/16 17:51	108-10-1	
Methyl-tert-butyl ether	<69.0	ug/kg	69.0	20.7	1	12/08/16 13:13	12/12/16 17:51	1634-04-4	
Naphthalene	135	ug/kg	89.2	26.8	1	12/08/16 13:13	12/12/16 17:51	91-20-3	
n-Propylbenzene	<110	ug/kg	110	33.0	1	12/08/16 13:13	12/12/16 17:51	103-65-1	
Styrene	<95.8	ug/kg	95.8	28.8	1	12/08/16 13:13	12/12/16 17:51	100-42-5	
1,1,1,2-Tetrachloroethane	<43.8	ug/kg	43.8	43.8	1	12/08/16 13:13	12/12/16 17:51	630-20-6	
1,1,2,2-Tetrachloroethane	42.1	ug/kg	24.6	24.6	1	12/08/16 13:13	12/12/16 17:51	79-34-5	
Tetrachloroethene	<141	ug/kg	141	42.3	1	12/08/16 13:13	12/12/16 17:51	127-18-4	
Tetrahydrofuran	<1830	ug/kg	1830	549	1	12/08/16 13:13	12/12/16 17:51	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S8\_24-25**      **Lab ID: 10372445012**      Collected: 12/06/16 14:30      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<b>125</b>	ug/kg	117	35.2	1	12/08/16 13:13	12/12/16 17:51	108-88-3	
1,2,3-Trichlorobenzene	<b>&lt;31.9</b>	ug/kg	31.9	31.9	1	12/08/16 13:13	12/12/16 17:51	87-61-6	
1,2,4-Trichlorobenzene	<b>&lt;34.1</b>	ug/kg	34.1	34.1	1	12/08/16 13:13	12/12/16 17:51	120-82-1	
1,1,1-Trichloroethane	<b>&lt;46.3</b>	ug/kg	46.3	46.3	1	12/08/16 13:13	12/12/16 17:51	71-55-6	
1,1,2-Trichloroethane	<b>&lt;23.9</b>	ug/kg	23.9	23.9	1	12/08/16 13:13	12/12/16 17:51	79-00-5	
Trichloroethene	<b>&lt;105</b>	ug/kg	105	31.7	1	12/08/16 13:13	12/12/16 17:51	79-01-6	
Trichlorofluoromethane	<b>&lt;370</b>	ug/kg	370	111	1	12/08/16 13:13	12/12/16 17:51	75-69-4	
1,2,3-Trichloropropane	<b>&lt;115</b>	ug/kg	115	115	1	12/08/16 13:13	12/12/16 17:51	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;265</b>	ug/kg	265	79.7	1	12/08/16 13:13	12/12/16 17:51	76-13-1	
1,2,4-Trimethylbenzene	<b>35.6</b>	ug/kg	24.3	24.3	1	12/08/16 13:13	12/12/16 17:51	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;84.8</b>	ug/kg	84.8	25.5	1	12/08/16 13:13	12/12/16 17:51	108-67-8	
Vinyl chloride	<b>&lt;47.3</b>	ug/kg	47.3	14.2	1	12/08/16 13:13	12/12/16 17:51	75-01-4	
Xylene (Total)	<b>&lt;295</b>	ug/kg	295	88.5	1	12/08/16 13:13	12/12/16 17:51	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	100	%	75-129		1	12/08/16 13:13	12/12/16 17:51	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/08/16 13:13	12/12/16 17:51	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/08/16 13:13	12/12/16 17:51	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-9\_24-24.5**      **Lab ID: 10372445013**      Collected: 12/06/16 14:45      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	4.2	mg/kg	1.2	0.35	1	12/20/16 16:32	12/22/16 05:36	7440-38-2	
Barium	89.7	mg/kg	0.094	0.028	1	12/20/16 16:32	12/22/16 05:36	7440-39-3	
Cadmium	0.51	mg/kg	0.056	0.017	1	12/20/16 16:32	12/22/16 05:36	7440-43-9	
Chromium	23.7	mg/kg	0.61	0.18	1	12/20/16 16:32	12/22/16 05:36	7440-47-3	
Lead	34.3	mg/kg	0.59	0.18	1	12/20/16 16:32	12/22/16 05:36	7439-92-1	
Selenium	<1.7	mg/kg	1.7	0.51	1	12/20/16 16:32	12/22/16 05:36	7782-49-2	
Silver	0.64	mg/kg	0.47	0.14	1	12/20/16 16:32	12/22/16 05:36	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.56	mg/kg	0.039	0.012	1	12/16/16 12:31	12/20/16 14:30	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	56.1	%	0.10	0.10	1		12/20/16 13:13		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	35.5	ug/kg	3.0	0.89	1	12/09/16 11:09	12/18/16 23:57	83-32-9	
Acenaphthylene	20.4	ug/kg	2.1	0.62	1	12/09/16 11:09	12/18/16 23:57	208-96-8	
Anthracene	77.3	ug/kg	3.4	1.0	1	12/09/16 11:09	12/18/16 23:57	120-12-7	
Benzo(a)anthracene	145	ug/kg	3.6	1.1	1	12/09/16 11:09	12/18/16 23:57	56-55-3	
Benzo(a)pyrene	155	ug/kg	2.6	0.79	1	12/09/16 11:09	12/18/16 23:57	50-32-8	
Benzo(b)fluoranthene	182	ug/kg	4.3	1.3	1	12/09/16 11:09	12/18/16 23:57	205-99-2	
Benzo(g,h,i)perylene	102	ug/kg	3.5	1.0	1	12/09/16 11:09	12/18/16 23:57	191-24-2	
Benzo(k)fluoranthene	88.3	ug/kg	3.7	1.1	1	12/09/16 11:09	12/18/16 23:57	207-08-9	
Chrysene	160	ug/kg	4.2	1.3	1	12/09/16 11:09	12/18/16 23:57	218-01-9	
Dibenz(a,h)anthracene	32.4	ug/kg	2.5	0.74	1	12/09/16 11:09	12/18/16 23:57	53-70-3	
Fluoranthene	337	ug/kg	5.9	1.8	1	12/09/16 11:09	12/18/16 23:57	206-44-0	
Fluorene	36.4	ug/kg	2.9	0.87	1	12/09/16 11:09	12/18/16 23:57	86-73-7	
Indeno(1,2,3-cd)pyrene	85.1	ug/kg	5.7	1.7	1	12/09/16 11:09	12/18/16 23:57	193-39-5	
Naphthalene	47.6	ug/kg	2.7	0.81	1	12/09/16 11:09	12/18/16 23:57	91-20-3	
Phenanthrene	260	ug/kg	3.1	0.92	1	12/09/16 11:09	12/18/16 23:57	85-01-8	
Pyrene	283	ug/kg	6.3	1.9	1	12/09/16 11:09	12/18/16 23:57	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	69	%	41-125		1	12/09/16 11:09	12/18/16 23:57	321-60-8	
p-Terphenyl-d14 (S)	60	%	39-125		1	12/09/16 11:09	12/18/16 23:57	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<2560	ug/kg	2560	768	1	12/08/16 13:13	12/12/16 18:07	67-64-1	
Allyl chloride	<335	ug/kg	335	100	1	12/08/16 13:13	12/12/16 18:07	107-05-1	
Benzene	<33.7	ug/kg	33.7	10.1	1	12/08/16 13:13	12/12/16 18:07	71-43-2	
Bromobenzene	<99.8	ug/kg	99.8	30.0	1	12/08/16 13:13	12/12/16 18:07	108-86-1	
Bromochloromethane	<116	ug/kg	116	34.9	1	12/08/16 13:13	12/12/16 18:07	74-97-5	
Bromodichloromethane	<109	ug/kg	109	32.8	1	12/08/16 13:13	12/12/16 18:07	75-27-4	
Bromoform	<336	ug/kg	336	101	1	12/08/16 13:13	12/12/16 18:07	75-25-2	
Bromomethane	<395	ug/kg	395	119	1	12/08/16 13:13	12/12/16 18:07	74-83-9	
2-Butanone (MEK)	<515	ug/kg	515	155	1	12/08/16 13:13	12/12/16 18:07	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-9\_24-24.5**      **Lab ID: 10372445013**      Collected: 12/06/16 14:45      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<94.4	ug/kg	94.4	28.3	1	12/08/16 13:13	12/12/16 18:07	104-51-8	
sec-Butylbenzene	<92.0	ug/kg	92.0	27.6	1	12/08/16 13:13	12/12/16 18:07	135-98-8	
tert-Butylbenzene	<123	ug/kg	123	37.0	1	12/08/16 13:13	12/12/16 18:07	98-06-6	
Carbon tetrachloride	<122	ug/kg	122	36.8	1	12/08/16 13:13	12/12/16 18:07	56-23-5	
Chlorobenzene	<67.8	ug/kg	67.8	20.4	1	12/08/16 13:13	12/12/16 18:07	108-90-7	
Chloroethane	<616	ug/kg	616	185	1	12/08/16 13:13	12/12/16 18:07	75-00-3	
Chloroform	<190	ug/kg	190	56.9	1	12/08/16 13:13	12/12/16 18:07	67-66-3	
Chloromethane	<189	ug/kg	189	56.7	1	12/08/16 13:13	12/12/16 18:07	74-87-3	
2-Chlorotoluene	<108	ug/kg	108	32.3	1	12/08/16 13:13	12/12/16 18:07	95-49-8	
4-Chlorotoluene	<102	ug/kg	102	30.7	1	12/08/16 13:13	12/12/16 18:07	106-43-4	
1,2-Dibromo-3-chloropropane	<228	ug/kg	228	228	1	12/08/16 13:13	12/12/16 18:07	96-12-8	
Dibromochloromethane	<335	ug/kg	335	100	1	12/08/16 13:13	12/12/16 18:07	124-48-1	
1,2-Dibromoethane (EDB)	<44.0	ug/kg	44.0	44.0	1	12/08/16 13:13	12/12/16 18:07	106-93-4	
Dibromomethane	<152	ug/kg	152	45.7	1	12/08/16 13:13	12/12/16 18:07	74-95-3	
1,2-Dichlorobenzene	<22.6	ug/kg	22.6	22.6	1	12/08/16 13:13	12/12/16 18:07	95-50-1	
1,3-Dichlorobenzene	<34.4	ug/kg	34.4	22.6	1	12/08/16 13:13	12/12/16 18:07	541-73-1	
1,4-Dichlorobenzene	<113	ug/kg	113	34.0	1	12/08/16 13:13	12/12/16 18:07	106-46-7	
Dichlorodifluoromethane	<119	ug/kg	119	35.8	1	12/08/16 13:13	12/12/16 18:07	75-71-8	
1,1-Dichloroethane	<45.4	ug/kg	45.4	45.4	1	12/08/16 13:13	12/12/16 18:07	75-34-3	
1,2-Dichloroethane	<37.0	ug/kg	37.0	37.0	1	12/08/16 13:13	12/12/16 18:07	107-06-2	
1,1-Dichloroethene	<29.7	ug/kg	29.7	29.7	1	12/08/16 13:13	12/12/16 18:07	75-35-4	
cis-1,2-Dichloroethene	<145	ug/kg	145	43.6	1	12/08/16 13:13	12/12/16 18:07	156-59-2	
trans-1,2-Dichloroethene	<188	ug/kg	188	56.4	1	12/08/16 13:13	12/12/16 18:07	156-60-5	
Dichlorofluoromethane	<1070	ug/kg	1070	321	1	12/08/16 13:13	12/12/16 18:07	75-43-4	
1,2-Dichloropropane	<40.5	ug/kg	40.5	40.5	1	12/08/16 13:13	12/12/16 18:07	78-87-5	
1,3-Dichloropropane	<140	ug/kg	140	41.9	1	12/08/16 13:13	12/12/16 18:07	142-28-9	
2,2-Dichloropropane	<124	ug/kg	124	37.2	1	12/08/16 13:13	12/12/16 18:07	594-20-7	
1,1-Dichloropropene	<35.4	ug/kg	35.4	35.4	1	12/08/16 13:13	12/12/16 18:07	563-58-6	
cis-1,3-Dichloropropene	<178	ug/kg	178	53.4	1	12/08/16 13:13	12/12/16 18:07	10061-01-5	
trans-1,3-Dichloropropene	<133	ug/kg	133	39.8	1	12/08/16 13:13	12/12/16 18:07	10061-02-6	
Diethyl ether (Ethyl ether)	<161	ug/kg	161	48.2	1	12/08/16 13:13	12/12/16 18:07	60-29-7	
Ethylbenzene	<124	ug/kg	124	37.2	1	12/08/16 13:13	12/12/16 18:07	100-41-4	
Hexachloro-1,3-butadiene	<367	ug/kg	367	110	1	12/08/16 13:13	12/12/16 18:07	87-68-3	
Isopropylbenzene (Cumene)	<139	ug/kg	139	41.7	1	12/08/16 13:13	12/12/16 18:07	98-82-8	
p-Isopropyltoluene	<64.7	ug/kg	64.7	19.4	1	12/08/16 13:13	12/12/16 18:07	99-87-6	
Methylene Chloride	<722	ug/kg	722	217	1	12/08/16 13:13	12/12/16 18:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	<258	ug/kg	258	77.5	1	12/08/16 13:13	12/12/16 18:07	108-10-1	
Methyl-tert-butyl ether	<73.0	ug/kg	73.0	21.9	1	12/08/16 13:13	12/12/16 18:07	1634-04-4	
Naphthalene	<94.4	ug/kg	94.4	28.3	1	12/08/16 13:13	12/12/16 18:07	91-20-3	
n-Propylbenzene	<116	ug/kg	116	34.9	1	12/08/16 13:13	12/12/16 18:07	103-65-1	
Styrene	<101	ug/kg	101	30.4	1	12/08/16 13:13	12/12/16 18:07	100-42-5	
1,1,1,2-Tetrachloroethane	<46.4	ug/kg	46.4	46.4	1	12/08/16 13:13	12/12/16 18:07	630-20-6	
1,1,2,2-Tetrachloroethane	<26.0	ug/kg	26.0	26.0	1	12/08/16 13:13	12/12/16 18:07	79-34-5	
Tetrachloroethene	<149	ug/kg	149	44.7	1	12/08/16 13:13	12/12/16 18:07	127-18-4	
Tetrahydrofuran	<1930	ug/kg	1930	581	1	12/08/16 13:13	12/12/16 18:07	109-99-9	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-9\_24-24.5**      **Lab ID: 10372445013**      Collected: 12/06/16 14:45      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<b>127</b>	ug/kg	124	37.2	1	12/08/16 13:13	12/12/16 18:07	108-88-3	
1,2,3-Trichlorobenzene	<b>&lt;33.7</b>	ug/kg	33.7	33.7	1	12/08/16 13:13	12/12/16 18:07	87-61-6	
1,2,4-Trichlorobenzene	<b>&lt;36.1</b>	ug/kg	36.1	36.1	1	12/08/16 13:13	12/12/16 18:07	120-82-1	
1,1,1-Trichloroethane	<b>&lt;48.9</b>	ug/kg	48.9	48.9	1	12/08/16 13:13	12/12/16 18:07	71-55-6	
1,1,2-Trichloroethane	<b>&lt;25.3</b>	ug/kg	25.3	25.3	1	12/08/16 13:13	12/12/16 18:07	79-00-5	
Trichloroethene	<b>&lt;112</b>	ug/kg	112	33.5	1	12/08/16 13:13	12/12/16 18:07	79-01-6	
Trichlorofluoromethane	<b>&lt;391</b>	ug/kg	391	118	1	12/08/16 13:13	12/12/16 18:07	75-69-4	
1,2,3-Trichloropropane	<b>&lt;121</b>	ug/kg	121	121	1	12/08/16 13:13	12/12/16 18:07	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;281</b>	ug/kg	281	84.3	1	12/08/16 13:13	12/12/16 18:07	76-13-1	
1,2,4-Trimethylbenzene	<b>&lt;25.8</b>	ug/kg	25.8	25.8	1	12/08/16 13:13	12/12/16 18:07	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;89.7</b>	ug/kg	89.7	26.9	1	12/08/16 13:13	12/12/16 18:07	108-67-8	
Vinyl chloride	<b>&lt;50.1</b>	ug/kg	50.1	15.0	1	12/08/16 13:13	12/12/16 18:07	75-01-4	
Xylene (Total)	<b>&lt;312</b>	ug/kg	312	93.7	1	12/08/16 13:13	12/12/16 18:07	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	96	%	75-129		1	12/08/16 13:13	12/12/16 18:07	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/08/16 13:13	12/12/16 18:07	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/08/16 13:13	12/12/16 18:07	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-9\_24.5-25**      **Lab ID: 10372445014**      Collected: 12/06/16 15:15      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	4.0	mg/kg	1.0	0.30	1	12/20/16 16:32	12/22/16 05:39	7440-38-2	
Barium	116	mg/kg	0.080	0.024	1	12/20/16 16:32	12/22/16 05:39	7440-39-3	
Cadmium	0.79	mg/kg	0.048	0.014	1	12/20/16 16:32	12/22/16 05:39	7440-43-9	
Chromium	20.3	mg/kg	0.52	0.16	1	12/20/16 16:32	12/22/16 05:39	7440-47-3	
Lead	113	mg/kg	0.50	0.15	1	12/20/16 16:32	12/22/16 05:39	7439-92-1	
Selenium	<1.5	mg/kg	1.5	0.44	1	12/20/16 16:32	12/22/16 05:39	7782-49-2	
Silver	2.6	mg/kg	0.40	0.12	1	12/20/16 16:32	12/22/16 05:39	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	4.0	mg/kg	0.15	0.044	5	12/16/16 12:31	12/20/16 14:45	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	43.1	%	0.10	0.10	1		12/20/16 13:14		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	185	ug/kg	2.3	0.69	1	12/09/16 11:09	12/19/16 00:19	83-32-9	
Acenaphthylene	67.4	ug/kg	1.6	0.48	1	12/09/16 11:09	12/19/16 00:19	208-96-8	
Anthracene	203	ug/kg	2.7	0.80	1	12/09/16 11:09	12/19/16 00:19	120-12-7	
Benzo(a)anthracene	472	ug/kg	2.7	0.82	1	12/09/16 11:09	12/19/16 00:19	56-55-3	
Benzo(a)pyrene	471	ug/kg	2.0	0.61	1	12/09/16 11:09	12/19/16 00:19	50-32-8	
Benzo(b)fluoranthene	473	ug/kg	3.3	1.0	1	12/09/16 11:09	12/19/16 00:19	205-99-2	
Benzo(g,h,i)perylene	280	ug/kg	2.7	0.80	1	12/09/16 11:09	12/19/16 00:19	191-24-2	
Benzo(k)fluoranthene	218	ug/kg	2.9	0.86	1	12/09/16 11:09	12/19/16 00:19	207-08-9	
Chrysene	451	ug/kg	3.2	0.97	1	12/09/16 11:09	12/19/16 00:19	218-01-9	
Dibenz(a,h)anthracene	82.6	ug/kg	1.9	0.57	1	12/09/16 11:09	12/19/16 00:19	53-70-3	
Fluoranthene	1050	ug/kg	22.9	6.9	5	12/09/16 11:09	12/20/16 00:57	206-44-0	
Fluorene	106	ug/kg	2.2	0.67	1	12/09/16 11:09	12/19/16 00:19	86-73-7	
Indeno(1,2,3-cd)pyrene	223	ug/kg	4.4	1.3	1	12/09/16 11:09	12/19/16 00:19	193-39-5	
Naphthalene	96.8	ug/kg	2.1	0.63	1	12/09/16 11:09	12/19/16 00:19	91-20-3	
Phenanthrene	699	ug/kg	11.8	3.5	5	12/09/16 11:09	12/20/16 00:57	85-01-8	
Pyrene	1030	ug/kg	24.2	7.3	5	12/09/16 11:09	12/20/16 00:57	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	68	%	41-125		1	12/09/16 11:09	12/19/16 00:19	321-60-8	
p-Terphenyl-d14 (S)	68	%	39-125		1	12/09/16 11:09	12/19/16 00:19	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<2050	ug/kg	2050	616	1	12/08/16 13:15	12/13/16 00:31	67-64-1	
Allyl chloride	<268	ug/kg	268	80.6	1	12/08/16 13:15	12/13/16 00:31	107-05-1	
Benzene	39.9	ug/kg	27.0	8.1	1	12/08/16 13:15	12/13/16 00:31	71-43-2	
Bromobenzene	<80.1	ug/kg	80.1	24.1	1	12/08/16 13:15	12/13/16 00:31	108-86-1	
Bromochloromethane	<93.3	ug/kg	93.3	28.0	1	12/08/16 13:15	12/13/16 00:31	74-97-5	
Bromodichloromethane	<87.6	ug/kg	87.6	26.3	1	12/08/16 13:15	12/13/16 00:31	75-27-4	
Bromoform	<270	ug/kg	270	81.0	1	12/08/16 13:15	12/13/16 00:31	75-25-2	
Bromomethane	<317	ug/kg	317	95.3	1	12/08/16 13:15	12/13/16 00:31	74-83-9	
2-Butanone (MEK)	<413	ug/kg	413	124	1	12/08/16 13:15	12/13/16 00:31	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-9\_24.5-25**      **Lab ID: 10372445014**      Collected: 12/06/16 15:15      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<75.7	ug/kg	75.7	22.7	1	12/08/16 13:15	12/13/16 00:31	104-51-8	
sec-Butylbenzene	<73.9	ug/kg	73.9	22.2	1	12/08/16 13:15	12/13/16 00:31	135-98-8	
tert-Butylbenzene	<98.9	ug/kg	98.9	29.7	1	12/08/16 13:15	12/13/16 00:31	98-06-6	
Carbon tetrachloride	<98.3	ug/kg	98.3	29.5	1	12/08/16 13:15	12/13/16 00:31	56-23-5	
Chlorobenzene	<54.4	ug/kg	54.4	16.4	1	12/08/16 13:15	12/13/16 00:31	108-90-7	
Chloroethane	<494	ug/kg	494	148	1	12/08/16 13:15	12/13/16 00:31	75-00-3	
Chloroform	<152	ug/kg	152	45.7	1	12/08/16 13:15	12/13/16 00:31	67-66-3	
Chloromethane	<151	ug/kg	151	45.5	1	12/08/16 13:15	12/13/16 00:31	74-87-3	
2-Chlorotoluene	<86.4	ug/kg	86.4	25.9	1	12/08/16 13:15	12/13/16 00:31	95-49-8	
4-Chlorotoluene	<82.0	ug/kg	82.0	24.6	1	12/08/16 13:15	12/13/16 00:31	106-43-4	
1,2-Dibromo-3-chloropropane	<183	ug/kg	183	183	1	12/08/16 13:15	12/13/16 00:31	96-12-8	
Dibromochloromethane	<268	ug/kg	268	80.6	1	12/08/16 13:15	12/13/16 00:31	124-48-1	
1,2-Dibromoethane (EDB)	<35.3	ug/kg	35.3	35.3	1	12/08/16 13:15	12/13/16 00:31	106-93-4	
Dibromomethane	<122	ug/kg	122	36.6	1	12/08/16 13:15	12/13/16 00:31	74-95-3	
1,2-Dichlorobenzene	<18.2	ug/kg	18.2	18.2	1	12/08/16 13:15	12/13/16 00:31	95-50-1	
1,3-Dichlorobenzene	<27.6	ug/kg	27.6	27.6	1	12/08/16 13:15	12/13/16 00:31	541-73-1	L2
1,4-Dichlorobenzene	<90.7	ug/kg	90.7	27.3	1	12/08/16 13:15	12/13/16 00:31	106-46-7	
Dichlorodifluoromethane	<95.8	ug/kg	95.8	28.8	1	12/08/16 13:15	12/13/16 00:31	75-71-8	
1,1-Dichloroethane	<36.5	ug/kg	36.5	36.5	1	12/08/16 13:15	12/13/16 00:31	75-34-3	
1,2-Dichloroethane	<29.7	ug/kg	29.7	29.7	1	12/08/16 13:15	12/13/16 00:31	107-06-2	
1,1-Dichloroethene	<23.9	ug/kg	23.9	23.9	1	12/08/16 13:15	12/13/16 00:31	75-35-4	
cis-1,2-Dichloroethene	<116	ug/kg	116	35.0	1	12/08/16 13:15	12/13/16 00:31	156-59-2	
trans-1,2-Dichloroethene	<151	ug/kg	151	45.3	1	12/08/16 13:15	12/13/16 00:31	156-60-5	
Dichlorofluoromethane	<857	ug/kg	857	257	1	12/08/16 13:15	12/13/16 00:31	75-43-4	
1,2-Dichloropropane	<32.5	ug/kg	32.5	32.5	1	12/08/16 13:15	12/13/16 00:31	78-87-5	
1,3-Dichloropropane	<112	ug/kg	112	33.6	1	12/08/16 13:15	12/13/16 00:31	142-28-9	
2,2-Dichloropropane	<99.5	ug/kg	99.5	29.9	1	12/08/16 13:15	12/13/16 00:31	594-20-7	
1,1-Dichloropropene	<28.4	ug/kg	28.4	28.4	1	12/08/16 13:15	12/13/16 00:31	563-58-6	
cis-1,3-Dichloropropene	<143	ug/kg	143	42.9	1	12/08/16 13:15	12/13/16 00:31	10061-01-5	
trans-1,3-Dichloropropene	<106	ug/kg	106	32.0	1	12/08/16 13:15	12/13/16 00:31	10061-02-6	
Diethyl ether (Ethyl ether)	<129	ug/kg	129	38.7	1	12/08/16 13:15	12/13/16 00:31	60-29-7	
Ethylbenzene	<99.5	ug/kg	99.5	29.9	1	12/08/16 13:15	12/13/16 00:31	100-41-4	
Hexachloro-1,3-butadiene	<294	ug/kg	294	88.3	1	12/08/16 13:15	12/13/16 00:31	87-68-3	
Isopropylbenzene (Cumene)	<111	ug/kg	111	33.5	1	12/08/16 13:15	12/13/16 00:31	98-82-8	
p-Isopropyltoluene	<51.9	ug/kg	51.9	15.6	1	12/08/16 13:15	12/13/16 00:31	99-87-6	
Methylene Chloride	<580	ug/kg	580	174	1	12/08/16 13:15	12/13/16 00:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	<207	ug/kg	207	62.2	1	12/08/16 13:15	12/13/16 00:31	108-10-1	
Methyl-tert-butyl ether	<58.6	ug/kg	58.6	17.6	1	12/08/16 13:15	12/13/16 00:31	1634-04-4	
Naphthalene	352	ug/kg	75.7	22.7	1	12/08/16 13:15	12/13/16 00:31	91-20-3	
n-Propylbenzene	<93.3	ug/kg	93.3	28.0	1	12/08/16 13:15	12/13/16 00:31	103-65-1	
Styrene	<81.4	ug/kg	81.4	24.4	1	12/08/16 13:15	12/13/16 00:31	100-42-5	
1,1,1,2-Tetrachloroethane	<37.2	ug/kg	37.2	37.2	1	12/08/16 13:15	12/13/16 00:31	630-20-6	
1,1,2,2-Tetrachloroethane	<20.9	ug/kg	20.9	20.9	1	12/08/16 13:15	12/13/16 00:31	79-34-5	
Tetrachloroethene	<120	ug/kg	120	35.9	1	12/08/16 13:15	12/13/16 00:31	127-18-4	
Tetrahydrofuran	<1550	ug/kg	1550	466	1	12/08/16 13:15	12/13/16 00:31	109-99-9	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-9\_24.5-25**      **Lab ID: 10372445014**      Collected: 12/06/16 15:15      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<b>507</b>	ug/kg	99.5	29.9	1	12/08/16 13:15	12/13/16 00:31	108-88-3	
1,2,3-Trichlorobenzene	<b>&lt;27.1</b>	ug/kg	27.1	27.1	1	12/08/16 13:15	12/13/16 00:31	87-61-6	
1,2,4-Trichlorobenzene	<b>&lt;28.9</b>	ug/kg	28.9	28.9	1	12/08/16 13:15	12/13/16 00:31	120-82-1	
1,1,1-Trichloroethane	<b>&lt;39.3</b>	ug/kg	39.3	39.3	1	12/08/16 13:15	12/13/16 00:31	71-55-6	
1,1,2-Trichloroethane	<b>&lt;20.3</b>	ug/kg	20.3	20.3	1	12/08/16 13:15	12/13/16 00:31	79-00-5	
Trichloroethene	<b>&lt;89.5</b>	ug/kg	89.5	26.9	1	12/08/16 13:15	12/13/16 00:31	79-01-6	
Trichlorofluoromethane	<b>&lt;314</b>	ug/kg	314	94.3	1	12/08/16 13:15	12/13/16 00:31	75-69-4	
1,2,3-Trichloropropane	<b>&lt;97.4</b>	ug/kg	97.4	97.4	1	12/08/16 13:15	12/13/16 00:31	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;225</b>	ug/kg	225	67.7	1	12/08/16 13:15	12/13/16 00:31	76-13-1	
1,2,4-Trimethylbenzene	<b>67.8</b>	ug/kg	20.7	20.7	1	12/08/16 13:15	12/13/16 00:31	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;72.0</b>	ug/kg	72.0	21.6	1	12/08/16 13:15	12/13/16 00:31	108-67-8	
Vinyl chloride	<b>&lt;40.2</b>	ug/kg	40.2	12.1	1	12/08/16 13:15	12/13/16 00:31	75-01-4	
Xylene (Total)	<b>&lt;250</b>	ug/kg	250	75.2	1	12/08/16 13:15	12/13/16 00:31	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-129		1	12/08/16 13:15	12/13/16 00:31	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/08/16 13:15	12/13/16 00:31	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	12/08/16 13:15	12/13/16 00:31	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-9\_25-26**      **Lab ID: 10372445015**      Collected: 12/06/16 15:20      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	3.8	mg/kg	0.72	0.22	1	12/20/16 16:32	12/22/16 05:41	7440-38-2	
Barium	119	mg/kg	0.058	0.017	1	12/20/16 16:32	12/22/16 05:41	7440-39-3	
Cadmium	0.21	mg/kg	0.034	0.010	1	12/20/16 16:32	12/22/16 05:41	7440-43-9	
Chromium	25.9	mg/kg	0.37	0.11	1	12/20/16 16:32	12/22/16 05:41	7440-47-3	
Lead	15.9	mg/kg	0.36	0.11	1	12/20/16 16:32	12/22/16 05:41	7439-92-1	
Selenium	<1.0	mg/kg	1.0	0.31	1	12/20/16 16:32	12/22/16 05:41	7782-49-2	
Silver	<0.29	mg/kg	0.29	0.086	1	12/20/16 16:32	12/22/16 05:41	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.11	mg/kg	0.024	0.0071	1	12/16/16 12:31	12/20/16 14:34	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	31.5	%	0.10	0.10	1		12/20/16 13:14		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	24.9	ug/kg	1.9	0.57	1	12/09/16 11:09	12/18/16 18:57	83-32-9	
Acenaphthylene	<1.3	ug/kg	1.3	0.40	1	12/09/16 11:09	12/18/16 18:57	208-96-8	
Anthracene	18.0	ug/kg	2.2	0.66	1	12/09/16 11:09	12/18/16 18:57	120-12-7	
Benzo(a)anthracene	48.5	ug/kg	2.3	0.68	1	12/09/16 11:09	12/18/16 18:57	56-55-3	
Benzo(a)pyrene	43.5	ug/kg	1.7	0.50	1	12/09/16 11:09	12/18/16 18:57	50-32-8	
Benzo(b)fluoranthene	53.5	ug/kg	2.8	0.83	1	12/09/16 11:09	12/18/16 18:57	205-99-2	
Benzo(g,h,i)perylene	25.3	ug/kg	2.2	0.67	1	12/09/16 11:09	12/18/16 18:57	191-24-2	
Benzo(k)fluoranthene	20.2	ug/kg	2.4	0.72	1	12/09/16 11:09	12/18/16 18:57	207-08-9	
Chrysene	56.8	ug/kg	2.7	0.81	1	12/09/16 11:09	12/18/16 18:57	218-01-9	
Dibenz(a,h)anthracene	7.2	ug/kg	1.6	0.48	1	12/09/16 11:09	12/18/16 18:57	53-70-3	
Fluoranthene	111	ug/kg	3.8	1.1	1	12/09/16 11:09	12/18/16 18:57	206-44-0	
Fluorene	15.9	ug/kg	1.9	0.56	1	12/09/16 11:09	12/18/16 18:57	86-73-7	
Indeno(1,2,3-cd)pyrene	22.6	ug/kg	3.6	1.1	1	12/09/16 11:09	12/18/16 18:57	193-39-5	
Naphthalene	<1.7	ug/kg	1.7	0.52	1	12/09/16 11:09	12/18/16 18:57	91-20-3	
Phenanthrene	114	ug/kg	2.0	0.59	1	12/09/16 11:09	12/18/16 18:57	85-01-8	
Pyrene	105	ug/kg	4.0	1.2	1	12/09/16 11:09	12/18/16 18:57	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	73	%	41-125		1	12/09/16 11:09	12/18/16 18:57	321-60-8	
p-Terphenyl-d14 (S)	73	%	39-125		1	12/09/16 11:09	12/18/16 18:57	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1720	ug/kg	1720	515	1	12/08/16 13:15	12/13/16 00:49	67-64-1	
Allyl chloride	<224	ug/kg	224	67.4	1	12/08/16 13:15	12/13/16 00:49	107-05-1	
Benzene	<22.6	ug/kg	22.6	6.8	1	12/08/16 13:15	12/13/16 00:49	71-43-2	
Bromobenzene	<66.9	ug/kg	66.9	20.1	1	12/08/16 13:15	12/13/16 00:49	108-86-1	
Bromochloromethane	<77.9	ug/kg	77.9	23.4	1	12/08/16 13:15	12/13/16 00:49	74-97-5	
Bromodichloromethane	<73.2	ug/kg	73.2	22.0	1	12/08/16 13:15	12/13/16 00:49	75-27-4	
Bromoform	<225	ug/kg	225	67.7	1	12/08/16 13:15	12/13/16 00:49	75-25-2	
Bromomethane	<265	ug/kg	265	79.6	1	12/08/16 13:15	12/13/16 00:49	74-83-9	
2-Butanone (MEK)	<345	ug/kg	345	104	1	12/08/16 13:15	12/13/16 00:49	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-9\_25-26**      **Lab ID: 10372445015**      Collected: 12/06/16 15:20      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<63.3	ug/kg	63.3	19.0	1	12/08/16 13:15	12/13/16 00:49	104-51-8	
sec-Butylbenzene	<61.7	ug/kg	61.7	18.5	1	12/08/16 13:15	12/13/16 00:49	135-98-8	
tert-Butylbenzene	<82.6	ug/kg	82.6	24.8	1	12/08/16 13:15	12/13/16 00:49	98-06-6	
Carbon tetrachloride	<82.1	ug/kg	82.1	24.7	1	12/08/16 13:15	12/13/16 00:49	56-23-5	
Chlorobenzene	<45.5	ug/kg	45.5	13.7	1	12/08/16 13:15	12/13/16 00:49	108-90-7	
Chloroethane	<413	ug/kg	413	124	1	12/08/16 13:15	12/13/16 00:49	75-00-3	
Chloroform	<127	ug/kg	127	38.2	1	12/08/16 13:15	12/13/16 00:49	67-66-3	
Chloromethane	<127	ug/kg	127	38.0	1	12/08/16 13:15	12/13/16 00:49	74-87-3	
2-Chlorotoluene	<72.2	ug/kg	72.2	21.7	1	12/08/16 13:15	12/13/16 00:49	95-49-8	
4-Chlorotoluene	<68.5	ug/kg	68.5	20.6	1	12/08/16 13:15	12/13/16 00:49	106-43-4	
1,2-Dibromo-3-chloropropane	<153	ug/kg	153	153	1	12/08/16 13:15	12/13/16 00:49	96-12-8	
Dibromochloromethane	<224	ug/kg	224	67.4	1	12/08/16 13:15	12/13/16 00:49	124-48-1	
1,2-Dibromoethane (EDB)	<29.5	ug/kg	29.5	29.5	1	12/08/16 13:15	12/13/16 00:49	106-93-4	
Dibromomethane	<102	ug/kg	102	30.6	1	12/08/16 13:15	12/13/16 00:49	74-95-3	
1,2-Dichlorobenzene	<15.2	ug/kg	15.2	15.2	1	12/08/16 13:15	12/13/16 00:49	95-50-1	
1,3-Dichlorobenzene	<23.1	ug/kg	23.1	23.1	1	12/08/16 13:15	12/13/16 00:49	541-73-1	L2
1,4-Dichlorobenzene	<75.8	ug/kg	75.8	22.8	1	12/08/16 13:15	12/13/16 00:49	106-46-7	
Dichlorodifluoromethane	<80.0	ug/kg	80.0	24.0	1	12/08/16 13:15	12/13/16 00:49	75-71-8	
1,1-Dichloroethane	<30.5	ug/kg	30.5	30.5	1	12/08/16 13:15	12/13/16 00:49	75-34-3	
1,2-Dichloroethane	<24.8	ug/kg	24.8	24.8	1	12/08/16 13:15	12/13/16 00:49	107-06-2	
1,1-Dichloroethene	<19.9	ug/kg	19.9	19.9	1	12/08/16 13:15	12/13/16 00:49	75-35-4	
cis-1,2-Dichloroethene	<97.3	ug/kg	97.3	29.2	1	12/08/16 13:15	12/13/16 00:49	156-59-2	
trans-1,2-Dichloroethene	<126	ug/kg	126	37.9	1	12/08/16 13:15	12/13/16 00:49	156-60-5	
Dichlorofluoromethane	<717	ug/kg	717	215	1	12/08/16 13:15	12/13/16 00:49	75-43-4	
1,2-Dichloropropane	<27.2	ug/kg	27.2	27.2	1	12/08/16 13:15	12/13/16 00:49	78-87-5	
1,3-Dichloropropane	<93.6	ug/kg	93.6	28.1	1	12/08/16 13:15	12/13/16 00:49	142-28-9	
2,2-Dichloropropane	<83.2	ug/kg	83.2	25.0	1	12/08/16 13:15	12/13/16 00:49	594-20-7	
1,1-Dichloropropene	<23.7	ug/kg	23.7	23.7	1	12/08/16 13:15	12/13/16 00:49	563-58-6	
cis-1,3-Dichloropropene	<119	ug/kg	119	35.8	1	12/08/16 13:15	12/13/16 00:49	10061-01-5	
trans-1,3-Dichloropropene	<88.9	ug/kg	88.9	26.7	1	12/08/16 13:15	12/13/16 00:49	10061-02-6	
Diethyl ether (Ethyl ether)	<108	ug/kg	108	32.4	1	12/08/16 13:15	12/13/16 00:49	60-29-7	
Ethylbenzene	<83.2	ug/kg	83.2	25.0	1	12/08/16 13:15	12/13/16 00:49	100-41-4	
Hexachloro-1,3-butadiene	<246	ug/kg	246	73.8	1	12/08/16 13:15	12/13/16 00:49	87-68-3	
Isopropylbenzene (Cumene)	<93.1	ug/kg	93.1	28.0	1	12/08/16 13:15	12/13/16 00:49	98-82-8	
p-Isopropyltoluene	<43.4	ug/kg	43.4	13.0	1	12/08/16 13:15	12/13/16 00:49	99-87-6	
Methylene Chloride	<484	ug/kg	484	145	1	12/08/16 13:15	12/13/16 00:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	<173	ug/kg	173	52.0	1	12/08/16 13:15	12/13/16 00:49	108-10-1	
Methyl-tert-butyl ether	<49.0	ug/kg	49.0	14.7	1	12/08/16 13:15	12/13/16 00:49	1634-04-4	
Naphthalene	<63.3	ug/kg	63.3	19.0	1	12/08/16 13:15	12/13/16 00:49	91-20-3	
n-Propylbenzene	<77.9	ug/kg	77.9	23.4	1	12/08/16 13:15	12/13/16 00:49	103-65-1	
Styrene	<68.0	ug/kg	68.0	20.4	1	12/08/16 13:15	12/13/16 00:49	100-42-5	
1,1,1,2-Tetrachloroethane	<31.1	ug/kg	31.1	31.1	1	12/08/16 13:15	12/13/16 00:49	630-20-6	
1,1,2,2-Tetrachloroethane	<17.4	ug/kg	17.4	17.4	1	12/08/16 13:15	12/13/16 00:49	79-34-5	
Tetrachloroethene	<99.9	ug/kg	99.9	30.0	1	12/08/16 13:15	12/13/16 00:49	127-18-4	
Tetrahydrofuran	<1300	ug/kg	1300	390	1	12/08/16 13:15	12/13/16 00:49	109-99-9	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-9\_25-26**      **Lab ID: 10372445015**      Collected: 12/06/16 15:20      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<83.2	ug/kg	83.2	25.0	1	12/08/16 13:15	12/13/16 00:49	108-88-3	
1,2,3-Trichlorobenzene	<22.6	ug/kg	22.6	22.6	1	12/08/16 13:15	12/13/16 00:49	87-61-6	
1,2,4-Trichlorobenzene	<24.2	ug/kg	24.2	24.2	1	12/08/16 13:15	12/13/16 00:49	120-82-1	
1,1,1-Trichloroethane	<32.8	ug/kg	32.8	32.8	1	12/08/16 13:15	12/13/16 00:49	71-55-6	
1,1,2-Trichloroethane	<17.0	ug/kg	17.0	17.0	1	12/08/16 13:15	12/13/16 00:49	79-00-5	
Trichloroethene	<74.8	ug/kg	74.8	22.5	1	12/08/16 13:15	12/13/16 00:49	79-01-6	
Trichlorofluoromethane	<263	ug/kg	263	78.8	1	12/08/16 13:15	12/13/16 00:49	75-69-4	
1,2,3-Trichloropropane	<81.4	ug/kg	81.4	81.4	1	12/08/16 13:15	12/13/16 00:49	96-18-4	
1,1,2-Trichlorotrifluoroethane	<188	ug/kg	188	56.5	1	12/08/16 13:15	12/13/16 00:49	76-13-1	
1,2,4-Trimethylbenzene	<17.3	ug/kg	17.3	17.3	1	12/08/16 13:15	12/13/16 00:49	95-63-6	
1,3,5-Trimethylbenzene	<60.1	ug/kg	60.1	18.1	1	12/08/16 13:15	12/13/16 00:49	108-67-8	
Vinyl chloride	<33.6	ug/kg	33.6	10.1	1	12/08/16 13:15	12/13/16 00:49	75-01-4	
Xylene (Total)	<209	ug/kg	209	62.8	1	12/08/16 13:15	12/13/16 00:49	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-129		1	12/08/16 13:15	12/13/16 00:49	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/08/16 13:15	12/13/16 00:49	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/08/16 13:15	12/13/16 00:49	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-10\_23.5-24**      **Lab ID: 10372445016**      Collected: 12/06/16 15:30      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	3.9	mg/kg	1.3	0.40	1	12/20/16 16:32	12/22/16 05:44	7440-38-2	
Barium	83.8	mg/kg	0.11	0.032	1	12/20/16 16:32	12/22/16 05:44	7440-39-3	
Cadmium	0.29	mg/kg	0.063	0.019	1	12/20/16 16:32	12/22/16 05:44	7440-43-9	
Chromium	20.4	mg/kg	0.69	0.21	1	12/20/16 16:32	12/22/16 05:44	7440-47-3	
Lead	29.3	mg/kg	0.66	0.20	1	12/20/16 16:32	12/22/16 05:44	7439-92-1	
Selenium	<1.9	mg/kg	1.9	0.58	1	12/20/16 16:32	12/22/16 05:44	7782-49-2	
Silver	0.58	mg/kg	0.53	0.16	1	12/20/16 16:32	12/22/16 05:44	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.63	mg/kg	0.036	0.011	1	12/16/16 12:31	12/20/16 14:36	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	56.6	%	0.10	0.10	1		12/20/16 13:14		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	65.7	ug/kg	3.0	0.90	1	12/09/16 11:09	12/18/16 21:27	83-32-9	
Acenaphthylene	33.1	ug/kg	2.1	0.62	1	12/09/16 11:09	12/18/16 21:27	208-96-8	
Anthracene	98.1	ug/kg	3.5	1.0	1	12/09/16 11:09	12/18/16 21:27	120-12-7	
Benzo(a)anthracene	271	ug/kg	3.6	1.1	1	12/09/16 11:09	12/18/16 21:27	56-55-3	
Benzo(a)pyrene	287	ug/kg	2.7	0.80	1	12/09/16 11:09	12/18/16 21:27	50-32-8	
Benzo(b)fluoranthene	333	ug/kg	4.4	1.3	1	12/09/16 11:09	12/18/16 21:27	205-99-2	
Benzo(g,h,i)perylene	180	ug/kg	3.5	1.1	1	12/09/16 11:09	12/18/16 21:27	191-24-2	
Benzo(k)fluoranthene	139	ug/kg	3.8	1.1	1	12/09/16 11:09	12/18/16 21:27	207-08-9	
Chrysene	281	ug/kg	4.2	1.3	1	12/09/16 11:09	12/18/16 21:27	218-01-9	
Dibenz(a,h)anthracene	56.7	ug/kg	2.5	0.75	1	12/09/16 11:09	12/18/16 21:27	53-70-3	
Fluoranthene	572	ug/kg	6.0	1.8	1	12/09/16 11:09	12/18/16 21:27	206-44-0	
Fluorene	62.9	ug/kg	2.9	0.88	1	12/09/16 11:09	12/18/16 21:27	86-73-7	
Indeno(1,2,3-cd)pyrene	151	ug/kg	5.7	1.7	1	12/09/16 11:09	12/18/16 21:27	193-39-5	
Naphthalene	49.0	ug/kg	2.7	0.82	1	12/09/16 11:09	12/18/16 21:27	91-20-3	
Phenanthrene	445	ug/kg	3.1	0.92	1	12/09/16 11:09	12/18/16 21:27	85-01-8	
Pyrene	480	ug/kg	6.3	1.9	1	12/09/16 11:09	12/18/16 21:27	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	62	%	41-125		1	12/09/16 11:09	12/18/16 21:27	321-60-8	
p-Terphenyl-d14 (S)	62	%	39-125		1	12/09/16 11:09	12/18/16 21:27	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1780	ug/kg	1780	534	1	12/08/16 13:15	12/13/16 01:06	67-64-1	
Allyl chloride	<233	ug/kg	233	69.9	1	12/08/16 13:15	12/13/16 01:06	107-05-1	
Benzene	<23.4	ug/kg	23.4	7.0	1	12/08/16 13:15	12/13/16 01:06	71-43-2	
Bromobenzene	<69.5	ug/kg	69.5	20.9	1	12/08/16 13:15	12/13/16 01:06	108-86-1	
Bromochloromethane	<80.9	ug/kg	80.9	24.3	1	12/08/16 13:15	12/13/16 01:06	74-97-5	
Bromodichloromethane	<76.0	ug/kg	76.0	22.8	1	12/08/16 13:15	12/13/16 01:06	75-27-4	
Bromoform	<234	ug/kg	234	70.2	1	12/08/16 13:15	12/13/16 01:06	75-25-2	
Bromomethane	<275	ug/kg	275	82.6	1	12/08/16 13:15	12/13/16 01:06	74-83-9	
2-Butanone (MEK)	<358	ug/kg	358	108	1	12/08/16 13:15	12/13/16 01:06	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-10\_23.5-24**      **Lab ID: 10372445016**      Collected: 12/06/16 15:30      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<65.7	ug/kg	65.7	19.7	1	12/08/16 13:15	12/13/16 01:06	104-51-8	
sec-Butylbenzene	<64.0	ug/kg	64.0	19.2	1	12/08/16 13:15	12/13/16 01:06	135-98-8	
tert-Butylbenzene	<85.7	ug/kg	85.7	25.7	1	12/08/16 13:15	12/13/16 01:06	98-06-6	
Carbon tetrachloride	<85.2	ug/kg	85.2	25.6	1	12/08/16 13:15	12/13/16 01:06	56-23-5	
Chlorobenzene	<47.2	ug/kg	47.2	14.2	1	12/08/16 13:15	12/13/16 01:06	108-90-7	
Chloroethane	<429	ug/kg	429	129	1	12/08/16 13:15	12/13/16 01:06	75-00-3	
Chloroform	<132	ug/kg	132	39.6	1	12/08/16 13:15	12/13/16 01:06	67-66-3	
Chloromethane	<131	ug/kg	131	39.4	1	12/08/16 13:15	12/13/16 01:06	74-87-3	
2-Chlorotoluene	<74.9	ug/kg	74.9	22.5	1	12/08/16 13:15	12/13/16 01:06	95-49-8	
4-Chlorotoluene	<71.1	ug/kg	71.1	21.3	1	12/08/16 13:15	12/13/16 01:06	106-43-4	
1,2-Dibromo-3-chloropropane	<159	ug/kg	159	159	1	12/08/16 13:15	12/13/16 01:06	96-12-8	
Dibromochloromethane	<233	ug/kg	233	69.9	1	12/08/16 13:15	12/13/16 01:06	124-48-1	
1,2-Dibromoethane (EDB)	<30.6	ug/kg	30.6	30.6	1	12/08/16 13:15	12/13/16 01:06	106-93-4	
Dibromomethane	<106	ug/kg	106	31.8	1	12/08/16 13:15	12/13/16 01:06	74-95-3	
1,2-Dichlorobenzene	<15.7	ug/kg	15.7	15.7	1	12/08/16 13:15	12/13/16 01:06	95-50-1	
1,3-Dichlorobenzene	<24.0	ug/kg	24.0	24.0	1	12/08/16 13:15	12/13/16 01:06	541-73-1	L2
1,4-Dichlorobenzene	<78.7	ug/kg	78.7	23.6	1	12/08/16 13:15	12/13/16 01:06	106-46-7	
Dichlorodifluoromethane	<83.0	ug/kg	83.0	24.9	1	12/08/16 13:15	12/13/16 01:06	75-71-8	
1,1-Dichloroethane	<31.6	ug/kg	31.6	31.6	1	12/08/16 13:15	12/13/16 01:06	75-34-3	
1,2-Dichloroethane	<25.7	ug/kg	25.7	25.7	1	12/08/16 13:15	12/13/16 01:06	107-06-2	
1,1-Dichloroethene	<20.7	ug/kg	20.7	20.7	1	12/08/16 13:15	12/13/16 01:06	75-35-4	
cis-1,2-Dichloroethene	<101	ug/kg	101	30.3	1	12/08/16 13:15	12/13/16 01:06	156-59-2	
trans-1,2-Dichloroethene	<131	ug/kg	131	39.3	1	12/08/16 13:15	12/13/16 01:06	156-60-5	
Dichlorofluoromethane	<743	ug/kg	743	223	1	12/08/16 13:15	12/13/16 01:06	75-43-4	
1,2-Dichloropropane	<28.2	ug/kg	28.2	28.2	1	12/08/16 13:15	12/13/16 01:06	78-87-5	
1,3-Dichloropropane	<97.1	ug/kg	97.1	29.2	1	12/08/16 13:15	12/13/16 01:06	142-28-9	
2,2-Dichloropropane	<86.3	ug/kg	86.3	25.9	1	12/08/16 13:15	12/13/16 01:06	594-20-7	
1,1-Dichloropropene	<24.6	ug/kg	24.6	24.6	1	12/08/16 13:15	12/13/16 01:06	563-58-6	
cis-1,3-Dichloropropene	<124	ug/kg	124	37.2	1	12/08/16 13:15	12/13/16 01:06	10061-01-5	
trans-1,3-Dichloropropene	<92.2	ug/kg	92.2	27.7	1	12/08/16 13:15	12/13/16 01:06	10061-02-6	
Diethyl ether (Ethyl ether)	<112	ug/kg	112	33.6	1	12/08/16 13:15	12/13/16 01:06	60-29-7	
Ethylbenzene	<86.3	ug/kg	86.3	25.9	1	12/08/16 13:15	12/13/16 01:06	100-41-4	
Hexachloro-1,3-butadiene	<255	ug/kg	255	76.6	1	12/08/16 13:15	12/13/16 01:06	87-68-3	
Isopropylbenzene (Cumene)	<96.6	ug/kg	96.6	29.0	1	12/08/16 13:15	12/13/16 01:06	98-82-8	
p-Isopropyltoluene	<45.0	ug/kg	45.0	13.5	1	12/08/16 13:15	12/13/16 01:06	99-87-6	
Methylene Chloride	<502	ug/kg	502	151	1	12/08/16 13:15	12/13/16 01:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	<180	ug/kg	180	53.9	1	12/08/16 13:15	12/13/16 01:06	108-10-1	
Methyl-tert-butyl ether	<50.8	ug/kg	50.8	15.3	1	12/08/16 13:15	12/13/16 01:06	1634-04-4	
Naphthalene	<65.7	ug/kg	65.7	19.7	1	12/08/16 13:15	12/13/16 01:06	91-20-3	
n-Propylbenzene	<80.9	ug/kg	80.9	24.3	1	12/08/16 13:15	12/13/16 01:06	103-65-1	
Styrene	<70.5	ug/kg	70.5	21.2	1	12/08/16 13:15	12/13/16 01:06	100-42-5	
1,1,1,2-Tetrachloroethane	<32.3	ug/kg	32.3	32.3	1	12/08/16 13:15	12/13/16 01:06	630-20-6	
1,1,2,2-Tetrachloroethane	<18.1	ug/kg	18.1	18.1	1	12/08/16 13:15	12/13/16 01:06	79-34-5	
Tetrachloroethene	<104	ug/kg	104	31.1	1	12/08/16 13:15	12/13/16 01:06	127-18-4	
Tetrahydrofuran	<1350	ug/kg	1350	404	1	12/08/16 13:15	12/13/16 01:06	109-99-9	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-10\_23.5-24**      **Lab ID: 10372445016**      Collected: 12/06/16 15:30      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<86.3	ug/kg	86.3	25.9	1	12/08/16 13:15	12/13/16 01:06	108-88-3	
1,2,3-Trichlorobenzene	<23.5	ug/kg	23.5	23.5	1	12/08/16 13:15	12/13/16 01:06	87-61-6	
1,2,4-Trichlorobenzene	<25.1	ug/kg	25.1	25.1	1	12/08/16 13:15	12/13/16 01:06	120-82-1	
1,1,1-Trichloroethane	<34.1	ug/kg	34.1	34.1	1	12/08/16 13:15	12/13/16 01:06	71-55-6	
1,1,2-Trichloroethane	<17.6	ug/kg	17.6	17.6	1	12/08/16 13:15	12/13/16 01:06	79-00-5	
Trichloroethene	<77.6	ug/kg	77.6	23.3	1	12/08/16 13:15	12/13/16 01:06	79-01-6	
Trichlorofluoromethane	<272	ug/kg	272	81.8	1	12/08/16 13:15	12/13/16 01:06	75-69-4	
1,2,3-Trichloropropane	<84.4	ug/kg	84.4	84.4	1	12/08/16 13:15	12/13/16 01:06	96-18-4	
1,1,2-Trichlorotrifluoroethane	<195	ug/kg	195	58.7	1	12/08/16 13:15	12/13/16 01:06	76-13-1	
1,2,4-Trimethylbenzene	<17.9	ug/kg	17.9	17.9	1	12/08/16 13:15	12/13/16 01:06	95-63-6	
1,3,5-Trimethylbenzene	<62.4	ug/kg	62.4	18.7	1	12/08/16 13:15	12/13/16 01:06	108-67-8	
Vinyl chloride	<34.8	ug/kg	34.8	10.5	1	12/08/16 13:15	12/13/16 01:06	75-01-4	
Xylene (Total)	<217	ug/kg	217	65.2	1	12/08/16 13:15	12/13/16 01:06	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-129		1	12/08/16 13:15	12/13/16 01:06	17060-07-0	1M
Toluene-d8 (S)	101	%	75-125		1	12/08/16 13:15	12/13/16 01:06	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	12/08/16 13:15	12/13/16 01:06	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-10\_24-25**      **Lab ID: 10372445017**      Collected: 12/06/16 16:00      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	3.4	mg/kg	0.65	0.20	1	12/20/16 16:32	12/22/16 05:47	7440-38-2	
Barium	89.6	mg/kg	0.052	0.016	1	12/20/16 16:32	12/22/16 05:47	7440-39-3	
Cadmium	0.68	mg/kg	0.031	0.0093	1	12/20/16 16:32	12/22/16 05:47	7440-43-9	
Chromium	14.8	mg/kg	0.34	0.10	1	12/20/16 16:32	12/22/16 05:47	7440-47-3	
Lead	76.2	mg/kg	0.33	0.098	1	12/20/16 16:32	12/22/16 05:47	7439-92-1	
Selenium	<0.95	mg/kg	0.95	0.28	1	12/20/16 16:32	12/22/16 05:47	7782-49-2	
Silver	2.3	mg/kg	0.26	0.078	1	12/20/16 16:32	12/22/16 05:47	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.49	mg/kg	0.025	0.0076	1	12/16/16 12:31	12/20/16 14:39	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	31.5	%	0.10	0.10	1		12/20/16 13:15		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	326	ug/kg	1.9	0.57	1	12/09/16 11:09	12/19/16 00:40	83-32-9	
Acenaphthylene	91.1	ug/kg	1.3	0.40	1	12/09/16 11:09	12/19/16 00:40	208-96-8	
Anthracene	314	ug/kg	2.2	0.66	1	12/09/16 11:09	12/19/16 00:40	120-12-7	
Benzo(a)anthracene	788	ug/kg	22.7	6.8	10	12/09/16 11:09	12/19/16 01:19	56-55-3	
Benzo(a)pyrene	753	ug/kg	16.8	5.1	10	12/09/16 11:09	12/20/16 01:19	50-32-8	
Benzo(b)fluoranthene	887	ug/kg	27.8	8.3	10	12/09/16 11:09	12/20/16 01:19	205-99-2	
Benzo(g,h,i)perylene	395	ug/kg	2.2	0.67	1	12/09/16 11:09	12/19/16 00:40	191-24-2	
Benzo(k)fluoranthene	270	ug/kg	2.4	0.72	1	12/09/16 11:09	12/19/16 00:40	207-08-9	
Chrysene	812	ug/kg	26.9	8.1	10	12/09/16 11:09	12/20/16 01:19	218-01-9	
Dibenz(a,h)anthracene	129	ug/kg	1.6	0.48	1	12/09/16 11:09	12/19/16 00:40	53-70-3	
Fluoranthene	1770	ug/kg	38.0	11.4	10	12/09/16 11:09	12/20/16 01:19	206-44-0	
Fluorene	229	ug/kg	1.9	0.56	1	12/09/16 11:09	12/19/16 00:40	86-73-7	
Indeno(1,2,3-cd)pyrene	328	ug/kg	3.6	1.1	1	12/09/16 11:09	12/19/16 00:40	193-39-5	
Naphthalene	150	ug/kg	1.7	0.52	1	12/09/16 11:09	12/19/16 00:40	91-20-3	
Phenanthrene	1650	ug/kg	19.5	5.9	10	12/09/16 11:09	12/20/16 01:19	85-01-8	
Pyrene	1510	ug/kg	40.2	12.1	10	12/09/16 11:09	12/20/16 01:19	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	76	%	41-125		1	12/09/16 11:09	12/19/16 00:40	321-60-8	
p-Terphenyl-d14 (S)	68	%	39-125		1	12/09/16 11:09	12/19/16 00:40	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1910	ug/kg	1910	574	1	12/08/16 13:15	12/13/16 01:23	67-64-1	
Allyl chloride	<250	ug/kg	250	75.0	1	12/08/16 13:15	12/13/16 01:23	107-05-1	
Benzene	97.6	ug/kg	25.2	7.6	1	12/08/16 13:15	12/13/16 01:23	71-43-2	
Bromobenzene	<74.6	ug/kg	74.6	22.4	1	12/08/16 13:15	12/13/16 01:23	108-86-1	
Bromochloromethane	<86.8	ug/kg	86.8	26.1	1	12/08/16 13:15	12/13/16 01:23	74-97-5	
Bromodichloromethane	<81.5	ug/kg	81.5	24.5	1	12/08/16 13:15	12/13/16 01:23	75-27-4	
Bromoform	<251	ug/kg	251	75.4	1	12/08/16 13:15	12/13/16 01:23	75-25-2	
Bromomethane	<295	ug/kg	295	88.7	1	12/08/16 13:15	12/13/16 01:23	74-83-9	
2-Butanone (MEK)	<384	ug/kg	384	115	1	12/08/16 13:15	12/13/16 01:23	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-10\_24-25**      **Lab ID: 10372445017**      Collected: 12/06/16 16:00      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<70.5	ug/kg	70.5	21.2	1	12/08/16 13:15	12/13/16 01:23	104-51-8	
sec-Butylbenzene	<68.7	ug/kg	68.7	20.6	1	12/08/16 13:15	12/13/16 01:23	135-98-8	
tert-Butylbenzene	<92.0	ug/kg	92.0	27.6	1	12/08/16 13:15	12/13/16 01:23	98-06-6	
Carbon tetrachloride	<91.4	ug/kg	91.4	27.5	1	12/08/16 13:15	12/13/16 01:23	56-23-5	
Chlorobenzene	<50.7	ug/kg	50.7	15.2	1	12/08/16 13:15	12/13/16 01:23	108-90-7	
Chloroethane	<460	ug/kg	460	138	1	12/08/16 13:15	12/13/16 01:23	75-00-3	
Chloroform	<142	ug/kg	142	42.5	1	12/08/16 13:15	12/13/16 01:23	67-66-3	
Chloromethane	<141	ug/kg	141	42.3	1	12/08/16 13:15	12/13/16 01:23	74-87-3	
2-Chlorotoluene	<80.4	ug/kg	80.4	24.1	1	12/08/16 13:15	12/13/16 01:23	95-49-8	
4-Chlorotoluene	<76.3	ug/kg	76.3	22.9	1	12/08/16 13:15	12/13/16 01:23	106-43-4	
1,2-Dibromo-3-chloropropane	<171	ug/kg	171	171	1	12/08/16 13:15	12/13/16 01:23	96-12-8	
Dibromochloromethane	<250	ug/kg	250	75.0	1	12/08/16 13:15	12/13/16 01:23	124-48-1	
1,2-Dibromoethane (EDB)	<32.9	ug/kg	32.9	32.9	1	12/08/16 13:15	12/13/16 01:23	106-93-4	
Dibromomethane	<114	ug/kg	114	34.1	1	12/08/16 13:15	12/13/16 01:23	74-95-3	
1,2-Dichlorobenzene	<16.9	ug/kg	16.9	16.9	1	12/08/16 13:15	12/13/16 01:23	95-50-1	
1,3-Dichlorobenzene	<25.7	ug/kg	25.7	25.7	1	12/08/16 13:15	12/13/16 01:23	541-73-1	L2
1,4-Dichlorobenzene	<84.5	ug/kg	84.5	25.4	1	12/08/16 13:15	12/13/16 01:23	106-46-7	
Dichlorodifluoromethane	<89.1	ug/kg	89.1	26.8	1	12/08/16 13:15	12/13/16 01:23	75-71-8	
1,1-Dichloroethane	<33.9	ug/kg	33.9	33.9	1	12/08/16 13:15	12/13/16 01:23	75-34-3	
1,2-Dichloroethane	<27.6	ug/kg	27.6	27.6	1	12/08/16 13:15	12/13/16 01:23	107-06-2	
1,1-Dichloroethene	<22.2	ug/kg	22.2	22.2	1	12/08/16 13:15	12/13/16 01:23	75-35-4	
cis-1,2-Dichloroethene	<108	ug/kg	108	32.5	1	12/08/16 13:15	12/13/16 01:23	156-59-2	
trans-1,2-Dichloroethene	<140	ug/kg	140	42.2	1	12/08/16 13:15	12/13/16 01:23	156-60-5	
Dichlorofluoromethane	<798	ug/kg	798	240	1	12/08/16 13:15	12/13/16 01:23	75-43-4	
1,2-Dichloropropane	<30.3	ug/kg	30.3	30.3	1	12/08/16 13:15	12/13/16 01:23	78-87-5	
1,3-Dichloropropane	<104	ug/kg	104	31.3	1	12/08/16 13:15	12/13/16 01:23	142-28-9	
2,2-Dichloropropane	<92.6	ug/kg	92.6	27.8	1	12/08/16 13:15	12/13/16 01:23	594-20-7	
1,1-Dichloropropene	<26.4	ug/kg	26.4	26.4	1	12/08/16 13:15	12/13/16 01:23	563-58-6	
cis-1,3-Dichloropropene	<133	ug/kg	133	39.9	1	12/08/16 13:15	12/13/16 01:23	10061-01-5	
trans-1,3-Dichloropropene	<99.0	ug/kg	99.0	29.7	1	12/08/16 13:15	12/13/16 01:23	10061-02-6	
Diethyl ether (Ethyl ether)	<120	ug/kg	120	36.0	1	12/08/16 13:15	12/13/16 01:23	60-29-7	
Ethylbenzene	<92.6	ug/kg	92.6	27.8	1	12/08/16 13:15	12/13/16 01:23	100-41-4	
Hexachloro-1,3-butadiene	<274	ug/kg	274	82.2	1	12/08/16 13:15	12/13/16 01:23	87-68-3	
Isopropylbenzene (Cumene)	<104	ug/kg	104	31.1	1	12/08/16 13:15	12/13/16 01:23	98-82-8	
p-Isopropyltoluene	<48.3	ug/kg	48.3	14.5	1	12/08/16 13:15	12/13/16 01:23	99-87-6	
Methylene Chloride	<539	ug/kg	539	162	1	12/08/16 13:15	12/13/16 01:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	<193	ug/kg	193	57.9	1	12/08/16 13:15	12/13/16 01:23	108-10-1	
Methyl-tert-butyl ether	<54.5	ug/kg	54.5	16.4	1	12/08/16 13:15	12/13/16 01:23	1634-04-4	
Naphthalene	258	ug/kg	70.5	21.2	1	12/08/16 13:15	12/13/16 01:23	91-20-3	
n-Propylbenzene	<86.8	ug/kg	86.8	26.1	1	12/08/16 13:15	12/13/16 01:23	103-65-1	
Styrene	<75.7	ug/kg	75.7	22.7	1	12/08/16 13:15	12/13/16 01:23	100-42-5	
1,1,1,2-Tetrachloroethane	<34.6	ug/kg	34.6	34.6	1	12/08/16 13:15	12/13/16 01:23	630-20-6	
1,1,2,2-Tetrachloroethane	<19.4	ug/kg	19.4	19.4	1	12/08/16 13:15	12/13/16 01:23	79-34-5	
Tetrachloroethene	<111	ug/kg	111	33.4	1	12/08/16 13:15	12/13/16 01:23	127-18-4	
Tetrahydrofuran	<1440	ug/kg	1440	434	1	12/08/16 13:15	12/13/16 01:23	109-99-9	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S-10\_24-25**      **Lab ID: 10372445017**      Collected: 12/06/16 16:00      Received: 12/07/16 18:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<b>386</b>	ug/kg	92.6	27.8	1	12/08/16 13:15	12/13/16 01:23	108-88-3	
1,2,3-Trichlorobenzene	<b>&lt;25.2</b>	ug/kg	25.2	25.2	1	12/08/16 13:15	12/13/16 01:23	87-61-6	
1,2,4-Trichlorobenzene	<b>&lt;26.9</b>	ug/kg	26.9	26.9	1	12/08/16 13:15	12/13/16 01:23	120-82-1	
1,1,1-Trichloroethane	<b>&lt;36.6</b>	ug/kg	36.6	36.6	1	12/08/16 13:15	12/13/16 01:23	71-55-6	
1,1,2-Trichloroethane	<b>&lt;18.9</b>	ug/kg	18.9	18.9	1	12/08/16 13:15	12/13/16 01:23	79-00-5	
Trichloroethene	<b>&lt;83.3</b>	ug/kg	83.3	25.0	1	12/08/16 13:15	12/13/16 01:23	79-01-6	
Trichlorofluoromethane	<b>&lt;292</b>	ug/kg	292	87.8	1	12/08/16 13:15	12/13/16 01:23	75-69-4	
1,2,3-Trichloropropane	<b>&lt;90.6</b>	ug/kg	90.6	90.6	1	12/08/16 13:15	12/13/16 01:23	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;210</b>	ug/kg	210	63.0	1	12/08/16 13:15	12/13/16 01:23	76-13-1	
1,2,4-Trimethylbenzene	<b>182</b>	ug/kg	19.2	19.2	1	12/08/16 13:15	12/13/16 01:23	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;67.0</b>	ug/kg	67.0	20.1	1	12/08/16 13:15	12/13/16 01:23	108-67-8	
Vinyl chloride	<b>&lt;37.4</b>	ug/kg	37.4	11.2	1	12/08/16 13:15	12/13/16 01:23	75-01-4	
Xylene (Total)	<b>&lt;233</b>	ug/kg	233	70.0	1	12/08/16 13:15	12/13/16 01:23	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-129		1	12/08/16 13:15	12/13/16 01:23	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/08/16 13:15	12/13/16 01:23	2037-26-5	
4-Bromofluorobenzene (S)	111	%	75-125		1	12/08/16 13:15	12/13/16 01:23	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S7\_23.5-26 DUP**      **Lab ID: 10372445018**      Collected: 12/06/16 13:30      Received: 12/08/16 09:22      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	5.5	mg/kg	1.3	0.38	1	12/16/16 07:04	12/19/16 07:11	7440-38-2	
Barium	143	mg/kg	0.10	0.030	1	12/16/16 07:04	12/19/16 07:11	7440-39-3	
Cadmium	1.2	mg/kg	0.059	0.018	1	12/16/16 07:04	12/19/16 07:11	7440-43-9	
Chromium	34.2	mg/kg	0.65	0.20	1	12/16/16 07:04	12/19/16 07:11	7440-47-3	
Lead	145	mg/kg	0.63	0.19	1	12/16/16 07:04	12/19/16 07:11	7439-92-1	
Selenium	<1.8	mg/kg	1.8	0.54	1	12/16/16 07:04	12/19/16 07:11	7782-49-2	
Silver	2.9	mg/kg	0.50	0.15	1	12/16/16 07:04	12/19/16 07:11	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	3.6	mg/kg	0.14	0.043	5	12/16/16 07:05	12/18/16 19:21	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	46.7	%	0.10	0.10	1		12/20/16 14:35		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	273	ug/kg	2.4	0.73	1	12/09/16 11:09	12/19/16 01:02	83-32-9	
Acenaphthylene	159	ug/kg	1.7	0.51	1	12/09/16 11:09	12/19/16 01:02	208-96-8	
Anthracene	324	ug/kg	2.8	0.85	1	12/09/16 11:09	12/19/16 01:02	120-12-7	
Benzo(a)anthracene	1040	ug/kg	29.3	8.8	10	12/09/16 11:09	12/20/16 01:41	56-55-3	
Benzo(a)pyrene	1030	ug/kg	21.7	6.5	10	12/09/16 11:09	12/20/16 01:41	50-32-8	
Benzo(b)fluoranthene	1130	ug/kg	35.8	10.7	10	12/09/16 11:09	12/20/16 01:41	205-99-2	
Benzo(g,h,i)perylene	583	ug/kg	2.9	0.86	1	12/09/16 11:09	12/19/16 01:02	191-24-2	
Benzo(k)fluoranthene	392	ug/kg	3.1	0.92	1	12/09/16 11:09	12/19/16 01:02	207-08-9	
Chrysene	929	ug/kg	34.6	10.4	10	12/09/16 11:09	12/20/16 01:41	218-01-9	
Dibenz(a,h)anthracene	138	ug/kg	2.0	0.61	1	12/09/16 11:09	12/19/16 01:02	53-70-3	
Fluoranthene	2020	ug/kg	48.9	14.7	10	12/09/16 11:09	12/20/16 01:41	206-44-0	
Fluorene	151	ug/kg	2.4	0.72	1	12/09/16 11:09	12/19/16 01:02	86-73-7	
Indeno(1,2,3-cd)pyrene	463	ug/kg	4.7	1.4	1	12/09/16 11:09	12/19/16 01:02	193-39-5	
Naphthalene	185	ug/kg	2.2	0.67	1	12/09/16 11:09	12/19/16 01:02	91-20-3	
Phenanthrene	1030	ug/kg	25.1	7.6	10	12/09/16 11:09	12/20/16 01:41	85-01-8	
Pyrene	1910	ug/kg	51.7	15.5	10	12/09/16 11:09	12/20/16 01:41	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	71	%	41-125		1	12/09/16 11:09	12/19/16 01:02	321-60-8	
p-Terphenyl-d14 (S)	65	%	39-125		1	12/09/16 11:09	12/19/16 01:02	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<2390	ug/kg	2390	717	1	12/08/16 13:15	12/13/16 01:41	67-64-1	
Allyl chloride	<312	ug/kg	312	93.7	1	12/08/16 13:15	12/13/16 01:41	107-05-1	
Benzene	71.2	ug/kg	31.4	9.4	1	12/08/16 13:15	12/13/16 01:41	71-43-2	
Bromobenzene	<93.1	ug/kg	93.1	28.0	1	12/08/16 13:15	12/13/16 01:41	108-86-1	
Bromochloromethane	<108	ug/kg	108	32.6	1	12/08/16 13:15	12/13/16 01:41	74-97-5	
Bromodichloromethane	<102	ug/kg	102	30.6	1	12/08/16 13:15	12/13/16 01:41	75-27-4	
Bromoform	<314	ug/kg	314	94.2	1	12/08/16 13:15	12/13/16 01:41	75-25-2	
Bromomethane	<369	ug/kg	369	111	1	12/08/16 13:15	12/13/16 01:41	74-83-9	
2-Butanone (MEK)	<480	ug/kg	480	144	1	12/08/16 13:15	12/13/16 01:41	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S7\_23.5-26 DUP**      **Lab ID: 10372445018**      Collected: 12/06/16 13:30      Received: 12/08/16 09:22      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<88.0	ug/kg	88.0	26.4	1	12/08/16 13:15	12/13/16 01:41	104-51-8	
sec-Butylbenzene	<85.9	ug/kg	85.9	25.8	1	12/08/16 13:15	12/13/16 01:41	135-98-8	
tert-Butylbenzene	<115	ug/kg	115	34.5	1	12/08/16 13:15	12/13/16 01:41	98-06-6	
Carbon tetrachloride	<114	ug/kg	114	34.3	1	12/08/16 13:15	12/13/16 01:41	56-23-5	
Chlorobenzene	<63.3	ug/kg	63.3	19.0	1	12/08/16 13:15	12/13/16 01:41	108-90-7	
Chloroethane	<575	ug/kg	575	173	1	12/08/16 13:15	12/13/16 01:41	75-00-3	
Chloroform	<177	ug/kg	177	53.1	1	12/08/16 13:15	12/13/16 01:41	67-66-3	
Chloromethane	<176	ug/kg	176	52.9	1	12/08/16 13:15	12/13/16 01:41	74-87-3	
2-Chlorotoluene	<100	ug/kg	100	30.2	1	12/08/16 13:15	12/13/16 01:41	95-49-8	
4-Chlorotoluene	<95.3	ug/kg	95.3	28.6	1	12/08/16 13:15	12/13/16 01:41	106-43-4	
1,2-Dibromo-3-chloropropane	<213	ug/kg	213	213	1	12/08/16 13:15	12/13/16 01:41	96-12-8	
Dibromochloromethane	<312	ug/kg	312	93.7	1	12/08/16 13:15	12/13/16 01:41	124-48-1	
1,2-Dibromoethane (EDB)	<41.1	ug/kg	41.1	41.1	1	12/08/16 13:15	12/13/16 01:41	106-93-4	
Dibromomethane	<142	ug/kg	142	42.6	1	12/08/16 13:15	12/13/16 01:41	74-95-3	
1,2-Dichlorobenzene	<21.1	ug/kg	21.1	21.1	1	12/08/16 13:15	12/13/16 01:41	95-50-1	
1,3-Dichlorobenzene	<32.1	ug/kg	32.1	32.1	1	12/08/16 13:15	12/13/16 01:41	541-73-1	L2
1,4-Dichlorobenzene	<106	ug/kg	106	31.7	1	12/08/16 13:15	12/13/16 01:41	106-46-7	
Dichlorodifluoromethane	<111	ug/kg	111	33.4	1	12/08/16 13:15	12/13/16 01:41	75-71-8	
1,1-Dichloroethane	<42.4	ug/kg	42.4	42.4	1	12/08/16 13:15	12/13/16 01:41	75-34-3	
1,2-Dichloroethane	<34.5	ug/kg	34.5	34.5	1	12/08/16 13:15	12/13/16 01:41	107-06-2	
1,1-Dichloroethene	<27.8	ug/kg	27.8	27.8	1	12/08/16 13:15	12/13/16 01:41	75-35-4	
cis-1,2-Dichloroethene	<135	ug/kg	135	40.6	1	12/08/16 13:15	12/13/16 01:41	156-59-2	
trans-1,2-Dichloroethene	<175	ug/kg	175	52.7	1	12/08/16 13:15	12/13/16 01:41	156-60-5	
Dichlorofluoromethane	<997	ug/kg	997	299	1	12/08/16 13:15	12/13/16 01:41	75-43-4	
1,2-Dichloropropane	<37.8	ug/kg	37.8	37.8	1	12/08/16 13:15	12/13/16 01:41	78-87-5	
1,3-Dichloropropane	<130	ug/kg	130	39.1	1	12/08/16 13:15	12/13/16 01:41	142-28-9	
2,2-Dichloropropane	<116	ug/kg	116	34.7	1	12/08/16 13:15	12/13/16 01:41	594-20-7	
1,1-Dichloropropene	<33.0	ug/kg	33.0	33.0	1	12/08/16 13:15	12/13/16 01:41	563-58-6	
cis-1,3-Dichloropropene	<166	ug/kg	166	49.8	1	12/08/16 13:15	12/13/16 01:41	10061-01-5	
trans-1,3-Dichloropropene	<124	ug/kg	124	37.1	1	12/08/16 13:15	12/13/16 01:41	10061-02-6	
Diethyl ether (Ethyl ether)	<150	ug/kg	150	45.0	1	12/08/16 13:15	12/13/16 01:41	60-29-7	
Ethylbenzene	<116	ug/kg	116	34.7	1	12/08/16 13:15	12/13/16 01:41	100-41-4	
Hexachloro-1,3-butadiene	<342	ug/kg	342	103	1	12/08/16 13:15	12/13/16 01:41	87-68-3	
Isopropylbenzene (Cumene)	<130	ug/kg	130	38.9	1	12/08/16 13:15	12/13/16 01:41	98-82-8	
p-Isopropyltoluene	<60.4	ug/kg	60.4	18.1	1	12/08/16 13:15	12/13/16 01:41	99-87-6	
Methylene Chloride	<674	ug/kg	674	202	1	12/08/16 13:15	12/13/16 01:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	<241	ug/kg	241	72.3	1	12/08/16 13:15	12/13/16 01:41	108-10-1	
Methyl-tert-butyl ether	<68.1	ug/kg	68.1	20.5	1	12/08/16 13:15	12/13/16 01:41	1634-04-4	
Naphthalene	346	ug/kg	88.0	26.4	1	12/08/16 13:15	12/13/16 01:41	91-20-3	
n-Propylbenzene	<108	ug/kg	108	32.6	1	12/08/16 13:15	12/13/16 01:41	103-65-1	
Styrene	<94.6	ug/kg	94.6	28.4	1	12/08/16 13:15	12/13/16 01:41	100-42-5	
1,1,1,2-Tetrachloroethane	<43.3	ug/kg	43.3	43.3	1	12/08/16 13:15	12/13/16 01:41	630-20-6	
1,1,2,2-Tetrachloroethane	<24.3	ug/kg	24.3	24.3	1	12/08/16 13:15	12/13/16 01:41	79-34-5	
Tetrachloroethene	<139	ug/kg	139	41.7	1	12/08/16 13:15	12/13/16 01:41	127-18-4	
Tetrahydrofuran	<1800	ug/kg	1800	542	1	12/08/16 13:15	12/13/16 01:41	109-99-9	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S7\_23.5-26 DUP**      **Lab ID: 10372445018**      Collected: 12/06/16 13:30      Received: 12/08/16 09:22      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<b>396</b>	ug/kg	116	34.7	1	12/08/16 13:15	12/13/16 01:41	108-88-3	
1,2,3-Trichlorobenzene	<b>&lt;31.5</b>	ug/kg	31.5	31.5	1	12/08/16 13:15	12/13/16 01:41	87-61-6	
1,2,4-Trichlorobenzene	<b>&lt;33.7</b>	ug/kg	33.7	33.7	1	12/08/16 13:15	12/13/16 01:41	120-82-1	
1,1,1-Trichloroethane	<b>&lt;45.7</b>	ug/kg	45.7	45.7	1	12/08/16 13:15	12/13/16 01:41	71-55-6	
1,1,2-Trichloroethane	<b>&lt;23.6</b>	ug/kg	23.6	23.6	1	12/08/16 13:15	12/13/16 01:41	79-00-5	
Trichloroethene	<b>&lt;104</b>	ug/kg	104	31.2	1	12/08/16 13:15	12/13/16 01:41	79-01-6	
Trichlorofluoromethane	<b>&lt;365</b>	ug/kg	365	110	1	12/08/16 13:15	12/13/16 01:41	75-69-4	
1,2,3-Trichloropropane	<b>&lt;113</b>	ug/kg	113	113	1	12/08/16 13:15	12/13/16 01:41	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;262</b>	ug/kg	262	78.7	1	12/08/16 13:15	12/13/16 01:41	76-13-1	
1,2,4-Trimethylbenzene	<b>70.6</b>	ug/kg	24.0	24.0	1	12/08/16 13:15	12/13/16 01:41	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;83.7</b>	ug/kg	83.7	25.1	1	12/08/16 13:15	12/13/16 01:41	108-67-8	
Vinyl chloride	<b>&lt;46.7</b>	ug/kg	46.7	14.0	1	12/08/16 13:15	12/13/16 01:41	75-01-4	
Xylene (Total)	<b>&lt;291</b>	ug/kg	291	87.4	1	12/08/16 13:15	12/13/16 01:41	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-129		1	12/08/16 13:15	12/13/16 01:41	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/08/16 13:15	12/13/16 01:41	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/08/16 13:15	12/13/16 01:41	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S8\_23.5-24 DUP**      **Lab ID: 10372445019**      Collected: 12/06/16 14:00      Received: 12/08/16 09:22      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	5.8	mg/kg	1.5	0.45	1	12/16/16 07:04	12/19/16 07:15	7440-38-2	
Barium	115	mg/kg	0.12	0.036	1	12/16/16 07:04	12/19/16 07:15	7440-39-3	
Cadmium	0.42	mg/kg	0.071	0.021	1	12/16/16 07:04	12/19/16 07:15	7440-43-9	
Chromium	33.6	mg/kg	0.78	0.23	1	12/16/16 07:04	12/19/16 07:15	7440-47-3	
Lead	46.1	mg/kg	0.75	0.23	1	12/16/16 07:04	12/19/16 07:15	7439-92-1	
Selenium	<2.2	mg/kg	2.2	0.65	1	12/16/16 07:04	12/19/16 07:15	7782-49-2	
Silver	0.72	mg/kg	0.60	0.18	1	12/16/16 07:04	12/19/16 07:15	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.50	mg/kg	0.036	0.011	1	12/16/16 07:05	12/18/16 19:12	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	58.6	%	0.10	0.10	1		12/20/16 14:36		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	35.9	ug/kg	3.1	0.94	1	12/09/16 11:09	12/19/16 01:23	83-32-9	
Acenaphthylene	39.7	ug/kg	2.2	0.66	1	12/09/16 11:09	12/19/16 01:23	208-96-8	
Anthracene	73.0	ug/kg	3.6	1.1	1	12/09/16 11:09	12/19/16 01:23	120-12-7	
Benzo(a)anthracene	170	ug/kg	3.8	1.1	1	12/09/16 11:09	12/19/16 01:23	56-55-3	
Benzo(a)pyrene	216	ug/kg	2.8	0.84	1	12/09/16 11:09	12/19/16 01:23	50-32-8	
Benzo(b)fluoranthene	244	ug/kg	4.6	1.4	1	12/09/16 11:09	12/19/16 01:23	205-99-2	
Benzo(g,h,i)perylene	157	ug/kg	3.7	1.1	1	12/09/16 11:09	12/19/16 01:23	191-24-2	
Benzo(k)fluoranthene	115	ug/kg	4.0	1.2	1	12/09/16 11:09	12/19/16 01:23	207-08-9	
Chrysene	176	ug/kg	4.5	1.3	1	12/09/16 11:09	12/19/16 01:23	218-01-9	
Dibenz(a,h)anthracene	33.7	ug/kg	2.6	0.79	1	12/09/16 11:09	12/19/16 01:23	53-70-3	
Fluoranthene	340	ug/kg	6.3	1.9	1	12/09/16 11:09	12/19/16 01:23	206-44-0	
Fluorene	41.2	ug/kg	3.1	0.93	1	12/09/16 11:09	12/19/16 01:23	86-73-7	
Indeno(1,2,3-cd)pyrene	118	ug/kg	6.0	1.8	1	12/09/16 11:09	12/19/16 01:23	193-39-5	
Naphthalene	70.3	ug/kg	2.9	0.86	1	12/09/16 11:09	12/19/16 01:23	91-20-3	
Phenanthrene	223	ug/kg	3.2	0.97	1	12/09/16 11:09	12/19/16 01:23	85-01-8	
Pyrene	298	ug/kg	6.7	2.0	1	12/09/16 11:09	12/19/16 01:23	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	72	%	41-125		1	12/09/16 11:09	12/19/16 01:23	321-60-8	
p-Terphenyl-d14 (S)	69	%	39-125		1	12/09/16 11:09	12/19/16 01:23	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<2670	ug/kg	2670	801	1	12/09/16 10:54	12/12/16 14:53	67-64-1	
Allyl chloride	<349	ug/kg	349	105	1	12/09/16 10:54	12/12/16 14:53	107-05-1	
Benzene	<35.1	ug/kg	35.1	10.6	1	12/09/16 10:54	12/12/16 14:53	71-43-2	
Bromobenzene	<104	ug/kg	104	31.3	1	12/09/16 10:54	12/12/16 14:53	108-86-1	
Bromochloromethane	<121	ug/kg	121	36.4	1	12/09/16 10:54	12/12/16 14:53	74-97-5	
Bromodichloromethane	<114	ug/kg	114	34.2	1	12/09/16 10:54	12/12/16 14:53	75-27-4	
Bromoform	<351	ug/kg	351	105	1	12/09/16 10:54	12/12/16 14:53	75-25-2	
Bromomethane	<413	ug/kg	413	124	1	12/09/16 10:54	12/12/16 14:53	74-83-9	
2-Butanone (MEK)	<537	ug/kg	537	161	1	12/09/16 10:54	12/12/16 14:53	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S8\_23.5-24 DUP**      **Lab ID: 10372445019**      Collected: 12/06/16 14:00      Received: 12/08/16 09:22      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<98.4	ug/kg	98.4	29.6	1	12/09/16 10:54	12/12/16 14:53	104-51-8	
sec-Butylbenzene	<96.0	ug/kg	96.0	28.8	1	12/09/16 10:54	12/12/16 14:53	135-98-8	
tert-Butylbenzene	<129	ug/kg	129	38.6	1	12/09/16 10:54	12/12/16 14:53	98-06-6	
Carbon tetrachloride	<128	ug/kg	128	38.4	1	12/09/16 10:54	12/12/16 14:53	56-23-5	
Chlorobenzene	<70.8	ug/kg	70.8	21.3	1	12/09/16 10:54	12/12/16 14:53	108-90-7	
Chloroethane	<643	ug/kg	643	193	1	12/09/16 10:54	12/12/16 14:53	75-00-3	
Chloroform	<198	ug/kg	198	59.4	1	12/09/16 10:54	12/12/16 14:53	67-66-3	
Chloromethane	<197	ug/kg	197	59.1	1	12/09/16 10:54	12/12/16 14:53	74-87-3	
2-Chlorotoluene	<112	ug/kg	112	33.7	1	12/09/16 10:54	12/12/16 14:53	95-49-8	
4-Chlorotoluene	<107	ug/kg	107	32.0	1	12/09/16 10:54	12/12/16 14:53	106-43-4	
1,2-Dibromo-3-chloropropane	<238	ug/kg	238	238	1	12/09/16 10:54	12/12/16 14:53	96-12-8	
Dibromochloromethane	<349	ug/kg	349	105	1	12/09/16 10:54	12/12/16 14:53	124-48-1	
1,2-Dibromoethane (EDB)	<45.9	ug/kg	45.9	45.9	1	12/09/16 10:54	12/12/16 14:53	106-93-4	
Dibromomethane	<159	ug/kg	159	47.6	1	12/09/16 10:54	12/12/16 14:53	74-95-3	
1,2-Dichlorobenzene	<23.6	ug/kg	23.6	23.6	1	12/09/16 10:54	12/12/16 14:53	95-50-1	
1,3-Dichlorobenzene	<35.9	ug/kg	35.9	23.6	1	12/09/16 10:54	12/12/16 14:53	541-73-1	
1,4-Dichlorobenzene	<118	ug/kg	118	35.4	1	12/09/16 10:54	12/12/16 14:53	106-46-7	
Dichlorodifluoromethane	<124	ug/kg	124	37.4	1	12/09/16 10:54	12/12/16 14:53	75-71-8	
1,1-Dichloroethane	<47.4	ug/kg	47.4	47.4	1	12/09/16 10:54	12/12/16 14:53	75-34-3	
1,2-Dichloroethane	<38.6	ug/kg	38.6	38.6	1	12/09/16 10:54	12/12/16 14:53	107-06-2	
1,1-Dichloroethene	<31.0	ug/kg	31.0	31.0	1	12/09/16 10:54	12/12/16 14:53	75-35-4	
cis-1,2-Dichloroethene	<151	ug/kg	151	45.4	1	12/09/16 10:54	12/12/16 14:53	156-59-2	
trans-1,2-Dichloroethene	<196	ug/kg	196	58.9	1	12/09/16 10:54	12/12/16 14:53	156-60-5	
Dichlorofluoromethane	<1110	ug/kg	1110	335	1	12/09/16 10:54	12/12/16 14:53	75-43-4	
1,2-Dichloropropane	<42.3	ug/kg	42.3	42.3	1	12/09/16 10:54	12/12/16 14:53	78-87-5	
1,3-Dichloropropane	<146	ug/kg	146	43.7	1	12/09/16 10:54	12/12/16 14:53	142-28-9	
2,2-Dichloropropane	<129	ug/kg	129	38.8	1	12/09/16 10:54	12/12/16 14:53	594-20-7	
1,1-Dichloropropene	<36.9	ug/kg	36.9	36.9	1	12/09/16 10:54	12/12/16 14:53	563-58-6	
cis-1,3-Dichloropropene	<186	ug/kg	186	55.7	1	12/09/16 10:54	12/12/16 14:53	10061-01-5	
trans-1,3-Dichloropropene	<138	ug/kg	138	41.5	1	12/09/16 10:54	12/12/16 14:53	10061-02-6	
Diethyl ether (Ethyl ether)	<168	ug/kg	168	50.3	1	12/09/16 10:54	12/12/16 14:53	60-29-7	
Ethylbenzene	<129	ug/kg	129	38.8	1	12/09/16 10:54	12/12/16 14:53	100-41-4	
Hexachloro-1,3-butadiene	<382	ug/kg	382	115	1	12/09/16 10:54	12/12/16 14:53	87-68-3	
Isopropylbenzene (Cumene)	<145	ug/kg	145	43.5	1	12/09/16 10:54	12/12/16 14:53	98-82-8	
p-Isopropyltoluene	<67.5	ug/kg	67.5	20.3	1	12/09/16 10:54	12/12/16 14:53	99-87-6	
Methylene Chloride	<753	ug/kg	753	226	1	12/09/16 10:54	12/12/16 14:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	<269	ug/kg	269	80.9	1	12/09/16 10:54	12/12/16 14:53	108-10-1	
Methyl-tert-butyl ether	<76.2	ug/kg	76.2	22.9	1	12/09/16 10:54	12/12/16 14:53	1634-04-4	
Naphthalene	<98.4	ug/kg	98.4	29.6	1	12/09/16 10:54	12/12/16 14:53	91-20-3	
n-Propylbenzene	<121	ug/kg	121	36.4	1	12/09/16 10:54	12/12/16 14:53	103-65-1	
Styrene	<106	ug/kg	106	31.8	1	12/09/16 10:54	12/12/16 14:53	100-42-5	
1,1,1,2-Tetrachloroethane	<48.4	ug/kg	48.4	48.4	1	12/09/16 10:54	12/12/16 14:53	630-20-6	
1,1,2,2-Tetrachloroethane	<27.1	ug/kg	27.1	27.1	1	12/09/16 10:54	12/12/16 14:53	79-34-5	
Tetrachloroethene	<155	ug/kg	155	46.7	1	12/09/16 10:54	12/12/16 14:53	127-18-4	
Tetrahydrofuran	<2020	ug/kg	2020	606	1	12/09/16 10:54	12/12/16 14:53	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

**Sample: S8\_23.5-24 DUP**      **Lab ID: 10372445019**      Collected: 12/06/16 14:00      Received: 12/08/16 09:22      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<b>204</b>	ug/kg	129	38.8	1	12/09/16 10:54	12/12/16 14:53	108-88-3	
1,2,3-Trichlorobenzene	<b>&lt;35.2</b>	ug/kg	35.2	35.2	1	12/09/16 10:54	12/12/16 14:53	87-61-6	
1,2,4-Trichlorobenzene	<b>&lt;37.6</b>	ug/kg	37.6	37.6	1	12/09/16 10:54	12/12/16 14:53	120-82-1	
1,1,1-Trichloroethane	<b>&lt;51.1</b>	ug/kg	51.1	51.1	1	12/09/16 10:54	12/12/16 14:53	71-55-6	
1,1,2-Trichloroethane	<b>&lt;26.4</b>	ug/kg	26.4	26.4	1	12/09/16 10:54	12/12/16 14:53	79-00-5	
Trichloroethene	<b>&lt;116</b>	ug/kg	116	34.9	1	12/09/16 10:54	12/12/16 14:53	79-01-6	
Trichlorofluoromethane	<b>&lt;408</b>	ug/kg	408	123	1	12/09/16 10:54	12/12/16 14:53	75-69-4	
1,2,3-Trichloropropane	<b>&lt;127</b>	ug/kg	127	127	1	12/09/16 10:54	12/12/16 14:53	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;293</b>	ug/kg	293	88.0	1	12/09/16 10:54	12/12/16 14:53	76-13-1	
1,2,4-Trimethylbenzene	<b>&lt;26.9</b>	ug/kg	26.9	26.9	1	12/09/16 10:54	12/12/16 14:53	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;93.6</b>	ug/kg	93.6	28.1	1	12/09/16 10:54	12/12/16 14:53	108-67-8	
Vinyl chloride	<b>&lt;52.2</b>	ug/kg	52.2	15.7	1	12/09/16 10:54	12/12/16 14:53	75-01-4	
Xylene (Total)	<b>&lt;325</b>	ug/kg	325	97.7	1	12/09/16 10:54	12/12/16 14:53	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	101	%	75-129		1	12/09/16 10:54	12/12/16 14:53	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/09/16 10:54	12/12/16 14:53	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/09/16 10:54	12/12/16 14:53	460-00-4	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

QC Batch: 450976

Analysis Method: EPA 7471B

QC Batch Method: EPA 7471B

Analysis Description: 7471B Mercury Solids

Associated Lab Samples: 10372445018, 10372445019

METHOD BLANK: 2469424

Matrix: Solid

Associated Lab Samples: 10372445018, 10372445019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.017	0.017	12/18/16 18:45	

LABORATORY CONTROL SAMPLE: 2469425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.47	0.44	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2469426 2469427

Parameter	Units	10372447001		MS		MSD		% Rec		Max		Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Mercury	mg/kg	0.051	.64	.69	.69	0.69	0.72	100	95	75-125	4	20

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev  
Pace Project No.: 10372445

QC Batch: 450962 Analysis Method: EPA 6010C  
QC Batch Method: EPA 3050 Analysis Description: 6010C Solids  
Associated Lab Samples: 10372445018, 10372445019

METHOD BLANK: 2469368 Matrix: Solid  
Associated Lab Samples: 10372445018, 10372445019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<0.66	0.66	12/19/16 06:19	
Barium	mg/kg	<0.053	0.053	12/19/16 06:19	
Cadmium	mg/kg	<0.031	0.031	12/19/16 06:19	
Chromium	mg/kg	<0.34	0.34	12/19/16 06:19	
Lead	mg/kg	<0.33	0.33	12/19/16 06:19	
Selenium	mg/kg	<0.96	0.96	12/19/16 06:19	
Silver	mg/kg	<0.26	0.26	12/19/16 06:19	

LABORATORY CONTROL SAMPLE: 2469369

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	49	49.5	101	80-120	
Barium	mg/kg	49	50.9	104	80-120	
Cadmium	mg/kg	49	49.6	101	80-120	
Chromium	mg/kg	49	51.1	104	80-120	
Lead	mg/kg	49	49.0	100	80-120	
Selenium	mg/kg	49	48.7	99	80-120	
Silver	mg/kg	24.5	24.0	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2469370 2469371

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10372447001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Arsenic	mg/kg	3.6	66.4	69.5	60.4	65.0	86	88	75-125	7	20	
Barium	mg/kg	63.2	66.4	69.5	109	126	68	91	75-125	15	20	M1
Cadmium	mg/kg	0.16	66.4	69.5	58.4	62.0	88	89	75-125	6	20	
Chromium	mg/kg	17.9	66.4	69.5	75.8	75.7	87	83	75-125	0	20	
Lead	mg/kg	9.2	66.4	69.5	64.3	67.6	83	84	75-125	5	20	
Selenium	mg/kg	<1.3	66.4	69.5	57.4	61.0	86	87	75-125	6	20	
Silver	mg/kg	<0.37	33.1	34.7	28.7	30.6	86	88	75-125	6	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev  
Pace Project No.: 10372445

QC Batch: 452671 Analysis Method: EPA 6010C  
QC Batch Method: EPA 3050 Analysis Description: 6010C Solids  
Associated Lab Samples: 10372445001, 10372445002, 10372445003, 10372445004, 10372445005, 10372445006, 10372445007, 10372445008, 10372445009, 10372445010, 10372445011, 10372445012, 10372445013, 10372445014, 10372445015, 10372445016, 10372445017

METHOD BLANK: 2477807 Matrix: Solid  
Associated Lab Samples: 10372445001, 10372445002, 10372445003, 10372445004, 10372445005, 10372445006, 10372445007, 10372445008, 10372445009, 10372445010, 10372445011, 10372445012, 10372445013, 10372445014, 10372445015, 10372445016, 10372445017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<0.61	0.61	12/22/16 04:31	
Barium	mg/kg	<0.048	0.048	12/22/16 04:31	
Cadmium	mg/kg	<0.029	0.029	12/22/16 04:31	
Chromium	mg/kg	<0.31	0.31	12/22/16 04:31	
Lead	mg/kg	<0.30	0.30	12/22/16 04:31	
Selenium	mg/kg	<0.88	0.88	12/22/16 04:31	
Silver	mg/kg	<0.24	0.24	12/22/16 04:31	

LABORATORY CONTROL SAMPLE: 2477808

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	48.1	44.5	93	80-120	
Barium	mg/kg	48.1	48.3	100	80-120	
Cadmium	mg/kg	48.1	44.9	93	80-120	
Chromium	mg/kg	48.1	47.7	99	80-120	
Lead	mg/kg	48.1	46.4	97	80-120	
Selenium	mg/kg	48.1	42.1	87	80-120	
Silver	mg/kg	24	22.4	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2477809 2477810

Parameter	Units	MS		MSD		% Rec		% Rec	% Rec	% Rec	Limits	RPD	RPD	Qual
		10372445001 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec							
Arsenic	mg/kg	4.7	59.9	81.3	51.6	69.0	78	79	75-125	29	20	R1		
Barium	mg/kg	61.3	59.9	81.3	112	128	85	82	75-125	13	20			
Cadmium	mg/kg	0.27	59.9	81.3	49.5	68.3	82	84	75-125	32	20	R1		
Chromium	mg/kg	18.9	59.9	81.3	67.9	86.7	82	83	75-125	24	20	R1		
Lead	mg/kg	16.3	59.9	81.3	63.5	81.4	79	80	75-125	25	20	R1		
Selenium	mg/kg	<1.5	59.9	81.3	45.4	62.4	75	76	75-125	32	20	R1		
Silver	mg/kg	<0.41	29.9	40.6	25.5	35.0	85	86	75-125	31	20	R1		

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev  
Pace Project No.: 10372445

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QC Batch:	452613	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	10372445001, 10372445002, 10372445003, 10372445004, 10372445005, 10372445006, 10372445007, 10372445008, 10372445009, 10372445010, 10372445011, 10372445012, 10372445013, 10372445014, 10372445015, 10372445016, 10372445017		

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SAMPLE DUPLICATE: 2477533

Parameter	Units	10372445017 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	31.5	33.8	7	30	

SAMPLE DUPLICATE: 2477578

Parameter	Units	10372445002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	26.4	23.1	13	30	

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**QUALITY CONTROL DATA**

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

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QC Batch: 452617	Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974	Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 10372445018, 10372445019	

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SAMPLE DUPLICATE: 2477536

Parameter	Units	10372445018 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	46.7	47.9	2	30	

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SAMPLE DUPLICATE: 2477537

Parameter	Units	10372624003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.8	10.6	2	30	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

QC Batch: 450789 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
 Associated Lab Samples: 10372445001, 10372445002, 10372445003, 10372445004, 10372445005, 10372445006, 10372445007, 10372445008

METHOD BLANK: 2468283 Matrix: Solid  
 Associated Lab Samples: 10372445001, 10372445002, 10372445003, 10372445004, 10372445005, 10372445006, 10372445007, 10372445008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/09/16 17:27	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/09/16 17:27	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/09/16 17:27	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/09/16 17:27	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/09/16 17:27	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/09/16 17:27	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/09/16 17:27	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/09/16 17:27	
1,2,3-Trichlorobenzene	ug/kg	<14.4	14.4	12/09/16 17:27	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/09/16 17:27	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/09/16 17:27	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/09/16 17:27	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/09/16 17:27	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/09/16 17:27	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/09/16 17:27	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/09/16 17:27	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/09/16 17:27	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/09/16 17:27	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/09/16 17:27	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/09/16 17:27	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/09/16 17:27	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/09/16 17:27	
2-Butanone (MEK)	ug/kg	<220	220	12/09/16 17:27	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/09/16 17:27	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/09/16 17:27	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/09/16 17:27	
Acetone	ug/kg	<1090	1090	12/09/16 17:27	
Allyl chloride	ug/kg	<143	143	12/09/16 17:27	
Benzene	ug/kg	<14.4	14.4	12/09/16 17:27	
Bromobenzene	ug/kg	<42.6	42.6	12/09/16 17:27	
Bromochloromethane	ug/kg	<49.6	49.6	12/09/16 17:27	
Bromodichloromethane	ug/kg	<46.6	46.6	12/09/16 17:27	
Bromoform	ug/kg	<144	144	12/09/16 17:27	
Bromomethane	ug/kg	<169	169	12/09/16 17:27	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/09/16 17:27	
Chlorobenzene	ug/kg	<29.0	29.0	12/09/16 17:27	
Chloroethane	ug/kg	<263	263	12/09/16 17:27	
Chloroform	ug/kg	<80.9	80.9	12/09/16 17:27	
Chloromethane	ug/kg	<80.6	80.6	12/09/16 17:27	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/09/16 17:27	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev  
Pace Project No.: 10372445

METHOD BLANK: 2468283 Matrix: Solid  
Associated Lab Samples: 10372445001, 10372445002, 10372445003, 10372445004, 10372445005, 10372445006, 10372445007, 10372445008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/09/16 17:27	
Dibromochloromethane	ug/kg	<143	143	12/09/16 17:27	
Dibromomethane	ug/kg	<64.9	64.9	12/09/16 17:27	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/09/16 17:27	
Dichlorofluoromethane	ug/kg	<456	456	12/09/16 17:27	
Diethyl ether (Ethyl ether)	ug/kg	<68.6	68.6	12/09/16 17:27	
Ethylbenzene	ug/kg	<52.9	52.9	12/09/16 17:27	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/09/16 17:27	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/09/16 17:27	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/09/16 17:27	
Methylene Chloride	ug/kg	<308	308	12/09/16 17:27	
n-Butylbenzene	ug/kg	<40.3	40.3	12/09/16 17:27	
n-Propylbenzene	ug/kg	<49.6	49.6	12/09/16 17:27	
Naphthalene	ug/kg	<40.3	40.3	12/09/16 17:27	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/09/16 17:27	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/09/16 17:27	
Styrene	ug/kg	<43.3	43.3	12/09/16 17:27	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/09/16 17:27	
Tetrachloroethene	ug/kg	<63.6	63.6	12/09/16 17:27	
Tetrahydrofuran	ug/kg	<826	826	12/09/16 17:27	
Toluene	ug/kg	<52.9	52.9	12/09/16 17:27	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/09/16 17:27	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/09/16 17:27	
Trichloroethene	ug/kg	<47.6	47.6	12/09/16 17:27	
Trichlorofluoromethane	ug/kg	<167	167	12/09/16 17:27	
Vinyl chloride	ug/kg	<21.4	21.4	12/09/16 17:27	
Xylene (Total)	ug/kg	<133	133	12/09/16 17:27	
1,2-Dichloroethane-d4 (S)	%	99	75-129	12/09/16 17:27	
4-Bromofluorobenzene (S)	%	103	75-125	12/09/16 17:27	
Toluene-d8 (S)	%	101	75-125	12/09/16 17:27	

LABORATORY CONTROL SAMPLE & LCSD: 2468284

Parameter	Units	2468289		2468289		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
1,1,1,2-Tetrachloroethane	ug/kg	1000	958	951	96	95	71-127	1	20
1,1,1-Trichloroethane	ug/kg	1000	1080	1070	108	107	64-132	1	20
1,1,2,2-Tetrachloroethane	ug/kg	1000	951	956	95	96	50-138	0	20
1,1,2-Trichloroethane	ug/kg	1000	975	991	98	99	69-126	2	20
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	947	915	95	91	53-144	3	20
1,1-Dichloroethane	ug/kg	1000	1040	1030	104	103	61-134	1	20
1,1-Dichloroethene	ug/kg	1000	1020	994	102	99	57-135	2	20
1,1-Dichloropropene	ug/kg	1000	1100	1060	110	106	59-133	4	20
1,2,3-Trichlorobenzene	ug/kg	1000	957	934	96	93	32-150	2	20

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

LABORATORY CONTROL SAMPLE & LCSD: 2468284		2468289									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1,2,3-Trichloropropane	ug/kg	1000	978	963	98	96	62-130	2	20		
1,2,4-Trichlorobenzene	ug/kg	1000	921	914	92	91	38-138	1	20		
1,2,4-Trimethylbenzene	ug/kg	1000	1000	1010	100	101	70-127	0	20		
1,2-Dibromo-3-chloropropane	ug/kg	2500	2290	2280	92	91	40-141	1	20		
1,2-Dibromoethane (EDB)	ug/kg	1000	962	945	96	95	69-130	2	20		
1,2-Dichlorobenzene	ug/kg	1000	957	959	96	96	72-125	0	20		
1,2-Dichloroethane	ug/kg	1000	1010	992	101	99	62-125	2	20		
1,2-Dichloropropane	ug/kg	1000	1030	1010	103	101	67-126	1	20		
1,3,5-Trimethylbenzene	ug/kg	1000	1000	1010	100	101	71-129	0	20		
1,3-Dichlorobenzene	ug/kg	1000	954	955	95	95	72-126	0	20		
1,3-Dichloropropane	ug/kg	1000	992	963	99	96	70-125	3	20		
1,4-Dichlorobenzene	ug/kg	1000	940	941	94	94	70-126	0	20		
2,2-Dichloropropane	ug/kg	1000	1020	998	102	100	48-134	2	20		
2-Butanone (MEK)	ug/kg	5000	5100	5290	102	106	38-149	4	20		
2-Chlorotoluene	ug/kg	1000	991	994	99	99	71-129	0	20		
4-Chlorotoluene	ug/kg	1000	991	1000	99	100	72-128	1	20		
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5430	5440	109	109	52-145	0	20		
Acetone	ug/kg	5000	5040	4990	101	100	65-142	1	20		
Allyl chloride	ug/kg	1000	1090	1080	109	108	54-125	2	20		
Benzene	ug/kg	1000	1050	1040	105	104	64-125	1	20		
Bromobenzene	ug/kg	1000	999	995	100	100	70-125	0	20		
Bromochloromethane	ug/kg	1000	1040	1040	104	104	68-125	1	20		
Bromodichloromethane	ug/kg	1000	993	974	99	97	67-125	2	20		
Bromoform	ug/kg	1000	826	856	83	86	56-127	4	20		
Bromomethane	ug/kg	1000	830	828	83	83	34-137	0	20		
Carbon tetrachloride	ug/kg	1000	955	960	96	96	58-138	0	20		
Chlorobenzene	ug/kg	1000	1000	983	100	98	72-125	2	20		
Chloroethane	ug/kg	1000	1200	1120	120	112	39-148	7	20		
Chloroform	ug/kg	1000	1000	979	100	98	67-125	2	20		
Chloromethane	ug/kg	1000	876	841	88	84	54-125	4	20		
cis-1,2-Dichloroethene	ug/kg	1000	1040	1030	104	103	67-125	1	20		
cis-1,3-Dichloropropene	ug/kg	1000	1010	990	101	99	62-127	2	20		
Dibromochloromethane	ug/kg	1000	981	983	98	98	67-125	0	20		
Dibromomethane	ug/kg	1000	990	956	99	96	63-129	3	20		
Dichlorodifluoromethane	ug/kg	1000	728	652	73	65	34-139	11	20		
Dichlorofluoromethane	ug/kg	1000	1190	1130	119	113	36-144	5	20		
Diethyl ether (Ethyl ether)	ug/kg	1000	977	993	98	99	51-125	2	20		
Ethylbenzene	ug/kg	1000	1050	1030	105	103	70-129	2	20		
Hexachloro-1,3-butadiene	ug/kg	1000	943	914	94	91	48-126	3	20		
Isopropylbenzene (Cumene)	ug/kg	1000	1050	1040	105	104	75-127	1	20		
Methyl-tert-butyl ether	ug/kg	1000	1000	991	100	99	61-125	1	20		
Methylene Chloride	ug/kg	1000	1070	989	107	99	60-126	8	20		
n-Butylbenzene	ug/kg	1000	1000	1020	100	102	67-125	2	20		
n-Propylbenzene	ug/kg	1000	1060	1070	106	107	72-133	1	20		
Naphthalene	ug/kg	1000	1050	1020	105	102	35-147	2	20		
p-Isopropyltoluene	ug/kg	1000	1010	1010	101	101	69-127	0	20		
sec-Butylbenzene	ug/kg	1000	1030	1040	103	104	70-127	1	20		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

LABORATORY CONTROL SAMPLE & LCSD: 2468284		2468289									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Styrene	ug/kg	1000	1020	1010	102	101	73-125	1	20		
tert-Butylbenzene	ug/kg	1000	1000	1020	100	102	71-130	2	20		
Tetrachloroethene	ug/kg	1000	1030	992	103	99	66-135	3	20		
Tetrahydrofuran	ug/kg	10000	9490	9250	95	92	66-145	3	20		
Toluene	ug/kg	1000	1010	998	101	100	69-125	1	20		
trans-1,2-Dichloroethene	ug/kg	1000	1100	1060	110	106	55-135	4	20		
trans-1,3-Dichloropropene	ug/kg	1000	993	995	99	99	67-125	0	20		
Trichloroethene	ug/kg	1000	1000	981	100	98	62-141	2	20		
Trichlorofluoromethane	ug/kg	1000	1030	1010	103	101	38-150	2	20		
Vinyl chloride	ug/kg	1000	1020	956	102	96	57-131	6	20		
Xylene (Total)	ug/kg	3000	3110	3050	104	102	73-128	2	20		
1,2-Dichloroethane-d4 (S)	%				104	105	75-129				
4-Bromofluorobenzene (S)	%				100	101	75-125				
Toluene-d8 (S)	%				101	101	75-125				

MATRIX SPIKE SAMPLE: 2468290		10372440002	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1050	1070	102	59-135	
1,1,1-Trichloroethane	ug/kg	ND	1050	1210	115	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1050	1050	100	40-149	
1,1,2-Trichloroethane	ug/kg	ND	1050	1120	107	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1050	1020	97	41-150	
1,1-Dichloroethane	ug/kg	ND	1050	1160	110	53-131	
1,1-Dichloroethene	ug/kg	ND	1050	1100	105	41-133	
1,1-Dichloropropene	ug/kg	ND	1050	1180	113	50-139	
1,2,3-Trichlorobenzene	ug/kg	ND	1050	1050	100	52-150	
1,2,3-Trichloropropane	ug/kg	ND	1050	1100	105	61-137	
1,2,4-Trichlorobenzene	ug/kg	ND	1050	1020	97	52-142	
1,2,4-Trimethylbenzene	ug/kg	ND	1050	1120	107	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2620	2620	100	47-143	
1,2-Dibromoethane (EDB)	ug/kg	ND	1050	1070	102	57-136	
1,2-Dichlorobenzene	ug/kg	ND	1050	1080	103	59-136	
1,2-Dichloroethane	ug/kg	ND	1050	1130	108	52-133	
1,2-Dichloropropane	ug/kg	ND	1050	1140	109	62-129	
1,3,5-Trimethylbenzene	ug/kg	ND	1050	1150	109	54-143	
1,3-Dichlorobenzene	ug/kg	ND	1050	1080	103	60-137	
1,3-Dichloropropane	ug/kg	ND	1050	1100	105	57-138	
1,4-Dichlorobenzene	ug/kg	ND	1050	1060	101	51-132	
2,2-Dichloropropane	ug/kg	ND	1050	1100	104	50-134	
2-Butanone (MEK)	ug/kg	ND	5240	5900	113	46-125	
2-Chlorotoluene	ug/kg	ND	1050	1130	107	60-141	
4-Chlorotoluene	ug/kg	ND	1050	1120	107	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5240	6220	119	47-146	
Acetone	ug/kg	ND	5240	5180	99	45-148	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

MATRIX SPIKE SAMPLE: 2468290		10372440002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Allyl chloride	ug/kg	ND	1050	1170	111	50-135	
Benzene	ug/kg	ND	1050	1170	112	41-134	
Bromobenzene	ug/kg	ND	1050	1110	106	59-134	
Bromochloromethane	ug/kg	ND	1050	1160	111	56-127	
Bromodichloromethane	ug/kg	ND	1050	1130	108	55-136	
Bromoform	ug/kg	ND	1050	979	93	51-139	
Bromomethane	ug/kg	ND	1050	937	89	35-148	
Carbon tetrachloride	ug/kg	ND	1050	1070	102	50-140	
Chlorobenzene	ug/kg	ND	1050	1100	105	59-133	
Chloroethane	ug/kg	ND	1050	1240	119	30-150	
Chloroform	ug/kg	ND	1050	1120	107	58-128	
Chloromethane	ug/kg	ND	1050	922	88	38-125	
cis-1,2-Dichloroethene	ug/kg	ND	1050	1130	108	59-125	
cis-1,3-Dichloropropene	ug/kg	ND	1050	1120	107	57-133	
Dibromochloromethane	ug/kg	ND	1050	1150	109	54-141	
Dibromomethane	ug/kg	ND	1050	1060	101	53-134	
Dichlorodifluoromethane	ug/kg	ND	1050	649	62	30-125	
Dichlorofluoromethane	ug/kg	ND	1050	1230	117	30-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	1050	1090	104	46-137	
Ethylbenzene	ug/kg	ND	1050	1160	110	56-141	
Hexachloro-1,3-butadiene	ug/kg	ND	1050	1070	102	45-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1050	1180	113	48-141	
Methyl-tert-butyl ether	ug/kg	ND	1050	1130	108	53-133	
Methylene Chloride	ug/kg	ND	1050	1080	102	42-135	
n-Butylbenzene	ug/kg	ND	1050	1120	107	52-140	
n-Propylbenzene	ug/kg	ND	1050	1210	115	57-142	
Naphthalene	ug/kg	ND	1050	1110	105	41-150	
p-Isopropyltoluene	ug/kg	ND	1050	1160	110	54-139	
sec-Butylbenzene	ug/kg	ND	1050	1170	112	30-150	
Styrene	ug/kg	ND	1050	1120	107	53-137	
tert-Butylbenzene	ug/kg	ND	1050	1140	109	59-138	
Tetrachloroethene	ug/kg	ND	1050	1110	106	53-138	
Tetrahydrofuran	ug/kg	ND	10500	10100	96	50-145	
Toluene	ug/kg	ND	1050	1120	107	55-134	
trans-1,2-Dichloroethene	ug/kg	ND	1050	1190	114	44-135	
trans-1,3-Dichloropropene	ug/kg	ND	1050	1090	104	59-139	
Trichloroethene	ug/kg	ND	1050	1170	111	52-143	
Trichlorofluoromethane	ug/kg	ND	1050	1110	105	30-150	
Vinyl chloride	ug/kg	ND	1050	1060	101	36-127	
Xylene (Total)	ug/kg	ND	3150	3450	110	56-137	
1,2-Dichloroethane-d4 (S)	%				104	75-129	
4-Bromofluorobenzene (S)	%				100	75-125	
Toluene-d8 (S)	%				101	75-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

SAMPLE DUPLICATE: 2468291

Parameter	Units	10372440003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	<22.3		30	
1,1,1-Trichloroethane	ug/kg	ND	<23.6		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	<12.5		30	
1,1,2-Trichloroethane	ug/kg	ND	<12.2		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	<135		30	
1,1-Dichloroethane	ug/kg	ND	<21.9		30	
1,1-Dichloroethene	ug/kg	ND	<14.3		30	
1,1-Dichloropropene	ug/kg	ND	<17.0		30	
1,2,3-Trichlorobenzene	ug/kg	ND	<16.3		30	
1,2,3-Trichloropropane	ug/kg	ND	<58.5		30	
1,2,4-Trichlorobenzene	ug/kg	ND	<17.4		30	
1,2,4-Trimethylbenzene	ug/kg	ND	<12.4		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	<110		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	<21.2		30	
1,2-Dichlorobenzene	ug/kg	ND	<10.9		30	
1,2-Dichloroethane	ug/kg	ND	<17.8		30	
1,2-Dichloropropane	ug/kg	ND	<19.5		30	
1,3,5-Trimethylbenzene	ug/kg	ND	<43.2		30	
1,3-Dichlorobenzene	ug/kg	ND	<16.6		30	
1,3-Dichloropropane	ug/kg	ND	<67.3		30	
1,4-Dichlorobenzene	ug/kg	ND	<54.5		30	
2,2-Dichloropropane	ug/kg	ND	<59.8		30	
2-Butanone (MEK)	ug/kg	ND	<248		30	
2-Chlorotoluene	ug/kg	ND	<51.9		30	
4-Chlorotoluene	ug/kg	ND	<49.2		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	<124		30	
Acetone	ug/kg	ND	<1230		30	
Allyl chloride	ug/kg	ND	<161		30	
Benzene	ug/kg	ND	<16.2		30	
Bromobenzene	ug/kg	ND	<48.1		30	
Bromochloromethane	ug/kg	ND	<56.0		30	
Bromodichloromethane	ug/kg	ND	<52.6		30	
Bromoform	ug/kg	ND	<162		30	
Bromomethane	ug/kg	ND	<191		30	
Carbon tetrachloride	ug/kg	ND	<59.0		30	
Chlorobenzene	ug/kg	ND	<32.7		30	
Chloroethane	ug/kg	ND	<297		30	
Chloroform	ug/kg	ND	<91.3		30	
Chloromethane	ug/kg	ND	<91.0		30	
cis-1,2-Dichloroethene	ug/kg	ND	<69.9		30	
cis-1,3-Dichloropropene	ug/kg	ND	<85.7		30	
Dibromochloromethane	ug/kg	ND	<161		30	
Dibromomethane	ug/kg	ND	<73.3		30	
Dichlorodifluoromethane	ug/kg	ND	<57.5		30	
Dichlorofluoromethane	ug/kg	ND	<515		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	<77.4		30	
Ethylbenzene	ug/kg	ND	<59.8		30	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

SAMPLE DUPLICATE: 2468291

Parameter	Units	10372440003 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	<177		30	
Isopropylbenzene (Cumene)	ug/kg	ND	<66.9		30	
Methyl-tert-butyl ether	ug/kg	ND	<35.2		30	
Methylene Chloride	ug/kg	ND	<348		30	
n-Butylbenzene	ug/kg	ND	<45.5		30	
n-Propylbenzene	ug/kg	ND	<56.0		30	
Naphthalene	ug/kg	ND	<45.5		30	
p-Isopropyltoluene	ug/kg	ND	<31.2		30	
sec-Butylbenzene	ug/kg	ND	<44.3		30	
Styrene	ug/kg	ND	<48.9		30	
tert-Butylbenzene	ug/kg	ND	<59.4		30	
Tetrachloroethene	ug/kg	ND	<71.8		30	
Tetrahydrofuran	ug/kg	ND	<932		30	
Toluene	ug/kg	ND	<59.8		30	
trans-1,2-Dichloroethene	ug/kg	ND	<90.6		30	
trans-1,3-Dichloropropene	ug/kg	ND	<63.9		30	
Trichloroethene	ug/kg	ND	<53.7		30	
Trichlorofluoromethane	ug/kg	ND	<189		30	
Vinyl chloride	ug/kg	ND	<24.1		30	
Xylene (Total)	ug/kg	ND	<150		30	
1,2-Dichloroethane-d4 (S)	%	103	100	6		
4-Bromofluorobenzene (S)	%	102	102	2		
Toluene-d8 (S)	%	101	101	2		

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

QC Batch: 450795 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10372445009, 10372445010, 10372445011, 10372445012, 10372445013

METHOD BLANK: 2468311 Matrix: Solid  
Associated Lab Samples: 10372445009, 10372445010, 10372445011, 10372445012, 10372445013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/12/16 10:53	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/12/16 10:53	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/12/16 10:53	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/12/16 10:53	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/12/16 10:53	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/12/16 10:53	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/12/16 10:53	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/12/16 10:53	
1,2,3-Trichlorobenzene	ug/kg	<14.4	14.4	12/12/16 10:53	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/12/16 10:53	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/12/16 10:53	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/12/16 10:53	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/12/16 10:53	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/12/16 10:53	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/12/16 10:53	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/12/16 10:53	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/12/16 10:53	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/12/16 10:53	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/12/16 10:53	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/12/16 10:53	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/12/16 10:53	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/12/16 10:53	
2-Butanone (MEK)	ug/kg	<220	220	12/12/16 10:53	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/12/16 10:53	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/12/16 10:53	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/12/16 10:53	
Acetone	ug/kg	<1090	1090	12/12/16 10:53	
Allyl chloride	ug/kg	<143	143	12/12/16 10:53	
Benzene	ug/kg	<14.4	14.4	12/12/16 10:53	
Bromobenzene	ug/kg	<42.6	42.6	12/12/16 10:53	
Bromochloromethane	ug/kg	<49.6	49.6	12/12/16 10:53	
Bromodichloromethane	ug/kg	<46.6	46.6	12/12/16 10:53	
Bromoform	ug/kg	<144	144	12/12/16 10:53	
Bromomethane	ug/kg	<169	169	12/12/16 10:53	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/12/16 10:53	
Chlorobenzene	ug/kg	<29.0	29.0	12/12/16 10:53	
Chloroethane	ug/kg	<263	263	12/12/16 10:53	
Chloroform	ug/kg	<80.9	80.9	12/12/16 10:53	
Chloromethane	ug/kg	<80.6	80.6	12/12/16 10:53	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/12/16 10:53	
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/12/16 10:53	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

METHOD BLANK: 2468311

Matrix: Solid

Associated Lab Samples: 10372445009, 10372445010, 10372445011, 10372445012, 10372445013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<143	143	12/12/16 10:53	
Dibromomethane	ug/kg	<64.9	64.9	12/12/16 10:53	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/12/16 10:53	
Dichlorofluoromethane	ug/kg	<456	456	12/12/16 10:53	
Diethyl ether (Ethyl ether)	ug/kg	<68.6	68.6	12/12/16 10:53	
Ethylbenzene	ug/kg	<52.9	52.9	12/12/16 10:53	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/12/16 10:53	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/12/16 10:53	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/12/16 10:53	
Methylene Chloride	ug/kg	<308	308	12/12/16 10:53	
n-Butylbenzene	ug/kg	<40.3	40.3	12/12/16 10:53	
n-Propylbenzene	ug/kg	<49.6	49.6	12/12/16 10:53	
Naphthalene	ug/kg	<40.3	40.3	12/12/16 10:53	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/12/16 10:53	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/12/16 10:53	
Styrene	ug/kg	<43.3	43.3	12/12/16 10:53	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/12/16 10:53	
Tetrachloroethene	ug/kg	<63.6	63.6	12/12/16 10:53	
Tetrahydrofuran	ug/kg	<826	826	12/12/16 10:53	
Toluene	ug/kg	<52.9	52.9	12/12/16 10:53	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/12/16 10:53	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/12/16 10:53	
Trichloroethene	ug/kg	<47.6	47.6	12/12/16 10:53	
Trichlorofluoromethane	ug/kg	<167	167	12/12/16 10:53	
Vinyl chloride	ug/kg	<21.4	21.4	12/12/16 10:53	
Xylene (Total)	ug/kg	<133	133	12/12/16 10:53	
1,2-Dichloroethane-d4 (S)	%	94	75-129	12/12/16 10:53	
4-Bromofluorobenzene (S)	%	100	75-125	12/12/16 10:53	
Toluene-d8 (S)	%	99	75-125	12/12/16 10:53	

LABORATORY CONTROL SAMPLE: 2468312

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	792	79	71-127	
1,1,1-Trichloroethane	ug/kg	1000	814	81	64-132	
1,1,2,2-Tetrachloroethane	ug/kg	1000	817	82	50-138	
1,1,2-Trichloroethane	ug/kg	1000	783	78	69-126	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	750	75	53-144	
1,1-Dichloroethane	ug/kg	1000	882	88	61-134	
1,1-Dichloroethene	ug/kg	1000	791	79	57-135	
1,1-Dichloropropene	ug/kg	1000	912	91	59-133	
1,2,3-Trichlorobenzene	ug/kg	1000	756	76	32-150	
1,2,3-Trichloropropane	ug/kg	1000	759	76	62-130	
1,2,4-Trichlorobenzene	ug/kg	1000	747	75	38-138	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

LABORATORY CONTROL SAMPLE: 2468312

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	769	77	70-127	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1720	69	40-141	
1,2-Dibromoethane (EDB)	ug/kg	1000	763	76	69-130	
1,2-Dichlorobenzene	ug/kg	1000	787	79	72-125	
1,2-Dichloroethane	ug/kg	1000	754	75	62-125	
1,2-Dichloropropane	ug/kg	1000	886	89	67-126	
1,3,5-Trimethylbenzene	ug/kg	1000	797	80	71-129	
1,3-Dichlorobenzene	ug/kg	1000	767	77	72-126	
1,3-Dichloropropane	ug/kg	1000	793	79	70-125	
1,4-Dichlorobenzene	ug/kg	1000	768	77	70-126	
2,2-Dichloropropane	ug/kg	1000	772	77	48-134	
2-Butanone (MEK)	ug/kg	5000	3770	75	38-149	
2-Chlorotoluene	ug/kg	1000	764	76	71-129	
4-Chlorotoluene	ug/kg	1000	817	82	72-128	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	3780	76	52-145	
Acetone	ug/kg	5000	4010	80	65-142	
Allyl chloride	ug/kg	1000	765	77	54-125	
Benzene	ug/kg	1000	874	87	64-125	
Bromobenzene	ug/kg	1000	774	77	70-125	
Bromochloromethane	ug/kg	1000	854	85	68-125	
Bromodichloromethane	ug/kg	1000	807	81	67-125	
Bromoform	ug/kg	1000	667	67	56-127	
Bromomethane	ug/kg	1000	821	82	34-137	
Carbon tetrachloride	ug/kg	1000	832	83	58-138	
Chlorobenzene	ug/kg	1000	760	76	72-125	
Chloroethane	ug/kg	1000	907	91	39-148	
Chloroform	ug/kg	1000	792	79	67-125	
Chloromethane	ug/kg	1000	776	78	54-125	
cis-1,2-Dichloroethene	ug/kg	1000	861	86	67-125	
cis-1,3-Dichloropropene	ug/kg	1000	799	80	62-127	
Dibromochloromethane	ug/kg	1000	721	72	67-125	
Dibromomethane	ug/kg	1000	740	74	63-129	
Dichlorodifluoromethane	ug/kg	1000	627	63	34-139	
Dichlorofluoromethane	ug/kg	1000	803	80	36-144	
Diethyl ether (Ethyl ether)	ug/kg	1000	674	67	51-125	
Ethylbenzene	ug/kg	1000	783	78	70-129	
Hexachloro-1,3-butadiene	ug/kg	1000	769	77	48-126	
Isopropylbenzene (Cumene)	ug/kg	1000	786	79	75-127	
Methyl-tert-butyl ether	ug/kg	1000	832	83	61-125	
Methylene Chloride	ug/kg	1000	784	78	60-126	
n-Butylbenzene	ug/kg	1000	792	79	67-125	
n-Propylbenzene	ug/kg	1000	803	80	72-133	
Naphthalene	ug/kg	1000	742	74	35-147	
p-Isopropyltoluene	ug/kg	1000	778	78	69-127	
sec-Butylbenzene	ug/kg	1000	816	82	70-127	
Styrene	ug/kg	1000	778	78	73-125	
tert-Butylbenzene	ug/kg	1000	792	79	71-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

LABORATORY CONTROL SAMPLE: 2468312

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	824	82	66-135	
Tetrahydrofuran	ug/kg	10000	8810	88	66-145	
Toluene	ug/kg	1000	847	85	69-125	
trans-1,2-Dichloroethene	ug/kg	1000	811	81	55-135	
trans-1,3-Dichloropropene	ug/kg	1000	791	79	67-125	
Trichloroethene	ug/kg	1000	829	83	62-141	
Trichlorofluoromethane	ug/kg	1000	947	95	38-150	
Vinyl chloride	ug/kg	1000	887	89	57-131	
Xylene (Total)	ug/kg	3000	2330	78	73-128	
1,2-Dichloroethane-d4 (S)	%			97	75-129	
4-Bromofluorobenzene (S)	%			104	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE SAMPLE: 2468332

Parameter	Units	10372447001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<29.6	1620	1890	116	59-135	
1,1,1-Trichloroethane	ug/kg	<31.2	1620	1850	114	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	<16.6	1620	1950	120	40-149	
1,1,2-Trichloroethane	ug/kg	<16.1	1620	1790	111	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	<179	1620	1470	91	41-150	
1,1-Dichloroethane	ug/kg	<29.0	1620	1930	119	53-131	
1,1-Dichloroethene	ug/kg	<19.0	1620	1700	105	41-133	
1,1-Dichloropropene	ug/kg	<22.6	1620	1950	121	50-139	
1,2,3-Trichlorobenzene	ug/kg	<21.5	1620	1860	115	52-150	
1,2,3-Trichloropropane	ug/kg	<77.4	1620	1940	120	61-137	
1,2,4-Trichlorobenzene	ug/kg	<23.0	1620	1810	112	52-142	
1,2,4-Trimethylbenzene	ug/kg	<16.4	1620	1830	113	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	<146	4050	4550	112	47-143	
1,2-Dibromoethane (EDB)	ug/kg	<28.1	1620	1780	110	57-136	
1,2-Dichlorobenzene	ug/kg	<14.4	1620	1920	119	59-136	
1,2-Dichloroethane	ug/kg	<23.6	1620	1710	106	52-133	
1,2-Dichloropropane	ug/kg	<25.9	1620	1960	121	62-129	
1,3,5-Trimethylbenzene	ug/kg	<57.2	1620	1840	114	54-143	
1,3-Dichlorobenzene	ug/kg	<22.0	1620	1870	116	60-137	
1,3-Dichloropropane	ug/kg	<89.1	1620	1930	119	57-138	
1,4-Dichlorobenzene	ug/kg	<72.2	1620	1790	111	51-132	
2,2-Dichloropropane	ug/kg	<79.1	1620	1710	105	50-134	
2-Butanone (MEK)	ug/kg	<328	8100	9130	113	46-125	
2-Chlorotoluene	ug/kg	<68.7	1620	1750	108	60-141	
4-Chlorotoluene	ug/kg	<65.2	1620	1860	115	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	<165	8100	9370	116	47-146	
Acetone	ug/kg	<1630	8100	9940	123	45-148	
Allyl chloride	ug/kg	<213	1620	1620	100	50-135	
Benzene	ug/kg	<21.5	1620	1980	122	41-134	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

MATRIX SPIKE SAMPLE: 2468332		10372447001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromobenzene	ug/kg	<63.7	1620	1800	111	59-134	
Bromochloromethane	ug/kg	<74.1	1620	1940	120	56-127	
Bromodichloromethane	ug/kg	<69.7	1620	1820	113	55-136	
Bromoform	ug/kg	<214	1620	1690	104	51-139	
Bromomethane	ug/kg	<252	1620	1340	83	35-148	
Carbon tetrachloride	ug/kg	<78.1	1620	1900	117	50-140	
Chlorobenzene	ug/kg	<43.3	1620	1790	110	59-133	
Chloroethane	ug/kg	<393	1620	1340	83	30-150	
Chloroform	ug/kg	<121	1620	1800	111	58-128	
Chloromethane	ug/kg	<120	1620	1140	70	38-125	
cis-1,2-Dichloroethene	ug/kg	<92.6	1620	1950	120	59-125	
cis-1,3-Dichloropropene	ug/kg	<113	1620	1830	113	57-133	
Dibromochloromethane	ug/kg	<213	1620	1750	108	54-141	
Dibromomethane	ug/kg	<97.0	1620	1820	112	53-134	
Dichlorodifluoromethane	ug/kg	<76.1	1620	602	37	30-125	
Dichlorofluoromethane	ug/kg	<682	1620	1260	78	30-150	
Diethyl ether (Ethyl ether)	ug/kg	<103	1620	1540	95	46-137	
Ethylbenzene	ug/kg	<79.1	1620	1830	113	56-141	
Hexachloro-1,3-butadiene	ug/kg	<234	1620	1980	122	45-150	
Isopropylbenzene (Cumene)	ug/kg	<88.6	1620	1860	115	48-141	
Methyl-tert-butyl ether	ug/kg	<46.6	1620	1890	117	53-133	
Methylene Chloride	ug/kg	<461	1620	1730	106	42-135	
n-Butylbenzene	ug/kg	<60.2	1620	1880	116	52-140	
n-Propylbenzene	ug/kg	<74.1	1620	1860	115	57-142	
Naphthalene	ug/kg	<60.2	1620	1900	117	41-150	
p-Isopropyltoluene	ug/kg	<41.3	1620	1830	113	54-139	
sec-Butylbenzene	ug/kg	<58.7	1620	1970	122	30-150	
Styrene	ug/kg	<64.7	1620	1860	115	53-137	
tert-Butylbenzene	ug/kg	<78.6	1620	1940	120	59-138	
Tetrachloroethene	ug/kg	<95.0	1620	1930	119	53-138	
Tetrahydrofuran	ug/kg	<1230	16200	19900	123	50-145	
Toluene	ug/kg	208	1620	2200	123	55-134	
trans-1,2-Dichloroethene	ug/kg	<120	1620	1770	110	44-135	
trans-1,3-Dichloropropene	ug/kg	<84.6	1620	1870	115	59-139	
Trichloroethene	ug/kg	<71.2	1620	1860	115	52-143	
Trichlorofluoromethane	ug/kg	<250	1620	1410	87	30-150	
Vinyl chloride	ug/kg	<31.9	1620	1350	83	36-127	
Xylene (Total)	ug/kg	<199	4860	5580	115	56-137	
1,2-Dichloroethane-d4 (S)	%				95	75-129	
4-Bromofluorobenzene (S)	%				101	75-125	
Toluene-d8 (S)	%				101	75-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

SAMPLE DUPLICATE: 2468333

Parameter	Units	10372447002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<26.0	<32.7		30	
1,1,1-Trichloroethane	ug/kg	<27.4	<34.5		30	
1,1,2,2-Tetrachloroethane	ug/kg	<14.6	<18.3		30	
1,1,2-Trichloroethane	ug/kg	<14.2	<17.8		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	<157	<198		30	
1,1-Dichloroethane	ug/kg	<25.4	<32.1		30	
1,1-Dichloroethene	ug/kg	<16.6	<21.0		30	
1,1-Dichloropropene	ug/kg	<19.8	<25.0		30	
1,2,3-Trichlorobenzene	ug/kg	<18.9	<23.8		30	
1,2,3-Trichloropropane	ug/kg	<67.9	<85.6		30	
1,2,4-Trichlorobenzene	ug/kg	<20.2	<25.5		30	
1,2,4-Trimethylbenzene	ug/kg	<14.4	22.7		30	
1,2-Dibromo-3-chloropropane	ug/kg	<128	<161		30	
1,2-Dibromoethane (EDB)	ug/kg	<24.6	<31.1		30	
1,2-Dichlorobenzene	ug/kg	<12.7	<16.0		30	
1,2-Dichloroethane	ug/kg	<20.7	<26.1		30	
1,2-Dichloropropane	ug/kg	<22.7	<28.6		30	
1,3,5-Trimethylbenzene	ug/kg	<50.2	<63.3		30	
1,3-Dichlorobenzene	ug/kg	<19.3	<24.3		30	
1,3-Dichloropropane	ug/kg	<78.1	<98.5		30	
1,4-Dichlorobenzene	ug/kg	<63.3	<79.8		30	
2,2-Dichloropropane	ug/kg	<69.4	<87.5		30	
2-Butanone (MEK)	ug/kg	<288	<363		30	
2-Chlorotoluene	ug/kg	<60.2	<75.9		30	
4-Chlorotoluene	ug/kg	<57.2	<72.1		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	<144	<182		30	
Acetone	ug/kg	<1430	<1810		30	
Allyl chloride	ug/kg	<187	<236		30	
Benzene	ug/kg	<18.9	<23.8		30	
Bromobenzene	ug/kg	<55.9	<70.4		30	
Bromochloromethane	ug/kg	<65.0	<82.0		30	
Bromodichloromethane	ug/kg	<61.1	<77.0		30	
Bromoform	ug/kg	<188	<237		30	
Bromomethane	ug/kg	<221	<279		30	
Carbon tetrachloride	ug/kg	<68.5	<86.4		30	
Chlorobenzene	ug/kg	<38.0	<47.9		30	
Chloroethane	ug/kg	<345	<435		30	
Chloroform	ug/kg	<106	<134		30	
Chloromethane	ug/kg	<106	<133		30	
cis-1,2-Dichloroethene	ug/kg	<81.2	<102		30	
cis-1,3-Dichloropropene	ug/kg	<99.5	<125		30	
Dibromochloromethane	ug/kg	<187	<236		30	
Dibromomethane	ug/kg	<85.1	<107		30	
Dichlorodifluoromethane	ug/kg	<66.8	<84.2		30	
Dichlorofluoromethane	ug/kg	<598	<754		30	
Diethyl ether (Ethyl ether)	ug/kg	<89.9	<113		30	
Ethylbenzene	ug/kg	<69.4	<87.5		30	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

SAMPLE DUPLICATE: 2468333

Parameter	Units	10372447002 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<205	<259		30	
Isopropylbenzene (Cumene)	ug/kg	<77.7	<98.0		30	
Methyl-tert-butyl ether	ug/kg	<40.9	<51.5		30	
Methylene Chloride	ug/kg	<404	<510		30	
n-Butylbenzene	ug/kg	<52.8	<66.6		30	
n-Propylbenzene	ug/kg	<65.0	<82.0		30	
Naphthalene	ug/kg	<52.8	106		30	
p-Isopropyltoluene	ug/kg	<36.2	<45.7		30	
sec-Butylbenzene	ug/kg	<51.5	<64.9		30	
Styrene	ug/kg	<56.8	<71.5		30	
tert-Butylbenzene	ug/kg	<69.0	<87.0		30	
Tetrachloroethene	ug/kg	<83.4	<105		30	
Tetrahydrofuran	ug/kg	<1080	<1360		30	
Toluene	ug/kg	<69.4	<87.5		30	
trans-1,2-Dichloroethene	ug/kg	<105	<133		30	
trans-1,3-Dichloropropene	ug/kg	<74.2	<93.6		30	
Trichloroethene	ug/kg	<62.4	<78.7		30	
Trichlorofluoromethane	ug/kg	<219	<276		30	
Vinyl chloride	ug/kg	<28.0	<35.3		30	
Xylene (Total)	ug/kg	<175	<220		30	
1,2-Dichloroethane-d4 (S)	%	96	99	26		
4-Bromofluorobenzene (S)	%	100	102	25		
Toluene-d8 (S)	%	97	96	22		

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev  
Pace Project No.: 10372445

QC Batch: 450862 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10372445014, 10372445015, 10372445016, 10372445017, 10372445018

METHOD BLANK: 2468583 Matrix: Solid  
Associated Lab Samples: 10372445014, 10372445015, 10372445016, 10372445017, 10372445018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/09/16 17:44	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/09/16 17:44	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/09/16 17:44	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/09/16 17:44	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/09/16 17:44	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/09/16 17:44	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/09/16 17:44	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/09/16 17:44	
1,2,3-Trichlorobenzene	ug/kg	<14.4	14.4	12/09/16 17:44	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/09/16 17:44	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/09/16 17:44	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/09/16 17:44	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/09/16 17:44	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/09/16 17:44	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/09/16 17:44	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/09/16 17:44	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/09/16 17:44	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/09/16 17:44	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/09/16 17:44	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/09/16 17:44	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/09/16 17:44	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/09/16 17:44	
2-Butanone (MEK)	ug/kg	<220	220	12/09/16 17:44	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/09/16 17:44	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/09/16 17:44	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/09/16 17:44	
Acetone	ug/kg	<1090	1090	12/09/16 17:44	
Allyl chloride	ug/kg	<143	143	12/09/16 17:44	
Benzene	ug/kg	<14.4	14.4	12/09/16 17:44	
Bromobenzene	ug/kg	<42.6	42.6	12/09/16 17:44	
Bromochloromethane	ug/kg	<49.6	49.6	12/09/16 17:44	
Bromodichloromethane	ug/kg	<46.6	46.6	12/09/16 17:44	
Bromoform	ug/kg	<144	144	12/09/16 17:44	
Bromomethane	ug/kg	<169	169	12/09/16 17:44	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/09/16 17:44	
Chlorobenzene	ug/kg	<29.0	29.0	12/09/16 17:44	
Chloroethane	ug/kg	<263	263	12/09/16 17:44	
Chloroform	ug/kg	<80.9	80.9	12/09/16 17:44	
Chloromethane	ug/kg	<80.6	80.6	12/09/16 17:44	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/09/16 17:44	
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/09/16 17:44	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev  
Pace Project No.: 10372445

METHOD BLANK: 2468583 Matrix: Solid  
Associated Lab Samples: 10372445014, 10372445015, 10372445016, 10372445017, 10372445018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<143	143	12/09/16 17:44	
Dibromomethane	ug/kg	<64.9	64.9	12/09/16 17:44	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/09/16 17:44	
Dichlorofluoromethane	ug/kg	<456	456	12/09/16 17:44	
Diethyl ether (Ethyl ether)	ug/kg	<68.6	68.6	12/09/16 17:44	
Ethylbenzene	ug/kg	<52.9	52.9	12/09/16 17:44	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/09/16 17:44	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/09/16 17:44	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/09/16 17:44	
Methylene Chloride	ug/kg	<308	308	12/09/16 17:44	
n-Butylbenzene	ug/kg	<40.3	40.3	12/09/16 17:44	
n-Propylbenzene	ug/kg	<49.6	49.6	12/09/16 17:44	
Naphthalene	ug/kg	<40.3	40.3	12/09/16 17:44	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/09/16 17:44	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/09/16 17:44	
Styrene	ug/kg	<43.3	43.3	12/09/16 17:44	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/09/16 17:44	
Tetrachloroethene	ug/kg	<63.6	63.6	12/09/16 17:44	
Tetrahydrofuran	ug/kg	<826	826	12/09/16 17:44	
Toluene	ug/kg	<52.9	52.9	12/09/16 17:44	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/09/16 17:44	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/09/16 17:44	
Trichloroethene	ug/kg	<47.6	47.6	12/09/16 17:44	
Trichlorofluoromethane	ug/kg	<167	167	12/09/16 17:44	
Vinyl chloride	ug/kg	<21.4	21.4	12/09/16 17:44	
Xylene (Total)	ug/kg	<133	133	12/09/16 17:44	
1,2-Dichloroethane-d4 (S)	%	99	75-129	12/09/16 17:44	
4-Bromofluorobenzene (S)	%	101	75-125	12/09/16 17:44	
Toluene-d8 (S)	%	102	75-125	12/09/16 17:44	

LABORATORY CONTROL SAMPLE & LCSD: 2468584

Parameter	Units	2468585		LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result						
1,1,1,2-Tetrachloroethane	ug/kg	1000	748	75	87	71-127	15	20	
1,1,1-Trichloroethane	ug/kg	1000	801	80	90	64-132	11	20	
1,1,2,2-Tetrachloroethane	ug/kg	1000	763	76	89	50-138	15	20	
1,1,2-Trichloroethane	ug/kg	1000	763	76	87	69-126	13	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	711	71	80	53-144	12	20	
1,1-Dichloroethane	ug/kg	1000	774	77	85	61-134	9	20	
1,1-Dichloroethene	ug/kg	1000	779	78	87	57-135	11	20	
1,1-Dichloropropene	ug/kg	1000	807	81	90	59-133	11	20	
1,2,3-Trichlorobenzene	ug/kg	1000	665	67	81	32-150	19	20	
1,2,3-Trichloropropane	ug/kg	1000	767	77	86	62-130	12	20	
1,2,4-Trichlorobenzene	ug/kg	1000	635	63	79	38-138	22	20	R1

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

LABORATORY CONTROL SAMPLE & LCSD: 2468584

2468585

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	756	868	76	87	70-127	14	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1780	2130	71	85	40-141	18	20	
1,2-Dibromoethane (EDB)	ug/kg	1000	734	837	73	84	69-130	13	20	
1,2-Dichlorobenzene	ug/kg	1000	723	856	72	86	72-125	17	20	
1,2-Dichloroethane	ug/kg	1000	724	815	72	81	62-125	12	20	
1,2-Dichloropropane	ug/kg	1000	776	857	78	86	67-126	10	20	
1,3,5-Trimethylbenzene	ug/kg	1000	763	877	76	88	71-129	14	20	
1,3-Dichlorobenzene	ug/kg	1000	710	836	71	84	72-126	16	20	L0
1,3-Dichloropropane	ug/kg	1000	740	855	74	85	70-125	14	20	
1,4-Dichlorobenzene	ug/kg	1000	705	840	70	84	70-126	17	20	
2,2-Dichloropropane	ug/kg	1000	764	823	76	82	48-134	8	20	
2-Butanone (MEK)	ug/kg	5000	3490	4150	70	83	38-149	17	20	
2-Chlorotoluene	ug/kg	1000	756	871	76	87	71-129	14	20	
4-Chlorotoluene	ug/kg	1000	768	865	77	86	72-128	12	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	3710	4280	74	86	52-145	14	20	
Acetone	ug/kg	5000	3850	4350	77	87	65-142	12	20	
Allyl chloride	ug/kg	1000	721	822	72	82	54-125	13	20	
Benzene	ug/kg	1000	787	884	79	88	64-125	12	20	
Bromobenzene	ug/kg	1000	763	880	76	88	70-125	14	20	
Bromochloromethane	ug/kg	1000	773	871	77	87	68-125	12	20	
Bromodichloromethane	ug/kg	1000	765	858	76	86	67-125	12	20	
Bromoform	ug/kg	1000	685	782	68	78	56-127	13	20	
Bromomethane	ug/kg	1000	817	889	82	89	34-137	8	20	
Carbon tetrachloride	ug/kg	1000	739	820	74	82	58-138	10	20	
Chlorobenzene	ug/kg	1000	758	879	76	88	72-125	15	20	
Chloroethane	ug/kg	1000	848	905	85	91	39-148	7	20	
Chloroform	ug/kg	1000	752	815	75	82	67-125	8	20	
Chloromethane	ug/kg	1000	787	832	79	83	54-125	5	20	
cis-1,2-Dichloroethene	ug/kg	1000	778	874	78	87	67-125	12	20	
cis-1,3-Dichloropropene	ug/kg	1000	767	881	77	88	62-127	14	20	
Dibromochloromethane	ug/kg	1000	783	905	78	91	67-125	14	20	
Dibromomethane	ug/kg	1000	738	857	74	86	63-129	15	20	
Dichlorodifluoromethane	ug/kg	1000	586	616	59	62	34-139	5	20	
Dichlorofluoromethane	ug/kg	1000	872	917	87	92	36-144	5	20	
Diethyl ether (Ethyl ether)	ug/kg	1000	696	795	70	80	51-125	13	20	
Ethylbenzene	ug/kg	1000	768	893	77	89	70-129	15	20	
Hexachloro-1,3-butadiene	ug/kg	1000	761	872	76	87	48-126	14	20	
Isopropylbenzene (Cumene)	ug/kg	1000	775	914	78	91	75-127	16	20	
Methyl-tert-butyl ether	ug/kg	1000	759	847	76	85	61-125	11	20	
Methylene Chloride	ug/kg	1000	733	828	73	83	60-126	12	20	
n-Butylbenzene	ug/kg	1000	733	851	73	85	67-125	15	20	
n-Propylbenzene	ug/kg	1000	803	920	80	92	72-133	14	20	
Naphthalene	ug/kg	1000	682	845	68	85	35-147	21	20	R1
p-Isopropyltoluene	ug/kg	1000	775	878	77	88	69-127	13	20	
sec-Butylbenzene	ug/kg	1000	798	918	80	92	70-127	14	20	
Styrene	ug/kg	1000	764	889	76	89	73-125	15	20	
tert-Butylbenzene	ug/kg	1000	784	898	78	90	71-130	14	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

LABORATORY CONTROL SAMPLE & LCSD: 2468584		2468585								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Tetrachloroethane	ug/kg	1000	751	865	75	87	66-135	14	20	
Tetrahydrofuran	ug/kg	10000	7940	8880	79	89	66-145	11	20	
Toluene	ug/kg	1000	777	887	78	89	69-125	13	20	
trans-1,2-Dichloroethene	ug/kg	1000	768	900	77	90	55-135	16	20	
trans-1,3-Dichloropropene	ug/kg	1000	772	871	77	87	67-125	12	20	
Trichloroethene	ug/kg	1000	757	850	76	85	62-141	12	20	
Trichlorofluoromethane	ug/kg	1000	859	854	86	85	38-150	1	20	
Vinyl chloride	ug/kg	1000	806	863	81	86	57-131	7	20	
Xylene (Total)	ug/kg	3000	2330	2700	78	90	73-128	15	20	
1,2-Dichloroethane-d4 (S)	%				97	97	75-129			
4-Bromofluorobenzene (S)	%				104	101	75-125			
Toluene-d8 (S)	%				101	102	75-125			

MATRIX SPIKE SAMPLE: 2468586		10372438001	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Parameter	Units	Result					
1,1,1,2-Tetrachloroethane	ug/kg	ND	1140	1350	118	59-135	
1,1,1-Trichloroethane	ug/kg	ND	1140	1410	123	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1140	1370	120	40-149	
1,1,2-Trichloroethane	ug/kg	ND	1140	1360	119	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1140	1220	107	41-150	
1,1-Dichloroethane	ug/kg	ND	1140	1300	114	53-131	
1,1-Dichloroethene	ug/kg	ND	1140	1310	115	41-133	
1,1-Dichloropropene	ug/kg	ND	1140	1390	121	50-139	
1,2,3-Trichlorobenzene	ug/kg	ND	1140	1340	117	52-150	
1,2,3-Trichloropropane	ug/kg	ND	1140	1370	120	61-137	
1,2,4-Trichlorobenzene	ug/kg	ND	1140	1280	112	52-142	
1,2,4-Trimethylbenzene	ug/kg	ND	1140	1400	123	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2860	3370	118	47-143	
1,2-Dibromoethane (EDB)	ug/kg	ND	1140	1310	115	57-136	
1,2-Dichlorobenzene	ug/kg	ND	1140	1380	120	59-136	
1,2-Dichloroethane	ug/kg	ND	1140	1240	108	52-133	
1,2-Dichloropropane	ug/kg	ND	1140	1330	116	62-129	
1,3,5-Trimethylbenzene	ug/kg	ND	1140	1410	123	54-143	
1,3-Dichlorobenzene	ug/kg	ND	1140	1330	117	60-137	
1,3-Dichloropropane	ug/kg	ND	1140	1350	118	57-138	
1,4-Dichlorobenzene	ug/kg	ND	1140	1310	114	51-132	
2,2-Dichloropropane	ug/kg	ND	1140	1300	114	50-134	
2-Butanone (MEK)	ug/kg	ND	5720	5850	102	46-125	
2-Chlorotoluene	ug/kg	ND	1140	1390	121	60-141	
4-Chlorotoluene	ug/kg	ND	1140	1370	120	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5720	6760	118	47-146	
Acetone	ug/kg	ND	5720	6730	118	45-148	
Allyl chloride	ug/kg	ND	1140	1230	108	50-135	
Benzene	ug/kg	ND	1140	1370	119	41-134	

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### QUALITY CONTROL DATA

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Pace Project No.: 10372445

MATRIX SPIKE SAMPLE: 2468586		10372438001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromobenzene	ug/kg	ND	1140	1380	121	59-134	
Bromochloromethane	ug/kg	ND	1140	1390	122	56-127	
Bromodichloromethane	ug/kg	ND	1140	1350	118	55-136	
Bromoform	ug/kg	ND	1140	1220	107	51-139	
Bromomethane	ug/kg	ND	1140	1110	94	35-148	
Carbon tetrachloride	ug/kg	ND	1140	1300	114	50-140	
Chlorobenzene	ug/kg	ND	1140	1370	119	59-133	
Chloroethane	ug/kg	ND	1140	1150	100	30-150	
Chloroform	ug/kg	ND	1140	1280	112	58-128	
Chloromethane	ug/kg	ND	1140	1000	88	38-125	
cis-1,2-Dichloroethene	ug/kg	ND	1140	1340	117	59-125	
cis-1,3-Dichloropropene	ug/kg	ND	1140	1350	118	57-133	
Dibromochloromethane	ug/kg	ND	1140	1430	125	54-141	
Dibromomethane	ug/kg	ND	1140	1300	113	53-134	
Dichlorodifluoromethane	ug/kg	ND	1140	650	57	30-125	
Dichlorofluoromethane	ug/kg	ND	1140	1140	100	30-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	1140	1220	107	46-137	
Ethylbenzene	ug/kg	ND	1140	1420	124	56-141	
Hexachloro-1,3-butadiene	ug/kg	ND	1140	1410	123	45-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1140	1460	128	48-141	
Methyl-tert-butyl ether	ug/kg	ND	1140	1330	116	53-133	
Methylene Chloride	ug/kg	ND	1140	1240	108	42-135	
n-Butylbenzene	ug/kg	ND	1140	1380	120	52-140	
n-Propylbenzene	ug/kg	ND	1140	1500	131	57-142	
Naphthalene	ug/kg	ND	1140	1410	123	41-150	
p-Isopropyltoluene	ug/kg	ND	1140	1440	126	54-139	
sec-Butylbenzene	ug/kg	ND	1140	1470	129	30-150	
Styrene	ug/kg	ND	1140	1380	120	53-137	
tert-Butylbenzene	ug/kg	ND	1140	1440	126	59-138	
Tetrachloroethene	ug/kg	ND	1140	1410	123	53-138	
Tetrahydrofuran	ug/kg	ND	11400	13700	119	50-145	
Toluene	ug/kg	ND	1140	1390	122	55-134	
trans-1,2-Dichloroethene	ug/kg	ND	1140	1380	121	44-135	
trans-1,3-Dichloropropene	ug/kg	ND	1140	1360	119	59-139	
Trichloroethene	ug/kg	ND	1140	1320	115	52-143	
Trichlorofluoromethane	ug/kg	ND	1140	1070	94	30-150	
Vinyl chloride	ug/kg	ND	1140	1050	92	36-127	
Xylene (Total)	ug/kg	ND	3430	4280	125	56-137	
1,2-Dichloroethane-d4 (S)	%				98	75-129	
4-Bromofluorobenzene (S)	%				101	75-125	
Toluene-d8 (S)	%				103	75-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

SAMPLE DUPLICATE: 2468587

Parameter	Units	10372438002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	<28.1		30	
1,1,1-Trichloroethane	ug/kg	ND	<29.7		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	<15.8		30	
1,1,2-Trichloroethane	ug/kg	ND	<15.3		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	<170		30	
1,1-Dichloroethane	ug/kg	ND	<27.5		30	
1,1-Dichloroethene	ug/kg	ND	<18.0		30	
1,1-Dichloropropene	ug/kg	ND	<21.4		30	
1,2,3-Trichlorobenzene	ug/kg	ND	<20.4		30	
1,2,3-Trichloropropane	ug/kg	ND	<73.5		30	
1,2,4-Trichlorobenzene	ug/kg	ND	<21.9		30	
1,2,4-Trimethylbenzene	ug/kg	ND	<15.6		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	<138		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	<26.7		30	
1,2-Dichlorobenzene	ug/kg	ND	<13.7		30	
1,2-Dichloroethane	ug/kg	ND	<22.4		30	
1,2-Dichloropropane	ug/kg	ND	<24.6		30	
1,3,5-Trimethylbenzene	ug/kg	ND	<54.4		30	
1,3-Dichlorobenzene	ug/kg	ND	<20.9		30	
1,3-Dichloropropane	ug/kg	ND	<84.6		30	
1,4-Dichlorobenzene	ug/kg	ND	<68.5		30	
2,2-Dichloropropane	ug/kg	ND	<75.2		30	
2-Butanone (MEK)	ug/kg	ND	<312		30	
2-Chlorotoluene	ug/kg	ND	<65.2		30	
4-Chlorotoluene	ug/kg	ND	<61.9		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	<156		30	
Acetone	ug/kg	ND	<1550		30	
Allyl chloride	ug/kg	ND	<203		30	
Benzene	ug/kg	ND	<20.4		30	
Bromobenzene	ug/kg	ND	<60.5		30	
Bromochloromethane	ug/kg	ND	<70.4		30	
Bromodichloromethane	ug/kg	ND	<66.2		30	
Bromoform	ug/kg	ND	<204		30	
Bromomethane	ug/kg	ND	<240		30	
Carbon tetrachloride	ug/kg	ND	<74.2		30	
Chlorobenzene	ug/kg	ND	<41.1		30	
Chloroethane	ug/kg	ND	<373		30	
Chloroform	ug/kg	ND	<115		30	
Chloromethane	ug/kg	ND	<114		30	
cis-1,2-Dichloroethene	ug/kg	ND	<87.9		30	
cis-1,3-Dichloropropene	ug/kg	ND	<108		30	
Dibromochloromethane	ug/kg	ND	<203		30	
Dibromomethane	ug/kg	ND	<92.2		30	
Dichlorodifluoromethane	ug/kg	ND	<72.3		30	
Dichlorofluoromethane	ug/kg	ND	<648		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	<97.4		30	
Ethylbenzene	ug/kg	ND	<75.2		30	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

SAMPLE DUPLICATE: 2468587

Parameter	Units	10372438002 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	<222		30	
Isopropylbenzene (Cumene)	ug/kg	ND	<84.1		30	
Methyl-tert-butyl ether	ug/kg	ND	<44.2		30	
Methylene Chloride	ug/kg	ND	<438		30	
n-Butylbenzene	ug/kg	ND	<57.2		30	
n-Propylbenzene	ug/kg	ND	<70.4		30	
Naphthalene	ug/kg	ND	<57.2		30	
p-Isopropyltoluene	ug/kg	ND	<39.2		30	
sec-Butylbenzene	ug/kg	ND	<55.8		30	
Styrene	ug/kg	ND	<61.5		30	
tert-Butylbenzene	ug/kg	ND	<74.7		30	
Tetrachloroethene	ug/kg	ND	<90.3		30	
Tetrahydrofuran	ug/kg	ND	<1170		30	
Toluene	ug/kg	ND	<75.2		30	
trans-1,2-Dichloroethene	ug/kg	ND	<114		30	
trans-1,3-Dichloropropene	ug/kg	ND	<80.4		30	
Trichloroethene	ug/kg	ND	<67.6		30	
Trichlorofluoromethane	ug/kg	ND	<237		30	
Vinyl chloride	ug/kg	ND	<30.4		30	
Xylene (Total)	ug/kg	ND	<189		30	
1,2-Dichloroethane-d4 (S)	%.	99	99	20		
4-Bromofluorobenzene (S)	%.	104	102	17		
Toluene-d8 (S)	%.	102	101	18		

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev  
Pace Project No.: 10372445

QC Batch: 451007 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10372445019

METHOD BLANK: 2469610 Matrix: Solid  
Associated Lab Samples: 10372445019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/09/16 18:33	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/09/16 18:33	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/09/16 18:33	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/09/16 18:33	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/09/16 18:33	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/09/16 18:33	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/09/16 18:33	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/09/16 18:33	
1,2,3-Trichlorobenzene	ug/kg	<14.4	14.4	12/09/16 18:33	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/09/16 18:33	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/09/16 18:33	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/09/16 18:33	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/09/16 18:33	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/09/16 18:33	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/09/16 18:33	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/09/16 18:33	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/09/16 18:33	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/09/16 18:33	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/09/16 18:33	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/09/16 18:33	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/09/16 18:33	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/09/16 18:33	
2-Butanone (MEK)	ug/kg	<220	220	12/09/16 18:33	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/09/16 18:33	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/09/16 18:33	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/09/16 18:33	
Acetone	ug/kg	<1090	1090	12/09/16 18:33	
Allyl chloride	ug/kg	<143	143	12/09/16 18:33	
Benzene	ug/kg	<14.4	14.4	12/09/16 18:33	
Bromobenzene	ug/kg	<42.6	42.6	12/09/16 18:33	
Bromochloromethane	ug/kg	<49.6	49.6	12/09/16 18:33	
Bromodichloromethane	ug/kg	<46.6	46.6	12/09/16 18:33	
Bromoform	ug/kg	<144	144	12/09/16 18:33	
Bromomethane	ug/kg	<169	169	12/09/16 18:33	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/09/16 18:33	
Chlorobenzene	ug/kg	<29.0	29.0	12/09/16 18:33	
Chloroethane	ug/kg	<263	263	12/09/16 18:33	
Chloroform	ug/kg	<80.9	80.9	12/09/16 18:33	
Chloromethane	ug/kg	<80.6	80.6	12/09/16 18:33	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/09/16 18:33	
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/09/16 18:33	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev  
Pace Project No.: 10372445

METHOD BLANK: 2469610 Matrix: Solid  
Associated Lab Samples: 10372445019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<143	143	12/09/16 18:33	
Dibromomethane	ug/kg	<64.9	64.9	12/09/16 18:33	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/09/16 18:33	
Dichlorofluoromethane	ug/kg	<456	456	12/09/16 18:33	
Diethyl ether (Ethyl ether)	ug/kg	<68.6	68.6	12/09/16 18:33	
Ethylbenzene	ug/kg	<52.9	52.9	12/09/16 18:33	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/09/16 18:33	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/09/16 18:33	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/09/16 18:33	
Methylene Chloride	ug/kg	<308	308	12/09/16 18:33	
n-Butylbenzene	ug/kg	<40.3	40.3	12/09/16 18:33	
n-Propylbenzene	ug/kg	<49.6	49.6	12/09/16 18:33	
Naphthalene	ug/kg	<40.3	40.3	12/09/16 18:33	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/09/16 18:33	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/09/16 18:33	
Styrene	ug/kg	<43.3	43.3	12/09/16 18:33	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/09/16 18:33	
Tetrachloroethene	ug/kg	<63.6	63.6	12/09/16 18:33	
Tetrahydrofuran	ug/kg	<826	826	12/09/16 18:33	
Toluene	ug/kg	<52.9	52.9	12/09/16 18:33	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/09/16 18:33	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/09/16 18:33	
Trichloroethene	ug/kg	<47.6	47.6	12/09/16 18:33	
Trichlorofluoromethane	ug/kg	<167	167	12/09/16 18:33	
Vinyl chloride	ug/kg	<21.4	21.4	12/09/16 18:33	
Xylene (Total)	ug/kg	<133	133	12/09/16 18:33	
1,2-Dichloroethane-d4 (S)	%	94	75-129	12/09/16 18:33	
4-Bromofluorobenzene (S)	%	96	75-125	12/09/16 18:33	
Toluene-d8 (S)	%	98	75-125	12/09/16 18:33	

LABORATORY CONTROL SAMPLE: 2469611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	938	94	71-127	
1,1,1-Trichloroethane	ug/kg	1000	949	95	64-132	
1,1,2,2-Tetrachloroethane	ug/kg	1000	887	89	50-138	
1,1,2-Trichloroethane	ug/kg	1000	881	88	69-126	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	907	91	53-144	
1,1-Dichloroethane	ug/kg	1000	911	91	61-134	
1,1-Dichloroethene	ug/kg	1000	918	92	57-135	
1,1-Dichloropropene	ug/kg	1000	991	99	59-133	
1,2,3-Trichlorobenzene	ug/kg	1000	897	90	32-150	
1,2,3-Trichloropropane	ug/kg	1000	889	89	62-130	
1,2,4-Trichlorobenzene	ug/kg	1000	966	97	38-138	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

LABORATORY CONTROL SAMPLE: 2469611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	942	94	70-127	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2000	80	40-141	
1,2-Dibromoethane (EDB)	ug/kg	1000	873	87	69-130	
1,2-Dichlorobenzene	ug/kg	1000	944	94	72-125	
1,2-Dichloroethane	ug/kg	1000	875	88	62-125	
1,2-Dichloropropane	ug/kg	1000	965	97	67-126	
1,3,5-Trimethylbenzene	ug/kg	1000	937	94	71-129	
1,3-Dichlorobenzene	ug/kg	1000	942	94	72-126	
1,3-Dichloropropane	ug/kg	1000	939	94	70-125	
1,4-Dichlorobenzene	ug/kg	1000	930	93	70-126	
2,2-Dichloropropane	ug/kg	1000	927	93	48-134	
2-Butanone (MEK)	ug/kg	5000	3990	80	38-149	
2-Chlorotoluene	ug/kg	1000	896	90	71-129	
4-Chlorotoluene	ug/kg	1000	971	97	72-128	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4310	86	52-145	
Acetone	ug/kg	5000	4900	98	65-142	
Allyl chloride	ug/kg	1000	886	89	54-125	
Benzene	ug/kg	1000	950	95	64-125	
Bromobenzene	ug/kg	1000	909	91	70-125	
Bromochloromethane	ug/kg	1000	951	95	68-125	
Bromodichloromethane	ug/kg	1000	975	98	67-125	
Bromoform	ug/kg	1000	801	80	56-127	
Bromomethane	ug/kg	1000	940	94	34-137	
Carbon tetrachloride	ug/kg	1000	924	92	58-138	
Chlorobenzene	ug/kg	1000	904	90	72-125	
Chloroethane	ug/kg	1000	805	80	39-148	
Chloroform	ug/kg	1000	854	85	67-125	
Chloromethane	ug/kg	1000	800	80	54-125	
cis-1,2-Dichloroethene	ug/kg	1000	911	91	67-125	
cis-1,3-Dichloropropene	ug/kg	1000	943	94	62-127	
Dibromochloromethane	ug/kg	1000	870	87	67-125	
Dibromomethane	ug/kg	1000	957	96	63-129	
Dichlorodifluoromethane	ug/kg	1000	594	59	34-139	
Dichlorofluoromethane	ug/kg	1000	744	74	36-144	
Diethyl ether (Ethyl ether)	ug/kg	1000	778	78	51-125	
Ethylbenzene	ug/kg	1000	936	94	70-129	
Hexachloro-1,3-butadiene	ug/kg	1000	1010	101	48-126	
Isopropylbenzene (Cumene)	ug/kg	1000	940	94	75-127	
Methyl-tert-butyl ether	ug/kg	1000	968	97	61-125	
Methylene Chloride	ug/kg	1000	965	97	60-126	
n-Butylbenzene	ug/kg	1000	985	98	67-125	
n-Propylbenzene	ug/kg	1000	963	96	72-133	
Naphthalene	ug/kg	1000	815	81	35-147	
p-Isopropyltoluene	ug/kg	1000	945	95	69-127	
sec-Butylbenzene	ug/kg	1000	994	99	70-127	
Styrene	ug/kg	1000	922	92	73-125	
tert-Butylbenzene	ug/kg	1000	1000	100	71-130	

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

LABORATORY CONTROL SAMPLE: 2469611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	1050	105	66-135	
Tetrahydrofuran	ug/kg	10000	9140	91	66-145	
Toluene	ug/kg	1000	972	97	69-125	
trans-1,2-Dichloroethene	ug/kg	1000	981	98	55-135	
trans-1,3-Dichloropropene	ug/kg	1000	924	92	67-125	
Trichloroethene	ug/kg	1000	1030	103	62-141	
Trichlorofluoromethane	ug/kg	1000	825	83	38-150	
Vinyl chloride	ug/kg	1000	937	94	57-131	
Xylene (Total)	ug/kg	3000	2830	94	73-128	
1,2-Dichloroethane-d4 (S)	%			93	75-129	
4-Bromofluorobenzene (S)	%			97	75-125	
Toluene-d8 (S)	%			97	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2469612 2469613

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10372636019 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	ug/kg		1520	2110	1610	2290	106	108	59-135	35	30 R1
1,1,1-Trichloroethane	ug/kg		1520	2110	1580	2130	104	101	51-137	30	30
1,1,1,2-Tetrachloroethane	ug/kg		1520	2110	1610	2140	106	101	40-149	28	30
1,1,2-Trichloroethane	ug/kg		1520	2110	1500	2110	99	100	54-144	34	30 R1
1,1,2-Trichlorotrifluoroethane	ug/kg		1520	2110	1440	1830	95	87	41-150	23	30
1,1-Dichloroethane	ug/kg		1520	2110	1570	2050	103	97	53-131	27	30
1,1-Dichloroethene	ug/kg		1520	2110	1500	1890	99	90	41-133	23	30
1,1-Dichloropropene	ug/kg		1520	2110	1630	2350	107	111	50-139	36	30 R1
1,2,3-Trichlorobenzene	ug/kg		1520	2110	1660	2160	107	101	52-150	26	30
1,2,3-Trichloropropane	ug/kg		1520	2110	1590	2170	104	103	61-137	31	30 R1
1,2,4-Trichlorobenzene	ug/kg		1520	2110	1710	2130	111	100	52-142	22	30
1,2,4-Trimethylbenzene	ug/kg	23.7	1520	2110	1550	2110	100	99	56-142	30	30
1,2-Dibromo-3-chloropropane	ug/kg		3800	5270	4080	4850	108	92	47-143	17	30
1,2-Dibromoethane (EDB)	ug/kg		1520	2110	1530	2260	101	107	57-136	39	30 R1
1,2-Dichlorobenzene	ug/kg		1520	2110	1620	2210	107	105	59-136	31	30 R1
1,2-Dichloroethane	ug/kg		1520	2110	1420	1970	93	93	52-133	32	30 R1
1,2-Dichloropropane	ug/kg		1520	2110	1650	2300	108	109	62-129	33	30 R1
1,3,5-Trimethylbenzene	ug/kg	<15.1	1520	2110	1600	2120	105	100	54-143	28	30
1,3-Dichlorobenzene	ug/kg		1520	2110	1600	2150	105	102	60-137	29	30
1,3-Dichloropropane	ug/kg		1520	2110	1560	2330	102	110	57-138	40	30 R1
1,4-Dichlorobenzene	ug/kg		1520	2110	1520	2140	100	102	51-132	34	30 R1
2,2-Dichloropropane	ug/kg		1520	2110	1510	2120	100	100	50-134	33	30 R1
2-Butanone (MEK)	ug/kg		7600	10600	7030	10300	92	98	46-125	38	30 R1
2-Chlorotoluene	ug/kg		1520	2110	1500	2060	98	98	60-141	32	30 R1
4-Chlorotoluene	ug/kg		1520	2110	1580	2170	104	103	65-135	32	30 R1
4-Methyl-2-pentanone (MIBK)	ug/kg		7600	10600	7580	10400	100	99	47-146	32	30 R1
Acetone	ug/kg		7600	10600	9250	11300	122	107	45-148	20	30

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2469612		2469613									
Parameter	Units	10372636019	MS	MSD	MS	MSD	MS	MSD	% Rec	Max			
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Allyl chloride	ug/kg		1520	2110	1460	1860	96	88	50-135	24	30		
Benzene	ug/kg	11.0J	1520	2110	1650	2250	108	106	41-134	31	30	R1	
Bromobenzene	ug/kg		1520	2110	1530	2100	101	100	59-134	32	30	R1	
Bromochloromethane	ug/kg		1520	2110	1580	2230	104	106	56-127	34	30	R1	
Bromodichloromethane	ug/kg		1520	2110	1560	1960	103	93	55-136	23	30		
Bromoform	ug/kg		1520	2110	1430	2060	94	97	51-139	36	30	R1	
Bromomethane	ug/kg		1520	2110	1330	1770	88	84	35-148	28	30		
Carbon tetrachloride	ug/kg		1520	2110	1570	2140	103	101	50-140	31	30	R1	
Chlorobenzene	ug/kg		1520	2110	1530	2190	100	104	59-133	36	30	R1	
Chloroethane	ug/kg		1520	2110	1330	1620	87	77	30-150	20	30		
Chloroform	ug/kg		1520	2110	1460	2000	96	94	58-128	31	30	R1	
Chloromethane	ug/kg		1520	2110	1200	1590	79	75	38-125	27	30		
cis-1,2-Dichloroethene	ug/kg		1520	2110	1520	2240	100	106	59-125	38	30	R1	
cis-1,3-Dichloropropene	ug/kg		1520	2110	1410	1910	93	91	57-133	30	30		
Dibromochloromethane	ug/kg		1520	2110	1540	2170	101	103	54-141	34	30	R1	
Dibromomethane	ug/kg		1520	2110	1510	2110	100	100	53-134	33	30	R1	
Dichlorodifluoromethane	ug/kg		1520	2110	785	1070	52	51	30-125	31	30	R1	
Dichlorofluoromethane	ug/kg		1520	2110	1230	1620	81	77	30-150	27	30		
Diethyl ether (Ethyl ether)	ug/kg		1520	2110	1270	1680	84	80	46-137	28	30		
Ethylbenzene	ug/kg	<20.8	1520	2110	1610	2240	105	105	56-141	32	30	R1	
Hexachloro-1,3-butadiene	ug/kg		1520	2110	1730	2180	114	103	45-150	23	30		
Isopropylbenzene (Cumene)	ug/kg		1520	2110	1540	2240	102	106	48-141	37	30	R1	
Methyl-tert-butyl ether	ug/kg	<12.3	1520	2110	1720	2180	113	103	53-133	24	30		
Methylene Chloride	ug/kg		1520	2110	1580	2060	103	97	42-135	27	30		
n-Butylbenzene	ug/kg		1520	2110	1620	2220	107	105	52-140	31	30	R1	
n-Propylbenzene	ug/kg		1520	2110	1560	2140	102	101	57-142	31	30	R1	
Naphthalene	ug/kg	25.8J	1520	2110	1590	2150	103	100	41-150	30	30		
p-Isopropyltoluene	ug/kg		1520	2110	1530	2140	101	102	54-139	33	30	R1	
sec-Butylbenzene	ug/kg		1520	2110	1640	2250	108	106	30-150	31	30	R1	
Styrene	ug/kg		1520	2110	1510	2220	99	105	53-137	38	30	R1	
tert-Butylbenzene	ug/kg		1520	2110	1590	2200	104	104	59-138	32	30	R1	
Tetrachloroethene	ug/kg		1520	2110	1680	2350	111	111	53-138	33	30	R1	
Tetrahydrofuran	ug/kg		15200	21100	16700	24300	110	115	50-145	37	30	R1	
Toluene	ug/kg	28.7J	1520	2110	1580	2300	102	108	55-134	37	30	R1	
trans-1,2-Dichloroethene	ug/kg		1520	2110	1710	2110	112	100	44-135	21	30		
trans-1,3-Dichloropropene	ug/kg		1520	2110	1640	2240	108	106	59-139	31	30	R1	
Trichloroethene	ug/kg		1520	2110	1680	2200	110	104	52-143	27	30		
Trichlorofluoromethane	ug/kg		1520	2110	1370	1810	90	86	30-150	28	30		
Vinyl chloride	ug/kg		1520	2110	1370	1770	90	84	36-127	25	30		
Xylene (Total)	ug/kg	<52.4	4560	6330	4780	6660	105	105	56-137	33	30	RS	
1,2-Dichloroethane-d4 (S)	%						94	94	75-129				
4-Bromofluorobenzene (S)	%						96	97	75-125				
Toluene-d8 (S)	%						94	101	75-125				

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev  
Pace Project No.: 10372445

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QC Batch: 451054 Analysis Method: EPA 8270D by SIM  
QC Batch Method: EPA 3550 Analysis Description: 8270D Solid PAH by SIM MSSV  
Associated Lab Samples: 10372445001, 10372445002, 10372445003, 10372445004, 10372445005, 10372445006, 10372445007, 10372445008, 10372445009, 10372445010, 10372445011, 10372445012, 10372445013, 10372445014, 10372445015, 10372445016, 10372445017, 10372445018, 10372445019

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METHOD BLANK: 2469756 Matrix: Solid  
Associated Lab Samples: 10372445001, 10372445002, 10372445003, 10372445004, 10372445005, 10372445006, 10372445007, 10372445008, 10372445009, 10372445010, 10372445011, 10372445012, 10372445013, 10372445014, 10372445015, 10372445016, 10372445017, 10372445018, 10372445019

Parameter	Units	Blank Reporting		Analyzed	Qualifiers
		Result	Limit		
Acenaphthene	ug/kg	<1.3	1.3	12/18/16 18:15	
Acenaphthylene	ug/kg	<0.91	0.91	12/18/16 18:15	
Anthracene	ug/kg	<1.5	1.5	12/18/16 18:15	
Benzo(a)anthracene	ug/kg	<1.6	1.6	12/18/16 18:15	
Benzo(a)pyrene	ug/kg	<1.2	1.2	12/18/16 18:15	
Benzo(b)fluoranthene	ug/kg	<1.9	1.9	12/18/16 18:15	
Benzo(g,h,i)perylene	ug/kg	<1.5	1.5	12/18/16 18:15	
Benzo(k)fluoranthene	ug/kg	<1.6	1.6	12/18/16 18:15	
Chrysene	ug/kg	<1.8	1.8	12/18/16 18:15	
Dibenz(a,h)anthracene	ug/kg	<1.1	1.1	12/18/16 18:15	
Fluoranthene	ug/kg	<2.6	2.6	12/18/16 18:15	
Fluorene	ug/kg	<1.3	1.3	12/18/16 18:15	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.5	2.5	12/18/16 18:15	
Naphthalene	ug/kg	<1.2	1.2	12/18/16 18:15	
Phenanthrene	ug/kg	<1.3	1.3	12/18/16 18:15	
Pyrene	ug/kg	<2.8	2.8	12/18/16 18:15	
2-Fluorobiphenyl (S)	%	94	41-125	12/18/16 18:15	
p-Terphenyl-d14 (S)	%	74	39-125	12/18/16 18:15	

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LABORATORY CONTROL SAMPLE: 2469757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthylene	ug/kg	33.3	27.1	81	50-125	
Anthracene	ug/kg	33.3	28.7	86	60-125	
Benzo(a)anthracene	ug/kg	33.3	25.7	77	63-125	
Benzo(a)pyrene	ug/kg	33.3	30.1	90	65-125	
Benzo(b)fluoranthene	ug/kg	33.3	29.3	88	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	29.6	89	62-125	
Benzo(k)fluoranthene	ug/kg	33.3	31.6	95	65-125	
Chrysene	ug/kg	33.3	30.2	91	62-125	
Dibenz(a,h)anthracene	ug/kg	33.3	29.2	88	61-125	
Fluoranthene	ug/kg	33.3	28.8	86	64-125	
Fluorene	ug/kg	33.3	29.0	87	57-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	30.4	91	61-125	
Naphthalene	ug/kg	33.3	29.6	89	52-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

LABORATORY CONTROL SAMPLE: 2469757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	33.3	26.8	80	58-125	
Pyrene	ug/kg	33.3	27.0	81	65-125	
2-Fluorobiphenyl (S)	%.			89	41-125	
p-Terphenyl-d14 (S)	%.			73	39-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2469758 2469759

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10372445001 Result	Spike Conc.	Spike Conc.	Conc.								
Acenaphthene	ug/kg	9.3	58.8	58.8	53.0	55.7	74	79	53-125	5	30		
Acenaphthylene	ug/kg	<1.6	58.8	58.8	51.3	55.2	87	94	50-125	7	30		
Anthracene	ug/kg	27.5	58.8	58.8	71.0	75.8	74	82	60-125	7	30		
Benzo(a)anthracene	ug/kg	51.6	58.8	58.8	105	104	91	89	63-125	1	30		
Benzo(a)pyrene	ug/kg	56.6	58.8	58.8	114	108	98	88	65-125	5	30		
Benzo(b)fluoranthene	ug/kg	67.8	58.8	58.8	129	129	103	104	61-125	0	30		
Benzo(g,h,i)perylene	ug/kg	40.2	58.8	58.8	88.7	89.7	82	84	62-125	1	30		
Benzo(k)fluoranthene	ug/kg	35.4	58.8	58.8	79.7	78.7	75	74	65-125	1	30		
Chrysene	ug/kg	58.7	58.8	58.8	112	109	90	85	62-125	3	30		
Dibenz(a,h)anthracene	ug/kg	13.7	58.8	58.8	47.3	49.5	57	61	61-125	5	30	M1	
Fluoranthene	ug/kg	117	58.8	58.8	185	172	116	92	64-125	8	30		
Fluorene	ug/kg	11.7	58.8	58.8	58.2	60.8	79	84	57-125	4	30		
Indeno(1,2,3-cd)pyrene	ug/kg	35.6	58.8	58.8	80.2	81.3	76	78	61-125	1	30		
Naphthalene	ug/kg	13.7	58.8	58.8	60.2	59.4	79	78	52-125	1	30		
Phenanthrene	ug/kg	72.3	58.8	58.8	129	121	96	82	58-125	6	30		
Pyrene	ug/kg	96.6	58.8	58.8	160	152	108	94	65-125	5	30		
2-Fluorobiphenyl (S)	%.						71	80	41-125				
p-Terphenyl-d14 (S)	%.						61	71	39-125				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

### BATCH QUALIFIERS

Batch: 451591

[1] LCSD reporting for LCS, no volume remaining for LCS RR/conf.

### ANALYTE QUALIFIERS

1M The sample could not achieve the 1:1 ratio of soil to methanol due to excessive sample weight.

D4 Sample was diluted due to the presence of high levels of target analytes.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

RS The RPD value in one of the constituent analytes was outside the control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10372445001	S-3_24.5-25	EPA 3050	452671	EPA 6010C	452917
10372445002	S-2_25-27.5	EPA 3050	452671	EPA 6010C	452917
10372445003	S-4_23.5-24	EPA 3050	452671	EPA 6010C	452917
10372445004	S-4_24-26.5	EPA 3050	452671	EPA 6010C	452917
10372445005	S-5_24-24.5	EPA 3050	452671	EPA 6010C	452917
10372445006	S-5_24.5-25.5	EPA 3050	452671	EPA 6010C	452917
10372445007	S-6_23-23.5	EPA 3050	452671	EPA 6010C	452917
10372445008	S-6_23.5-24.5	EPA 3050	452671	EPA 6010C	452917
10372445009	S-7_23-23.5	EPA 3050	452671	EPA 6010C	452917
10372445010	S7_23.5-26	EPA 3050	452671	EPA 6010C	452917
10372445011	S8_23.5-24	EPA 3050	452671	EPA 6010C	452917
10372445012	S8_24-25	EPA 3050	452671	EPA 6010C	452917
10372445013	S-9_24-24.5	EPA 3050	452671	EPA 6010C	452917
10372445014	S-9_24.5-25	EPA 3050	452671	EPA 6010C	452917
10372445015	S-9_25-26	EPA 3050	452671	EPA 6010C	452917
10372445016	S-10_23.5-24	EPA 3050	452671	EPA 6010C	452917
10372445017	S-10_24-25	EPA 3050	452671	EPA 6010C	452917
10372445018	S7_23.5-26 DUP	EPA 3050	450962	EPA 6010C	452237
10372445019	S8_23.5-24 DUP	EPA 3050	450962	EPA 6010C	452237
10372445001	S-3_24.5-25	EPA 7471B	450765	EPA 7471B	452291
10372445002	S-2_25-27.5	EPA 7471B	450765	EPA 7471B	452291
10372445003	S-4_23.5-24	EPA 7471B	450765	EPA 7471B	452291
10372445004	S-4_24-26.5	EPA 7471B	450765	EPA 7471B	452291
10372445005	S-5_24-24.5	EPA 7471B	450765	EPA 7471B	452291
10372445006	S-5_24.5-25.5	EPA 7471B	450765	EPA 7471B	452291
10372445007	S-6_23-23.5	EPA 7471B	450765	EPA 7471B	452291
10372445008	S-6_23.5-24.5	EPA 7471B	450765	EPA 7471B	452291
10372445009	S-7_23-23.5	EPA 7471B	450765	EPA 7471B	452291
10372445010	S7_23.5-26	EPA 7471B	450765	EPA 7471B	452291
10372445011	S8_23.5-24	EPA 7471B	450765	EPA 7471B	452291
10372445012	S8_24-25	EPA 7471B	450765	EPA 7471B	452291
10372445013	S-9_24-24.5	EPA 7471B	450765	EPA 7471B	452291
10372445014	S-9_24.5-25	EPA 7471B	450765	EPA 7471B	452291
10372445015	S-9_25-26	EPA 7471B	450765	EPA 7471B	452291
10372445016	S-10_23.5-24	EPA 7471B	450765	EPA 7471B	452291
10372445017	S-10_24-25	EPA 7471B	450765	EPA 7471B	452291
10372445018	S7_23.5-26 DUP	EPA 7471B	450976	EPA 7471B	452289
10372445019	S8_23.5-24 DUP	EPA 7471B	450976	EPA 7471B	452289
10372445001	S-3_24.5-25	ASTM D2974	452613		
10372445002	S-2_25-27.5	ASTM D2974	452613		
10372445003	S-4_23.5-24	ASTM D2974	452613		
10372445004	S-4_24-26.5	ASTM D2974	452613		
10372445005	S-5_24-24.5	ASTM D2974	452613		
10372445006	S-5_24.5-25.5	ASTM D2974	452613		
10372445007	S-6_23-23.5	ASTM D2974	452613		
10372445008	S-6_23.5-24.5	ASTM D2974	452613		
10372445009	S-7_23-23.5	ASTM D2974	452613		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10372445010	S7_23.5-26	ASTM D2974	452613		
10372445011	S8_23.5-24	ASTM D2974	452613		
10372445012	S8_24-25	ASTM D2974	452613		
10372445013	S-9_24-24.5	ASTM D2974	452613		
10372445014	S-9_24.5-25	ASTM D2974	452613		
10372445015	S-9_25-26	ASTM D2974	452613		
10372445016	S-10_23.5-24	ASTM D2974	452613		
10372445017	S-10_24-25	ASTM D2974	452613		
10372445018	S7_23.5-26 DUP	ASTM D2974	452617		
10372445019	S8_23.5-24 DUP	ASTM D2974	452617		
10372445001	S-3_24.5-25	EPA 3550	451054	EPA 8270D by SIM	452301
10372445002	S-2_25-27.5	EPA 3550	451054	EPA 8270D by SIM	452301
10372445003	S-4_23.5-24	EPA 3550	451054	EPA 8270D by SIM	452301
10372445004	S-4_24-26.5	EPA 3550	451054	EPA 8270D by SIM	452301
10372445005	S-5_24-24.5	EPA 3550	451054	EPA 8270D by SIM	452301
10372445006	S-5_24.5-25.5	EPA 3550	451054	EPA 8270D by SIM	452301
10372445007	S-6_23-23.5	EPA 3550	451054	EPA 8270D by SIM	452301
10372445008	S-6_23.5-24.5	EPA 3550	451054	EPA 8270D by SIM	452301
10372445009	S-7_23-23.5	EPA 3550	451054	EPA 8270D by SIM	452301
10372445010	S7_23.5-26	EPA 3550	451054	EPA 8270D by SIM	452301
10372445011	S8_23.5-24	EPA 3550	451054	EPA 8270D by SIM	452301
10372445012	S8_24-25	EPA 3550	451054	EPA 8270D by SIM	452301
10372445013	S-9_24-24.5	EPA 3550	451054	EPA 8270D by SIM	452301
10372445014	S-9_24.5-25	EPA 3550	451054	EPA 8270D by SIM	452301
10372445015	S-9_25-26	EPA 3550	451054	EPA 8270D by SIM	452301
10372445016	S-10_23.5-24	EPA 3550	451054	EPA 8270D by SIM	452301
10372445017	S-10_24-25	EPA 3550	451054	EPA 8270D by SIM	452301
10372445018	S7_23.5-26 DUP	EPA 3550	451054	EPA 8270D by SIM	452301
10372445019	S8_23.5-24 DUP	EPA 3550	451054	EPA 8270D by SIM	452301
10372445001	S-3_24.5-25	EPA 5035/5030B	450789	EPA 8260B	451366
10372445002	S-2_25-27.5	EPA 5035/5030B	450789	EPA 8260B	451366
10372445003	S-4_23.5-24	EPA 5035/5030B	450789	EPA 8260B	451366
10372445004	S-4_24-26.5	EPA 5035/5030B	450789	EPA 8260B	451366
10372445005	S-5_24-24.5	EPA 5035/5030B	450789	EPA 8260B	451366
10372445006	S-5_24.5-25.5	EPA 5035/5030B	450789	EPA 8260B	451366
10372445007	S-6_23-23.5	EPA 5035/5030B	450789	EPA 8260B	451366
10372445008	S-6_23.5-24.5	EPA 5035/5030B	450789	EPA 8260B	451366
10372445009	S-7_23-23.5	EPA 5035/5030B	450795	EPA 8260B	451591
10372445010	S7_23.5-26	EPA 5035/5030B	450795	EPA 8260B	451591
10372445011	S8_23.5-24	EPA 5035/5030B	450795	EPA 8260B	451591
10372445012	S8_24-25	EPA 5035/5030B	450795	EPA 8260B	451591
10372445013	S-9_24-24.5	EPA 5035/5030B	450795	EPA 8260B	451591
10372445014	S-9_24.5-25	EPA 5035/5030B	450862	EPA 8260B	451369
10372445015	S-9_25-26	EPA 5035/5030B	450862	EPA 8260B	451369
10372445016	S-10_23.5-24	EPA 5035/5030B	450862	EPA 8260B	451369
10372445017	S-10_24-25	EPA 5035/5030B	450862	EPA 8260B	451369

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2118-0002 SWLP\_Rev

Pace Project No.: 10372445

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<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
<b>10372445018</b>	<b>S7_23.5-26 DUP</b>	EPA 5035/5030B	450862	EPA 8260B	451369
<b>10372445019</b>	<b>S8_23.5-24 DUP</b>	EPA 5035/5030B	451007	EPA 8260B	451373

### REPORT OF LABORATORY ANALYSIS

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**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



**Section A**  
Required Client Information:  
Company: Summit Environmental Solutions  
Address: 1217 Beavertown Blvd.  
St. Paul, MN  
Email To: Bill Gregg  
Phone: 715-507-5081  
Requested Due Date/TAT: \_\_\_\_\_

**Section B**  
Required Project Information:  
Report To: Bill Gregg  
Copy To: \_\_\_\_\_  
Purchase Order No.: SWLP  
Project Name: SWLP  
Project Number: 2118-0002

**Section C**  
Invoice Information:  
Attention: Bill Gregg  
Company Name: Summit  
Address: \_\_\_\_\_  
Pace Quote Reference: \_\_\_\_\_  
Pace Project Manager: \_\_\_\_\_  
Pace Profile #: 25777

**REGULATORY AGENCY**  
NPDES  GROUND WATER  DRINKING WATER   
UST  RCRA  OTHER   
Site Location: \_\_\_\_\_  
STATE: \_\_\_\_\_

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	Temp in °C	Received on	Sealed Cooler	Samples Intact						
					COMPOSITE START	COMPOSITE END/GRAB															
1	S-3 24.5-25	DW	04/16 0845		5			Unpreserved													
2	S-3 25-27.5	WT	04/16 0915		1			HNO <sub>3</sub>													
3	S-4 23.5-24	WW	1000		1			HCl													
4	S-4 24-26.5	P	1030		1			Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub>													
5	S-5 24-24.5	SL	1150		1			NaOH													
6	S-5 24.5-25.5	OL	1145		1			HCl													
7	S-6 23-23.5	WP	1215		1			HNO <sub>3</sub>													
8	S-6 23.5-24.5	AR	1230		1			H <sub>2</sub> SO <sub>4</sub>													
9	S-7 23-23.5	TS	1315		1			Unpreserved													
10	S-7 23.5-26 (plus dup)	OT	1330		1																
11	S-8 23.5-24 (plus dup)		1400		1																
12	S-8 24-25		1430		1																
ADDITIONAL COMMENTS												DATE	TIME	DATE	TIME	DATE	TIME				
Kyle Pennis / Summit												12/16/16	1855	Kristina Polson	12/16/16	1855	2.4	N	N	Y	
Kristina Polson												12/16/16	1855		12/16/16	1855					
KPN												12/16/16	1855		12/16/16	1855	4.6	Y	N	Y	

**ORIGINAL**

SAMPLER NAME AND SIGNATURE  
PRINT Name of SAMPLER: Kyle Pennis  
SIGNATURE of SAMPLER: [Signature]

DATE Signed (MM/DD/YY): 12/16/16



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2  
 2083087

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <u>Summit Environmental</u>	Report To: <u>B. Gregg</u>	Company Name: <u>B. Gregg</u>	Attention: <u>B. Gregg</u>	Address: _____	REGULATORY AGENCY: _____
Address: _____	Copy To: _____	Address: _____	Company Name: _____	NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/>	UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER <input type="checkbox"/>
Email To: <u>bgregg@summite.com</u>	Purchase Order No.: _____	Pace Quote Reference: _____	Pace Project Manager: _____	Site Location: _____	STATE: _____
Phone: _____	Project Name: <u>Superior MGP</u>	Pace Profile #: _____	Requested Due Date/TAT: <u>std</u>		
Requested Due Date/TAT: <u>std</u>	Project Number: <u>Z11B-0002</u>				

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test ↑ Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB							
1	<u>S-9-24-24.5</u>	Drinking Water DW				<u>12/16/16</u>	<u>1445</u>						<u>013</u>
2	<u>S-9-24.5-25</u>	Water WT					<u>1515</u>						<u>014</u>
3	<u>S-9-25-26</u>	Waste Water WW					<u>1530</u>						<u>015</u>
4	<u>S-10-23.5-24</u>	Product P					<u>1550</u>						<u>016</u>
5	<u>S-10-24-25</u>	Soil/Solid SL					<u>1600</u>						<u>017</u>
6		Oil OL											
7		Wipe WP											
8		Air AR											
9		Tissue TS											
10		Other OT											
11													
12													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS	
	DATE	TIME	DATE	TIME	Ice (Y/N)	Temp in °C
<u>William H. Hayes / Summit 12/16/16</u>	<u>1635</u>	<u>12/16/16</u>	<u>Kristina Polson</u>	<u>1655</u>	<u>2.4</u>	<u>N</u>
<u>Kristina Polson</u>	<u>1815</u>	<u>12/16/16</u>	<u>Summit</u>	<u>1815</u>		<u>N</u>
<u>Summit</u>	<u>1800</u>	<u>12/16/16</u>	<u>Summit</u>	<u>1800</u>	<u>4.6</u>	<u>N</u>

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Kyle Roman DATE Signed (MM/DD/YY): 12/16/16

SIGNATURE of SAMPLER: [Signature]


ORIGINAL

Page 103 of 104

**Sample Condition Upon Receipt**

**Client Name:** Summit Enviro Solutions      **Project #:** \_\_\_\_\_

WO#: 10372445



10372445

**Courier:**       Fed Ex       UPS       USPS       Client  
 Commercial       Pace       SpeedDee       Other: \_\_\_\_\_

**Tracking Number:** \_\_\_\_\_

**Custody Seal on Cooler/Box Present?**     Yes     No      **Seals Intact?**     Yes     No      **Optional:**    Proj. Due Date: \_\_\_\_\_    Proj. Name: \_\_\_\_\_

**Packing Material:**     Bubble Wrap     Bubble Bags     None     Other: \_\_\_\_\_      **Temp Blank?**     Yes     No

**Thermometer Used:**     151401163       B88A912167504  
 151401164       B88A0143310098      **Type of Ice:**     Wet     Blue     None     Samples on ice, cooling process has begun

**Cooler Temp Read (°C):** 4.6      **Cooler Temp Corrected (°C):** 4.6      **Biological Tissue Frozen?**     Yes     No     N/A  
Temp should be above freezing to 6°C      **Correction Factor:** True      **Date and Initials of Person Examining Contents:** PC 12-07-16

**USDA Regulated Soil** (  N/A, water sample)  
Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?     Yes     No      Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?     Yes     No  
**If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.**

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
<b>Short Hold Time Analysis (&lt;72 hr)?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
<b>Rush Turn Around Time Requested?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? <u>SL</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix: _____	
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH>9 Sulfide, NaOH>12 Cyanide) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: _____      Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____	

**CLIENT NOTIFICATION/RESOLUTION**

**Field Data Required?**     Yes     No

**Person Contacted:** \_\_\_\_\_      **Date/Time:** \_\_\_\_\_  
**Comments/Resolution:** \_\_\_\_\_

**Project Manager Review:** \_\_\_\_\_      **Date:** \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

January 12, 2017

Bill Gregg  
Summit Envirosolutions  
1217 Bandana Blvd  
Saint Paul, MN 55108

RE: Project: 2118-0002 Superior MGP\_rev  
Pace Project No.: 10372447

Dear Bill Gregg:

Enclosed are the analytical results for sample(s) received by the laboratory on December 06, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised on January 12, 2017 to change report format per client's request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Sarah Platzter for  
Kabor Xiong  
kabor.xiong@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

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### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

Alaska Certification UST-107

525 N 8th Street, Salina, KS 67401

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN\_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10372447001	S1_24.5-25	Solid	12/05/16 14:00	12/06/16 17:35
10372447002	S1_30-32	Solid	12/05/16 14:15	12/06/16 17:35
10372447003	S2_29.5-32	Solid	12/05/16 15:15	12/06/16 17:35
10372447004	S2_34-35	Solid	12/05/16 15:30	12/06/16 17:35
10372447005	S2_32-34	Solid	12/05/16 15:15	12/06/16 17:35
10372447006	S2_29-29.5	Solid	12/05/16 15:00	12/06/16 17:35
10372447007	Trip Blank	Solid	12/05/16 00:00	12/06/16 17:35

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10372447001	S1_24.5-25	EPA 6010C	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10372447002	S1_30-32	EPA 6010C	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10372447003	S2_29.5-32	EPA 6010C	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10372447004	S2_34-35	EPA 6010C	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10372447005	S2_32-34	EPA 6010C	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10372447006	S2_29-29.5	EPA 6010C	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10372447007	Trip Blank	EPA 8260B	CD2	70	PASI-M

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

**Sample: S1\_24.5-25**      **Lab ID: 10372447001**      Collected: 12/05/16 14:00      Received: 12/06/16 17:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	3.6	mg/kg	0.93	0.28	1	12/16/16 07:04	12/19/16 06:27	7440-38-2	
Barium	63.2	mg/kg	0.074	0.022	1	12/16/16 07:04	12/19/16 06:27	7440-39-3	M1
Cadmium	0.16	mg/kg	0.044	0.013	1	12/16/16 07:04	12/19/16 06:27	7440-43-9	
Chromium	17.9	mg/kg	0.48	0.14	1	12/16/16 07:04	12/19/16 06:27	7440-47-3	
Lead	9.2	mg/kg	0.46	0.14	1	12/16/16 07:04	12/19/16 06:27	7439-92-1	
Selenium	<1.3	mg/kg	1.3	0.40	1	12/16/16 07:04	12/19/16 06:27	7782-49-2	
Silver	<0.37	mg/kg	0.37	0.11	1	12/16/16 07:04	12/19/16 06:27	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.051	mg/kg	0.023	0.0068	1	12/16/16 07:05	12/18/16 18:49	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	30.8	%	0.10	0.10	1		12/19/16 09:24		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	<1.9	ug/kg	1.9	0.57	1	12/08/16 15:20	12/15/16 15:52	83-32-9	
Acenaphthylene	<1.3	ug/kg	1.3	0.39	1	12/08/16 15:20	12/15/16 15:52	208-96-8	
Anthracene	31.2	ug/kg	2.2	0.66	1	12/08/16 15:20	12/15/16 15:52	120-12-7	
Benzo(a)anthracene	80.4	ug/kg	2.3	0.68	1	12/08/16 15:20	12/15/16 15:52	56-55-3	
Benzo(a)pyrene	74.7	ug/kg	1.7	0.50	1	12/08/16 15:20	12/15/16 15:52	50-32-8	
Benzo(b)fluoranthene	85.2	ug/kg	2.8	0.83	1	12/08/16 15:20	12/15/16 15:52	205-99-2	
Benzo(g,h,i)perylene	50.5	ug/kg	2.2	0.66	1	12/08/16 15:20	12/15/16 15:52	191-24-2	
Benzo(k)fluoranthene	27.7	ug/kg	2.4	0.71	1	12/08/16 15:20	12/15/16 15:52	207-08-9	
Chrysene	102	ug/kg	2.7	0.80	1	12/08/16 15:20	12/15/16 15:52	218-01-9	
Dibenz(a,h)anthracene	<1.6	ug/kg	1.6	0.47	1	12/08/16 15:20	12/15/16 15:52	53-70-3	
Fluoranthene	151	ug/kg	3.8	1.1	1	12/08/16 15:20	12/15/16 15:52	206-44-0	
Fluorene	15.9	ug/kg	1.8	0.56	1	12/08/16 15:20	12/15/16 15:52	86-73-7	
Indeno(1,2,3-cd)pyrene	37.2	ug/kg	3.6	1.1	1	12/08/16 15:20	12/15/16 15:52	193-39-5	
Naphthalene	22.8	ug/kg	1.7	0.52	1	12/08/16 15:20	12/15/16 15:52	91-20-3	
Phenanthrene	83.8	ug/kg	1.9	0.58	1	12/08/16 15:20	12/15/16 15:52	85-01-8	
Pyrene	163	ug/kg	4.0	1.2	1	12/08/16 15:20	12/15/16 15:52	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	78	%	41-125		1	12/08/16 15:20	12/15/16 15:52	321-60-8	
p-Terphenyl-d14 (S)	66	%	39-125		1	12/08/16 15:20	12/15/16 15:52	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1630	ug/kg	1630	490	1	12/08/16 13:13	12/12/16 15:09	67-64-1	
Allyl chloride	<213	ug/kg	213	64.1	1	12/08/16 13:13	12/12/16 15:09	107-05-1	
Benzene	<21.5	ug/kg	21.5	6.5	1	12/08/16 13:13	12/12/16 15:09	71-43-2	
Bromobenzene	<63.7	ug/kg	63.7	19.1	1	12/08/16 13:13	12/12/16 15:09	108-86-1	
Bromochloromethane	<74.1	ug/kg	74.1	22.3	1	12/08/16 13:13	12/12/16 15:09	74-97-5	
Bromodichloromethane	<69.7	ug/kg	69.7	20.9	1	12/08/16 13:13	12/12/16 15:09	75-27-4	
Bromoform	<214	ug/kg	214	64.4	1	12/08/16 13:13	12/12/16 15:09	75-25-2	
Bromomethane	<252	ug/kg	252	75.8	1	12/08/16 13:13	12/12/16 15:09	74-83-9	
2-Butanone (MEK)	<328	ug/kg	328	98.6	1	12/08/16 13:13	12/12/16 15:09	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

Sample: S1\_24.5-25 Lab ID: 10372447001 Collected: 12/05/16 14:00 Received: 12/06/16 17:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<60.2	ug/kg	60.2	18.1	1	12/08/16 13:13	12/12/16 15:09	104-51-8	
sec-Butylbenzene	<58.7	ug/kg	58.7	17.6	1	12/08/16 13:13	12/12/16 15:09	135-98-8	
tert-Butylbenzene	<78.6	ug/kg	78.6	23.6	1	12/08/16 13:13	12/12/16 15:09	98-06-6	
Carbon tetrachloride	<78.1	ug/kg	78.1	23.5	1	12/08/16 13:13	12/12/16 15:09	56-23-5	
Chlorobenzene	<43.3	ug/kg	43.3	13.0	1	12/08/16 13:13	12/12/16 15:09	108-90-7	
Chloroethane	<393	ug/kg	393	118	1	12/08/16 13:13	12/12/16 15:09	75-00-3	
Chloroform	<121	ug/kg	121	36.3	1	12/08/16 13:13	12/12/16 15:09	67-66-3	
Chloromethane	<120	ug/kg	120	36.2	1	12/08/16 13:13	12/12/16 15:09	74-87-3	
2-Chlorotoluene	<68.7	ug/kg	68.7	20.6	1	12/08/16 13:13	12/12/16 15:09	95-49-8	
4-Chlorotoluene	<65.2	ug/kg	65.2	19.6	1	12/08/16 13:13	12/12/16 15:09	106-43-4	
1,2-Dibromo-3-chloropropane	<146	ug/kg	146	146	1	12/08/16 13:13	12/12/16 15:09	96-12-8	
Dibromochloromethane	<213	ug/kg	213	64.1	1	12/08/16 13:13	12/12/16 15:09	124-48-1	
1,2-Dibromoethane (EDB)	<28.1	ug/kg	28.1	28.1	1	12/08/16 13:13	12/12/16 15:09	106-93-4	
Dibromomethane	<97.0	ug/kg	97.0	29.1	1	12/08/16 13:13	12/12/16 15:09	74-95-3	
1,2-Dichlorobenzene	<14.4	ug/kg	14.4	14.4	1	12/08/16 13:13	12/12/16 15:09	95-50-1	
1,3-Dichlorobenzene	<22.0	ug/kg	22.0	14.4	1	12/08/16 13:13	12/12/16 15:09	541-73-1	
1,4-Dichlorobenzene	<72.2	ug/kg	72.2	21.7	1	12/08/16 13:13	12/12/16 15:09	106-46-7	
Dichlorodifluoromethane	<76.1	ug/kg	76.1	22.9	1	12/08/16 13:13	12/12/16 15:09	75-71-8	
1,1-Dichloroethane	<29.0	ug/kg	29.0	29.0	1	12/08/16 13:13	12/12/16 15:09	75-34-3	
1,2-Dichloroethane	<23.6	ug/kg	23.6	23.6	1	12/08/16 13:13	12/12/16 15:09	107-06-2	
1,1-Dichloroethene	<19.0	ug/kg	19.0	19.0	1	12/08/16 13:13	12/12/16 15:09	75-35-4	
cis-1,2-Dichloroethene	<92.6	ug/kg	92.6	27.8	1	12/08/16 13:13	12/12/16 15:09	156-59-2	
trans-1,2-Dichloroethene	<120	ug/kg	120	36.0	1	12/08/16 13:13	12/12/16 15:09	156-60-5	
Dichlorofluoromethane	<682	ug/kg	682	205	1	12/08/16 13:13	12/12/16 15:09	75-43-4	
1,2-Dichloropropane	<25.9	ug/kg	25.9	25.9	1	12/08/16 13:13	12/12/16 15:09	78-87-5	
1,3-Dichloropropane	<89.1	ug/kg	89.1	26.7	1	12/08/16 13:13	12/12/16 15:09	142-28-9	
2,2-Dichloropropane	<79.1	ug/kg	79.1	23.8	1	12/08/16 13:13	12/12/16 15:09	594-20-7	
1,1-Dichloropropene	<22.6	ug/kg	22.6	22.6	1	12/08/16 13:13	12/12/16 15:09	563-58-6	
cis-1,3-Dichloropropene	<113	ug/kg	113	34.1	1	12/08/16 13:13	12/12/16 15:09	10061-01-5	
trans-1,3-Dichloropropene	<84.6	ug/kg	84.6	25.4	1	12/08/16 13:13	12/12/16 15:09	10061-02-6	
Diethyl ether (Ethyl ether)	<103	ug/kg	103	30.8	1	12/08/16 13:13	12/12/16 15:09	60-29-7	
Ethylbenzene	<79.1	ug/kg	79.1	23.8	1	12/08/16 13:13	12/12/16 15:09	100-41-4	
Hexachloro-1,3-butadiene	<234	ug/kg	234	70.2	1	12/08/16 13:13	12/12/16 15:09	87-68-3	
Isopropylbenzene (Cumene)	<88.6	ug/kg	88.6	26.6	1	12/08/16 13:13	12/12/16 15:09	98-82-8	
p-Isopropyltoluene	<41.3	ug/kg	41.3	12.4	1	12/08/16 13:13	12/12/16 15:09	99-87-6	
Methylene Chloride	<461	ug/kg	461	138	1	12/08/16 13:13	12/12/16 15:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	<165	ug/kg	165	49.5	1	12/08/16 13:13	12/12/16 15:09	108-10-1	
Methyl-tert-butyl ether	<46.6	ug/kg	46.6	14.0	1	12/08/16 13:13	12/12/16 15:09	1634-04-4	
Naphthalene	<60.2	ug/kg	60.2	18.1	1	12/08/16 13:13	12/12/16 15:09	91-20-3	
n-Propylbenzene	<74.1	ug/kg	74.1	22.3	1	12/08/16 13:13	12/12/16 15:09	103-65-1	
Styrene	<64.7	ug/kg	64.7	19.4	1	12/08/16 13:13	12/12/16 15:09	100-42-5	
1,1,1,2-Tetrachloroethane	<29.6	ug/kg	29.6	29.6	1	12/08/16 13:13	12/12/16 15:09	630-20-6	
1,1,2,2-Tetrachloroethane	<16.6	ug/kg	16.6	16.6	1	12/08/16 13:13	12/12/16 15:09	79-34-5	
Tetrachloroethene	<95.0	ug/kg	95.0	28.5	1	12/08/16 13:13	12/12/16 15:09	127-18-4	
Tetrahydrofuran	<1230	ug/kg	1230	371	1	12/08/16 13:13	12/12/16 15:09	109-99-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

**Sample: S1\_24.5-25**      **Lab ID: 10372447001**      Collected: 12/05/16 14:00      Received: 12/06/16 17:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<b>208</b>	ug/kg	79.1	23.8	1	12/08/16 13:13	12/12/16 15:09	108-88-3	
1,2,3-Trichlorobenzene	<b>&lt;21.5</b>	ug/kg	21.5	21.5	1	12/08/16 13:13	12/12/16 15:09	87-61-6	
1,2,4-Trichlorobenzene	<b>&lt;23.0</b>	ug/kg	23.0	23.0	1	12/08/16 13:13	12/12/16 15:09	120-82-1	
1,1,1-Trichloroethane	<b>&lt;31.2</b>	ug/kg	31.2	31.2	1	12/08/16 13:13	12/12/16 15:09	71-55-6	
1,1,2-Trichloroethane	<b>&lt;16.1</b>	ug/kg	16.1	16.1	1	12/08/16 13:13	12/12/16 15:09	79-00-5	
Trichloroethene	<b>&lt;71.2</b>	ug/kg	71.2	21.4	1	12/08/16 13:13	12/12/16 15:09	79-01-6	
Trichlorofluoromethane	<b>&lt;250</b>	ug/kg	250	75.0	1	12/08/16 13:13	12/12/16 15:09	75-69-4	
1,2,3-Trichloropropane	<b>&lt;77.4</b>	ug/kg	77.4	77.4	1	12/08/16 13:13	12/12/16 15:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;179</b>	ug/kg	179	53.8	1	12/08/16 13:13	12/12/16 15:09	76-13-1	
1,2,4-Trimethylbenzene	<b>&lt;16.4</b>	ug/kg	16.4	16.4	1	12/08/16 13:13	12/12/16 15:09	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;57.2</b>	ug/kg	57.2	17.2	1	12/08/16 13:13	12/12/16 15:09	108-67-8	
Vinyl chloride	<b>&lt;31.9</b>	ug/kg	31.9	9.6	1	12/08/16 13:13	12/12/16 15:09	75-01-4	
Xylene (Total)	<b>&lt;199</b>	ug/kg	199	59.8	1	12/08/16 13:13	12/12/16 15:09	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	92	%	75-129		1	12/08/16 13:13	12/12/16 15:09	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/08/16 13:13	12/12/16 15:09	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/08/16 13:13	12/12/16 15:09	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

**Sample: S1\_30-32**      **Lab ID: 10372447002**      Collected: 12/05/16 14:15      Received: 12/06/16 17:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	4.4	mg/kg	0.86	0.26	1	12/16/16 07:04	12/19/16 06:45	7440-38-2	
Barium	40.3	mg/kg	0.069	0.021	1	12/16/16 07:04	12/19/16 06:45	7440-39-3	
Cadmium	0.39	mg/kg	0.041	0.012	1	12/16/16 07:04	12/19/16 06:45	7440-43-9	
Chromium	14.7	mg/kg	0.45	0.13	1	12/16/16 07:04	12/19/16 06:45	7440-47-3	
Lead	51.6	mg/kg	0.43	0.13	1	12/16/16 07:04	12/19/16 06:45	7439-92-1	
Selenium	<1.2	mg/kg	1.2	0.37	1	12/16/16 07:04	12/19/16 06:45	7782-49-2	
Silver	<0.34	mg/kg	0.34	0.10	1	12/16/16 07:04	12/19/16 06:45	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.16	mg/kg	0.021	0.0062	1	12/16/16 07:05	12/18/16 18:55	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	25.9	%	0.10	0.10	1		12/19/16 09:24		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	149	ug/kg	1.8	0.53	1	12/08/16 15:20	12/15/16 16:12	83-32-9	
Acenaphthylene	26.9	ug/kg	1.2	0.37	1	12/08/16 15:20	12/15/16 16:12	208-96-8	
Anthracene	42.4	ug/kg	2.0	0.61	1	12/08/16 15:20	12/15/16 16:12	120-12-7	
Benzo(a)anthracene	106	ug/kg	2.1	0.63	1	12/08/16 15:20	12/15/16 16:12	56-55-3	
Benzo(a)pyrene	116	ug/kg	1.6	0.47	1	12/08/16 15:20	12/15/16 16:12	50-32-8	
Benzo(b)fluoranthene	108	ug/kg	2.6	0.77	1	12/08/16 15:20	12/15/16 16:12	205-99-2	
Benzo(g,h,i)perylene	71.9	ug/kg	2.1	0.62	1	12/08/16 15:20	12/15/16 16:12	191-24-2	
Benzo(k)fluoranthene	39.8	ug/kg	2.2	0.66	1	12/08/16 15:20	12/15/16 16:12	207-08-9	
Chrysene	98.5	ug/kg	2.5	0.75	1	12/08/16 15:20	12/15/16 16:12	218-01-9	
Dibenz(a,h)anthracene	17.6	ug/kg	1.5	0.44	1	12/08/16 15:20	12/15/16 16:12	53-70-3	
Fluoranthene	160	ug/kg	3.5	1.1	1	12/08/16 15:20	12/15/16 16:12	206-44-0	
Fluorene	64.3	ug/kg	1.7	0.52	1	12/08/16 15:20	12/15/16 16:12	86-73-7	
Indeno(1,2,3-cd)pyrene	55.6	ug/kg	3.4	1.0	1	12/08/16 15:20	12/15/16 16:12	193-39-5	
Naphthalene	47.1	ug/kg	1.6	0.48	1	12/08/16 15:20	12/15/16 16:12	91-20-3	
Phenanthrene	159	ug/kg	1.8	0.54	1	12/08/16 15:20	12/15/16 16:12	85-01-8	
Pyrene	178	ug/kg	3.7	1.1	1	12/08/16 15:20	12/15/16 16:12	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	73	%	41-125		1	12/08/16 15:20	12/15/16 16:12	321-60-8	
p-Terphenyl-d14 (S)	74	%	39-125		1	12/08/16 15:20	12/15/16 16:12	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1430	ug/kg	1430	430	1	12/08/16 13:13	12/12/16 15:25	67-64-1	
Allyl chloride	<187	ug/kg	187	56.2	1	12/08/16 13:13	12/12/16 15:25	107-05-1	
Benzene	<18.9	ug/kg	18.9	5.7	1	12/08/16 13:13	12/12/16 15:25	71-43-2	
Bromobenzene	<55.9	ug/kg	55.9	16.8	1	12/08/16 13:13	12/12/16 15:25	108-86-1	
Bromochloromethane	<65.0	ug/kg	65.0	19.5	1	12/08/16 13:13	12/12/16 15:25	74-97-5	
Bromodichloromethane	<61.1	ug/kg	61.1	18.4	1	12/08/16 13:13	12/12/16 15:25	75-27-4	
Bromoform	<188	ug/kg	188	56.5	1	12/08/16 13:13	12/12/16 15:25	75-25-2	
Bromomethane	<221	ug/kg	221	66.5	1	12/08/16 13:13	12/12/16 15:25	74-83-9	
2-Butanone (MEK)	<288	ug/kg	288	86.5	1	12/08/16 13:13	12/12/16 15:25	78-93-3	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

**Sample: S1\_30-32**      **Lab ID: 10372447002**      Collected: 12/05/16 14:15      Received: 12/06/16 17:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<52.8	ug/kg	52.8	15.9	1	12/08/16 13:13	12/12/16 15:25	104-51-8	
sec-Butylbenzene	<51.5	ug/kg	51.5	15.5	1	12/08/16 13:13	12/12/16 15:25	135-98-8	
tert-Butylbenzene	<69.0	ug/kg	69.0	20.7	1	12/08/16 13:13	12/12/16 15:25	98-06-6	
Carbon tetrachloride	<68.5	ug/kg	68.5	20.6	1	12/08/16 13:13	12/12/16 15:25	56-23-5	
Chlorobenzene	<38.0	ug/kg	38.0	11.4	1	12/08/16 13:13	12/12/16 15:25	108-90-7	
Chloroethane	<345	ug/kg	345	104	1	12/08/16 13:13	12/12/16 15:25	75-00-3	
Chloroform	<106	ug/kg	106	31.9	1	12/08/16 13:13	12/12/16 15:25	67-66-3	
Chloromethane	<106	ug/kg	106	31.7	1	12/08/16 13:13	12/12/16 15:25	74-87-3	
2-Chlorotoluene	<60.2	ug/kg	60.2	18.1	1	12/08/16 13:13	12/12/16 15:25	95-49-8	
4-Chlorotoluene	<57.2	ug/kg	57.2	17.2	1	12/08/16 13:13	12/12/16 15:25	106-43-4	
1,2-Dibromo-3-chloropropane	<128	ug/kg	128	128	1	12/08/16 13:13	12/12/16 15:25	96-12-8	
Dibromochloromethane	<187	ug/kg	187	56.2	1	12/08/16 13:13	12/12/16 15:25	124-48-1	
1,2-Dibromoethane (EDB)	<24.6	ug/kg	24.6	24.6	1	12/08/16 13:13	12/12/16 15:25	106-93-4	
Dibromomethane	<85.1	ug/kg	85.1	25.6	1	12/08/16 13:13	12/12/16 15:25	74-95-3	
1,2-Dichlorobenzene	<12.7	ug/kg	12.7	12.7	1	12/08/16 13:13	12/12/16 15:25	95-50-1	
1,3-Dichlorobenzene	<19.3	ug/kg	19.3	12.7	1	12/08/16 13:13	12/12/16 15:25	541-73-1	
1,4-Dichlorobenzene	<63.3	ug/kg	63.3	19.0	1	12/08/16 13:13	12/12/16 15:25	106-46-7	
Dichlorodifluoromethane	<66.8	ug/kg	66.8	20.1	1	12/08/16 13:13	12/12/16 15:25	75-71-8	
1,1-Dichloroethane	<25.4	ug/kg	25.4	25.4	1	12/08/16 13:13	12/12/16 15:25	75-34-3	
1,2-Dichloroethane	<20.7	ug/kg	20.7	20.7	1	12/08/16 13:13	12/12/16 15:25	107-06-2	
1,1-Dichloroethene	<16.6	ug/kg	16.6	16.6	1	12/08/16 13:13	12/12/16 15:25	75-35-4	
cis-1,2-Dichloroethene	<81.2	ug/kg	81.2	24.4	1	12/08/16 13:13	12/12/16 15:25	156-59-2	
trans-1,2-Dichloroethene	<105	ug/kg	105	31.6	1	12/08/16 13:13	12/12/16 15:25	156-60-5	
Dichlorofluoromethane	<598	ug/kg	598	180	1	12/08/16 13:13	12/12/16 15:25	75-43-4	
1,2-Dichloropropane	<22.7	ug/kg	22.7	22.7	1	12/08/16 13:13	12/12/16 15:25	78-87-5	
1,3-Dichloropropane	<78.1	ug/kg	78.1	23.5	1	12/08/16 13:13	12/12/16 15:25	142-28-9	
2,2-Dichloropropane	<69.4	ug/kg	69.4	20.8	1	12/08/16 13:13	12/12/16 15:25	594-20-7	
1,1-Dichloropropene	<19.8	ug/kg	19.8	19.8	1	12/08/16 13:13	12/12/16 15:25	563-58-6	
cis-1,3-Dichloropropene	<99.5	ug/kg	99.5	29.9	1	12/08/16 13:13	12/12/16 15:25	10061-01-5	
trans-1,3-Dichloropropene	<74.2	ug/kg	74.2	22.3	1	12/08/16 13:13	12/12/16 15:25	10061-02-6	
Diethyl ether (Ethyl ether)	<89.9	ug/kg	89.9	27.0	1	12/08/16 13:13	12/12/16 15:25	60-29-7	
Ethylbenzene	<69.4	ug/kg	69.4	20.8	1	12/08/16 13:13	12/12/16 15:25	100-41-4	
Hexachloro-1,3-butadiene	<205	ug/kg	205	61.6	1	12/08/16 13:13	12/12/16 15:25	87-68-3	
Isopropylbenzene (Cumene)	<77.7	ug/kg	77.7	23.3	1	12/08/16 13:13	12/12/16 15:25	98-82-8	
p-Isopropyltoluene	<36.2	ug/kg	36.2	10.9	1	12/08/16 13:13	12/12/16 15:25	99-87-6	
Methylene Chloride	<404	ug/kg	404	121	1	12/08/16 13:13	12/12/16 15:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	<144	ug/kg	144	43.4	1	12/08/16 13:13	12/12/16 15:25	108-10-1	
Methyl-tert-butyl ether	<40.9	ug/kg	40.9	12.3	1	12/08/16 13:13	12/12/16 15:25	1634-04-4	
Naphthalene	<52.8	ug/kg	52.8	15.9	1	12/08/16 13:13	12/12/16 15:25	91-20-3	
n-Propylbenzene	<65.0	ug/kg	65.0	19.5	1	12/08/16 13:13	12/12/16 15:25	103-65-1	
Styrene	<56.8	ug/kg	56.8	17.0	1	12/08/16 13:13	12/12/16 15:25	100-42-5	
1,1,1,2-Tetrachloroethane	<26.0	ug/kg	26.0	26.0	1	12/08/16 13:13	12/12/16 15:25	630-20-6	
1,1,2,2-Tetrachloroethane	<14.6	ug/kg	14.6	14.6	1	12/08/16 13:13	12/12/16 15:25	79-34-5	
Tetrachloroethene	<83.4	ug/kg	83.4	25.0	1	12/08/16 13:13	12/12/16 15:25	127-18-4	
Tetrahydrofuran	<1080	ug/kg	1080	325	1	12/08/16 13:13	12/12/16 15:25	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

**Sample: S1\_30-32**      **Lab ID: 10372447002**      Collected: 12/05/16 14:15      Received: 12/06/16 17:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<69.4	ug/kg	69.4	20.8	1	12/08/16 13:13	12/12/16 15:25	108-88-3	
1,2,3-Trichlorobenzene	<18.9	ug/kg	18.9	18.9	1	12/08/16 13:13	12/12/16 15:25	87-61-6	
1,2,4-Trichlorobenzene	<20.2	ug/kg	20.2	20.2	1	12/08/16 13:13	12/12/16 15:25	120-82-1	
1,1,1-Trichloroethane	<27.4	ug/kg	27.4	27.4	1	12/08/16 13:13	12/12/16 15:25	71-55-6	
1,1,2-Trichloroethane	<14.2	ug/kg	14.2	14.2	1	12/08/16 13:13	12/12/16 15:25	79-00-5	
Trichloroethene	<62.4	ug/kg	62.4	18.7	1	12/08/16 13:13	12/12/16 15:25	79-01-6	
Trichlorofluoromethane	<219	ug/kg	219	65.8	1	12/08/16 13:13	12/12/16 15:25	75-69-4	
1,2,3-Trichloropropane	<67.9	ug/kg	67.9	67.9	1	12/08/16 13:13	12/12/16 15:25	96-18-4	
1,1,2-Trichlorotrifluoroethane	<157	ug/kg	157	47.2	1	12/08/16 13:13	12/12/16 15:25	76-13-1	
1,2,4-Trimethylbenzene	<14.4	ug/kg	14.4	14.4	1	12/08/16 13:13	12/12/16 15:25	95-63-6	
1,3,5-Trimethylbenzene	<50.2	ug/kg	50.2	15.1	1	12/08/16 13:13	12/12/16 15:25	108-67-8	
Vinyl chloride	<28.0	ug/kg	28.0	8.4	1	12/08/16 13:13	12/12/16 15:25	75-01-4	
Xylene (Total)	<175	ug/kg	175	52.4	1	12/08/16 13:13	12/12/16 15:25	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	96	%	75-129		1	12/08/16 13:13	12/12/16 15:25	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/08/16 13:13	12/12/16 15:25	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/08/16 13:13	12/12/16 15:25	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

**Sample: S2\_29.5-32**      **Lab ID: 10372447003**      Collected: 12/05/16 15:15      Received: 12/06/16 17:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	4.6	mg/kg	0.84	0.25	1	12/16/16 07:04	12/19/16 06:56	7440-38-2	
Barium	34.8	mg/kg	0.067	0.020	1	12/16/16 07:04	12/19/16 06:56	7440-39-3	
Cadmium	0.68	mg/kg	0.040	0.012	1	12/16/16 07:04	12/19/16 06:56	7440-43-9	
Chromium	22.0	mg/kg	0.44	0.13	1	12/16/16 07:04	12/19/16 06:56	7440-47-3	
Lead	29.1	mg/kg	0.42	0.13	1	12/16/16 07:04	12/19/16 06:56	7439-92-1	
Selenium	<1.2	mg/kg	1.2	0.36	1	12/16/16 07:04	12/19/16 06:56	7782-49-2	
Silver	<0.34	mg/kg	0.34	0.10	1	12/16/16 07:04	12/19/16 06:56	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.34	mg/kg	0.023	0.0070	1	12/16/16 07:05	12/18/16 18:57	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	25.7	%	0.10	0.10	1		12/19/16 09:24		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	31.1	ug/kg	1.8	0.53	1	12/08/16 15:20	12/15/16 17:14	83-32-9	
Acenaphthylene	34.2	ug/kg	1.2	0.37	1	12/08/16 15:20	12/15/16 17:14	208-96-8	
Anthracene	73.6	ug/kg	2.0	0.61	1	12/08/16 15:20	12/15/16 17:14	120-12-7	
Benzo(a)anthracene	185	ug/kg	2.1	0.63	1	12/08/16 15:20	12/15/16 17:14	56-55-3	
Benzo(a)pyrene	166	ug/kg	1.6	0.47	1	12/08/16 15:20	12/15/16 17:14	50-32-8	
Benzo(b)fluoranthene	170	ug/kg	2.6	0.77	1	12/08/16 15:20	12/15/16 17:14	205-99-2	
Benzo(g,h,i)perylene	103	ug/kg	2.1	0.62	1	12/08/16 15:20	12/15/16 17:14	191-24-2	
Benzo(k)fluoranthene	57.8	ug/kg	2.2	0.66	1	12/08/16 15:20	12/15/16 17:14	207-08-9	
Chrysene	141	ug/kg	2.5	0.75	1	12/08/16 15:20	12/15/16 17:14	218-01-9	
Dibenz(a,h)anthracene	23.9	ug/kg	1.5	0.44	1	12/08/16 15:20	12/15/16 17:14	53-70-3	
Fluoranthene	312	ug/kg	3.5	1.1	1	12/08/16 15:20	12/15/16 17:14	206-44-0	
Fluorene	46.7	ug/kg	1.7	0.52	1	12/08/16 15:20	12/15/16 17:14	86-73-7	
Indeno(1,2,3-cd)pyrene	82.1	ug/kg	3.4	1.0	1	12/08/16 15:20	12/15/16 17:14	193-39-5	
Naphthalene	50.8	ug/kg	1.6	0.48	1	12/08/16 15:20	12/15/16 17:14	91-20-3	
Phenanthrene	208	ug/kg	1.8	0.54	1	12/08/16 15:20	12/15/16 17:14	85-01-8	
Pyrene	371	ug/kg	3.7	1.1	1	12/08/16 15:20	12/15/16 17:14	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	73	%	41-125		1	12/08/16 15:20	12/15/16 17:14	321-60-8	
p-Terphenyl-d14 (S)	73	%	39-125		1	12/08/16 15:20	12/15/16 17:14	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1470	ug/kg	1470	443	1	12/08/16 13:13	12/12/16 16:46	67-64-1	
Allyl chloride	<193	ug/kg	193	57.9	1	12/08/16 13:13	12/12/16 16:46	107-05-1	
Benzene	<19.4	ug/kg	19.4	5.8	1	12/08/16 13:13	12/12/16 16:46	71-43-2	
Bromobenzene	<57.5	ug/kg	57.5	17.3	1	12/08/16 13:13	12/12/16 16:46	108-86-1	
Bromochloromethane	<67.0	ug/kg	67.0	20.1	1	12/08/16 13:13	12/12/16 16:46	74-97-5	
Bromodichloromethane	<62.9	ug/kg	62.9	18.9	1	12/08/16 13:13	12/12/16 16:46	75-27-4	
Bromoform	<194	ug/kg	194	58.2	1	12/08/16 13:13	12/12/16 16:46	75-25-2	
Bromomethane	<228	ug/kg	228	68.4	1	12/08/16 13:13	12/12/16 16:46	74-83-9	
2-Butanone (MEK)	<297	ug/kg	297	89.1	1	12/08/16 13:13	12/12/16 16:46	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

Sample: **S2\_29.5-32** Lab ID: **10372447003** Collected: 12/05/16 15:15 Received: 12/06/16 17:35 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<54.4	ug/kg	54.4	16.3	1	12/08/16 13:13	12/12/16 16:46	104-51-8	
sec-Butylbenzene	<53.0	ug/kg	53.0	15.9	1	12/08/16 13:13	12/12/16 16:46	135-98-8	
tert-Butylbenzene	<71.0	ug/kg	71.0	21.3	1	12/08/16 13:13	12/12/16 16:46	98-06-6	
Carbon tetrachloride	<70.6	ug/kg	70.6	21.2	1	12/08/16 13:13	12/12/16 16:46	56-23-5	
Chlorobenzene	<39.1	ug/kg	39.1	11.7	1	12/08/16 13:13	12/12/16 16:46	108-90-7	
Chloroethane	<355	ug/kg	355	107	1	12/08/16 13:13	12/12/16 16:46	75-00-3	
Chloroform	<109	ug/kg	109	32.8	1	12/08/16 13:13	12/12/16 16:46	67-66-3	
Chloromethane	<109	ug/kg	109	32.7	1	12/08/16 13:13	12/12/16 16:46	74-87-3	
2-Chlorotoluene	<62.0	ug/kg	62.0	18.6	1	12/08/16 13:13	12/12/16 16:46	95-49-8	
4-Chlorotoluene	<58.9	ug/kg	58.9	17.7	1	12/08/16 13:13	12/12/16 16:46	106-43-4	
1,2-Dibromo-3-chloropropane	<132	ug/kg	132	132	1	12/08/16 13:13	12/12/16 16:46	96-12-8	
Dibromochloromethane	<193	ug/kg	193	57.9	1	12/08/16 13:13	12/12/16 16:46	124-48-1	
1,2-Dibromoethane (EDB)	<25.4	ug/kg	25.4	25.4	1	12/08/16 13:13	12/12/16 16:46	106-93-4	
Dibromomethane	<87.6	ug/kg	87.6	26.3	1	12/08/16 13:13	12/12/16 16:46	74-95-3	
1,2-Dichlorobenzene	<13.0	ug/kg	13.0	13.0	1	12/08/16 13:13	12/12/16 16:46	95-50-1	
1,3-Dichlorobenzene	<19.8	ug/kg	19.8	13.0	1	12/08/16 13:13	12/12/16 16:46	541-73-1	
1,4-Dichlorobenzene	<65.2	ug/kg	65.2	19.6	1	12/08/16 13:13	12/12/16 16:46	106-46-7	
Dichlorodifluoromethane	<68.8	ug/kg	68.8	20.7	1	12/08/16 13:13	12/12/16 16:46	75-71-8	
1,1-Dichloroethane	<26.2	ug/kg	26.2	26.2	1	12/08/16 13:13	12/12/16 16:46	75-34-3	
1,2-Dichloroethane	<21.3	ug/kg	21.3	21.3	1	12/08/16 13:13	12/12/16 16:46	107-06-2	
1,1-Dichloroethene	<17.1	ug/kg	17.1	17.1	1	12/08/16 13:13	12/12/16 16:46	75-35-4	
cis-1,2-Dichloroethene	<83.6	ug/kg	83.6	25.1	1	12/08/16 13:13	12/12/16 16:46	156-59-2	
trans-1,2-Dichloroethene	<108	ug/kg	108	32.5	1	12/08/16 13:13	12/12/16 16:46	156-60-5	
Dichlorofluoromethane	<616	ug/kg	616	185	1	12/08/16 13:13	12/12/16 16:46	75-43-4	
1,2-Dichloropropane	<23.3	ug/kg	23.3	23.3	1	12/08/16 13:13	12/12/16 16:46	78-87-5	
1,3-Dichloropropane	<80.5	ug/kg	80.5	24.2	1	12/08/16 13:13	12/12/16 16:46	142-28-9	
2,2-Dichloropropane	<71.5	ug/kg	71.5	21.5	1	12/08/16 13:13	12/12/16 16:46	594-20-7	
1,1-Dichloropropene	<20.4	ug/kg	20.4	20.4	1	12/08/16 13:13	12/12/16 16:46	563-58-6	
cis-1,3-Dichloropropene	<102	ug/kg	102	30.8	1	12/08/16 13:13	12/12/16 16:46	10061-01-5	
trans-1,3-Dichloropropene	<76.4	ug/kg	76.4	22.9	1	12/08/16 13:13	12/12/16 16:46	10061-02-6	
Diethyl ether (Ethyl ether)	<92.6	ug/kg	92.6	27.8	1	12/08/16 13:13	12/12/16 16:46	60-29-7	
Ethylbenzene	<71.5	ug/kg	71.5	21.5	1	12/08/16 13:13	12/12/16 16:46	100-41-4	
Hexachloro-1,3-butadiene	<211	ug/kg	211	63.4	1	12/08/16 13:13	12/12/16 16:46	87-68-3	
Isopropylbenzene (Cumene)	<80.0	ug/kg	80.0	24.0	1	12/08/16 13:13	12/12/16 16:46	98-82-8	
p-Isopropyltoluene	<37.3	ug/kg	37.3	11.2	1	12/08/16 13:13	12/12/16 16:46	99-87-6	
Methylene Chloride	<416	ug/kg	416	125	1	12/08/16 13:13	12/12/16 16:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	<149	ug/kg	149	44.7	1	12/08/16 13:13	12/12/16 16:46	108-10-1	
Methyl-tert-butyl ether	<42.1	ug/kg	42.1	12.6	1	12/08/16 13:13	12/12/16 16:46	1634-04-4	
Naphthalene	<54.4	ug/kg	54.4	16.3	1	12/08/16 13:13	12/12/16 16:46	91-20-3	
n-Propylbenzene	<67.0	ug/kg	67.0	20.1	1	12/08/16 13:13	12/12/16 16:46	103-65-1	
Styrene	<58.4	ug/kg	58.4	17.5	1	12/08/16 13:13	12/12/16 16:46	100-42-5	
1,1,1,2-Tetrachloroethane	<26.7	ug/kg	26.7	26.7	1	12/08/16 13:13	12/12/16 16:46	630-20-6	
1,1,2,2-Tetrachloroethane	<15.0	ug/kg	15.0	15.0	1	12/08/16 13:13	12/12/16 16:46	79-34-5	
Tetrachloroethene	<85.8	ug/kg	85.8	25.8	1	12/08/16 13:13	12/12/16 16:46	127-18-4	
Tetrahydrofuran	<1110	ug/kg	1110	335	1	12/08/16 13:13	12/12/16 16:46	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

**Sample: S2\_29.5-32**      **Lab ID: 10372447003**      Collected: 12/05/16 15:15      Received: 12/06/16 17:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<b>72.7</b>	ug/kg	71.5	21.5	1	12/08/16 13:13	12/12/16 16:46	108-88-3	
1,2,3-Trichlorobenzene	<b>&lt;19.4</b>	ug/kg	19.4	19.4	1	12/08/16 13:13	12/12/16 16:46	87-61-6	
1,2,4-Trichlorobenzene	<b>&lt;20.8</b>	ug/kg	20.8	20.8	1	12/08/16 13:13	12/12/16 16:46	120-82-1	
1,1,1-Trichloroethane	<b>&lt;28.2</b>	ug/kg	28.2	28.2	1	12/08/16 13:13	12/12/16 16:46	71-55-6	
1,1,2-Trichloroethane	<b>&lt;14.6</b>	ug/kg	14.6	14.6	1	12/08/16 13:13	12/12/16 16:46	79-00-5	
Trichloroethene	<b>&lt;64.3</b>	ug/kg	64.3	19.3	1	12/08/16 13:13	12/12/16 16:46	79-01-6	
Trichlorofluoromethane	<b>&lt;226</b>	ug/kg	226	67.8	1	12/08/16 13:13	12/12/16 16:46	75-69-4	
1,2,3-Trichloropropane	<b>&lt;69.9</b>	ug/kg	69.9	69.9	1	12/08/16 13:13	12/12/16 16:46	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;162</b>	ug/kg	162	48.6	1	12/08/16 13:13	12/12/16 16:46	76-13-1	
1,2,4-Trimethylbenzene	<b>16.2</b>	ug/kg	14.8	14.8	1	12/08/16 13:13	12/12/16 16:46	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;51.7</b>	ug/kg	51.7	15.5	1	12/08/16 13:13	12/12/16 16:46	108-67-8	
Vinyl chloride	<b>&lt;28.9</b>	ug/kg	28.9	8.7	1	12/08/16 13:13	12/12/16 16:46	75-01-4	
Xylene (Total)	<b>&lt;180</b>	ug/kg	180	54.0	1	12/08/16 13:13	12/12/16 16:46	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	93	%	75-129		1	12/08/16 13:13	12/12/16 16:46	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/08/16 13:13	12/12/16 16:46	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/08/16 13:13	12/12/16 16:46	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

**Sample: S2\_34-35**      **Lab ID: 10372447004**      Collected: 12/05/16 15:30      Received: 12/06/16 17:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	2.2	mg/kg	0.81	0.24	1	12/16/16 07:04	12/19/16 07:00	7440-38-2	
Barium	7.6	mg/kg	0.065	0.020	1	12/16/16 07:04	12/19/16 07:00	7440-39-3	
Cadmium	<0.039	mg/kg	0.039	0.012	1	12/16/16 07:04	12/19/16 07:00	7440-43-9	
Chromium	5.0	mg/kg	0.42	0.13	1	12/16/16 07:04	12/19/16 07:00	7440-47-3	
Lead	1.9	mg/kg	0.41	0.12	1	12/16/16 07:04	12/19/16 07:00	7439-92-1	
Selenium	<1.2	mg/kg	1.2	0.35	1	12/16/16 07:04	12/19/16 07:00	7782-49-2	
Silver	<0.32	mg/kg	0.32	0.098	1	12/16/16 07:04	12/19/16 07:00	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<0.020	mg/kg	0.020	0.0060	1	12/16/16 07:05	12/18/16 18:59	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	18.8	%	0.10	0.10	1		12/19/16 09:25		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	<1.6	ug/kg	1.6	0.48	1	12/08/16 15:20	12/15/16 17:34	83-32-9	
Acenaphthylene	<1.1	ug/kg	1.1	0.33	1	12/08/16 15:20	12/15/16 17:34	208-96-8	
Anthracene	<1.9	ug/kg	1.9	0.56	1	12/08/16 15:20	12/15/16 17:34	120-12-7	
Benzo(a)anthracene	<1.9	ug/kg	1.9	0.58	1	12/08/16 15:20	12/15/16 17:34	56-55-3	
Benzo(a)pyrene	<1.4	ug/kg	1.4	0.43	1	12/08/16 15:20	12/15/16 17:34	50-32-8	
Benzo(b)fluoranthene	<2.3	ug/kg	2.3	0.71	1	12/08/16 15:20	12/15/16 17:34	205-99-2	
Benzo(g,h,i)perylene	<1.9	ug/kg	1.9	0.56	1	12/08/16 15:20	12/15/16 17:34	191-24-2	
Benzo(k)fluoranthene	<2.0	ug/kg	2.0	0.61	1	12/08/16 15:20	12/15/16 17:34	207-08-9	
Chrysene	<2.3	ug/kg	2.3	0.68	1	12/08/16 15:20	12/15/16 17:34	218-01-9	
Dibenz(a,h)anthracene	<1.3	ug/kg	1.3	0.40	1	12/08/16 15:20	12/15/16 17:34	53-70-3	
Fluoranthene	<3.2	ug/kg	3.2	0.97	1	12/08/16 15:20	12/15/16 17:34	206-44-0	
Fluorene	<1.6	ug/kg	1.6	0.47	1	12/08/16 15:20	12/15/16 17:34	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.1	ug/kg	3.1	0.92	1	12/08/16 15:20	12/15/16 17:34	193-39-5	
Naphthalene	<1.5	ug/kg	1.5	0.44	1	12/08/16 15:20	12/15/16 17:34	91-20-3	
Phenanthrene	<1.7	ug/kg	1.7	0.50	1	12/08/16 15:20	12/15/16 17:34	85-01-8	
Pyrene	<3.4	ug/kg	3.4	1.0	1	12/08/16 15:20	12/15/16 17:34	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	73	%	41-125		1	12/08/16 15:20	12/15/16 17:34	321-60-8	
p-Terphenyl-d14 (S)	72	%	39-125		1	12/08/16 15:20	12/15/16 17:34	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1370	ug/kg	1370	412	1	12/08/16 13:13	12/12/16 15:58	67-64-1	
Allyl chloride	<179	ug/kg	179	53.8	1	12/08/16 13:13	12/12/16 15:58	107-05-1	
Benzene	<18.1	ug/kg	18.1	5.4	1	12/08/16 13:13	12/12/16 15:58	71-43-2	
Bromobenzene	<53.5	ug/kg	53.5	16.1	1	12/08/16 13:13	12/12/16 15:58	108-86-1	
Bromochloromethane	<62.3	ug/kg	62.3	18.7	1	12/08/16 13:13	12/12/16 15:58	74-97-5	
Bromodichloromethane	<58.5	ug/kg	58.5	17.6	1	12/08/16 13:13	12/12/16 15:58	75-27-4	
Bromoform	<180	ug/kg	180	54.1	1	12/08/16 13:13	12/12/16 15:58	75-25-2	
Bromomethane	<212	ug/kg	212	63.6	1	12/08/16 13:13	12/12/16 15:58	74-83-9	
2-Butanone (MEK)	<276	ug/kg	276	82.8	1	12/08/16 13:13	12/12/16 15:58	78-93-3	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

**Sample: S2\_34-35**      **Lab ID: 10372447004**      Collected: 12/05/16 15:30      Received: 12/06/16 17:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<50.6	ug/kg	50.6	15.2	1	12/08/16 13:13	12/12/16 15:58	104-51-8	
sec-Butylbenzene	<49.3	ug/kg	49.3	14.8	1	12/08/16 13:13	12/12/16 15:58	135-98-8	
tert-Butylbenzene	<66.0	ug/kg	66.0	19.8	1	12/08/16 13:13	12/12/16 15:58	98-06-6	
Carbon tetrachloride	<65.6	ug/kg	65.6	19.7	1	12/08/16 13:13	12/12/16 15:58	56-23-5	
Chlorobenzene	<36.4	ug/kg	36.4	10.9	1	12/08/16 13:13	12/12/16 15:58	108-90-7	
Chloroethane	<330	ug/kg	330	99.2	1	12/08/16 13:13	12/12/16 15:58	75-00-3	
Chloroform	<102	ug/kg	102	30.5	1	12/08/16 13:13	12/12/16 15:58	67-66-3	
Chloromethane	<101	ug/kg	101	30.4	1	12/08/16 13:13	12/12/16 15:58	74-87-3	
2-Chlorotoluene	<57.7	ug/kg	57.7	17.3	1	12/08/16 13:13	12/12/16 15:58	95-49-8	
4-Chlorotoluene	<54.8	ug/kg	54.8	16.4	1	12/08/16 13:13	12/12/16 15:58	106-43-4	
1,2-Dibromo-3-chloropropane	<122	ug/kg	122	122	1	12/08/16 13:13	12/12/16 15:58	96-12-8	
Dibromochloromethane	<179	ug/kg	179	53.8	1	12/08/16 13:13	12/12/16 15:58	124-48-1	
1,2-Dibromoethane (EDB)	<23.6	ug/kg	23.6	23.6	1	12/08/16 13:13	12/12/16 15:58	106-93-4	
Dibromomethane	<81.5	ug/kg	81.5	24.5	1	12/08/16 13:13	12/12/16 15:58	74-95-3	
1,2-Dichlorobenzene	<12.1	ug/kg	12.1	12.1	1	12/08/16 13:13	12/12/16 15:58	95-50-1	
1,3-Dichlorobenzene	<18.4	ug/kg	18.4	12.1	1	12/08/16 13:13	12/12/16 15:58	541-73-1	
1,4-Dichlorobenzene	<60.6	ug/kg	60.6	18.2	1	12/08/16 13:13	12/12/16 15:58	106-46-7	
Dichlorodifluoromethane	<63.9	ug/kg	63.9	19.2	1	12/08/16 13:13	12/12/16 15:58	75-71-8	
1,1-Dichloroethane	<24.3	ug/kg	24.3	24.3	1	12/08/16 13:13	12/12/16 15:58	75-34-3	
1,2-Dichloroethane	<19.8	ug/kg	19.8	19.8	1	12/08/16 13:13	12/12/16 15:58	107-06-2	
1,1-Dichloroethene	<15.9	ug/kg	15.9	15.9	1	12/08/16 13:13	12/12/16 15:58	75-35-4	
cis-1,2-Dichloroethene	<77.7	ug/kg	77.7	23.3	1	12/08/16 13:13	12/12/16 15:58	156-59-2	
trans-1,2-Dichloroethene	<101	ug/kg	101	30.2	1	12/08/16 13:13	12/12/16 15:58	156-60-5	
Dichlorofluoromethane	<573	ug/kg	573	172	1	12/08/16 13:13	12/12/16 15:58	75-43-4	
1,2-Dichloropropane	<21.7	ug/kg	21.7	21.7	1	12/08/16 13:13	12/12/16 15:58	78-87-5	
1,3-Dichloropropane	<74.8	ug/kg	74.8	22.5	1	12/08/16 13:13	12/12/16 15:58	142-28-9	
2,2-Dichloropropane	<66.5	ug/kg	66.5	20.0	1	12/08/16 13:13	12/12/16 15:58	594-20-7	
1,1-Dichloropropene	<19.0	ug/kg	19.0	19.0	1	12/08/16 13:13	12/12/16 15:58	563-58-6	
cis-1,3-Dichloropropene	<95.3	ug/kg	95.3	28.6	1	12/08/16 13:13	12/12/16 15:58	10061-01-5	
trans-1,3-Dichloropropene	<71.1	ug/kg	71.1	21.3	1	12/08/16 13:13	12/12/16 15:58	10061-02-6	
Diethyl ether (Ethyl ether)	<86.1	ug/kg	86.1	25.9	1	12/08/16 13:13	12/12/16 15:58	60-29-7	
Ethylbenzene	<66.5	ug/kg	66.5	20.0	1	12/08/16 13:13	12/12/16 15:58	100-41-4	
Hexachloro-1,3-butadiene	<196	ug/kg	196	59.0	1	12/08/16 13:13	12/12/16 15:58	87-68-3	
Isopropylbenzene (Cumene)	<74.4	ug/kg	74.4	22.3	1	12/08/16 13:13	12/12/16 15:58	98-82-8	
p-Isopropyltoluene	<34.7	ug/kg	34.7	10.4	1	12/08/16 13:13	12/12/16 15:58	99-87-6	
Methylene Chloride	<387	ug/kg	387	116	1	12/08/16 13:13	12/12/16 15:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	<138	ug/kg	138	41.5	1	12/08/16 13:13	12/12/16 15:58	108-10-1	
Methyl-tert-butyl ether	<39.1	ug/kg	39.1	11.7	1	12/08/16 13:13	12/12/16 15:58	1634-04-4	
Naphthalene	<50.6	ug/kg	50.6	15.2	1	12/08/16 13:13	12/12/16 15:58	91-20-3	
n-Propylbenzene	<62.3	ug/kg	62.3	18.7	1	12/08/16 13:13	12/12/16 15:58	103-65-1	
Styrene	<54.3	ug/kg	54.3	16.3	1	12/08/16 13:13	12/12/16 15:58	100-42-5	
1,1,1,2-Tetrachloroethane	<24.9	ug/kg	24.9	24.9	1	12/08/16 13:13	12/12/16 15:58	630-20-6	
1,1,2,2-Tetrachloroethane	<13.9	ug/kg	13.9	13.9	1	12/08/16 13:13	12/12/16 15:58	79-34-5	
Tetrachloroethene	<79.8	ug/kg	79.8	24.0	1	12/08/16 13:13	12/12/16 15:58	127-18-4	
Tetrahydrofuran	<1040	ug/kg	1040	311	1	12/08/16 13:13	12/12/16 15:58	109-99-9	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

**Sample: S2\_34-35**      **Lab ID: 10372447004**      Collected: 12/05/16 15:30      Received: 12/06/16 17:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<66.5	ug/kg	66.5	20.0	1	12/08/16 13:13	12/12/16 15:58	108-88-3	
1,2,3-Trichlorobenzene	<18.1	ug/kg	18.1	18.1	1	12/08/16 13:13	12/12/16 15:58	87-61-6	
1,2,4-Trichlorobenzene	<19.3	ug/kg	19.3	19.3	1	12/08/16 13:13	12/12/16 15:58	120-82-1	
1,1,1-Trichloroethane	<26.2	ug/kg	26.2	26.2	1	12/08/16 13:13	12/12/16 15:58	71-55-6	
1,1,2-Trichloroethane	<13.6	ug/kg	13.6	13.6	1	12/08/16 13:13	12/12/16 15:58	79-00-5	
Trichloroethene	<59.8	ug/kg	59.8	17.9	1	12/08/16 13:13	12/12/16 15:58	79-01-6	
Trichlorofluoromethane	<210	ug/kg	210	63.0	1	12/08/16 13:13	12/12/16 15:58	75-69-4	
1,2,3-Trichloropropane	<65.0	ug/kg	65.0	65.0	1	12/08/16 13:13	12/12/16 15:58	96-18-4	
1,1,2-Trichlorotrifluoroethane	<150	ug/kg	150	45.2	1	12/08/16 13:13	12/12/16 15:58	76-13-1	
1,2,4-Trimethylbenzene	<13.8	ug/kg	13.8	13.8	1	12/08/16 13:13	12/12/16 15:58	95-63-6	
1,3,5-Trimethylbenzene	<48.1	ug/kg	48.1	14.4	1	12/08/16 13:13	12/12/16 15:58	108-67-8	
Vinyl chloride	<26.8	ug/kg	26.8	8.1	1	12/08/16 13:13	12/12/16 15:58	75-01-4	
Xylene (Total)	<167	ug/kg	167	50.2	1	12/08/16 13:13	12/12/16 15:58	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	96	%	75-129		1	12/08/16 13:13	12/12/16 15:58	17060-07-0	
Toluene-d8 (S)	96	%	75-125		1	12/08/16 13:13	12/12/16 15:58	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/08/16 13:13	12/12/16 15:58	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

**Sample: S2\_32-34**      **Lab ID: 10372447005**      Collected: 12/05/16 15:15      Received: 12/06/16 17:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	2.7	mg/kg	0.85	0.26	1	12/16/16 07:04	12/19/16 07:04	7440-38-2	
Barium	12.8	mg/kg	0.068	0.020	1	12/16/16 07:04	12/19/16 07:04	7440-39-3	
Cadmium	<0.040	mg/kg	0.040	0.012	1	12/16/16 07:04	12/19/16 07:04	7440-43-9	
Chromium	7.1	mg/kg	0.44	0.13	1	12/16/16 07:04	12/19/16 07:04	7440-47-3	
Lead	2.5	mg/kg	0.43	0.13	1	12/16/16 07:04	12/19/16 07:04	7439-92-1	
Selenium	<1.2	mg/kg	1.2	0.37	1	12/16/16 07:04	12/19/16 07:04	7782-49-2	
Silver	<0.34	mg/kg	0.34	0.10	1	12/16/16 07:04	12/19/16 07:04	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<0.019	mg/kg	0.019	0.0058	1	12/16/16 07:05	12/18/16 19:06	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	23.3	%	0.10	0.10	1		12/19/16 09:25		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	<1.7	ug/kg	1.7	0.51	1	12/08/16 15:20	12/15/16 16:33	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.35	1	12/08/16 15:20	12/15/16 16:33	208-96-8	
Anthracene	<2.0	ug/kg	2.0	0.59	1	12/08/16 15:20	12/15/16 16:33	120-12-7	
Benzo(a)anthracene	<2.0	ug/kg	2.0	0.61	1	12/08/16 15:20	12/15/16 16:33	56-55-3	
Benzo(a)pyrene	<1.5	ug/kg	1.5	0.45	1	12/08/16 15:20	12/15/16 16:33	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	2.5	0.75	1	12/08/16 15:20	12/15/16 16:33	205-99-2	
Benzo(g,h,i)perylene	<2.0	ug/kg	2.0	0.60	1	12/08/16 15:20	12/15/16 16:33	191-24-2	
Benzo(k)fluoranthene	<2.1	ug/kg	2.1	0.64	1	12/08/16 15:20	12/15/16 16:33	207-08-9	
Chrysene	<2.4	ug/kg	2.4	0.72	1	12/08/16 15:20	12/15/16 16:33	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.43	1	12/08/16 15:20	12/15/16 16:33	53-70-3	
Fluoranthene	<3.4	ug/kg	3.4	1.0	1	12/08/16 15:20	12/15/16 16:33	206-44-0	
Fluorene	<1.7	ug/kg	1.7	0.50	1	12/08/16 15:20	12/15/16 16:33	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.3	ug/kg	3.3	0.98	1	12/08/16 15:20	12/15/16 16:33	193-39-5	
Naphthalene	<1.6	ug/kg	1.6	0.47	1	12/08/16 15:20	12/15/16 16:33	91-20-3	
Phenanthrene	<1.8	ug/kg	1.8	0.53	1	12/08/16 15:20	12/15/16 16:33	85-01-8	
Pyrene	17.8	ug/kg	3.6	1.1	1	12/08/16 15:20	12/15/16 16:33	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	74	%	41-125		1	12/08/16 15:20	12/15/16 16:33	321-60-8	
p-Terphenyl-d14 (S)	73	%	39-125		1	12/08/16 15:20	12/15/16 16:33	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1450	ug/kg	1450	436	1	12/08/16 13:13	12/12/16 16:14	67-64-1	
Allyl chloride	<190	ug/kg	190	57.0	1	12/08/16 13:13	12/12/16 16:14	107-05-1	
Benzene	<19.1	ug/kg	19.1	5.7	1	12/08/16 13:13	12/12/16 16:14	71-43-2	
Bromobenzene	<56.7	ug/kg	56.7	17.0	1	12/08/16 13:13	12/12/16 16:14	108-86-1	
Bromochloromethane	<66.0	ug/kg	66.0	19.8	1	12/08/16 13:13	12/12/16 16:14	74-97-5	
Bromodichloromethane	<62.0	ug/kg	62.0	18.6	1	12/08/16 13:13	12/12/16 16:14	75-27-4	
Bromoform	<191	ug/kg	191	57.3	1	12/08/16 13:13	12/12/16 16:14	75-25-2	
Bromomethane	<224	ug/kg	224	67.4	1	12/08/16 13:13	12/12/16 16:14	74-83-9	
2-Butanone (MEK)	<292	ug/kg	292	87.8	1	12/08/16 13:13	12/12/16 16:14	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

**Sample: S2\_32-34**      **Lab ID: 10372447005**      Collected: 12/05/16 15:15      Received: 12/06/16 17:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<53.6	ug/kg	53.6	16.1	1	12/08/16 13:13	12/12/16 16:14	104-51-8	
sec-Butylbenzene	<52.2	ug/kg	52.2	15.7	1	12/08/16 13:13	12/12/16 16:14	135-98-8	
tert-Butylbenzene	<70.0	ug/kg	70.0	21.0	1	12/08/16 13:13	12/12/16 16:14	98-06-6	
Carbon tetrachloride	<69.5	ug/kg	69.5	20.9	1	12/08/16 13:13	12/12/16 16:14	56-23-5	
Chlorobenzene	<38.5	ug/kg	38.5	11.6	1	12/08/16 13:13	12/12/16 16:14	108-90-7	
Chloroethane	<350	ug/kg	350	105	1	12/08/16 13:13	12/12/16 16:14	75-00-3	
Chloroform	<108	ug/kg	108	32.3	1	12/08/16 13:13	12/12/16 16:14	67-66-3	
Chloromethane	<107	ug/kg	107	32.2	1	12/08/16 13:13	12/12/16 16:14	74-87-3	
2-Chlorotoluene	<61.1	ug/kg	61.1	18.3	1	12/08/16 13:13	12/12/16 16:14	95-49-8	
4-Chlorotoluene	<58.0	ug/kg	58.0	17.4	1	12/08/16 13:13	12/12/16 16:14	106-43-4	
1,2-Dibromo-3-chloropropane	<130	ug/kg	130	130	1	12/08/16 13:13	12/12/16 16:14	96-12-8	
Dibromochloromethane	<190	ug/kg	190	57.0	1	12/08/16 13:13	12/12/16 16:14	124-48-1	
1,2-Dibromoethane (EDB)	<25.0	ug/kg	25.0	25.0	1	12/08/16 13:13	12/12/16 16:14	106-93-4	
Dibromomethane	<86.3	ug/kg	86.3	25.9	1	12/08/16 13:13	12/12/16 16:14	74-95-3	
1,2-Dichlorobenzene	<12.8	ug/kg	12.8	12.8	1	12/08/16 13:13	12/12/16 16:14	95-50-1	
1,3-Dichlorobenzene	<19.5	ug/kg	19.5	12.8	1	12/08/16 13:13	12/12/16 16:14	541-73-1	
1,4-Dichlorobenzene	<64.2	ug/kg	64.2	19.3	1	12/08/16 13:13	12/12/16 16:14	106-46-7	
Dichlorodifluoromethane	<67.7	ug/kg	67.7	20.3	1	12/08/16 13:13	12/12/16 16:14	75-71-8	
1,1-Dichloroethane	<25.8	ug/kg	25.8	25.8	1	12/08/16 13:13	12/12/16 16:14	75-34-3	
1,2-Dichloroethane	<21.0	ug/kg	21.0	21.0	1	12/08/16 13:13	12/12/16 16:14	107-06-2	
1,1-Dichloroethene	<16.9	ug/kg	16.9	16.9	1	12/08/16 13:13	12/12/16 16:14	75-35-4	
cis-1,2-Dichloroethene	<82.4	ug/kg	82.4	24.7	1	12/08/16 13:13	12/12/16 16:14	156-59-2	
trans-1,2-Dichloroethene	<107	ug/kg	107	32.0	1	12/08/16 13:13	12/12/16 16:14	156-60-5	
Dichlorofluoromethane	<607	ug/kg	607	182	1	12/08/16 13:13	12/12/16 16:14	75-43-4	
1,2-Dichloropropane	<23.0	ug/kg	23.0	23.0	1	12/08/16 13:13	12/12/16 16:14	78-87-5	
1,3-Dichloropropane	<79.3	ug/kg	79.3	23.8	1	12/08/16 13:13	12/12/16 16:14	142-28-9	
2,2-Dichloropropane	<70.4	ug/kg	70.4	21.1	1	12/08/16 13:13	12/12/16 16:14	594-20-7	
1,1-Dichloropropene	<20.1	ug/kg	20.1	20.1	1	12/08/16 13:13	12/12/16 16:14	563-58-6	
cis-1,3-Dichloropropene	<101	ug/kg	101	30.3	1	12/08/16 13:13	12/12/16 16:14	10061-01-5	
trans-1,3-Dichloropropene	<75.3	ug/kg	75.3	22.6	1	12/08/16 13:13	12/12/16 16:14	10061-02-6	
Diethyl ether (Ethyl ether)	<91.2	ug/kg	91.2	27.4	1	12/08/16 13:13	12/12/16 16:14	60-29-7	
Ethylbenzene	<70.4	ug/kg	70.4	21.1	1	12/08/16 13:13	12/12/16 16:14	100-41-4	
Hexachloro-1,3-butadiene	<208	ug/kg	208	62.5	1	12/08/16 13:13	12/12/16 16:14	87-68-3	
Isopropylbenzene (Cumene)	<78.8	ug/kg	78.8	23.7	1	12/08/16 13:13	12/12/16 16:14	98-82-8	
p-Isopropyltoluene	<36.7	ug/kg	36.7	11.0	1	12/08/16 13:13	12/12/16 16:14	99-87-6	
Methylene Chloride	<410	ug/kg	410	123	1	12/08/16 13:13	12/12/16 16:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	<147	ug/kg	147	44.0	1	12/08/16 13:13	12/12/16 16:14	108-10-1	
Methyl-tert-butyl ether	<41.4	ug/kg	41.4	12.4	1	12/08/16 13:13	12/12/16 16:14	1634-04-4	
Naphthalene	<53.6	ug/kg	53.6	16.1	1	12/08/16 13:13	12/12/16 16:14	91-20-3	
n-Propylbenzene	<66.0	ug/kg	66.0	19.8	1	12/08/16 13:13	12/12/16 16:14	103-65-1	
Styrene	<57.6	ug/kg	57.6	17.3	1	12/08/16 13:13	12/12/16 16:14	100-42-5	
1,1,1,2-Tetrachloroethane	<26.3	ug/kg	26.3	26.3	1	12/08/16 13:13	12/12/16 16:14	630-20-6	
1,1,2,2-Tetrachloroethane	<14.8	ug/kg	14.8	14.8	1	12/08/16 13:13	12/12/16 16:14	79-34-5	
Tetrachloroethene	<84.6	ug/kg	84.6	25.4	1	12/08/16 13:13	12/12/16 16:14	127-18-4	
Tetrahydrofuran	<1100	ug/kg	1100	330	1	12/08/16 13:13	12/12/16 16:14	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

**Sample: S2\_32-34**      **Lab ID: 10372447005**      Collected: 12/05/16 15:15      Received: 12/06/16 17:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<70.4	ug/kg	70.4	21.1	1	12/08/16 13:13	12/12/16 16:14	108-88-3	
1,2,3-Trichlorobenzene	<19.1	ug/kg	19.1	19.1	1	12/08/16 13:13	12/12/16 16:14	87-61-6	
1,2,4-Trichlorobenzene	<20.5	ug/kg	20.5	20.5	1	12/08/16 13:13	12/12/16 16:14	120-82-1	
1,1,1-Trichloroethane	<27.8	ug/kg	27.8	27.8	1	12/08/16 13:13	12/12/16 16:14	71-55-6	
1,1,2-Trichloroethane	<14.4	ug/kg	14.4	14.4	1	12/08/16 13:13	12/12/16 16:14	79-00-5	
Trichloroethene	<63.3	ug/kg	63.3	19.0	1	12/08/16 13:13	12/12/16 16:14	79-01-6	
Trichlorofluoromethane	<222	ug/kg	222	66.7	1	12/08/16 13:13	12/12/16 16:14	75-69-4	
1,2,3-Trichloropropane	<68.9	ug/kg	68.9	68.9	1	12/08/16 13:13	12/12/16 16:14	96-18-4	
1,1,2-Trichlorotrifluoroethane	<159	ug/kg	159	47.9	1	12/08/16 13:13	12/12/16 16:14	76-13-1	
1,2,4-Trimethylbenzene	<14.6	ug/kg	14.6	14.6	1	12/08/16 13:13	12/12/16 16:14	95-63-6	
1,3,5-Trimethylbenzene	<50.9	ug/kg	50.9	15.3	1	12/08/16 13:13	12/12/16 16:14	108-67-8	
Vinyl chloride	<28.4	ug/kg	28.4	8.5	1	12/08/16 13:13	12/12/16 16:14	75-01-4	
Xylene (Total)	<177	ug/kg	177	53.2	1	12/08/16 13:13	12/12/16 16:14	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	94	%	75-129		1	12/08/16 13:13	12/12/16 16:14	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/08/16 13:13	12/12/16 16:14	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/08/16 13:13	12/12/16 16:14	460-00-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

**Sample: S2\_29-29.5**      **Lab ID: 10372447006**      Collected: 12/05/16 15:00      Received: 12/06/16 17:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	5.1	mg/kg	1.5	0.44	1	12/16/16 07:04	12/19/16 07:08	7440-38-2	
Barium	92.4	mg/kg	0.12	0.036	1	12/16/16 07:04	12/19/16 07:08	7440-39-3	
Cadmium	0.23	mg/kg	0.070	0.021	1	12/16/16 07:04	12/19/16 07:08	7440-43-9	
Chromium	24.9	mg/kg	0.77	0.23	1	12/16/16 07:04	12/19/16 07:08	7440-47-3	
Lead	17.0	mg/kg	0.74	0.22	1	12/16/16 07:04	12/19/16 07:08	7439-92-1	
Selenium	3.3	mg/kg	2.1	0.64	1	12/16/16 07:04	12/19/16 07:08	7782-49-2	
Silver	<0.59	mg/kg	0.59	0.18	1	12/16/16 07:04	12/19/16 07:08	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.15	mg/kg	0.033	0.0099	1	12/16/16 07:05	12/18/16 19:08	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	54.9	%	0.10	0.10	1		12/19/16 09:25		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	16.8	ug/kg	2.9	0.87	1	12/08/16 15:20	12/15/16 16:53	83-32-9	
Acenaphthylene	23.8	ug/kg	2.0	0.60	1	12/08/16 15:20	12/15/16 16:53	208-96-8	
Anthracene	56.0	ug/kg	3.4	1.0	1	12/08/16 15:20	12/15/16 16:53	120-12-7	
Benzo(a)anthracene	118	ug/kg	3.5	1.0	1	12/08/16 15:20	12/15/16 16:53	56-55-3	
Benzo(a)pyrene	124	ug/kg	2.6	0.77	1	12/08/16 15:20	12/15/16 16:53	50-32-8	
Benzo(b)fluoranthene	153	ug/kg	4.2	1.3	1	12/08/16 15:20	12/15/16 16:53	205-99-2	
Benzo(g,h,i)perylene	83.8	ug/kg	3.4	1.0	1	12/08/16 15:20	12/15/16 16:53	191-24-2	
Benzo(k)fluoranthene	46.8	ug/kg	3.6	1.1	1	12/08/16 15:20	12/15/16 16:53	207-08-9	
Chrysene	116	ug/kg	4.1	1.2	1	12/08/16 15:20	12/15/16 16:53	218-01-9	
Dibenz(a,h)anthracene	<2.4	ug/kg	2.4	0.73	1	12/08/16 15:20	12/15/16 16:53	53-70-3	
Fluoranthene	216	ug/kg	5.8	1.7	1	12/08/16 15:20	12/15/16 16:53	206-44-0	
Fluorene	30.8	ug/kg	2.8	0.85	1	12/08/16 15:20	12/15/16 16:53	86-73-7	
Indeno(1,2,3-cd)pyrene	68.7	ug/kg	5.5	1.7	1	12/08/16 15:20	12/15/16 16:53	193-39-5	
Naphthalene	43.9	ug/kg	2.6	0.79	1	12/08/16 15:20	12/15/16 16:53	91-20-3	
Phenanthrene	153	ug/kg	3.0	0.89	1	12/08/16 15:20	12/15/16 16:53	85-01-8	
Pyrene	204	ug/kg	6.1	1.8	1	12/08/16 15:20	12/15/16 16:53	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	65	%	41-125		1	12/08/16 15:20	12/15/16 16:53	321-60-8	
p-Terphenyl-d14 (S)	63	%	39-125		1	12/08/16 15:20	12/15/16 16:53	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<2450	ug/kg	2450	735	1	12/08/16 13:13	12/12/16 16:30	67-64-1	
Allyl chloride	<320	ug/kg	320	96.1	1	12/08/16 13:13	12/12/16 16:30	107-05-1	
Benzene	<32.2	ug/kg	32.2	9.7	1	12/08/16 13:13	12/12/16 16:30	71-43-2	
Bromobenzene	<95.5	ug/kg	95.5	28.7	1	12/08/16 13:13	12/12/16 16:30	108-86-1	
Bromochloromethane	<111	ug/kg	111	33.4	1	12/08/16 13:13	12/12/16 16:30	74-97-5	
Bromodichloromethane	<104	ug/kg	104	31.4	1	12/08/16 13:13	12/12/16 16:30	75-27-4	
Bromoform	<322	ug/kg	322	96.6	1	12/08/16 13:13	12/12/16 16:30	75-25-2	
Bromomethane	<378	ug/kg	378	114	1	12/08/16 13:13	12/12/16 16:30	74-83-9	
2-Butanone (MEK)	<492	ug/kg	492	148	1	12/08/16 13:13	12/12/16 16:30	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

**Sample: S2\_29-29.5**      **Lab ID: 10372447006**      Collected: 12/05/16 15:00      Received: 12/06/16 17:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<90.3	ug/kg	90.3	27.1	1	12/08/16 13:13	12/12/16 16:30	104-51-8	
sec-Butylbenzene	<88.0	ug/kg	88.0	26.4	1	12/08/16 13:13	12/12/16 16:30	135-98-8	
tert-Butylbenzene	<118	ug/kg	118	35.4	1	12/08/16 13:13	12/12/16 16:30	98-06-6	
Carbon tetrachloride	<117	ug/kg	117	35.2	1	12/08/16 13:13	12/12/16 16:30	56-23-5	
Chlorobenzene	<64.9	ug/kg	64.9	19.5	1	12/08/16 13:13	12/12/16 16:30	108-90-7	
Chloroethane	<589	ug/kg	589	177	1	12/08/16 13:13	12/12/16 16:30	75-00-3	
Chloroform	<181	ug/kg	181	54.4	1	12/08/16 13:13	12/12/16 16:30	67-66-3	
Chloromethane	<181	ug/kg	181	54.2	1	12/08/16 13:13	12/12/16 16:30	74-87-3	
2-Chlorotoluene	<103	ug/kg	103	30.9	1	12/08/16 13:13	12/12/16 16:30	95-49-8	
4-Chlorotoluene	<97.7	ug/kg	97.7	29.4	1	12/08/16 13:13	12/12/16 16:30	106-43-4	
1,2-Dibromo-3-chloropropane	<218	ug/kg	218	218	1	12/08/16 13:13	12/12/16 16:30	96-12-8	
Dibromochloromethane	<320	ug/kg	320	96.1	1	12/08/16 13:13	12/12/16 16:30	124-48-1	
1,2-Dibromoethane (EDB)	<42.1	ug/kg	42.1	42.1	1	12/08/16 13:13	12/12/16 16:30	106-93-4	
Dibromomethane	<145	ug/kg	145	43.7	1	12/08/16 13:13	12/12/16 16:30	74-95-3	
1,2-Dichlorobenzene	<21.6	ug/kg	21.6	21.6	1	12/08/16 13:13	12/12/16 16:30	95-50-1	
1,3-Dichlorobenzene	<32.9	ug/kg	32.9	21.6	1	12/08/16 13:13	12/12/16 16:30	541-73-1	
1,4-Dichlorobenzene	<108	ug/kg	108	32.5	1	12/08/16 13:13	12/12/16 16:30	106-46-7	
Dichlorodifluoromethane	<114	ug/kg	114	34.3	1	12/08/16 13:13	12/12/16 16:30	75-71-8	
1,1-Dichloroethane	<43.5	ug/kg	43.5	43.5	1	12/08/16 13:13	12/12/16 16:30	75-34-3	
1,2-Dichloroethane	<35.4	ug/kg	35.4	35.4	1	12/08/16 13:13	12/12/16 16:30	107-06-2	
1,1-Dichloroethene	<28.5	ug/kg	28.5	28.5	1	12/08/16 13:13	12/12/16 16:30	75-35-4	
cis-1,2-Dichloroethene	<139	ug/kg	139	41.7	1	12/08/16 13:13	12/12/16 16:30	156-59-2	
trans-1,2-Dichloroethene	<180	ug/kg	180	54.0	1	12/08/16 13:13	12/12/16 16:30	156-60-5	
Dichlorofluoromethane	<1020	ug/kg	1020	307	1	12/08/16 13:13	12/12/16 16:30	75-43-4	
1,2-Dichloropropane	<38.8	ug/kg	38.8	38.8	1	12/08/16 13:13	12/12/16 16:30	78-87-5	
1,3-Dichloropropane	<134	ug/kg	134	40.1	1	12/08/16 13:13	12/12/16 16:30	142-28-9	
2,2-Dichloropropane	<119	ug/kg	119	35.6	1	12/08/16 13:13	12/12/16 16:30	594-20-7	
1,1-Dichloropropene	<33.8	ug/kg	33.8	33.8	1	12/08/16 13:13	12/12/16 16:30	563-58-6	
cis-1,3-Dichloropropene	<170	ug/kg	170	51.1	1	12/08/16 13:13	12/12/16 16:30	10061-01-5	
trans-1,3-Dichloropropene	<127	ug/kg	127	38.1	1	12/08/16 13:13	12/12/16 16:30	10061-02-6	
Diethyl ether (Ethyl ether)	<154	ug/kg	154	46.2	1	12/08/16 13:13	12/12/16 16:30	60-29-7	
Ethylbenzene	<119	ug/kg	119	35.6	1	12/08/16 13:13	12/12/16 16:30	100-41-4	
Hexachloro-1,3-butadiene	<351	ug/kg	351	105	1	12/08/16 13:13	12/12/16 16:30	87-68-3	
Isopropylbenzene (Cumene)	<133	ug/kg	133	39.9	1	12/08/16 13:13	12/12/16 16:30	98-82-8	
p-Isopropyltoluene	<61.9	ug/kg	61.9	18.6	1	12/08/16 13:13	12/12/16 16:30	99-87-6	
Methylene Chloride	<691	ug/kg	691	207	1	12/08/16 13:13	12/12/16 16:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	<247	ug/kg	247	74.2	1	12/08/16 13:13	12/12/16 16:30	108-10-1	
Methyl-tert-butyl ether	<69.8	ug/kg	69.8	21.0	1	12/08/16 13:13	12/12/16 16:30	1634-04-4	
Naphthalene	<90.3	ug/kg	90.3	27.1	1	12/08/16 13:13	12/12/16 16:30	91-20-3	
n-Propylbenzene	<111	ug/kg	111	33.4	1	12/08/16 13:13	12/12/16 16:30	103-65-1	
Styrene	<97.0	ug/kg	97.0	29.1	1	12/08/16 13:13	12/12/16 16:30	100-42-5	
1,1,1,2-Tetrachloroethane	<44.4	ug/kg	44.4	44.4	1	12/08/16 13:13	12/12/16 16:30	630-20-6	
1,1,2,2-Tetrachloroethane	<24.9	ug/kg	24.9	24.9	1	12/08/16 13:13	12/12/16 16:30	79-34-5	
Tetrachloroethene	<143	ug/kg	143	42.8	1	12/08/16 13:13	12/12/16 16:30	127-18-4	
Tetrahydrofuran	<1850	ug/kg	1850	556	1	12/08/16 13:13	12/12/16 16:30	109-99-9	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

**Sample: S2\_29-29.5**      **Lab ID: 10372447006**      Collected: 12/05/16 15:00      Received: 12/06/16 17:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<b>280</b>	ug/kg	119	35.6	1	12/08/16 13:13	12/12/16 16:30	108-88-3	
1,2,3-Trichlorobenzene	<b>&lt;32.3</b>	ug/kg	32.3	32.3	1	12/08/16 13:13	12/12/16 16:30	87-61-6	
1,2,4-Trichlorobenzene	<b>&lt;34.5</b>	ug/kg	34.5	34.5	1	12/08/16 13:13	12/12/16 16:30	120-82-1	
1,1,1-Trichloroethane	<b>&lt;46.8</b>	ug/kg	46.8	46.8	1	12/08/16 13:13	12/12/16 16:30	71-55-6	
1,1,2-Trichloroethane	<b>&lt;24.2</b>	ug/kg	24.2	24.2	1	12/08/16 13:13	12/12/16 16:30	79-00-5	
Trichloroethene	<b>&lt;107</b>	ug/kg	107	32.0	1	12/08/16 13:13	12/12/16 16:30	79-01-6	
Trichlorofluoromethane	<b>&lt;375</b>	ug/kg	375	112	1	12/08/16 13:13	12/12/16 16:30	75-69-4	
1,2,3-Trichloropropane	<b>&lt;116</b>	ug/kg	116	116	1	12/08/16 13:13	12/12/16 16:30	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;269</b>	ug/kg	269	80.7	1	12/08/16 13:13	12/12/16 16:30	76-13-1	
1,2,4-Trimethylbenzene	<b>&lt;24.6</b>	ug/kg	24.6	24.6	1	12/08/16 13:13	12/12/16 16:30	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;85.8</b>	ug/kg	85.8	25.8	1	12/08/16 13:13	12/12/16 16:30	108-67-8	
Vinyl chloride	<b>&lt;47.9</b>	ug/kg	47.9	14.4	1	12/08/16 13:13	12/12/16 16:30	75-01-4	
Xylene (Total)	<b>&lt;298</b>	ug/kg	298	89.6	1	12/08/16 13:13	12/12/16 16:30	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-129		1	12/08/16 13:13	12/12/16 16:30	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/08/16 13:13	12/12/16 16:30	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/08/16 13:13	12/12/16 16:30	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

**Sample:** Trip Blank      **Lab ID:** 10372447007      Collected: 12/05/16 00:00      Received: 12/06/16 17:35      Matrix: Solid

**Results reported on a "wet-weight" basis**

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	<1090	ug/kg	1090	328	1	12/08/16 13:13	12/12/16 11:25	67-64-1	
Allyl chloride	<143	ug/kg	143	42.9	1	12/08/16 13:13	12/12/16 11:25	107-05-1	
Benzene	<14.4	ug/kg	14.4	4.3	1	12/08/16 13:13	12/12/16 11:25	71-43-2	
Bromobenzene	<42.6	ug/kg	42.6	12.8	1	12/08/16 13:13	12/12/16 11:25	108-86-1	
Bromochloromethane	<49.6	ug/kg	49.6	14.9	1	12/08/16 13:13	12/12/16 11:25	74-97-5	
Bromodichloromethane	<46.6	ug/kg	46.6	14.0	1	12/08/16 13:13	12/12/16 11:25	75-27-4	
Bromoform	<144	ug/kg	144	43.1	1	12/08/16 13:13	12/12/16 11:25	75-25-2	
Bromomethane	<169	ug/kg	169	50.7	1	12/08/16 13:13	12/12/16 11:25	74-83-9	
2-Butanone (MEK)	<220	ug/kg	220	66.0	1	12/08/16 13:13	12/12/16 11:25	78-93-3	
n-Butylbenzene	<40.3	ug/kg	40.3	12.1	1	12/08/16 13:13	12/12/16 11:25	104-51-8	
sec-Butylbenzene	<39.3	ug/kg	39.3	11.8	1	12/08/16 13:13	12/12/16 11:25	135-98-8	
tert-Butylbenzene	<52.6	ug/kg	52.6	15.8	1	12/08/16 13:13	12/12/16 11:25	98-06-6	
Carbon tetrachloride	<52.3	ug/kg	52.3	15.7	1	12/08/16 13:13	12/12/16 11:25	56-23-5	
Chlorobenzene	<29.0	ug/kg	29.0	8.7	1	12/08/16 13:13	12/12/16 11:25	108-90-7	
Chloroethane	<263	ug/kg	263	79.0	1	12/08/16 13:13	12/12/16 11:25	75-00-3	
Chloroform	<80.9	ug/kg	80.9	24.3	1	12/08/16 13:13	12/12/16 11:25	67-66-3	
Chloromethane	<80.6	ug/kg	80.6	24.2	1	12/08/16 13:13	12/12/16 11:25	74-87-3	
2-Chlorotoluene	<46.0	ug/kg	46.0	13.8	1	12/08/16 13:13	12/12/16 11:25	95-49-8	
4-Chlorotoluene	<43.6	ug/kg	43.6	13.1	1	12/08/16 13:13	12/12/16 11:25	106-43-4	
1,2-Dibromo-3-chloropropane	<97.5	ug/kg	97.5	97.5	1	12/08/16 13:13	12/12/16 11:25	96-12-8	
Dibromochloromethane	<143	ug/kg	143	42.9	1	12/08/16 13:13	12/12/16 11:25	124-48-1	
1,2-Dibromoethane (EDB)	<18.8	ug/kg	18.8	18.8	1	12/08/16 13:13	12/12/16 11:25	106-93-4	
Dibromomethane	<64.9	ug/kg	64.9	19.5	1	12/08/16 13:13	12/12/16 11:25	74-95-3	
1,2-Dichlorobenzene	<9.7	ug/kg	9.7	9.7	1	12/08/16 13:13	12/12/16 11:25	95-50-1	
1,3-Dichlorobenzene	<14.7	ug/kg	14.7	9.7	1	12/08/16 13:13	12/12/16 11:25	541-73-1	
1,4-Dichlorobenzene	<48.3	ug/kg	48.3	14.5	1	12/08/16 13:13	12/12/16 11:25	106-46-7	
Dichlorodifluoromethane	<50.9	ug/kg	50.9	15.3	1	12/08/16 13:13	12/12/16 11:25	75-71-8	
1,1-Dichloroethane	<19.4	ug/kg	19.4	19.4	1	12/08/16 13:13	12/12/16 11:25	75-34-3	
1,2-Dichloroethane	<15.8	ug/kg	15.8	15.8	1	12/08/16 13:13	12/12/16 11:25	107-06-2	
1,1-Dichloroethene	<12.7	ug/kg	12.7	12.7	1	12/08/16 13:13	12/12/16 11:25	75-35-4	
cis-1,2-Dichloroethene	<61.9	ug/kg	61.9	18.6	1	12/08/16 13:13	12/12/16 11:25	156-59-2	
trans-1,2-Dichloroethene	<80.3	ug/kg	80.3	24.1	1	12/08/16 13:13	12/12/16 11:25	156-60-5	
Dichlorofluoromethane	<456	ug/kg	456	137	1	12/08/16 13:13	12/12/16 11:25	75-43-4	
1,2-Dichloropropane	<17.3	ug/kg	17.3	17.3	1	12/08/16 13:13	12/12/16 11:25	78-87-5	
1,3-Dichloropropane	<59.6	ug/kg	59.6	17.9	1	12/08/16 13:13	12/12/16 11:25	142-28-9	
2,2-Dichloropropane	<52.9	ug/kg	52.9	15.9	1	12/08/16 13:13	12/12/16 11:25	594-20-7	
1,1-Dichloropropene	<15.1	ug/kg	15.1	15.1	1	12/08/16 13:13	12/12/16 11:25	563-58-6	
cis-1,3-Dichloropropene	<75.9	ug/kg	75.9	22.8	1	12/08/16 13:13	12/12/16 11:25	10061-01-5	
trans-1,3-Dichloropropene	<56.6	ug/kg	56.6	17.0	1	12/08/16 13:13	12/12/16 11:25	10061-02-6	
Diethyl ether (Ethyl ether)	<68.6	ug/kg	68.6	20.6	1	12/08/16 13:13	12/12/16 11:25	60-29-7	
Ethylbenzene	<52.9	ug/kg	52.9	15.9	1	12/08/16 13:13	12/12/16 11:25	100-41-4	
Hexachloro-1,3-butadiene	<157	ug/kg	157	47.0	1	12/08/16 13:13	12/12/16 11:25	87-68-3	
Isopropylbenzene (Cumene)	<59.3	ug/kg	59.3	17.8	1	12/08/16 13:13	12/12/16 11:25	98-82-8	
p-Isopropyltoluene	<27.6	ug/kg	27.6	8.3	1	12/08/16 13:13	12/12/16 11:25	99-87-6	
Methylene Chloride	<308	ug/kg	308	92.6	1	12/08/16 13:13	12/12/16 11:25	75-09-2	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

**Sample: Trip Blank**      **Lab ID: 10372447007**      Collected: 12/05/16 00:00      Received: 12/06/16 17:35      Matrix: Solid

**Results reported on a "wet-weight" basis**

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
4-Methyl-2-pentanone (MIBK)	<110	ug/kg	110	33.1	1	12/08/16 13:13	12/12/16 11:25	108-10-1	
Methyl-tert-butyl ether	<31.2	ug/kg	31.2	9.4	1	12/08/16 13:13	12/12/16 11:25	1634-04-4	
Naphthalene	<40.3	ug/kg	40.3	12.1	1	12/08/16 13:13	12/12/16 11:25	91-20-3	
n-Propylbenzene	<49.6	ug/kg	49.6	14.9	1	12/08/16 13:13	12/12/16 11:25	103-65-1	
Styrene	<43.3	ug/kg	43.3	13.0	1	12/08/16 13:13	12/12/16 11:25	100-42-5	
1,1,1,2-Tetrachloroethane	<19.8	ug/kg	19.8	19.8	1	12/08/16 13:13	12/12/16 11:25	630-20-6	
1,1,2,2-Tetrachloroethane	<11.1	ug/kg	11.1	11.1	1	12/08/16 13:13	12/12/16 11:25	79-34-5	
Tetrachloroethene	<63.6	ug/kg	63.6	19.1	1	12/08/16 13:13	12/12/16 11:25	127-18-4	
Tetrahydrofuran	<826	ug/kg	826	248	1	12/08/16 13:13	12/12/16 11:25	109-99-9	
Toluene	<52.9	ug/kg	52.9	15.9	1	12/08/16 13:13	12/12/16 11:25	108-88-3	
1,2,3-Trichlorobenzene	<14.4	ug/kg	14.4	14.4	1	12/08/16 13:13	12/12/16 11:25	87-61-6	
1,2,4-Trichlorobenzene	<15.4	ug/kg	15.4	15.4	1	12/08/16 13:13	12/12/16 11:25	120-82-1	
1,1,1-Trichloroethane	<20.9	ug/kg	20.9	20.9	1	12/08/16 13:13	12/12/16 11:25	71-55-6	
1,1,2-Trichloroethane	<10.8	ug/kg	10.8	10.8	1	12/08/16 13:13	12/12/16 11:25	79-00-5	
Trichloroethene	<47.6	ug/kg	47.6	14.3	1	12/08/16 13:13	12/12/16 11:25	79-01-6	
Trichlorofluoromethane	<167	ug/kg	167	50.2	1	12/08/16 13:13	12/12/16 11:25	75-69-4	
1,2,3-Trichloropropane	<51.8	ug/kg	51.8	51.8	1	12/08/16 13:13	12/12/16 11:25	96-18-4	
1,1,2-Trichlorotrifluoroethane	<120	ug/kg	120	36.0	1	12/08/16 13:13	12/12/16 11:25	76-13-1	
1,2,4-Trimethylbenzene	<11.0	ug/kg	11.0	11.0	1	12/08/16 13:13	12/12/16 11:25	95-63-6	
1,3,5-Trimethylbenzene	<38.3	ug/kg	38.3	11.5	1	12/08/16 13:13	12/12/16 11:25	108-67-8	
Vinyl chloride	<21.4	ug/kg	21.4	6.4	1	12/08/16 13:13	12/12/16 11:25	75-01-4	
Xylene (Total)	<133	ug/kg	133	40.0	1	12/08/16 13:13	12/12/16 11:25	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	93	%	75-129		1	12/08/16 13:13	12/12/16 11:25	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/08/16 13:13	12/12/16 11:25	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/08/16 13:13	12/12/16 11:25	460-00-4	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_rev  
Pace Project No.: 10372447

QC Batch: 450976 Analysis Method: EPA 7471B  
QC Batch Method: EPA 7471B Analysis Description: 7471B Mercury Solids  
Associated Lab Samples: 10372447001, 10372447002, 10372447003, 10372447004, 10372447005, 10372447006

METHOD BLANK: 2469424 Matrix: Solid  
Associated Lab Samples: 10372447001, 10372447002, 10372447003, 10372447004, 10372447005, 10372447006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.017	0.017	12/18/16 18:45	

LABORATORY CONTROL SAMPLE: 2469425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.47	0.44	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2469426 2469427

Parameter	Units	10372447001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.051	.64	.69	0.69	0.72	100	95	75-125	4	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_rev  
Pace Project No.: 10372447

QC Batch: 450962 Analysis Method: EPA 6010C  
QC Batch Method: EPA 3050 Analysis Description: 6010C Solids  
Associated Lab Samples: 10372447001, 10372447002, 10372447003, 10372447004, 10372447005, 10372447006

METHOD BLANK: 2469368 Matrix: Solid  
Associated Lab Samples: 10372447001, 10372447002, 10372447003, 10372447004, 10372447005, 10372447006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<0.66	0.66	12/19/16 06:19	
Barium	mg/kg	<0.053	0.053	12/19/16 06:19	
Cadmium	mg/kg	<0.031	0.031	12/19/16 06:19	
Chromium	mg/kg	<0.34	0.34	12/19/16 06:19	
Lead	mg/kg	<0.33	0.33	12/19/16 06:19	
Selenium	mg/kg	<0.96	0.96	12/19/16 06:19	
Silver	mg/kg	<0.26	0.26	12/19/16 06:19	

LABORATORY CONTROL SAMPLE: 2469369

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	49	49.5	101	80-120	
Barium	mg/kg	49	50.9	104	80-120	
Cadmium	mg/kg	49	49.6	101	80-120	
Chromium	mg/kg	49	51.1	104	80-120	
Lead	mg/kg	49	49.0	100	80-120	
Selenium	mg/kg	49	48.7	99	80-120	
Silver	mg/kg	24.5	24.0	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2469370 2469371

Parameter	Units	10372447001		2469371		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Arsenic	mg/kg	3.6	66.4	69.5	60.4	65.0	86	88	75-125	7	20	
Barium	mg/kg	63.2	66.4	69.5	109	126	68	91	75-125	15	20	M1
Cadmium	mg/kg	0.16	66.4	69.5	58.4	62.0	88	89	75-125	6	20	
Chromium	mg/kg	17.9	66.4	69.5	75.8	75.7	87	83	75-125	0	20	
Lead	mg/kg	9.2	66.4	69.5	64.3	67.6	83	84	75-125	5	20	
Selenium	mg/kg	<1.3	66.4	69.5	57.4	61.0	86	87	75-125	6	20	
Silver	mg/kg	<0.37	33.1	34.7	28.7	30.6	86	88	75-125	6	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

QC Batch: 450795 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10372447001, 10372447002, 10372447003, 10372447004, 10372447005, 10372447006, 10372447007

METHOD BLANK: 2468311 Matrix: Solid  
Associated Lab Samples: 10372447001, 10372447002, 10372447003, 10372447004, 10372447005, 10372447006, 10372447007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/12/16 10:53	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/12/16 10:53	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/12/16 10:53	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/12/16 10:53	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/12/16 10:53	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/12/16 10:53	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/12/16 10:53	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/12/16 10:53	
1,2,3-Trichlorobenzene	ug/kg	<14.4	14.4	12/12/16 10:53	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/12/16 10:53	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/12/16 10:53	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/12/16 10:53	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/12/16 10:53	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/12/16 10:53	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/12/16 10:53	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/12/16 10:53	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/12/16 10:53	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/12/16 10:53	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/12/16 10:53	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/12/16 10:53	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/12/16 10:53	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/12/16 10:53	
2-Butanone (MEK)	ug/kg	<220	220	12/12/16 10:53	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/12/16 10:53	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/12/16 10:53	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/12/16 10:53	
Acetone	ug/kg	<1090	1090	12/12/16 10:53	
Allyl chloride	ug/kg	<143	143	12/12/16 10:53	
Benzene	ug/kg	<14.4	14.4	12/12/16 10:53	
Bromobenzene	ug/kg	<42.6	42.6	12/12/16 10:53	
Bromochloromethane	ug/kg	<49.6	49.6	12/12/16 10:53	
Bromodichloromethane	ug/kg	<46.6	46.6	12/12/16 10:53	
Bromoform	ug/kg	<144	144	12/12/16 10:53	
Bromomethane	ug/kg	<169	169	12/12/16 10:53	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/12/16 10:53	
Chlorobenzene	ug/kg	<29.0	29.0	12/12/16 10:53	
Chloroethane	ug/kg	<263	263	12/12/16 10:53	
Chloroform	ug/kg	<80.9	80.9	12/12/16 10:53	
Chloromethane	ug/kg	<80.6	80.6	12/12/16 10:53	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/12/16 10:53	
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/12/16 10:53	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_rev  
Pace Project No.: 10372447

METHOD BLANK: 2468311 Matrix: Solid  
Associated Lab Samples: 10372447001, 10372447002, 10372447003, 10372447004, 10372447005, 10372447006, 10372447007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<143	143	12/12/16 10:53	
Dibromomethane	ug/kg	<64.9	64.9	12/12/16 10:53	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/12/16 10:53	
Dichlorofluoromethane	ug/kg	<456	456	12/12/16 10:53	
Diethyl ether (Ethyl ether)	ug/kg	<68.6	68.6	12/12/16 10:53	
Ethylbenzene	ug/kg	<52.9	52.9	12/12/16 10:53	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/12/16 10:53	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/12/16 10:53	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/12/16 10:53	
Methylene Chloride	ug/kg	<308	308	12/12/16 10:53	
n-Butylbenzene	ug/kg	<40.3	40.3	12/12/16 10:53	
n-Propylbenzene	ug/kg	<49.6	49.6	12/12/16 10:53	
Naphthalene	ug/kg	<40.3	40.3	12/12/16 10:53	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/12/16 10:53	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/12/16 10:53	
Styrene	ug/kg	<43.3	43.3	12/12/16 10:53	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/12/16 10:53	
Tetrachloroethene	ug/kg	<63.6	63.6	12/12/16 10:53	
Tetrahydrofuran	ug/kg	<826	826	12/12/16 10:53	
Toluene	ug/kg	<52.9	52.9	12/12/16 10:53	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/12/16 10:53	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/12/16 10:53	
Trichloroethene	ug/kg	<47.6	47.6	12/12/16 10:53	
Trichlorofluoromethane	ug/kg	<167	167	12/12/16 10:53	
Vinyl chloride	ug/kg	<21.4	21.4	12/12/16 10:53	
Xylene (Total)	ug/kg	<133	133	12/12/16 10:53	
1,2-Dichloroethane-d4 (S)	%	94	75-129	12/12/16 10:53	
4-Bromofluorobenzene (S)	%	100	75-125	12/12/16 10:53	
Toluene-d8 (S)	%	99	75-125	12/12/16 10:53	

LABORATORY CONTROL SAMPLE: 2468312

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	792	79	71-127	
1,1,1-Trichloroethane	ug/kg	1000	814	81	64-132	
1,1,2,2-Tetrachloroethane	ug/kg	1000	817	82	50-138	
1,1,2-Trichloroethane	ug/kg	1000	783	78	69-126	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	750	75	53-144	
1,1-Dichloroethane	ug/kg	1000	882	88	61-134	
1,1-Dichloroethene	ug/kg	1000	791	79	57-135	
1,1-Dichloropropene	ug/kg	1000	912	91	59-133	
1,2,3-Trichlorobenzene	ug/kg	1000	756	76	32-150	
1,2,3-Trichloropropane	ug/kg	1000	759	76	62-130	
1,2,4-Trichlorobenzene	ug/kg	1000	747	75	38-138	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

LABORATORY CONTROL SAMPLE: 2468312

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	769	77	70-127	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1720	69	40-141	
1,2-Dibromoethane (EDB)	ug/kg	1000	763	76	69-130	
1,2-Dichlorobenzene	ug/kg	1000	787	79	72-125	
1,2-Dichloroethane	ug/kg	1000	754	75	62-125	
1,2-Dichloropropane	ug/kg	1000	886	89	67-126	
1,3,5-Trimethylbenzene	ug/kg	1000	797	80	71-129	
1,3-Dichlorobenzene	ug/kg	1000	767	77	72-126	
1,3-Dichloropropane	ug/kg	1000	793	79	70-125	
1,4-Dichlorobenzene	ug/kg	1000	768	77	70-126	
2,2-Dichloropropane	ug/kg	1000	772	77	48-134	
2-Butanone (MEK)	ug/kg	5000	3770	75	38-149	
2-Chlorotoluene	ug/kg	1000	764	76	71-129	
4-Chlorotoluene	ug/kg	1000	817	82	72-128	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	3780	76	52-145	
Acetone	ug/kg	5000	4010	80	65-142	
Allyl chloride	ug/kg	1000	765	77	54-125	
Benzene	ug/kg	1000	874	87	64-125	
Bromobenzene	ug/kg	1000	774	77	70-125	
Bromochloromethane	ug/kg	1000	854	85	68-125	
Bromodichloromethane	ug/kg	1000	807	81	67-125	
Bromoform	ug/kg	1000	667	67	56-127	
Bromomethane	ug/kg	1000	821	82	34-137	
Carbon tetrachloride	ug/kg	1000	832	83	58-138	
Chlorobenzene	ug/kg	1000	760	76	72-125	
Chloroethane	ug/kg	1000	907	91	39-148	
Chloroform	ug/kg	1000	792	79	67-125	
Chloromethane	ug/kg	1000	776	78	54-125	
cis-1,2-Dichloroethene	ug/kg	1000	861	86	67-125	
cis-1,3-Dichloropropene	ug/kg	1000	799	80	62-127	
Dibromochloromethane	ug/kg	1000	721	72	67-125	
Dibromomethane	ug/kg	1000	740	74	63-129	
Dichlorodifluoromethane	ug/kg	1000	627	63	34-139	
Dichlorofluoromethane	ug/kg	1000	803	80	36-144	
Diethyl ether (Ethyl ether)	ug/kg	1000	674	67	51-125	
Ethylbenzene	ug/kg	1000	783	78	70-129	
Hexachloro-1,3-butadiene	ug/kg	1000	769	77	48-126	
Isopropylbenzene (Cumene)	ug/kg	1000	786	79	75-127	
Methyl-tert-butyl ether	ug/kg	1000	832	83	61-125	
Methylene Chloride	ug/kg	1000	784	78	60-126	
n-Butylbenzene	ug/kg	1000	792	79	67-125	
n-Propylbenzene	ug/kg	1000	803	80	72-133	
Naphthalene	ug/kg	1000	742	74	35-147	
p-Isopropyltoluene	ug/kg	1000	778	78	69-127	
sec-Butylbenzene	ug/kg	1000	816	82	70-127	
Styrene	ug/kg	1000	778	78	73-125	
tert-Butylbenzene	ug/kg	1000	792	79	71-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

LABORATORY CONTROL SAMPLE: 2468312

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	824	82	66-135	
Tetrahydrofuran	ug/kg	10000	8810	88	66-145	
Toluene	ug/kg	1000	847	85	69-125	
trans-1,2-Dichloroethene	ug/kg	1000	811	81	55-135	
trans-1,3-Dichloropropene	ug/kg	1000	791	79	67-125	
Trichloroethene	ug/kg	1000	829	83	62-141	
Trichlorofluoromethane	ug/kg	1000	947	95	38-150	
Vinyl chloride	ug/kg	1000	887	89	57-131	
Xylene (Total)	ug/kg	3000	2330	78	73-128	
1,2-Dichloroethane-d4 (S)	%			97	75-129	
4-Bromofluorobenzene (S)	%			104	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE SAMPLE: 2468332

Parameter	Units	10372447001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<29.6	1620	1890	116	59-135	
1,1,1-Trichloroethane	ug/kg	<31.2	1620	1850	114	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	<16.6	1620	1950	120	40-149	
1,1,2-Trichloroethane	ug/kg	<16.1	1620	1790	111	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	<179	1620	1470	91	41-150	
1,1-Dichloroethane	ug/kg	<29.0	1620	1930	119	53-131	
1,1-Dichloroethene	ug/kg	<19.0	1620	1700	105	41-133	
1,1-Dichloropropene	ug/kg	<22.6	1620	1950	121	50-139	
1,2,3-Trichlorobenzene	ug/kg	<21.5	1620	1860	115	52-150	
1,2,3-Trichloropropane	ug/kg	<77.4	1620	1940	120	61-137	
1,2,4-Trichlorobenzene	ug/kg	<23.0	1620	1810	112	52-142	
1,2,4-Trimethylbenzene	ug/kg	<16.4	1620	1830	113	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	<146	4050	4550	112	47-143	
1,2-Dibromoethane (EDB)	ug/kg	<28.1	1620	1780	110	57-136	
1,2-Dichlorobenzene	ug/kg	<14.4	1620	1920	119	59-136	
1,2-Dichloroethane	ug/kg	<23.6	1620	1710	106	52-133	
1,2-Dichloropropane	ug/kg	<25.9	1620	1960	121	62-129	
1,3,5-Trimethylbenzene	ug/kg	<57.2	1620	1840	114	54-143	
1,3-Dichlorobenzene	ug/kg	<22.0	1620	1870	116	60-137	
1,3-Dichloropropane	ug/kg	<89.1	1620	1930	119	57-138	
1,4-Dichlorobenzene	ug/kg	<72.2	1620	1790	111	51-132	
2,2-Dichloropropane	ug/kg	<79.1	1620	1710	105	50-134	
2-Butanone (MEK)	ug/kg	<328	8100	9130	113	46-125	
2-Chlorotoluene	ug/kg	<68.7	1620	1750	108	60-141	
4-Chlorotoluene	ug/kg	<65.2	1620	1860	115	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	<165	8100	9370	116	47-146	
Acetone	ug/kg	<1630	8100	9940	123	45-148	
Allyl chloride	ug/kg	<213	1620	1620	100	50-135	
Benzene	ug/kg	<21.5	1620	1980	122	41-134	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_rev  
Pace Project No.: 10372447

MATRIX SPIKE SAMPLE: 2468332		10372447001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromobenzene	ug/kg	<63.7	1620	1800	111	59-134	
Bromochloromethane	ug/kg	<74.1	1620	1940	120	56-127	
Bromodichloromethane	ug/kg	<69.7	1620	1820	113	55-136	
Bromoform	ug/kg	<214	1620	1690	104	51-139	
Bromomethane	ug/kg	<252	1620	1340	83	35-148	
Carbon tetrachloride	ug/kg	<78.1	1620	1900	117	50-140	
Chlorobenzene	ug/kg	<43.3	1620	1790	110	59-133	
Chloroethane	ug/kg	<393	1620	1340	83	30-150	
Chloroform	ug/kg	<121	1620	1800	111	58-128	
Chloromethane	ug/kg	<120	1620	1140	70	38-125	
cis-1,2-Dichloroethene	ug/kg	<92.6	1620	1950	120	59-125	
cis-1,3-Dichloropropene	ug/kg	<113	1620	1830	113	57-133	
Dibromochloromethane	ug/kg	<213	1620	1750	108	54-141	
Dibromomethane	ug/kg	<97.0	1620	1820	112	53-134	
Dichlorodifluoromethane	ug/kg	<76.1	1620	602	37	30-125	
Dichlorofluoromethane	ug/kg	<682	1620	1260	78	30-150	
Diethyl ether (Ethyl ether)	ug/kg	<103	1620	1540	95	46-137	
Ethylbenzene	ug/kg	<79.1	1620	1830	113	56-141	
Hexachloro-1,3-butadiene	ug/kg	<234	1620	1980	122	45-150	
Isopropylbenzene (Cumene)	ug/kg	<88.6	1620	1860	115	48-141	
Methyl-tert-butyl ether	ug/kg	<46.6	1620	1890	117	53-133	
Methylene Chloride	ug/kg	<461	1620	1730	106	42-135	
n-Butylbenzene	ug/kg	<60.2	1620	1880	116	52-140	
n-Propylbenzene	ug/kg	<74.1	1620	1860	115	57-142	
Naphthalene	ug/kg	<60.2	1620	1900	117	41-150	
p-Isopropyltoluene	ug/kg	<41.3	1620	1830	113	54-139	
sec-Butylbenzene	ug/kg	<58.7	1620	1970	122	30-150	
Styrene	ug/kg	<64.7	1620	1860	115	53-137	
tert-Butylbenzene	ug/kg	<78.6	1620	1940	120	59-138	
Tetrachloroethene	ug/kg	<95.0	1620	1930	119	53-138	
Tetrahydrofuran	ug/kg	<1230	16200	19900	123	50-145	
Toluene	ug/kg	208	1620	2200	123	55-134	
trans-1,2-Dichloroethene	ug/kg	<120	1620	1770	110	44-135	
trans-1,3-Dichloropropene	ug/kg	<84.6	1620	1870	115	59-139	
Trichloroethene	ug/kg	<71.2	1620	1860	115	52-143	
Trichlorofluoromethane	ug/kg	<250	1620	1410	87	30-150	
Vinyl chloride	ug/kg	<31.9	1620	1350	83	36-127	
Xylene (Total)	ug/kg	<199	4860	5580	115	56-137	
1,2-Dichloroethane-d4 (S)	%				95	75-129	
4-Bromofluorobenzene (S)	%				101	75-125	
Toluene-d8 (S)	%				101	75-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

SAMPLE DUPLICATE: 2468333

Parameter	Units	10372447002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<26.0	<32.7		30	
1,1,1-Trichloroethane	ug/kg	<27.4	<34.5		30	
1,1,2,2-Tetrachloroethane	ug/kg	<14.6	<18.3		30	
1,1,2-Trichloroethane	ug/kg	<14.2	<17.8		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	<157	<198		30	
1,1-Dichloroethane	ug/kg	<25.4	<32.1		30	
1,1-Dichloroethene	ug/kg	<16.6	<21.0		30	
1,1-Dichloropropene	ug/kg	<19.8	<25.0		30	
1,2,3-Trichlorobenzene	ug/kg	<18.9	<23.8		30	
1,2,3-Trichloropropane	ug/kg	<67.9	<85.6		30	
1,2,4-Trichlorobenzene	ug/kg	<20.2	<25.5		30	
1,2,4-Trimethylbenzene	ug/kg	<14.4	22.7		30	
1,2-Dibromo-3-chloropropane	ug/kg	<128	<161		30	
1,2-Dibromoethane (EDB)	ug/kg	<24.6	<31.1		30	
1,2-Dichlorobenzene	ug/kg	<12.7	<16.0		30	
1,2-Dichloroethane	ug/kg	<20.7	<26.1		30	
1,2-Dichloropropane	ug/kg	<22.7	<28.6		30	
1,3,5-Trimethylbenzene	ug/kg	<50.2	<63.3		30	
1,3-Dichlorobenzene	ug/kg	<19.3	<24.3		30	
1,3-Dichloropropane	ug/kg	<78.1	<98.5		30	
1,4-Dichlorobenzene	ug/kg	<63.3	<79.8		30	
2,2-Dichloropropane	ug/kg	<69.4	<87.5		30	
2-Butanone (MEK)	ug/kg	<288	<363		30	
2-Chlorotoluene	ug/kg	<60.2	<75.9		30	
4-Chlorotoluene	ug/kg	<57.2	<72.1		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	<144	<182		30	
Acetone	ug/kg	<1430	<1810		30	
Allyl chloride	ug/kg	<187	<236		30	
Benzene	ug/kg	<18.9	<23.8		30	
Bromobenzene	ug/kg	<55.9	<70.4		30	
Bromochloromethane	ug/kg	<65.0	<82.0		30	
Bromodichloromethane	ug/kg	<61.1	<77.0		30	
Bromoform	ug/kg	<188	<237		30	
Bromomethane	ug/kg	<221	<279		30	
Carbon tetrachloride	ug/kg	<68.5	<86.4		30	
Chlorobenzene	ug/kg	<38.0	<47.9		30	
Chloroethane	ug/kg	<345	<435		30	
Chloroform	ug/kg	<106	<134		30	
Chloromethane	ug/kg	<106	<133		30	
cis-1,2-Dichloroethene	ug/kg	<81.2	<102		30	
cis-1,3-Dichloropropene	ug/kg	<99.5	<125		30	
Dibromochloromethane	ug/kg	<187	<236		30	
Dibromomethane	ug/kg	<85.1	<107		30	
Dichlorodifluoromethane	ug/kg	<66.8	<84.2		30	
Dichlorofluoromethane	ug/kg	<598	<754		30	
Diethyl ether (Ethyl ether)	ug/kg	<89.9	<113		30	
Ethylbenzene	ug/kg	<69.4	<87.5		30	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

SAMPLE DUPLICATE: 2468333

Parameter	Units	10372447002 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<205	<259		30	
Isopropylbenzene (Cumene)	ug/kg	<77.7	<98.0		30	
Methyl-tert-butyl ether	ug/kg	<40.9	<51.5		30	
Methylene Chloride	ug/kg	<404	<510		30	
n-Butylbenzene	ug/kg	<52.8	<66.6		30	
n-Propylbenzene	ug/kg	<65.0	<82.0		30	
Naphthalene	ug/kg	<52.8	106		30	
p-Isopropyltoluene	ug/kg	<36.2	<45.7		30	
sec-Butylbenzene	ug/kg	<51.5	<64.9		30	
Styrene	ug/kg	<56.8	<71.5		30	
tert-Butylbenzene	ug/kg	<69.0	<87.0		30	
Tetrachloroethene	ug/kg	<83.4	<105		30	
Tetrahydrofuran	ug/kg	<1080	<1360		30	
Toluene	ug/kg	<69.4	<87.5		30	
trans-1,2-Dichloroethene	ug/kg	<105	<133		30	
trans-1,3-Dichloropropene	ug/kg	<74.2	<93.6		30	
Trichloroethene	ug/kg	<62.4	<78.7		30	
Trichlorofluoromethane	ug/kg	<219	<276		30	
Vinyl chloride	ug/kg	<28.0	<35.3		30	
Xylene (Total)	ug/kg	<175	<220		30	
1,2-Dichloroethane-d4 (S)	%.	96	99	26		
4-Bromofluorobenzene (S)	%.	100	102	25		
Toluene-d8 (S)	%.	97	96	22		

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_rev  
Pace Project No.: 10372447

QC Batch: 450854 Analysis Method: EPA 8270D by SIM  
QC Batch Method: EPA 3550 Analysis Description: 8270D Solid PAH by SIM MSSV  
Associated Lab Samples: 10372447001, 10372447002, 10372447003, 10372447004, 10372447005, 10372447006

METHOD BLANK: 2468554 Matrix: Solid  
Associated Lab Samples: 10372447001, 10372447002, 10372447003, 10372447004, 10372447005, 10372447006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	<1.3	1.3	12/15/16 08:41	
Acenaphthylene	ug/kg	<0.91	0.91	12/15/16 08:41	
Anthracene	ug/kg	<1.5	1.5	12/15/16 08:41	
Benzo(a)anthracene	ug/kg	<1.6	1.6	12/15/16 08:41	
Benzo(a)pyrene	ug/kg	<1.2	1.2	12/15/16 08:41	
Benzo(b)fluoranthene	ug/kg	<1.9	1.9	12/15/16 08:41	
Benzo(g,h,i)perylene	ug/kg	<1.5	1.5	12/15/16 08:41	
Benzo(k)fluoranthene	ug/kg	<1.6	1.6	12/15/16 08:41	
Chrysene	ug/kg	<1.8	1.8	12/15/16 08:41	
Dibenz(a,h)anthracene	ug/kg	<1.1	1.1	12/15/16 08:41	
Fluoranthene	ug/kg	<2.6	2.6	12/15/16 08:41	
Fluorene	ug/kg	<1.3	1.3	12/15/16 08:41	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.5	2.5	12/15/16 08:41	
Naphthalene	ug/kg	<1.2	1.2	12/15/16 08:41	
Phenanthrene	ug/kg	<1.3	1.3	12/15/16 08:41	
Pyrene	ug/kg	<2.8	2.8	12/15/16 08:41	
2-Fluorobiphenyl (S)	%	76	41-125	12/15/16 08:41	
p-Terphenyl-d14 (S)	%	71	39-125	12/15/16 08:41	

LABORATORY CONTROL SAMPLE: 2468555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	33.3	25.4	76	53-125	
Acenaphthylene	ug/kg	33.3	26.5	80	50-125	
Anthracene	ug/kg	33.3	28.2	85	60-125	
Benzo(a)anthracene	ug/kg	33.3	33.4	100	63-125	
Benzo(a)pyrene	ug/kg	33.3	33.3	100	65-125	
Benzo(b)fluoranthene	ug/kg	33.3	32.7	98	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	31.7	95	62-125	
Benzo(k)fluoranthene	ug/kg	33.3	29.6	89	65-125	
Chrysene	ug/kg	33.3	27.8	83	62-125	
Dibenz(a,h)anthracene	ug/kg	33.3	31.8	95	61-125	
Fluoranthene	ug/kg	33.3	34.7	104	64-125	
Fluorene	ug/kg	33.3	27.9	84	57-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	32.3	97	61-125	
Naphthalene	ug/kg	33.3	26.9	81	52-125	
Phenanthrene	ug/kg	33.3	30.5	92	58-125	
Pyrene	ug/kg	33.3	32.0	96	65-125	
2-Fluorobiphenyl (S)	%			78	41-125	
p-Terphenyl-d14 (S)	%			76	39-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

Parameter	Units	2468556		2468557		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10372441001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Acenaphthene	ug/kg	143	41.1	41.2	236	451	227	748	53-125	63	30	M6, R1
Acenaphthylene	ug/kg	1330	41.1	41.2	1290	1800	-101	1140	50-125	33	30	M6, R1
Anthracene	ug/kg	2170	41.1	41.2	1550	27300	-1510	61000	60-125	178	30	M6, R1
Benzo(a)anthracene	ug/kg	9080	41.1	41.2	4140	6770	-12000	-5610	63-125	48	30	M6, R1
Benzo(a)pyrene	ug/kg	6650	41.1	41.2	3700	4950	-7170	-4130	65-125	29	30	M6
Benzo(b)fluoranthene	ug/kg	7160	41.1	41.2	3770	5650	-8250	-3670	61-125	40	30	M6, R1
Benzo(g,h,i)perylene	ug/kg	2590	41.1	41.2	1910	2440	-1650	-346	62-125	25	30	M6
Benzo(k)fluoranthene	ug/kg	1730	41.1	41.2	1310	1750	-1010	50	65-125	29	30	M6
Chrysene	ug/kg	7450	41.1	41.2	4060	7570	-8260	281	62-125	60	30	M6, R1
Dibenz(a,h)anthracene	ug/kg	752	41.1	41.2	668	843	-205	221	61-125	23	30	M6
Fluoranthene	ug/kg	11500	41.1	41.2	6560	17000	-11900	13400	64-125	89	30	M6, R1
Fluorene	ug/kg	320	41.1	41.2	367	3080	115	6700	57-125	157	30	M6, R1
Indeno(1,2,3-cd)pyrene	ug/kg	2240	41.1	41.2	1670	2160	-1370	-189	61-125	25	30	M6
Naphthalene	ug/kg	ND	41.1	41.2	107	787	261	1910	52-125		30	M6
Phenanthrene	ug/kg	1660	41.1	41.2	1780	8570	283	16700	58-125	131	30	M6, R1
Pyrene	ug/kg	14900	41.1	41.2	6860	14400	-19500	-1320	65-125	71	30	M6, R1
2-Fluorobiphenyl (S)	%.						0	0	41-125			C0, D4, S4
p-Terphenyl-d14 (S)	%.						0	0	39-125			S4

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## QUALIFIERS

Project: 2118-0002 Superior MGP\_rev  
Pace Project No.: 10372447

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

### BATCH QUALIFIERS

Batch: 451591

[1] LCSD reporting for LCS, no volume remaining for LCS RR/conf.

### ANALYTE QUALIFIERS

C0 Result confirmed by second analysis.

D4 Sample was diluted due to the presence of high levels of target analytes.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

R1 RPD value was outside control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2118-0002 Superior MGP\_rev

Pace Project No.: 10372447

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10372447001	S1_24.5-25	EPA 3050	450962	EPA 6010C	452237
10372447002	S1_30-32	EPA 3050	450962	EPA 6010C	452237
10372447003	S2_29.5-32	EPA 3050	450962	EPA 6010C	452237
10372447004	S2_34-35	EPA 3050	450962	EPA 6010C	452237
10372447005	S2_32-34	EPA 3050	450962	EPA 6010C	452237
10372447006	S2_29-29.5	EPA 3050	450962	EPA 6010C	452237
10372447001	S1_24.5-25	EPA 7471B	450976	EPA 7471B	452289
10372447002	S1_30-32	EPA 7471B	450976	EPA 7471B	452289
10372447003	S2_29.5-32	EPA 7471B	450976	EPA 7471B	452289
10372447004	S2_34-35	EPA 7471B	450976	EPA 7471B	452289
10372447005	S2_32-34	EPA 7471B	450976	EPA 7471B	452289
10372447006	S2_29-29.5	EPA 7471B	450976	EPA 7471B	452289
10372447001	S1_24.5-25	ASTM D2974	452366		
10372447002	S1_30-32	ASTM D2974	452366		
10372447003	S2_29.5-32	ASTM D2974	452366		
10372447004	S2_34-35	ASTM D2974	452366		
10372447005	S2_32-34	ASTM D2974	452366		
10372447006	S2_29-29.5	ASTM D2974	452366		
10372447001	S1_24.5-25	EPA 3550	450854	EPA 8270D by SIM	451936
10372447002	S1_30-32	EPA 3550	450854	EPA 8270D by SIM	451936
10372447003	S2_29.5-32	EPA 3550	450854	EPA 8270D by SIM	451936
10372447004	S2_34-35	EPA 3550	450854	EPA 8270D by SIM	451936
10372447005	S2_32-34	EPA 3550	450854	EPA 8270D by SIM	451936
10372447006	S2_29-29.5	EPA 3550	450854	EPA 8270D by SIM	451936
10372447001	S1_24.5-25	EPA 5035/5030B	450795	EPA 8260B	451591
10372447002	S1_30-32	EPA 5035/5030B	450795	EPA 8260B	451591
10372447003	S2_29.5-32	EPA 5035/5030B	450795	EPA 8260B	451591
10372447004	S2_34-35	EPA 5035/5030B	450795	EPA 8260B	451591
10372447005	S2_32-34	EPA 5035/5030B	450795	EPA 8260B	451591
10372447006	S2_29-29.5	EPA 5035/5030B	450795	EPA 8260B	451591
10372447007	Trip Blank	EPA 5035/5030B	450795	EPA 8260B	451591

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

60372447

**Section A**  
 Required Client Information:  
 Company: Summit Environmental  
 Address: \_\_\_\_\_  
 Email To: bgregg@summit.com  
 Phone: \_\_\_\_\_  
 Requested Due Date/TAT: std.

**Section B**  
 Required Project Information:  
 Report To: Bill Gregg  
 Copy To: \_\_\_\_\_  
 Purchase Order No.: use PN  
 Project Name: Superior MGP  
 Project Number: 2118-0002

**Section C**  
 Invoice Information:  
 Attention: Bill Gregg  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Pace Quote Reference: \_\_\_\_\_  
 Pace Project Manager: \_\_\_\_\_  
 Pace Profile #: 25777

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_

Site Location: \_\_\_\_\_  
 STATE: WI

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↑	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			DATE	TIME			DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH				
1	S1-28.5-25	DW	12/5/16	14:00										X		001	
2	S1-30-32	WT	12/5/16	14:15										X		02	
3	S2-29.5-32	WW	12/5/16	15:15										X		12/7/16 KX1 03	
4	S2-34.35	P	12/5/16	15:20										X		12/7/16 KX1 04	
5	S2-32-34	SL	12/5/16	15:15										X		12/7/16 KX1 05	
6	S2-29-29.5	OL	12/5/16	15:00										X		12/7/16 KX1 06	
7	Trip blank	WP	12/5/16	0:00										X		12/7/16 KX1 07	
8		AR															
9		TS															
10		OT															
11																	
12																	

**ADDITIONAL COMMENTS**

RELINQUISHED BY / AFFILIATION: William M. Gregg DATE: 12/6/16 TIME: 10:50

ACCEPTED BY / AFFILIATION: Hustan Polson DATE: 12/6/16 TIME: 15:00

RELINQUISHED BY / AFFILIATION: William M. Gregg DATE: 12/6/16 TIME: 17:35

ACCEPTED BY / AFFILIATION: William M. Gregg DATE: 12/6/16 TIME: 17:35

Temp in °C: \_\_\_\_\_

Received on: \_\_\_\_\_

Sealed Cooler: \_\_\_\_\_

Custody: \_\_\_\_\_

Samples Intact: \_\_\_\_\_

**ORIGINAL**

SAMPLER NAME AND SIGNATURE: \_\_\_\_\_

PRINT Name of SAMPLER: William M. Gregg


SIGNATURE of SAMPLER: William M. Gregg

DATE Signed (MM/DD/YY): 12/6/16

**Sample Condition Upon Receipt**

Client Name: Summit Environmental Solutions Project #: \_\_\_\_\_

**WO# : 10372447**



10372447

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  SpeedDee  Other: \_\_\_\_\_  
 Tracking Number: \_\_\_\_\_

Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No  
 Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_ Temp Blank?  Yes  No  
 Thermometer Used:  151401163  151401164  B88A912167504  B88A0143310098  
 Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun  
 Cooler Temp Read (°C): 0.9 Cooler Temp Corrected (°C): 0.9 Biological Tissue Frozen?  Yes  No  N/A  
 Temp should be above freezing to 6°C Correction Factor: True Date and Initials of Person Examining Contents: Be 12-06-16

USDA Regulated Soil (  N/A, water sample)  
 Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No  
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No  
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix: <u>SL</u>	
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH >9 Sulfide, NaOH >12 Cyanide) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>052316-3</u>	

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/Resolution: \_\_\_\_\_

**Project Manager Review:**

Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

January 12, 2017

Bill Gregg  
Summit Envirosolutions  
1217 Bandana Blvd  
Saint Paul, MN 55108

RE: Project: 2118-002 Superior MGP\_Rev  
Pace Project No.: 10372630

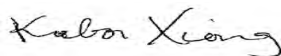
Dear Bill Gregg:

Enclosed are the analytical results for sample(s) received by the laboratory on December 08, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised on January 12, 2017 to change report format per client's request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kabor Xiong  
kabor.xiong@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

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### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

Alaska Certification UST-107

525 N 8th Street, Salina, KS 67401

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN\_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10372630001	S11_17.5-18	Solid	12/07/16 09:30	12/08/16 18:35
10372630002	S11_18-22.5	Solid	12/07/16 09:45	12/08/16 18:35
10372630003	S11_22.5-25	Solid	12/07/16 10:15	12/08/16 18:35
10372630004	S12_5-5.5	Solid	12/07/16 10:30	12/08/16 18:35
10372630005	S12_20-24	Solid	12/07/16 10:50	12/08/16 18:35
10372630006	S12_24-25	Solid	12/07/16 11:15	12/08/16 18:35
10372630007	S13_14-18	Solid	12/07/16 12:00	12/08/16 18:35
10372630008	S13_18-19	Solid	12/07/16 12:15	12/08/16 18:35
10372630009	S13_21-24	Solid	12/07/16 13:00	12/08/16 18:35
10372630010	S14_23-28	Solid	12/07/16 14:20	12/08/16 18:35
10372630011	S14_28-30	Solid	12/07/16 14:30	12/08/16 18:35
10372630012	S15_22-26	Solid	12/07/16 14:45	12/08/16 18:35
10372630013	S16_21-22	Solid	12/07/16 15:30	12/08/16 18:35
10372630014	S17_24-27	Solid	12/07/16 16:00	12/08/16 18:35
10372630015	Trip Blank	Solid	12/07/16 00:00	12/08/16 18:35
10372630016	S16_21-22 (DUP)	Solid	12/07/16 15:30	12/08/16 18:35

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10372630001	S11_17.5-18	EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10372630002	S11_18-22.5	EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10372630003	S11_22.5-25	EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10372630004	S12_5-5.5	EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10372630005	S12_20-24	EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10372630006	S12_24-25	EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10372630007	S13_14-18	EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10372630008	S13_18-19	EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M

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### SAMPLE ANALYTE COUNT

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10372630009	S13_21-24	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
		EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10372630010	S14_23-28	EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
		EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
10372630011	S14_28-30	EPA 8260B	CD2	70	PASI-M
		EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10372630012	S15_22-26	EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
		EPA 6010C	DM	7	PASI-M
10372630013	S16_21-22	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
		EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
10372630014	S17_24-27	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
		EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10372630015	Trip Blank	EPA 8260B	CD2	70	PASI-M
10372630016	S16_21-22 (DUP)	EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

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### SAMPLE ANALYTE COUNT

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270D by SIM	JLR	18	PASI-M
		EPA 8260B	CD2	70	PASI-M

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S11\_17.5-18**      **Lab ID: 10372630001**      Collected: 12/07/16 09:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	2.4	mg/kg	1.0	0.31	1	12/21/16 09:54	12/22/16 09:32	7440-38-2	
Barium	44.0	mg/kg	0.083	0.025	1	12/21/16 09:54	12/22/16 09:32	7440-39-3	
Cadmium	0.19	mg/kg	0.049	0.015	1	12/21/16 09:54	12/22/16 09:32	7440-43-9	
Chromium	11.6	mg/kg	0.54	0.16	1	12/21/16 09:54	12/22/16 09:32	7440-47-3	
Lead	78.8	mg/kg	0.52	0.15	1	12/21/16 09:54	12/22/16 09:32	7439-92-1	M1
Selenium	<1.5	mg/kg	1.5	0.45	1	12/21/16 09:54	12/22/16 09:32	7782-49-2	
Silver	<0.41	mg/kg	0.41	0.12	1	12/21/16 09:54	12/22/16 09:32	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.28	mg/kg	0.026	0.0078	1	12/20/16 13:10	12/20/16 19:10	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	41.3	%	0.10	0.10	1		12/21/16 15:19		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	1230	ug/kg	22.1	6.6	10	12/09/16 07:17	12/14/16 23:46	83-32-9	
Acenaphthylene	285	ug/kg	15.4	4.6	10	12/09/16 07:17	12/14/16 23:46	208-96-8	
Anthracene	2580	ug/kg	25.7	7.7	10	12/09/16 07:17	12/14/16 23:46	120-12-7	
Benzo(a)anthracene	4110	ug/kg	26.5	8.0	10	12/09/16 07:17	12/14/16 23:46	56-55-3	
Benzo(a)pyrene	3450	ug/kg	19.6	5.9	10	12/09/16 07:17	12/14/16 23:46	50-32-8	
Benzo(b)fluoranthene	4310	ug/kg	32.4	9.7	10	12/09/16 07:17	12/14/16 23:46	205-99-2	
Benzo(g,h,i)perylene	1730	ug/kg	25.9	7.8	10	12/09/16 07:17	12/14/16 23:46	191-24-2	
Benzo(k)fluoranthene	1610	ug/kg	27.9	8.4	10	12/09/16 07:17	12/14/16 23:46	207-08-9	
Chrysene	3690	ug/kg	31.4	9.4	10	12/09/16 07:17	12/14/16 23:46	218-01-9	
Dibenz(a,h)anthracene	<18.5	ug/kg	18.5	5.6	10	12/09/16 07:17	12/14/16 23:46	53-70-3	
Fluoranthene	10400	ug/kg	222	66.6	50	12/09/16 07:17	12/16/16 17:06	206-44-0	
Fluorene	1250	ug/kg	21.7	6.5	10	12/09/16 07:17	12/14/16 23:46	86-73-7	
Indeno(1,2,3-cd)pyrene	1480	ug/kg	42.5	12.7	10	12/09/16 07:17	12/14/16 23:46	193-39-5	
Naphthalene	662	ug/kg	20.2	6.1	10	12/09/16 07:17	12/14/16 23:46	91-20-3	
Phenanthrene	10300	ug/kg	114	34.3	50	12/09/16 07:17	12/16/16 17:06	85-01-8	
Pyrene	8010	ug/kg	235	70.5	50	12/09/16 07:17	12/16/16 17:06	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	79	%	41-125		10	12/09/16 07:17	12/14/16 23:46	321-60-8	D4
p-Terphenyl-d14 (S)	75	%	39-125		10	12/09/16 07:17	12/14/16 23:46	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1880	ug/kg	1880	565	1	12/09/16 10:54	12/10/16 03:38	67-64-1	
Allyl chloride	<246	ug/kg	246	73.9	1	12/09/16 10:54	12/10/16 03:38	107-05-1	
Benzene	<24.8	ug/kg	24.8	7.4	1	12/09/16 10:54	12/10/16 03:38	71-43-2	
Bromobenzene	<73.4	ug/kg	73.4	22.1	1	12/09/16 10:54	12/10/16 03:38	108-86-1	
Bromochloromethane	<85.5	ug/kg	85.5	25.7	1	12/09/16 10:54	12/10/16 03:38	74-97-5	
Bromodichloromethane	<80.3	ug/kg	80.3	24.1	1	12/09/16 10:54	12/10/16 03:38	75-27-4	
Bromoform	<247	ug/kg	247	74.2	1	12/09/16 10:54	12/10/16 03:38	75-25-2	
Bromomethane	<291	ug/kg	291	87.3	1	12/09/16 10:54	12/10/16 03:38	74-83-9	
2-Butanone (MEK)	<379	ug/kg	379	114	1	12/09/16 10:54	12/10/16 03:38	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S11\_17.5-18**      **Lab ID: 10372630001**      Collected: 12/07/16 09:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<69.4	ug/kg	69.4	20.8	1	12/09/16 10:54	12/10/16 03:38	104-51-8	
sec-Butylbenzene	<67.7	ug/kg	67.7	20.3	1	12/09/16 10:54	12/10/16 03:38	135-98-8	
tert-Butylbenzene	<90.6	ug/kg	90.6	27.2	1	12/09/16 10:54	12/10/16 03:38	98-06-6	
Carbon tetrachloride	<90.1	ug/kg	90.1	27.0	1	12/09/16 10:54	12/10/16 03:38	56-23-5	
Chlorobenzene	<49.9	ug/kg	49.9	15.0	1	12/09/16 10:54	12/10/16 03:38	108-90-7	
Chloroethane	<453	ug/kg	453	136	1	12/09/16 10:54	12/10/16 03:38	75-00-3	
Chloroform	<139	ug/kg	139	41.9	1	12/09/16 10:54	12/10/16 03:38	67-66-3	
Chloromethane	<139	ug/kg	139	41.7	1	12/09/16 10:54	12/10/16 03:38	74-87-3	
2-Chlorotoluene	<79.2	ug/kg	79.2	23.8	1	12/09/16 10:54	12/10/16 03:38	95-49-8	
4-Chlorotoluene	<75.2	ug/kg	75.2	22.6	1	12/09/16 10:54	12/10/16 03:38	106-43-4	
1,2-Dibromo-3-chloropropane	<168	ug/kg	168	168	1	12/09/16 10:54	12/10/16 03:38	96-12-8	
Dibromochloromethane	<246	ug/kg	246	73.9	1	12/09/16 10:54	12/10/16 03:38	124-48-1	
1,2-Dibromoethane (EDB)	<32.4	ug/kg	32.4	32.4	1	12/09/16 10:54	12/10/16 03:38	106-93-4	
Dibromomethane	<112	ug/kg	112	33.6	1	12/09/16 10:54	12/10/16 03:38	74-95-3	
1,2-Dichlorobenzene	<16.6	ug/kg	16.6	16.6	1	12/09/16 10:54	12/10/16 03:38	95-50-1	
1,3-Dichlorobenzene	<25.3	ug/kg	25.3	16.6	1	12/09/16 10:54	12/10/16 03:38	541-73-1	
1,4-Dichlorobenzene	<83.2	ug/kg	83.2	25.0	1	12/09/16 10:54	12/10/16 03:38	106-46-7	
Dichlorodifluoromethane	<87.8	ug/kg	87.8	26.4	1	12/09/16 10:54	12/10/16 03:38	75-71-8	
1,1-Dichloroethane	<33.4	ug/kg	33.4	33.4	1	12/09/16 10:54	12/10/16 03:38	75-34-3	
1,2-Dichloroethane	<27.2	ug/kg	27.2	27.2	1	12/09/16 10:54	12/10/16 03:38	107-06-2	
1,1-Dichloroethene	<21.9	ug/kg	21.9	21.9	1	12/09/16 10:54	12/10/16 03:38	75-35-4	
cis-1,2-Dichloroethene	<107	ug/kg	107	32.0	1	12/09/16 10:54	12/10/16 03:38	156-59-2	
trans-1,2-Dichloroethene	<138	ug/kg	138	41.5	1	12/09/16 10:54	12/10/16 03:38	156-60-5	
Dichlorofluoromethane	<786	ug/kg	786	236	1	12/09/16 10:54	12/10/16 03:38	75-43-4	
1,2-Dichloropropane	<29.8	ug/kg	29.8	29.8	1	12/09/16 10:54	12/10/16 03:38	78-87-5	
1,3-Dichloropropane	<103	ug/kg	103	30.8	1	12/09/16 10:54	12/10/16 03:38	142-28-9	
2,2-Dichloropropane	<91.2	ug/kg	91.2	27.4	1	12/09/16 10:54	12/10/16 03:38	594-20-7	
1,1-Dichloropropene	<26.0	ug/kg	26.0	26.0	1	12/09/16 10:54	12/10/16 03:38	563-58-6	
cis-1,3-Dichloropropene	<131	ug/kg	131	39.3	1	12/09/16 10:54	12/10/16 03:38	10061-01-5	
trans-1,3-Dichloropropene	<97.5	ug/kg	97.5	29.3	1	12/09/16 10:54	12/10/16 03:38	10061-02-6	
Diethyl ether (Ethyl ether)	<118	ug/kg	118	35.5	1	12/09/16 10:54	12/10/16 03:38	60-29-7	
Ethylbenzene	<91.2	ug/kg	91.2	27.4	1	12/09/16 10:54	12/10/16 03:38	100-41-4	
Hexachloro-1,3-butadiene	<270	ug/kg	270	81.0	1	12/09/16 10:54	12/10/16 03:38	87-68-3	
Isopropylbenzene (Cumene)	<102	ug/kg	102	30.7	1	12/09/16 10:54	12/10/16 03:38	98-82-8	
p-Isopropyltoluene	<47.6	ug/kg	47.6	14.3	1	12/09/16 10:54	12/10/16 03:38	99-87-6	
Methylene Chloride	<531	ug/kg	531	160	1	12/09/16 10:54	12/10/16 03:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	<190	ug/kg	190	57.0	1	12/09/16 10:54	12/10/16 03:38	108-10-1	
Methyl-tert-butyl ether	<53.7	ug/kg	53.7	16.1	1	12/09/16 10:54	12/10/16 03:38	1634-04-4	
Naphthalene	<69.4	ug/kg	69.4	20.8	1	12/09/16 10:54	12/10/16 03:38	91-20-3	
n-Propylbenzene	<85.5	ug/kg	85.5	25.7	1	12/09/16 10:54	12/10/16 03:38	103-65-1	
Styrene	<74.6	ug/kg	74.6	22.4	1	12/09/16 10:54	12/10/16 03:38	100-42-5	
1,1,1,2-Tetrachloroethane	<34.1	ug/kg	34.1	34.1	1	12/09/16 10:54	12/10/16 03:38	630-20-6	
1,1,2,2-Tetrachloroethane	<19.1	ug/kg	19.1	19.1	1	12/09/16 10:54	12/10/16 03:38	79-34-5	
Tetrachloroethene	<110	ug/kg	110	32.9	1	12/09/16 10:54	12/10/16 03:38	127-18-4	
Tetrahydrofuran	<1420	ug/kg	1420	427	1	12/09/16 10:54	12/10/16 03:38	109-99-9	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S11\_17.5-18**      **Lab ID: 10372630001**      Collected: 12/07/16 09:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<91.2	ug/kg	91.2	27.4	1	12/09/16 10:54	12/10/16 03:38	108-88-3	
1,2,3-Trichlorobenzene	<24.8	ug/kg	24.8	24.8	1	12/09/16 10:54	12/10/16 03:38	87-61-6	
1,2,4-Trichlorobenzene	<26.5	ug/kg	26.5	26.5	1	12/09/16 10:54	12/10/16 03:38	120-82-1	
1,1,1-Trichloroethane	<36.0	ug/kg	36.0	36.0	1	12/09/16 10:54	12/10/16 03:38	71-55-6	
1,1,2-Trichloroethane	<18.6	ug/kg	18.6	18.6	1	12/09/16 10:54	12/10/16 03:38	79-00-5	
Trichloroethene	<82.0	ug/kg	82.0	24.6	1	12/09/16 10:54	12/10/16 03:38	79-01-6	
Trichlorofluoromethane	<288	ug/kg	288	86.5	1	12/09/16 10:54	12/10/16 03:38	75-69-4	
1,2,3-Trichloropropane	<89.2	ug/kg	89.2	89.2	1	12/09/16 10:54	12/10/16 03:38	96-18-4	
1,1,2-Trichlorotrifluoroethane	<207	ug/kg	207	62.0	1	12/09/16 10:54	12/10/16 03:38	76-13-1	
1,2,4-Trimethylbenzene	<18.9	ug/kg	18.9	18.9	1	12/09/16 10:54	12/10/16 03:38	95-63-6	
1,3,5-Trimethylbenzene	<66.0	ug/kg	66.0	19.8	1	12/09/16 10:54	12/10/16 03:38	108-67-8	
Vinyl chloride	<36.8	ug/kg	36.8	11.1	1	12/09/16 10:54	12/10/16 03:38	75-01-4	
Xylene (Total)	<229	ug/kg	229	68.9	1	12/09/16 10:54	12/10/16 03:38	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	91	%	75-129		1	12/09/16 10:54	12/10/16 03:38	17060-07-0	
Toluene-d8 (S)	95	%	75-125		1	12/09/16 10:54	12/10/16 03:38	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		1	12/09/16 10:54	12/10/16 03:38	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S11\_18-22.5**      **Lab ID: 10372630002**      Collected: 12/07/16 09:45      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	6.7	mg/kg	1.2	0.36	1	12/21/16 09:54	12/22/16 09:47	7440-38-2	
Barium	197	mg/kg	0.096	0.029	1	12/21/16 09:54	12/22/16 09:47	7440-39-3	
Cadmium	1.5	mg/kg	0.057	0.017	1	12/21/16 09:54	12/22/16 09:47	7440-43-9	
Chromium	31.9	mg/kg	0.63	0.19	1	12/21/16 09:54	12/22/16 09:47	7440-47-3	
Lead	218	mg/kg	0.60	0.18	1	12/21/16 09:54	12/22/16 09:47	7439-92-1	
Selenium	<1.7	mg/kg	1.7	0.52	1	12/21/16 09:54	12/22/16 09:47	7782-49-2	
Silver	7.0	mg/kg	0.48	0.14	1	12/21/16 09:54	12/22/16 09:47	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	54.3	mg/kg	1.6	0.49	50	12/20/16 13:10	12/21/16 14:06	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	52.7	%	0.10	0.10	1		12/21/16 15:20		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	795	ug/kg	27.4	8.2	10	12/09/16 07:17	12/15/16 00:08	83-32-9	
Acenaphthylene	335	ug/kg	19.1	5.7	10	12/09/16 07:17	12/15/16 00:08	208-96-8	
Anthracene	1100	ug/kg	31.9	9.6	10	12/09/16 07:17	12/15/16 00:08	120-12-7	
Benzo(a)anthracene	1940	ug/kg	32.9	9.9	10	12/09/16 07:17	12/15/16 00:08	56-55-3	
Benzo(a)pyrene	1930	ug/kg	24.3	7.3	10	12/09/16 07:17	12/15/16 00:08	50-32-8	
Benzo(b)fluoranthene	2050	ug/kg	40.2	12.1	10	12/09/16 07:17	12/15/16 00:08	205-99-2	
Benzo(g,h,i)perylene	1080	ug/kg	32.1	9.7	10	12/09/16 07:17	12/15/16 00:08	191-24-2	
Benzo(k)fluoranthene	813	ug/kg	34.5	10.4	10	12/09/16 07:17	12/15/16 00:08	207-08-9	
Chrysene	1970	ug/kg	38.9	11.7	10	12/09/16 07:17	12/15/16 00:08	218-01-9	
Dibenz(a,h)anthracene	<22.9	ug/kg	22.9	6.9	10	12/09/16 07:17	12/15/16 00:08	53-70-3	
Fluoranthene	3820	ug/kg	55.0	16.5	10	12/09/16 07:17	12/15/16 00:08	206-44-0	
Fluorene	410	ug/kg	26.9	8.1	10	12/09/16 07:17	12/15/16 00:08	86-73-7	
Indeno(1,2,3-cd)pyrene	940	ug/kg	52.6	15.8	10	12/09/16 07:17	12/15/16 00:08	193-39-5	
Naphthalene	349	ug/kg	25.1	7.5	10	12/09/16 07:17	12/15/16 00:08	91-20-3	
Phenanthrene	3490	ug/kg	28.3	8.5	10	12/09/16 07:17	12/15/16 00:08	85-01-8	
Pyrene	3870	ug/kg	58.2	17.5	10	12/09/16 07:17	12/15/16 00:08	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	0	%	41-125		10	12/09/16 07:17	12/15/16 00:08	321-60-8	D4,S4
p-Terphenyl-d14 (S)	0	%	39-125		10	12/09/16 07:17	12/15/16 00:08	1718-51-0	S4
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<3230	ug/kg	3230	971	1	12/09/16 10:54	12/10/16 03:54	67-64-1	
Allyl chloride	<423	ug/kg	423	127	1	12/09/16 10:54	12/10/16 03:54	107-05-1	
Benzene	<42.6	ug/kg	42.6	12.8	1	12/09/16 10:54	12/10/16 03:54	71-43-2	
Bromobenzene	<126	ug/kg	126	37.9	1	12/09/16 10:54	12/10/16 03:54	108-86-1	
Bromochloromethane	<147	ug/kg	147	44.1	1	12/09/16 10:54	12/10/16 03:54	74-97-5	
Bromodichloromethane	<138	ug/kg	138	41.5	1	12/09/16 10:54	12/10/16 03:54	75-27-4	
Bromoform	<425	ug/kg	425	128	1	12/09/16 10:54	12/10/16 03:54	75-25-2	
Bromomethane	<500	ug/kg	500	150	1	12/09/16 10:54	12/10/16 03:54	74-83-9	
2-Butanone (MEK)	<651	ug/kg	651	195	1	12/09/16 10:54	12/10/16 03:54	78-93-3	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S11\_18-22.5**      **Lab ID: 10372630002**      Collected: 12/07/16 09:45      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<119	ug/kg	119	35.8	1	12/09/16 10:54	12/10/16 03:54	104-51-8	
sec-Butylbenzene	<116	ug/kg	116	34.9	1	12/09/16 10:54	12/10/16 03:54	135-98-8	
tert-Butylbenzene	<156	ug/kg	156	46.8	1	12/09/16 10:54	12/10/16 03:54	98-06-6	
Carbon tetrachloride	<155	ug/kg	155	46.5	1	12/09/16 10:54	12/10/16 03:54	56-23-5	
Chlorobenzene	<85.8	ug/kg	85.8	25.8	1	12/09/16 10:54	12/10/16 03:54	108-90-7	
Chloroethane	<779	ug/kg	779	234	1	12/09/16 10:54	12/10/16 03:54	75-00-3	
Chloroform	<240	ug/kg	240	72.0	1	12/09/16 10:54	12/10/16 03:54	67-66-3	
Chloromethane	<239	ug/kg	239	71.7	1	12/09/16 10:54	12/10/16 03:54	74-87-3	
2-Chlorotoluene	<136	ug/kg	136	40.9	1	12/09/16 10:54	12/10/16 03:54	95-49-8	
4-Chlorotoluene	<129	ug/kg	129	38.8	1	12/09/16 10:54	12/10/16 03:54	106-43-4	
1,2-Dibromo-3-chloropropane	<289	ug/kg	289	289	1	12/09/16 10:54	12/10/16 03:54	96-12-8	
Dibromochloromethane	<423	ug/kg	423	127	1	12/09/16 10:54	12/10/16 03:54	124-48-1	
1,2-Dibromoethane (EDB)	<55.7	ug/kg	55.7	55.7	1	12/09/16 10:54	12/10/16 03:54	106-93-4	
Dibromomethane	<192	ug/kg	192	57.7	1	12/09/16 10:54	12/10/16 03:54	74-95-3	
1,2-Dichlorobenzene	<28.6	ug/kg	28.6	28.6	1	12/09/16 10:54	12/10/16 03:54	95-50-1	
1,3-Dichlorobenzene	<43.5	ug/kg	43.5	28.6	1	12/09/16 10:54	12/10/16 03:54	541-73-1	
1,4-Dichlorobenzene	<143	ug/kg	143	42.9	1	12/09/16 10:54	12/10/16 03:54	106-46-7	
Dichlorodifluoromethane	<151	ug/kg	151	45.3	1	12/09/16 10:54	12/10/16 03:54	75-71-8	
1,1-Dichloroethane	<57.4	ug/kg	57.4	57.4	1	12/09/16 10:54	12/10/16 03:54	75-34-3	
1,2-Dichloroethane	<46.8	ug/kg	46.8	46.8	1	12/09/16 10:54	12/10/16 03:54	107-06-2	
1,1-Dichloroethene	<37.6	ug/kg	37.6	37.6	1	12/09/16 10:54	12/10/16 03:54	75-35-4	
cis-1,2-Dichloroethene	<183	ug/kg	183	55.1	1	12/09/16 10:54	12/10/16 03:54	156-59-2	
trans-1,2-Dichloroethene	<238	ug/kg	238	71.4	1	12/09/16 10:54	12/10/16 03:54	156-60-5	
Dichlorofluoromethane	<1350	ug/kg	1350	406	1	12/09/16 10:54	12/10/16 03:54	75-43-4	
1,2-Dichloropropane	<51.2	ug/kg	51.2	51.2	1	12/09/16 10:54	12/10/16 03:54	78-87-5	
1,3-Dichloropropane	<177	ug/kg	177	53.0	1	12/09/16 10:54	12/10/16 03:54	142-28-9	
2,2-Dichloropropane	<157	ug/kg	157	47.1	1	12/09/16 10:54	12/10/16 03:54	594-20-7	
1,1-Dichloropropene	<44.7	ug/kg	44.7	44.7	1	12/09/16 10:54	12/10/16 03:54	563-58-6	
cis-1,3-Dichloropropene	<225	ug/kg	225	67.5	1	12/09/16 10:54	12/10/16 03:54	10061-01-5	
trans-1,3-Dichloropropene	<168	ug/kg	168	50.3	1	12/09/16 10:54	12/10/16 03:54	10061-02-6	
Diethyl ether (Ethyl ether)	<203	ug/kg	203	61.0	1	12/09/16 10:54	12/10/16 03:54	60-29-7	
Ethylbenzene	<157	ug/kg	157	47.1	1	12/09/16 10:54	12/10/16 03:54	100-41-4	
Hexachloro-1,3-butadiene	<463	ug/kg	463	139	1	12/09/16 10:54	12/10/16 03:54	87-68-3	
Isopropylbenzene (Cumene)	<176	ug/kg	176	52.7	1	12/09/16 10:54	12/10/16 03:54	98-82-8	
p-Isopropyltoluene	<81.8	ug/kg	81.8	24.6	1	12/09/16 10:54	12/10/16 03:54	99-87-6	
Methylene Chloride	<913	ug/kg	913	274	1	12/09/16 10:54	12/10/16 03:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	<326	ug/kg	326	98.0	1	12/09/16 10:54	12/10/16 03:54	108-10-1	
Methyl-tert-butyl ether	<92.3	ug/kg	92.3	27.7	1	12/09/16 10:54	12/10/16 03:54	1634-04-4	
Naphthalene	580	ug/kg	119	35.8	1	12/09/16 10:54	12/10/16 03:54	91-20-3	
n-Propylbenzene	<147	ug/kg	147	44.1	1	12/09/16 10:54	12/10/16 03:54	103-65-1	
Styrene	<128	ug/kg	128	38.5	1	12/09/16 10:54	12/10/16 03:54	100-42-5	
1,1,1,2-Tetrachloroethane	<58.6	ug/kg	58.6	58.6	1	12/09/16 10:54	12/10/16 03:54	630-20-6	
1,1,2,2-Tetrachloroethane	<32.9	ug/kg	32.9	32.9	1	12/09/16 10:54	12/10/16 03:54	79-34-5	
Tetrachloroethene	<188	ug/kg	188	56.6	1	12/09/16 10:54	12/10/16 03:54	127-18-4	
Tetrahydrofuran	<2450	ug/kg	2450	734	1	12/09/16 10:54	12/10/16 03:54	109-99-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S11\_18-22.5**      **Lab ID: 10372630002**      Collected: 12/07/16 09:45      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<b>486</b>	ug/kg	157	47.1	1	12/09/16 10:54	12/10/16 03:54	108-88-3	
1,2,3-Trichlorobenzene	<b>&lt;42.6</b>	ug/kg	42.6	42.6	1	12/09/16 10:54	12/10/16 03:54	87-61-6	
1,2,4-Trichlorobenzene	<b>&lt;45.6</b>	ug/kg	45.6	45.6	1	12/09/16 10:54	12/10/16 03:54	120-82-1	
1,1,1-Trichloroethane	<b>&lt;61.9</b>	ug/kg	61.9	61.9	1	12/09/16 10:54	12/10/16 03:54	71-55-6	
1,1,2-Trichloroethane	<b>&lt;32.0</b>	ug/kg	32.0	32.0	1	12/09/16 10:54	12/10/16 03:54	79-00-5	
Trichloroethene	<b>&lt;141</b>	ug/kg	141	42.3	1	12/09/16 10:54	12/10/16 03:54	79-01-6	
Trichlorofluoromethane	<b>&lt;495</b>	ug/kg	495	149	1	12/09/16 10:54	12/10/16 03:54	75-69-4	
1,2,3-Trichloropropane	<b>&lt;153</b>	ug/kg	153	153	1	12/09/16 10:54	12/10/16 03:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;355</b>	ug/kg	355	107	1	12/09/16 10:54	12/10/16 03:54	76-13-1	
1,2,4-Trimethylbenzene	<b>62.3</b>	ug/kg	32.6	32.6	1	12/09/16 10:54	12/10/16 03:54	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;113</b>	ug/kg	113	34.1	1	12/09/16 10:54	12/10/16 03:54	108-67-8	
Vinyl chloride	<b>&lt;63.3</b>	ug/kg	63.3	19.0	1	12/09/16 10:54	12/10/16 03:54	75-01-4	
Xylene (Total)	<b>&lt;394</b>	ug/kg	394	118	1	12/09/16 10:54	12/10/16 03:54	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	91	%	75-129		1	12/09/16 10:54	12/10/16 03:54	17060-07-0	
Toluene-d8 (S)	104	%	75-125		1	12/09/16 10:54	12/10/16 03:54	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/09/16 10:54	12/10/16 03:54	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S11\_22.5-25**      **Lab ID: 10372630003**      Collected: 12/07/16 10:15      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	3.0	mg/kg	1.0	0.30	1	12/21/16 09:54	12/22/16 09:50	7440-38-2	
Barium	84.2	mg/kg	0.080	0.024	1	12/21/16 09:54	12/22/16 09:50	7440-39-3	
Cadmium	0.45	mg/kg	0.047	0.014	1	12/21/16 09:54	12/22/16 09:50	7440-43-9	
Chromium	15.0	mg/kg	0.52	0.16	1	12/21/16 09:54	12/22/16 09:50	7440-47-3	
Lead	112	mg/kg	0.50	0.15	1	12/21/16 09:54	12/22/16 09:50	7439-92-1	
Selenium	<1.4	mg/kg	1.4	0.43	1	12/21/16 09:54	12/22/16 09:50	7782-49-2	
Silver	2.3	mg/kg	0.40	0.12	1	12/21/16 09:54	12/22/16 09:50	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	2.6	mg/kg	0.054	0.016	2	12/20/16 13:10	12/21/16 14:08	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	37.5	%	0.10	0.10	1		12/21/16 15:20		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	2050	ug/kg	20.8	6.2	10	12/09/16 07:17	12/15/16 00:29	83-32-9	
Acenaphthylene	280	ug/kg	14.5	4.3	10	12/09/16 07:17	12/15/16 00:29	208-96-8	
Anthracene	2150	ug/kg	24.1	7.2	10	12/09/16 07:17	12/15/16 00:29	120-12-7	
Benzo(a)anthracene	2800	ug/kg	24.9	7.5	10	12/09/16 07:17	12/15/16 00:29	56-55-3	
Benzo(a)pyrene	2410	ug/kg	18.4	5.5	10	12/09/16 07:17	12/15/16 00:29	50-32-8	
Benzo(b)fluoranthene	2470	ug/kg	30.5	9.1	10	12/09/16 07:17	12/15/16 00:29	205-99-2	
Benzo(g,h,i)perylene	1260	ug/kg	24.3	7.3	10	12/09/16 07:17	12/15/16 00:29	191-24-2	
Benzo(k)fluoranthene	907	ug/kg	26.2	7.9	10	12/09/16 07:17	12/15/16 00:29	207-08-9	
Chrysene	2630	ug/kg	29.5	8.9	10	12/09/16 07:17	12/15/16 00:29	218-01-9	
Dibenz(a,h)anthracene	<17.4	ug/kg	17.4	5.2	10	12/09/16 07:17	12/15/16 00:29	53-70-3	
Fluoranthene	5900	ug/kg	208	62.6	50	12/09/16 07:17	12/16/16 17:28	206-44-0	
Fluorene	1210	ug/kg	20.4	6.1	10	12/09/16 07:17	12/15/16 00:29	86-73-7	
Indeno(1,2,3-cd)pyrene	1070	ug/kg	39.9	12.0	10	12/09/16 07:17	12/15/16 00:29	193-39-5	
Naphthalene	1250	ug/kg	19.0	5.7	10	12/09/16 07:17	12/15/16 00:29	91-20-3	
Phenanthrene	8920	ug/kg	107	32.2	50	12/09/16 07:17	12/16/16 17:28	85-01-8	
Pyrene	6990	ug/kg	220	66.2	50	12/09/16 07:17	12/16/16 17:28	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	78	%	41-125		10	12/09/16 07:17	12/15/16 00:29	321-60-8	D4
p-Terphenyl-d14 (S)	71	%	39-125		10	12/09/16 07:17	12/15/16 00:29	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1950	ug/kg	1950	585	1	12/09/16 10:54	12/10/16 04:10	67-64-1	
Allyl chloride	<255	ug/kg	255	76.5	1	12/09/16 10:54	12/10/16 04:10	107-05-1	
Benzene	<25.6	ug/kg	25.6	7.7	1	12/09/16 10:54	12/10/16 04:10	71-43-2	
Bromobenzene	<76.0	ug/kg	76.0	22.8	1	12/09/16 10:54	12/10/16 04:10	108-86-1	
Bromochloromethane	<88.5	ug/kg	88.5	26.6	1	12/09/16 10:54	12/10/16 04:10	74-97-5	
Bromodichloromethane	<83.1	ug/kg	83.1	25.0	1	12/09/16 10:54	12/10/16 04:10	75-27-4	
Bromoform	<256	ug/kg	256	76.8	1	12/09/16 10:54	12/10/16 04:10	75-25-2	
Bromomethane	<301	ug/kg	301	90.4	1	12/09/16 10:54	12/10/16 04:10	74-83-9	
2-Butanone (MEK)	<392	ug/kg	392	118	1	12/09/16 10:54	12/10/16 04:10	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S11\_22.5-25**      **Lab ID: 10372630003**      Collected: 12/07/16 10:15      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<71.8	ug/kg	71.8	21.6	1	12/09/16 10:54	12/10/16 04:10	104-51-8	
sec-Butylbenzene	<70.1	ug/kg	70.1	21.0	1	12/09/16 10:54	12/10/16 04:10	135-98-8	
tert-Butylbenzene	<93.8	ug/kg	93.8	28.2	1	12/09/16 10:54	12/10/16 04:10	98-06-6	
Carbon tetrachloride	<93.2	ug/kg	93.2	28.0	1	12/09/16 10:54	12/10/16 04:10	56-23-5	
Chlorobenzene	<51.7	ug/kg	51.7	15.5	1	12/09/16 10:54	12/10/16 04:10	108-90-7	
Chloroethane	<469	ug/kg	469	141	1	12/09/16 10:54	12/10/16 04:10	75-00-3	
Chloroform	<144	ug/kg	144	43.3	1	12/09/16 10:54	12/10/16 04:10	67-66-3	
Chloromethane	<144	ug/kg	144	43.1	1	12/09/16 10:54	12/10/16 04:10	74-87-3	
2-Chlorotoluene	<81.9	ug/kg	81.9	24.6	1	12/09/16 10:54	12/10/16 04:10	95-49-8	
4-Chlorotoluene	<77.8	ug/kg	77.8	23.4	1	12/09/16 10:54	12/10/16 04:10	106-43-4	
1,2-Dibromo-3-chloropropane	<174	ug/kg	174	174	1	12/09/16 10:54	12/10/16 04:10	96-12-8	
Dibromochloromethane	<255	ug/kg	255	76.5	1	12/09/16 10:54	12/10/16 04:10	124-48-1	
1,2-Dibromoethane (EDB)	<33.5	ug/kg	33.5	33.5	1	12/09/16 10:54	12/10/16 04:10	106-93-4	
Dibromomethane	<116	ug/kg	116	34.8	1	12/09/16 10:54	12/10/16 04:10	74-95-3	
1,2-Dichlorobenzene	<17.2	ug/kg	17.2	17.2	1	12/09/16 10:54	12/10/16 04:10	95-50-1	
1,3-Dichlorobenzene	<26.2	ug/kg	26.2	17.2	1	12/09/16 10:54	12/10/16 04:10	541-73-1	
1,4-Dichlorobenzene	<86.1	ug/kg	86.1	25.9	1	12/09/16 10:54	12/10/16 04:10	106-46-7	
Dichlorodifluoromethane	<90.8	ug/kg	90.8	27.3	1	12/09/16 10:54	12/10/16 04:10	75-71-8	
1,1-Dichloroethane	<34.6	ug/kg	34.6	34.6	1	12/09/16 10:54	12/10/16 04:10	75-34-3	
1,2-Dichloroethane	<28.2	ug/kg	28.2	28.2	1	12/09/16 10:54	12/10/16 04:10	107-06-2	
1,1-Dichloroethene	<22.6	ug/kg	22.6	22.6	1	12/09/16 10:54	12/10/16 04:10	75-35-4	
cis-1,2-Dichloroethene	<110	ug/kg	110	33.2	1	12/09/16 10:54	12/10/16 04:10	156-59-2	
trans-1,2-Dichloroethene	<143	ug/kg	143	43.0	1	12/09/16 10:54	12/10/16 04:10	156-60-5	
Dichlorofluoromethane	<813	ug/kg	813	244	1	12/09/16 10:54	12/10/16 04:10	75-43-4	
1,2-Dichloropropane	<30.8	ug/kg	30.8	30.8	1	12/09/16 10:54	12/10/16 04:10	78-87-5	
1,3-Dichloropropane	<106	ug/kg	106	31.9	1	12/09/16 10:54	12/10/16 04:10	142-28-9	
2,2-Dichloropropane	<94.4	ug/kg	94.4	28.3	1	12/09/16 10:54	12/10/16 04:10	594-20-7	
1,1-Dichloropropene	<26.9	ug/kg	26.9	26.9	1	12/09/16 10:54	12/10/16 04:10	563-58-6	
cis-1,3-Dichloropropene	<135	ug/kg	135	40.7	1	12/09/16 10:54	12/10/16 04:10	10061-01-5	
trans-1,3-Dichloropropene	<101	ug/kg	101	30.3	1	12/09/16 10:54	12/10/16 04:10	10061-02-6	
Diethyl ether (Ethyl ether)	<122	ug/kg	122	36.7	1	12/09/16 10:54	12/10/16 04:10	60-29-7	
Ethylbenzene	<94.4	ug/kg	94.4	28.3	1	12/09/16 10:54	12/10/16 04:10	100-41-4	
Hexachloro-1,3-butadiene	<279	ug/kg	279	83.8	1	12/09/16 10:54	12/10/16 04:10	87-68-3	
Isopropylbenzene (Cumene)	<106	ug/kg	106	31.7	1	12/09/16 10:54	12/10/16 04:10	98-82-8	
p-Isopropyltoluene	<49.3	ug/kg	49.3	14.8	1	12/09/16 10:54	12/10/16 04:10	99-87-6	
Methylene Chloride	<550	ug/kg	550	165	1	12/09/16 10:54	12/10/16 04:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	<197	ug/kg	197	59.0	1	12/09/16 10:54	12/10/16 04:10	108-10-1	
Methyl-tert-butyl ether	<55.6	ug/kg	55.6	16.7	1	12/09/16 10:54	12/10/16 04:10	1634-04-4	
Naphthalene	3150	ug/kg	71.8	21.6	1	12/09/16 10:54	12/10/16 04:10	91-20-3	
n-Propylbenzene	<88.5	ug/kg	88.5	26.6	1	12/09/16 10:54	12/10/16 04:10	103-65-1	
Styrene	<77.2	ug/kg	77.2	23.2	1	12/09/16 10:54	12/10/16 04:10	100-42-5	
1,1,1,2-Tetrachloroethane	<35.3	ug/kg	35.3	35.3	1	12/09/16 10:54	12/10/16 04:10	630-20-6	
1,1,2,2-Tetrachloroethane	<19.8	ug/kg	19.8	19.8	1	12/09/16 10:54	12/10/16 04:10	79-34-5	
Tetrachloroethene	<113	ug/kg	113	34.1	1	12/09/16 10:54	12/10/16 04:10	127-18-4	
Tetrahydrofuran	<1470	ug/kg	1470	442	1	12/09/16 10:54	12/10/16 04:10	109-99-9	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S11\_22.5-25**      **Lab ID: 10372630003**      Collected: 12/07/16 10:15      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<b>319</b>	ug/kg	94.4	28.3	1	12/09/16 10:54	12/10/16 04:10	108-88-3	
1,2,3-Trichlorobenzene	<b>&lt;25.7</b>	ug/kg	25.7	25.7	1	12/09/16 10:54	12/10/16 04:10	87-61-6	
1,2,4-Trichlorobenzene	<b>&lt;27.5</b>	ug/kg	27.5	27.5	1	12/09/16 10:54	12/10/16 04:10	120-82-1	
1,1,1-Trichloroethane	<b>&lt;37.3</b>	ug/kg	37.3	37.3	1	12/09/16 10:54	12/10/16 04:10	71-55-6	
1,1,2-Trichloroethane	<b>&lt;19.3</b>	ug/kg	19.3	19.3	1	12/09/16 10:54	12/10/16 04:10	79-00-5	
Trichloroethene	<b>&lt;84.9</b>	ug/kg	84.9	25.5	1	12/09/16 10:54	12/10/16 04:10	79-01-6	
Trichlorofluoromethane	<b>&lt;298</b>	ug/kg	298	89.5	1	12/09/16 10:54	12/10/16 04:10	75-69-4	
1,2,3-Trichloropropane	<b>&lt;92.4</b>	ug/kg	92.4	92.4	1	12/09/16 10:54	12/10/16 04:10	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;214</b>	ug/kg	214	64.2	1	12/09/16 10:54	12/10/16 04:10	76-13-1	
1,2,4-Trimethylbenzene	<b>209</b>	ug/kg	19.6	19.6	1	12/09/16 10:54	12/10/16 04:10	95-63-6	
1,3,5-Trimethylbenzene	<b>99.3</b>	ug/kg	68.3	20.5	1	12/09/16 10:54	12/10/16 04:10	108-67-8	
Vinyl chloride	<b>&lt;38.1</b>	ug/kg	38.1	11.4	1	12/09/16 10:54	12/10/16 04:10	75-01-4	
Xylene (Total)	<b>&lt;237</b>	ug/kg	237	71.3	1	12/09/16 10:54	12/10/16 04:10	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	96	%	75-129		1	12/09/16 10:54	12/10/16 04:10	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/09/16 10:54	12/10/16 04:10	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/09/16 10:54	12/10/16 04:10	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S12\_5-5.5**      **Lab ID: 10372630004**      Collected: 12/07/16 10:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	2.3	mg/kg	0.89	0.27	1	12/21/16 09:54	12/22/16 09:52	7440-38-2	
Barium	27.6	mg/kg	0.071	0.021	1	12/21/16 09:54	12/22/16 09:52	7440-39-3	
Cadmium	0.15	mg/kg	0.042	0.013	1	12/21/16 09:54	12/22/16 09:52	7440-43-9	
Chromium	9.4	mg/kg	0.46	0.14	1	12/21/16 09:54	12/22/16 09:52	7440-47-3	
Lead	21.7	mg/kg	0.45	0.13	1	12/21/16 09:54	12/22/16 09:52	7439-92-1	
Selenium	<1.3	mg/kg	1.3	0.39	1	12/21/16 09:54	12/22/16 09:52	7782-49-2	
Silver	<0.36	mg/kg	0.36	0.11	1	12/21/16 09:54	12/22/16 09:52	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.095	mg/kg	0.023	0.0068	1	12/20/16 13:10	12/20/16 19:34	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	30.2	%	0.10	0.10	1		12/21/16 15:20		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	42.2	ug/kg	1.9	0.56	1	12/09/16 07:17	12/16/16 18:11	83-32-9	
Acenaphthylene	34.7	ug/kg	1.3	0.39	1	12/09/16 07:17	12/16/16 18:11	208-96-8	
Anthracene	61.7	ug/kg	2.2	0.65	1	12/09/16 07:17	12/16/16 18:11	120-12-7	
Benzo(a)anthracene	141	ug/kg	2.2	0.67	1	12/09/16 07:17	12/16/16 18:11	56-55-3	
Benzo(a)pyrene	167	ug/kg	1.7	0.50	1	12/09/16 07:17	12/16/16 18:11	50-32-8	
Benzo(b)fluoranthene	220	ug/kg	2.7	0.82	1	12/09/16 07:17	12/16/16 18:11	205-99-2	
Benzo(g,h,i)perylene	116	ug/kg	2.2	0.65	1	12/09/16 07:17	12/16/16 18:11	191-24-2	
Benzo(k)fluoranthene	70.0	ug/kg	2.3	0.70	1	12/09/16 07:17	12/16/16 18:11	207-08-9	
Chrysene	157	ug/kg	2.6	0.79	1	12/09/16 07:17	12/16/16 18:11	218-01-9	
Dibenz(a,h)anthracene	<1.6	ug/kg	1.6	0.47	1	12/09/16 07:17	12/16/16 18:11	53-70-3	
Fluoranthene	305	ug/kg	3.7	1.1	1	12/09/16 07:17	12/16/16 18:11	206-44-0	
Fluorene	37.3	ug/kg	1.8	0.55	1	12/09/16 07:17	12/16/16 18:11	86-73-7	
Indeno(1,2,3-cd)pyrene	105	ug/kg	3.6	1.1	1	12/09/16 07:17	12/16/16 18:11	193-39-5	
Naphthalene	47.7	ug/kg	1.7	0.51	1	12/09/16 07:17	12/16/16 18:11	91-20-3	
Phenanthrene	242	ug/kg	1.9	0.58	1	12/09/16 07:17	12/16/16 18:11	85-01-8	
Pyrene	266	ug/kg	3.9	1.2	1	12/09/16 07:17	12/16/16 18:11	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	80	%	41-125		1	12/09/16 07:17	12/16/16 18:11	321-60-8	
p-Terphenyl-d14 (S)	78	%	39-125		1	12/09/16 07:17	12/16/16 18:11	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1560	ug/kg	1560	467	1	12/09/16 10:54	12/10/16 04:26	67-64-1	
Allyl chloride	<203	ug/kg	203	61.1	1	12/09/16 10:54	12/10/16 04:26	107-05-1	
Benzene	<20.5	ug/kg	20.5	6.2	1	12/09/16 10:54	12/10/16 04:26	71-43-2	
Bromobenzene	<60.7	ug/kg	60.7	18.2	1	12/09/16 10:54	12/10/16 04:26	108-86-1	
Bromochloromethane	<70.7	ug/kg	70.7	21.2	1	12/09/16 10:54	12/10/16 04:26	74-97-5	
Bromodichloromethane	<66.4	ug/kg	66.4	19.9	1	12/09/16 10:54	12/10/16 04:26	75-27-4	
Bromoform	<204	ug/kg	204	61.4	1	12/09/16 10:54	12/10/16 04:26	75-25-2	
Bromomethane	<240	ug/kg	240	72.2	1	12/09/16 10:54	12/10/16 04:26	74-83-9	
2-Butanone (MEK)	<313	ug/kg	313	94.0	1	12/09/16 10:54	12/10/16 04:26	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S12\_5-5.5**      **Lab ID: 10372630004**      Collected: 12/07/16 10:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<57.4	ug/kg	57.4	17.2	1	12/09/16 10:54	12/10/16 04:26	104-51-8	
sec-Butylbenzene	<56.0	ug/kg	56.0	16.8	1	12/09/16 10:54	12/10/16 04:26	135-98-8	
tert-Butylbenzene	<74.9	ug/kg	74.9	22.5	1	12/09/16 10:54	12/10/16 04:26	98-06-6	
Carbon tetrachloride	<74.5	ug/kg	74.5	22.4	1	12/09/16 10:54	12/10/16 04:26	56-23-5	
Chlorobenzene	<41.3	ug/kg	41.3	12.4	1	12/09/16 10:54	12/10/16 04:26	108-90-7	
Chloroethane	<375	ug/kg	375	113	1	12/09/16 10:54	12/10/16 04:26	75-00-3	
Chloroform	<115	ug/kg	115	34.6	1	12/09/16 10:54	12/10/16 04:26	67-66-3	
Chloromethane	<115	ug/kg	115	34.5	1	12/09/16 10:54	12/10/16 04:26	74-87-3	
2-Chlorotoluene	<65.4	ug/kg	65.4	19.7	1	12/09/16 10:54	12/10/16 04:26	95-49-8	
4-Chlorotoluene	<62.1	ug/kg	62.1	18.7	1	12/09/16 10:54	12/10/16 04:26	106-43-4	
1,2-Dibromo-3-chloropropane	<139	ug/kg	139	139	1	12/09/16 10:54	12/10/16 04:26	96-12-8	
Dibromochloromethane	<203	ug/kg	203	61.1	1	12/09/16 10:54	12/10/16 04:26	124-48-1	
1,2-Dibromoethane (EDB)	<26.8	ug/kg	26.8	26.8	1	12/09/16 10:54	12/10/16 04:26	106-93-4	
Dibromomethane	<92.5	ug/kg	92.5	27.8	1	12/09/16 10:54	12/10/16 04:26	74-95-3	
1,2-Dichlorobenzene	<13.8	ug/kg	13.8	13.8	1	12/09/16 10:54	12/10/16 04:26	95-50-1	
1,3-Dichlorobenzene	<20.9	ug/kg	20.9	13.8	1	12/09/16 10:54	12/10/16 04:26	541-73-1	
1,4-Dichlorobenzene	<68.8	ug/kg	68.8	20.7	1	12/09/16 10:54	12/10/16 04:26	106-46-7	
Dichlorodifluoromethane	<72.6	ug/kg	72.6	21.8	1	12/09/16 10:54	12/10/16 04:26	75-71-8	
1,1-Dichloroethane	<27.6	ug/kg	27.6	27.6	1	12/09/16 10:54	12/10/16 04:26	75-34-3	
1,2-Dichloroethane	<22.5	ug/kg	22.5	22.5	1	12/09/16 10:54	12/10/16 04:26	107-06-2	
1,1-Dichloroethene	<18.1	ug/kg	18.1	18.1	1	12/09/16 10:54	12/10/16 04:26	75-35-4	
cis-1,2-Dichloroethene	<88.2	ug/kg	88.2	26.5	1	12/09/16 10:54	12/10/16 04:26	156-59-2	
trans-1,2-Dichloroethene	<114	ug/kg	114	34.3	1	12/09/16 10:54	12/10/16 04:26	156-60-5	
Dichlorofluoromethane	<650	ug/kg	650	195	1	12/09/16 10:54	12/10/16 04:26	75-43-4	
1,2-Dichloropropane	<24.6	ug/kg	24.6	24.6	1	12/09/16 10:54	12/10/16 04:26	78-87-5	
1,3-Dichloropropane	<84.9	ug/kg	84.9	25.5	1	12/09/16 10:54	12/10/16 04:26	142-28-9	
2,2-Dichloropropane	<75.4	ug/kg	75.4	22.6	1	12/09/16 10:54	12/10/16 04:26	594-20-7	
1,1-Dichloropropene	<21.5	ug/kg	21.5	21.5	1	12/09/16 10:54	12/10/16 04:26	563-58-6	
cis-1,3-Dichloropropene	<108	ug/kg	108	32.5	1	12/09/16 10:54	12/10/16 04:26	10061-01-5	
trans-1,3-Dichloropropene	<80.6	ug/kg	80.6	24.2	1	12/09/16 10:54	12/10/16 04:26	10061-02-6	
Diethyl ether (Ethyl ether)	<97.7	ug/kg	97.7	29.3	1	12/09/16 10:54	12/10/16 04:26	60-29-7	
Ethylbenzene	<75.4	ug/kg	75.4	22.6	1	12/09/16 10:54	12/10/16 04:26	100-41-4	
Hexachloro-1,3-butadiene	<223	ug/kg	223	66.9	1	12/09/16 10:54	12/10/16 04:26	87-68-3	
Isopropylbenzene (Cumene)	<84.4	ug/kg	84.4	25.4	1	12/09/16 10:54	12/10/16 04:26	98-82-8	
p-Isopropyltoluene	<39.4	ug/kg	39.4	11.8	1	12/09/16 10:54	12/10/16 04:26	99-87-6	
Methylene Chloride	<439	ug/kg	439	132	1	12/09/16 10:54	12/10/16 04:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	<157	ug/kg	157	47.1	1	12/09/16 10:54	12/10/16 04:26	108-10-1	
Methyl-tert-butyl ether	<44.4	ug/kg	44.4	13.3	1	12/09/16 10:54	12/10/16 04:26	1634-04-4	
Naphthalene	109	ug/kg	57.4	17.2	1	12/09/16 10:54	12/10/16 04:26	91-20-3	
n-Propylbenzene	<70.7	ug/kg	70.7	21.2	1	12/09/16 10:54	12/10/16 04:26	103-65-1	
Styrene	<61.7	ug/kg	61.7	18.5	1	12/09/16 10:54	12/10/16 04:26	100-42-5	
1,1,1,2-Tetrachloroethane	<28.2	ug/kg	28.2	28.2	1	12/09/16 10:54	12/10/16 04:26	630-20-6	
1,1,2,2-Tetrachloroethane	<15.8	ug/kg	15.8	15.8	1	12/09/16 10:54	12/10/16 04:26	79-34-5	
Tetrachloroethene	<90.6	ug/kg	90.6	27.2	1	12/09/16 10:54	12/10/16 04:26	127-18-4	
Tetrahydrofuran	<1180	ug/kg	1180	353	1	12/09/16 10:54	12/10/16 04:26	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S12\_5-5.5**      **Lab ID: 10372630004**      Collected: 12/07/16 10:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<75.4	ug/kg	75.4	22.6	1	12/09/16 10:54	12/10/16 04:26	108-88-3	
1,2,3-Trichlorobenzene	<20.5	ug/kg	20.5	20.5	1	12/09/16 10:54	12/10/16 04:26	87-61-6	
1,2,4-Trichlorobenzene	<21.9	ug/kg	21.9	21.9	1	12/09/16 10:54	12/10/16 04:26	120-82-1	
1,1,1-Trichloroethane	<29.8	ug/kg	29.8	29.8	1	12/09/16 10:54	12/10/16 04:26	71-55-6	
1,1,2-Trichloroethane	<15.4	ug/kg	15.4	15.4	1	12/09/16 10:54	12/10/16 04:26	79-00-5	
Trichloroethene	<67.8	ug/kg	67.8	20.4	1	12/09/16 10:54	12/10/16 04:26	79-01-6	
Trichlorofluoromethane	<238	ug/kg	238	71.5	1	12/09/16 10:54	12/10/16 04:26	75-69-4	
1,2,3-Trichloropropane	<73.8	ug/kg	73.8	73.8	1	12/09/16 10:54	12/10/16 04:26	96-18-4	
1,1,2-Trichlorotrifluoroethane	<171	ug/kg	171	51.3	1	12/09/16 10:54	12/10/16 04:26	76-13-1	
1,2,4-Trimethylbenzene	<15.7	ug/kg	15.7	15.7	1	12/09/16 10:54	12/10/16 04:26	95-63-6	
1,3,5-Trimethylbenzene	<54.5	ug/kg	54.5	16.4	1	12/09/16 10:54	12/10/16 04:26	108-67-8	
Vinyl chloride	<30.4	ug/kg	30.4	9.1	1	12/09/16 10:54	12/10/16 04:26	75-01-4	
Xylene (Total)	<190	ug/kg	190	57.0	1	12/09/16 10:54	12/10/16 04:26	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	91	%	75-129		1	12/09/16 10:54	12/10/16 04:26	17060-07-0	
Toluene-d8 (S)	94	%	75-125		1	12/09/16 10:54	12/10/16 04:26	2037-26-5	
4-Bromofluorobenzene (S)	105	%	75-125		1	12/09/16 10:54	12/10/16 04:26	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S12\_20-24**      **Lab ID: 10372630005**      Collected: 12/07/16 10:50      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	3.3	mg/kg	1.0	0.30	1	12/21/16 09:54	12/22/16 10:04	7440-38-2	
Barium	64.2	mg/kg	0.081	0.024	1	12/21/16 09:54	12/22/16 10:04	7440-39-3	
Cadmium	0.22	mg/kg	0.048	0.014	1	12/21/16 09:54	12/22/16 10:04	7440-43-9	
Chromium	15.9	mg/kg	0.52	0.16	1	12/21/16 09:54	12/22/16 10:04	7440-47-3	
Lead	35.9	mg/kg	0.50	0.15	1	12/21/16 09:54	12/22/16 10:04	7439-92-1	
Selenium	<1.5	mg/kg	1.5	0.44	1	12/21/16 09:54	12/22/16 10:04	7782-49-2	
Silver	<0.40	mg/kg	0.40	0.12	1	12/21/16 09:54	12/22/16 10:04	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.60	mg/kg	0.025	0.0076	1	12/20/16 13:10	12/20/16 19:36	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	35.8	%	0.10	0.10	1		12/21/16 15:21		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	646	ug/kg	20.3	6.1	10	12/09/16 07:17	12/15/16 01:12	83-32-9	
Acenaphthylene	207	ug/kg	14.1	4.2	10	12/09/16 07:17	12/15/16 01:12	208-96-8	
Anthracene	1110	ug/kg	23.5	7.1	10	12/09/16 07:17	12/15/16 01:12	120-12-7	
Benzo(a)anthracene	2050	ug/kg	24.3	7.3	10	12/09/16 07:17	12/15/16 01:12	56-55-3	
Benzo(a)pyrene	1910	ug/kg	18.0	5.4	10	12/09/16 07:17	12/15/16 01:12	50-32-8	
Benzo(b)fluoranthene	2290	ug/kg	29.7	8.9	10	12/09/16 07:17	12/15/16 01:12	205-99-2	
Benzo(g,h,i)perylene	1120	ug/kg	23.7	7.1	10	12/09/16 07:17	12/15/16 01:12	191-24-2	
Benzo(k)fluoranthene	828	ug/kg	25.5	7.7	10	12/09/16 07:17	12/15/16 01:12	207-08-9	
Chrysene	1960	ug/kg	28.8	8.6	10	12/09/16 07:17	12/15/16 01:12	218-01-9	
Dibenz(a,h)anthracene	<16.9	ug/kg	16.9	5.1	10	12/09/16 07:17	12/15/16 01:12	53-70-3	
Fluoranthene	4090	ug/kg	40.6	12.2	10	12/09/16 07:17	12/15/16 01:12	206-44-0	
Fluorene	410	ug/kg	19.9	6.0	10	12/09/16 07:17	12/15/16 01:12	86-73-7	
Indeno(1,2,3-cd)pyrene	984	ug/kg	38.9	11.7	10	12/09/16 07:17	12/15/16 01:12	193-39-5	
Naphthalene	273	ug/kg	18.5	5.6	10	12/09/16 07:17	12/15/16 01:12	91-20-3	
Phenanthrene	3220	ug/kg	20.9	6.3	10	12/09/16 07:17	12/15/16 01:12	85-01-8	
Pyrene	3700	ug/kg	42.9	12.9	10	12/09/16 07:17	12/15/16 01:12	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	82	%	41-125		10	12/09/16 07:17	12/15/16 01:12	321-60-8	D4
p-Terphenyl-d14 (S)	77	%	39-125		10	12/09/16 07:17	12/15/16 01:12	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<2170	ug/kg	2170	651	1	12/09/16 10:54	12/10/16 04:42	67-64-1	
Allyl chloride	<284	ug/kg	284	85.2	1	12/09/16 10:54	12/10/16 04:42	107-05-1	
Benzene	320	ug/kg	28.6	8.6	1	12/09/16 10:54	12/10/16 04:42	71-43-2	
Bromobenzene	<84.6	ug/kg	84.6	25.4	1	12/09/16 10:54	12/10/16 04:42	108-86-1	
Bromochloromethane	<98.5	ug/kg	98.5	29.6	1	12/09/16 10:54	12/10/16 04:42	74-97-5	
Bromodichloromethane	<92.6	ug/kg	92.6	27.8	1	12/09/16 10:54	12/10/16 04:42	75-27-4	
Bromoform	<285	ug/kg	285	85.6	1	12/09/16 10:54	12/10/16 04:42	75-25-2	
Bromomethane	<335	ug/kg	335	101	1	12/09/16 10:54	12/10/16 04:42	74-83-9	
2-Butanone (MEK)	<436	ug/kg	436	131	1	12/09/16 10:54	12/10/16 04:42	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S12\_20-24**      **Lab ID: 10372630005**      Collected: 12/07/16 10:50      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<80.0	ug/kg	80.0	24.0	1	12/09/16 10:54	12/10/16 04:42	104-51-8	
sec-Butylbenzene	<78.0	ug/kg	78.0	23.4	1	12/09/16 10:54	12/10/16 04:42	135-98-8	
tert-Butylbenzene	<104	ug/kg	104	31.4	1	12/09/16 10:54	12/10/16 04:42	98-06-6	
Carbon tetrachloride	<104	ug/kg	104	31.2	1	12/09/16 10:54	12/10/16 04:42	56-23-5	
Chlorobenzene	<57.5	ug/kg	57.5	17.3	1	12/09/16 10:54	12/10/16 04:42	108-90-7	
Chloroethane	<522	ug/kg	522	157	1	12/09/16 10:54	12/10/16 04:42	75-00-3	
Chloroform	<161	ug/kg	161	48.3	1	12/09/16 10:54	12/10/16 04:42	67-66-3	
Chloromethane	<160	ug/kg	160	48.1	1	12/09/16 10:54	12/10/16 04:42	74-87-3	
2-Chlorotoluene	<91.2	ug/kg	91.2	27.4	1	12/09/16 10:54	12/10/16 04:42	95-49-8	
4-Chlorotoluene	<86.6	ug/kg	86.6	26.0	1	12/09/16 10:54	12/10/16 04:42	106-43-4	
1,2-Dibromo-3-chloropropane	<194	ug/kg	194	194	1	12/09/16 10:54	12/10/16 04:42	96-12-8	
Dibromochloromethane	<284	ug/kg	284	85.2	1	12/09/16 10:54	12/10/16 04:42	124-48-1	
1,2-Dibromoethane (EDB)	<37.3	ug/kg	37.3	37.3	1	12/09/16 10:54	12/10/16 04:42	106-93-4	
Dibromomethane	<129	ug/kg	129	38.7	1	12/09/16 10:54	12/10/16 04:42	74-95-3	
1,2-Dichlorobenzene	<19.2	ug/kg	19.2	19.2	1	12/09/16 10:54	12/10/16 04:42	95-50-1	
1,3-Dichlorobenzene	<29.2	ug/kg	29.2	19.2	1	12/09/16 10:54	12/10/16 04:42	541-73-1	
1,4-Dichlorobenzene	<95.9	ug/kg	95.9	28.8	1	12/09/16 10:54	12/10/16 04:42	106-46-7	
Dichlorodifluoromethane	<101	ug/kg	101	30.4	1	12/09/16 10:54	12/10/16 04:42	75-71-8	
1,1-Dichloroethane	<38.5	ug/kg	38.5	38.5	1	12/09/16 10:54	12/10/16 04:42	75-34-3	
1,2-Dichloroethane	<31.4	ug/kg	31.4	31.4	1	12/09/16 10:54	12/10/16 04:42	107-06-2	
1,1-Dichloroethene	<25.2	ug/kg	25.2	25.2	1	12/09/16 10:54	12/10/16 04:42	75-35-4	
cis-1,2-Dichloroethene	<123	ug/kg	123	36.9	1	12/09/16 10:54	12/10/16 04:42	156-59-2	
trans-1,2-Dichloroethene	<159	ug/kg	159	47.9	1	12/09/16 10:54	12/10/16 04:42	156-60-5	
Dichlorofluoromethane	<906	ug/kg	906	272	1	12/09/16 10:54	12/10/16 04:42	75-43-4	
1,2-Dichloropropane	<34.4	ug/kg	34.4	34.4	1	12/09/16 10:54	12/10/16 04:42	78-87-5	
1,3-Dichloropropane	<118	ug/kg	118	35.5	1	12/09/16 10:54	12/10/16 04:42	142-28-9	
2,2-Dichloropropane	<105	ug/kg	105	31.6	1	12/09/16 10:54	12/10/16 04:42	594-20-7	
1,1-Dichloropropene	<30.0	ug/kg	30.0	30.0	1	12/09/16 10:54	12/10/16 04:42	563-58-6	
cis-1,3-Dichloropropene	<151	ug/kg	151	45.3	1	12/09/16 10:54	12/10/16 04:42	10061-01-5	
trans-1,3-Dichloropropene	<112	ug/kg	112	33.8	1	12/09/16 10:54	12/10/16 04:42	10061-02-6	
Diethyl ether (Ethyl ether)	<136	ug/kg	136	40.9	1	12/09/16 10:54	12/10/16 04:42	60-29-7	
Ethylbenzene	<105	ug/kg	105	31.6	1	12/09/16 10:54	12/10/16 04:42	100-41-4	
Hexachloro-1,3-butadiene	<311	ug/kg	311	93.3	1	12/09/16 10:54	12/10/16 04:42	87-68-3	
Isopropylbenzene (Cumene)	<118	ug/kg	118	35.3	1	12/09/16 10:54	12/10/16 04:42	98-82-8	
p-Isopropyltoluene	<54.9	ug/kg	54.9	16.5	1	12/09/16 10:54	12/10/16 04:42	99-87-6	
Methylene Chloride	<612	ug/kg	612	184	1	12/09/16 10:54	12/10/16 04:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	<219	ug/kg	219	65.7	1	12/09/16 10:54	12/10/16 04:42	108-10-1	
Methyl-tert-butyl ether	<61.9	ug/kg	61.9	18.6	1	12/09/16 10:54	12/10/16 04:42	1634-04-4	
Naphthalene	336	ug/kg	80.0	24.0	1	12/09/16 10:54	12/10/16 04:42	91-20-3	
n-Propylbenzene	<98.5	ug/kg	98.5	29.6	1	12/09/16 10:54	12/10/16 04:42	103-65-1	
Styrene	<86.0	ug/kg	86.0	25.8	1	12/09/16 10:54	12/10/16 04:42	100-42-5	
1,1,1,2-Tetrachloroethane	<39.3	ug/kg	39.3	39.3	1	12/09/16 10:54	12/10/16 04:42	630-20-6	
1,1,2,2-Tetrachloroethane	<22.0	ug/kg	22.0	22.0	1	12/09/16 10:54	12/10/16 04:42	79-34-5	
Tetrachloroethene	<126	ug/kg	126	37.9	1	12/09/16 10:54	12/10/16 04:42	127-18-4	
Tetrahydrofuran	<1640	ug/kg	1640	492	1	12/09/16 10:54	12/10/16 04:42	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S12\_20-24**      **Lab ID: 10372630005**      Collected: 12/07/16 10:50      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<b>346</b>	ug/kg	105	31.6	1	12/09/16 10:54	12/10/16 04:42	108-88-3	
1,2,3-Trichlorobenzene	<b>&lt;28.6</b>	ug/kg	28.6	28.6	1	12/09/16 10:54	12/10/16 04:42	87-61-6	
1,2,4-Trichlorobenzene	<b>&lt;30.6</b>	ug/kg	30.6	30.6	1	12/09/16 10:54	12/10/16 04:42	120-82-1	
1,1,1-Trichloroethane	<b>&lt;41.5</b>	ug/kg	41.5	41.5	1	12/09/16 10:54	12/10/16 04:42	71-55-6	
1,1,2-Trichloroethane	<b>&lt;21.4</b>	ug/kg	21.4	21.4	1	12/09/16 10:54	12/10/16 04:42	79-00-5	
Trichloroethene	<b>&lt;94.6</b>	ug/kg	94.6	28.4	1	12/09/16 10:54	12/10/16 04:42	79-01-6	
Trichlorofluoromethane	<b>&lt;332</b>	ug/kg	332	99.7	1	12/09/16 10:54	12/10/16 04:42	75-69-4	
1,2,3-Trichloropropane	<b>&lt;103</b>	ug/kg	103	103	1	12/09/16 10:54	12/10/16 04:42	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;238</b>	ug/kg	238	71.5	1	12/09/16 10:54	12/10/16 04:42	76-13-1	
1,2,4-Trimethylbenzene	<b>82.8</b>	ug/kg	21.8	21.8	1	12/09/16 10:54	12/10/16 04:42	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;76.0</b>	ug/kg	76.0	22.8	1	12/09/16 10:54	12/10/16 04:42	108-67-8	
Vinyl chloride	<b>&lt;42.5</b>	ug/kg	42.5	12.7	1	12/09/16 10:54	12/10/16 04:42	75-01-4	
Xylene (Total)	<b>&lt;264</b>	ug/kg	264	79.4	1	12/09/16 10:54	12/10/16 04:42	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	93	%	75-129		1	12/09/16 10:54	12/10/16 04:42	17060-07-0	
Toluene-d8 (S)	94	%	75-125		1	12/09/16 10:54	12/10/16 04:42	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/09/16 10:54	12/10/16 04:42	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S12\_24-25**      **Lab ID: 10372630006**      Collected: 12/07/16 11:15      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	1.9	mg/kg	0.77	0.23	1	12/21/16 09:54	12/22/16 10:06	7440-38-2	
Barium	29.7	mg/kg	0.062	0.019	1	12/21/16 09:54	12/22/16 10:06	7440-39-3	
Cadmium	<0.037	mg/kg	0.037	0.011	1	12/21/16 09:54	12/22/16 10:06	7440-43-9	
Chromium	10.5	mg/kg	0.40	0.12	1	12/21/16 09:54	12/22/16 10:06	7440-47-3	
Lead	3.0	mg/kg	0.39	0.12	1	12/21/16 09:54	12/22/16 10:06	7439-92-1	
Selenium	<1.1	mg/kg	1.1	0.34	1	12/21/16 09:54	12/22/16 10:06	7782-49-2	
Silver	<0.31	mg/kg	0.31	0.093	1	12/21/16 09:54	12/22/16 10:06	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.026	mg/kg	0.022	0.0067	1	12/20/16 13:10	12/20/16 19:42	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	27.4	%	0.10	0.10	1		12/21/16 15:21		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	<1.8	ug/kg	1.8	0.54	1	12/09/16 07:17	12/14/16 19:07	83-32-9	
Acenaphthylene	<1.2	ug/kg	1.2	0.37	1	12/09/16 07:17	12/14/16 19:07	208-96-8	
Anthracene	<2.1	ug/kg	2.1	0.62	1	12/09/16 07:17	12/14/16 19:07	120-12-7	
Benzo(a)anthracene	35.8	ug/kg	2.1	0.64	1	12/09/16 07:17	12/14/16 19:07	56-55-3	
Benzo(a)pyrene	38.1	ug/kg	1.6	0.48	1	12/09/16 07:17	12/14/16 19:07	50-32-8	
Benzo(b)fluoranthene	35.2	ug/kg	2.6	0.79	1	12/09/16 07:17	12/14/16 19:07	205-99-2	
Benzo(g,h,i)perylene	27.6	ug/kg	2.1	0.63	1	12/09/16 07:17	12/14/16 19:07	191-24-2	
Benzo(k)fluoranthene	16.5	ug/kg	2.2	0.67	1	12/09/16 07:17	12/14/16 19:07	207-08-9	
Chrysene	33.9	ug/kg	2.5	0.76	1	12/09/16 07:17	12/14/16 19:07	218-01-9	
Dibenz(a,h)anthracene	<1.5	ug/kg	1.5	0.45	1	12/09/16 07:17	12/14/16 19:07	53-70-3	
Fluoranthene	66.6	ug/kg	3.6	1.1	1	12/09/16 07:17	12/14/16 19:07	206-44-0	
Fluorene	<1.8	ug/kg	1.8	0.53	1	12/09/16 07:17	12/14/16 19:07	86-73-7	
Indeno(1,2,3-cd)pyrene	17.8	ug/kg	3.4	1.0	1	12/09/16 07:17	12/14/16 19:07	193-39-5	
Naphthalene	<1.6	ug/kg	1.6	0.49	1	12/09/16 07:17	12/14/16 19:07	91-20-3	
Phenanthrene	22.0	ug/kg	1.8	0.55	1	12/09/16 07:17	12/14/16 19:07	85-01-8	
Pyrene	86.1	ug/kg	3.8	1.1	1	12/09/16 07:17	12/14/16 19:07	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	78	%	41-125		1	12/09/16 07:17	12/14/16 19:07	321-60-8	
p-Terphenyl-d14 (S)	77	%	39-125		1	12/09/16 07:17	12/14/16 19:07	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1510	ug/kg	1510	453	1	12/09/16 10:54	12/10/16 04:58	67-64-1	
Allyl chloride	<197	ug/kg	197	59.2	1	12/09/16 10:54	12/10/16 04:58	107-05-1	
Benzene	<19.9	ug/kg	19.9	6.0	1	12/09/16 10:54	12/10/16 04:58	71-43-2	
Bromobenzene	<58.8	ug/kg	58.8	17.7	1	12/09/16 10:54	12/10/16 04:58	108-86-1	
Bromochloromethane	<68.5	ug/kg	68.5	20.6	1	12/09/16 10:54	12/10/16 04:58	74-97-5	
Bromodichloromethane	<64.4	ug/kg	64.4	19.3	1	12/09/16 10:54	12/10/16 04:58	75-27-4	
Bromoform	<198	ug/kg	198	59.5	1	12/09/16 10:54	12/10/16 04:58	75-25-2	
Bromomethane	<233	ug/kg	233	70.0	1	12/09/16 10:54	12/10/16 04:58	74-83-9	
2-Butanone (MEK)	<303	ug/kg	303	91.1	1	12/09/16 10:54	12/10/16 04:58	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

Sample: **S12\_24-25** Lab ID: **10372630006** Collected: 12/07/16 11:15 Received: 12/08/16 18:35 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<55.6	ug/kg	55.6	16.7	1	12/09/16 10:54	12/10/16 04:58	104-51-8	
sec-Butylbenzene	<54.2	ug/kg	54.2	16.3	1	12/09/16 10:54	12/10/16 04:58	135-98-8	
tert-Butylbenzene	<72.6	ug/kg	72.6	21.8	1	12/09/16 10:54	12/10/16 04:58	98-06-6	
Carbon tetrachloride	<72.2	ug/kg	72.2	21.7	1	12/09/16 10:54	12/10/16 04:58	56-23-5	
Chlorobenzene	<40.0	ug/kg	40.0	12.0	1	12/09/16 10:54	12/10/16 04:58	108-90-7	
Chloroethane	<363	ug/kg	363	109	1	12/09/16 10:54	12/10/16 04:58	75-00-3	
Chloroform	<112	ug/kg	112	33.5	1	12/09/16 10:54	12/10/16 04:58	67-66-3	
Chloromethane	<111	ug/kg	111	33.4	1	12/09/16 10:54	12/10/16 04:58	74-87-3	
2-Chlorotoluene	<63.4	ug/kg	63.4	19.1	1	12/09/16 10:54	12/10/16 04:58	95-49-8	
4-Chlorotoluene	<60.2	ug/kg	60.2	18.1	1	12/09/16 10:54	12/10/16 04:58	106-43-4	
1,2-Dibromo-3-chloropropane	<135	ug/kg	135	135	1	12/09/16 10:54	12/10/16 04:58	96-12-8	
Dibromochloromethane	<197	ug/kg	197	59.2	1	12/09/16 10:54	12/10/16 04:58	124-48-1	
1,2-Dibromoethane (EDB)	<26.0	ug/kg	26.0	26.0	1	12/09/16 10:54	12/10/16 04:58	106-93-4	
Dibromomethane	<89.7	ug/kg	89.7	26.9	1	12/09/16 10:54	12/10/16 04:58	74-95-3	
1,2-Dichlorobenzene	<13.3	ug/kg	13.3	13.3	1	12/09/16 10:54	12/10/16 04:58	95-50-1	
1,3-Dichlorobenzene	<20.3	ug/kg	20.3	13.3	1	12/09/16 10:54	12/10/16 04:58	541-73-1	
1,4-Dichlorobenzene	<66.7	ug/kg	66.7	20.0	1	12/09/16 10:54	12/10/16 04:58	106-46-7	
Dichlorodifluoromethane	<70.3	ug/kg	70.3	21.1	1	12/09/16 10:54	12/10/16 04:58	75-71-8	
1,1-Dichloroethane	<26.8	ug/kg	26.8	26.8	1	12/09/16 10:54	12/10/16 04:58	75-34-3	
1,2-Dichloroethane	<21.8	ug/kg	21.8	21.8	1	12/09/16 10:54	12/10/16 04:58	107-06-2	
1,1-Dichloroethene	<17.5	ug/kg	17.5	17.5	1	12/09/16 10:54	12/10/16 04:58	75-35-4	
cis-1,2-Dichloroethene	<85.5	ug/kg	85.5	25.7	1	12/09/16 10:54	12/10/16 04:58	156-59-2	
trans-1,2-Dichloroethene	<111	ug/kg	111	33.3	1	12/09/16 10:54	12/10/16 04:58	156-60-5	
Dichlorofluoromethane	<630	ug/kg	630	189	1	12/09/16 10:54	12/10/16 04:58	75-43-4	
1,2-Dichloropropane	<23.9	ug/kg	23.9	23.9	1	12/09/16 10:54	12/10/16 04:58	78-87-5	
1,3-Dichloropropane	<82.3	ug/kg	82.3	24.7	1	12/09/16 10:54	12/10/16 04:58	142-28-9	
2,2-Dichloropropane	<73.1	ug/kg	73.1	22.0	1	12/09/16 10:54	12/10/16 04:58	594-20-7	
1,1-Dichloropropene	<20.8	ug/kg	20.8	20.8	1	12/09/16 10:54	12/10/16 04:58	563-58-6	
cis-1,3-Dichloropropene	<105	ug/kg	105	31.5	1	12/09/16 10:54	12/10/16 04:58	10061-01-5	
trans-1,3-Dichloropropene	<78.2	ug/kg	78.2	23.5	1	12/09/16 10:54	12/10/16 04:58	10061-02-6	
Diethyl ether (Ethyl ether)	<94.7	ug/kg	94.7	28.4	1	12/09/16 10:54	12/10/16 04:58	60-29-7	
Ethylbenzene	<73.1	ug/kg	73.1	22.0	1	12/09/16 10:54	12/10/16 04:58	100-41-4	
Hexachloro-1,3-butadiene	<216	ug/kg	216	64.9	1	12/09/16 10:54	12/10/16 04:58	87-68-3	
Isopropylbenzene (Cumene)	<81.8	ug/kg	81.8	24.6	1	12/09/16 10:54	12/10/16 04:58	98-82-8	
p-Isopropyltoluene	<38.2	ug/kg	38.2	11.5	1	12/09/16 10:54	12/10/16 04:58	99-87-6	
Methylene Chloride	<426	ug/kg	426	128	1	12/09/16 10:54	12/10/16 04:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	<152	ug/kg	152	45.7	1	12/09/16 10:54	12/10/16 04:58	108-10-1	
Methyl-tert-butyl ether	<43.0	ug/kg	43.0	12.9	1	12/09/16 10:54	12/10/16 04:58	1634-04-4	
Naphthalene	<55.6	ug/kg	55.6	16.7	1	12/09/16 10:54	12/10/16 04:58	91-20-3	
n-Propylbenzene	<68.5	ug/kg	68.5	20.6	1	12/09/16 10:54	12/10/16 04:58	103-65-1	
Styrene	<59.8	ug/kg	59.8	17.9	1	12/09/16 10:54	12/10/16 04:58	100-42-5	
1,1,1,2-Tetrachloroethane	<27.3	ug/kg	27.3	27.3	1	12/09/16 10:54	12/10/16 04:58	630-20-6	
1,1,2,2-Tetrachloroethane	<15.3	ug/kg	15.3	15.3	1	12/09/16 10:54	12/10/16 04:58	79-34-5	
Tetrachloroethene	<87.8	ug/kg	87.8	26.4	1	12/09/16 10:54	12/10/16 04:58	127-18-4	
Tetrahydrofuran	<1140	ug/kg	1140	342	1	12/09/16 10:54	12/10/16 04:58	109-99-9	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S12\_24-25**      **Lab ID: 10372630006**      Collected: 12/07/16 11:15      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<73.1	ug/kg	73.1	22.0	1	12/09/16 10:54	12/10/16 04:58	108-88-3	
1,2,3-Trichlorobenzene	<19.9	ug/kg	19.9	19.9	1	12/09/16 10:54	12/10/16 04:58	87-61-6	
1,2,4-Trichlorobenzene	<21.3	ug/kg	21.3	21.3	1	12/09/16 10:54	12/10/16 04:58	120-82-1	
1,1,1-Trichloroethane	<28.9	ug/kg	28.9	28.9	1	12/09/16 10:54	12/10/16 04:58	71-55-6	
1,1,2-Trichloroethane	<14.9	ug/kg	14.9	14.9	1	12/09/16 10:54	12/10/16 04:58	79-00-5	
Trichloroethene	<65.7	ug/kg	65.7	19.7	1	12/09/16 10:54	12/10/16 04:58	79-01-6	
Trichlorofluoromethane	<231	ug/kg	231	69.3	1	12/09/16 10:54	12/10/16 04:58	75-69-4	
1,2,3-Trichloropropane	<71.5	ug/kg	71.5	71.5	1	12/09/16 10:54	12/10/16 04:58	96-18-4	
1,1,2-Trichlorotrifluoroethane	<166	ug/kg	166	49.7	1	12/09/16 10:54	12/10/16 04:58	76-13-1	
1,2,4-Trimethylbenzene	<15.2	ug/kg	15.2	15.2	1	12/09/16 10:54	12/10/16 04:58	95-63-6	
1,3,5-Trimethylbenzene	<52.9	ug/kg	52.9	15.9	1	12/09/16 10:54	12/10/16 04:58	108-67-8	
Vinyl chloride	<29.5	ug/kg	29.5	8.9	1	12/09/16 10:54	12/10/16 04:58	75-01-4	
Xylene (Total)	<184	ug/kg	184	55.2	1	12/09/16 10:54	12/10/16 04:58	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	97	%	75-129		1	12/09/16 10:54	12/10/16 04:58	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/09/16 10:54	12/10/16 04:58	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/09/16 10:54	12/10/16 04:58	460-00-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S13\_14-18**      **Lab ID: 10372630007**      Collected: 12/07/16 12:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	3.2	mg/kg	0.91	0.27	1	12/21/16 09:54	12/22/16 10:09	7440-38-2	
Barium	102	mg/kg	0.073	0.022	1	12/21/16 09:54	12/22/16 10:09	7440-39-3	
Cadmium	1.0	mg/kg	0.043	0.013	1	12/21/16 09:54	12/22/16 10:09	7440-43-9	
Chromium	18.4	mg/kg	0.47	0.14	1	12/21/16 09:54	12/22/16 10:09	7440-47-3	
Lead	150	mg/kg	0.45	0.14	1	12/21/16 09:54	12/22/16 10:09	7439-92-1	
Selenium	<1.3	mg/kg	1.3	0.40	1	12/21/16 09:54	12/22/16 10:09	7782-49-2	
Silver	3.6	mg/kg	0.36	0.11	1	12/21/16 09:54	12/22/16 10:09	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	2.1	mg/kg	0.044	0.013	2	12/20/16 13:10	12/21/16 14:10	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	30.1	%	0.10	0.10	1		12/21/16 15:21		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	668	ug/kg	18.6	5.6	10	12/09/16 07:17	12/14/16 21:59	83-32-9	
Acenaphthylene	95.1	ug/kg	12.9	3.9	10	12/09/16 07:17	12/14/16 21:59	208-96-8	
Anthracene	661	ug/kg	21.6	6.5	10	12/09/16 07:17	12/14/16 21:59	120-12-7	
Benzo(a)anthracene	1300	ug/kg	22.3	6.7	10	12/09/16 07:17	12/14/16 21:59	56-55-3	
Benzo(a)pyrene	1120	ug/kg	16.5	4.9	10	12/09/16 07:17	12/14/16 21:59	50-32-8	
Benzo(b)fluoranthene	1440	ug/kg	27.2	8.2	10	12/09/16 07:17	12/14/16 21:59	205-99-2	
Benzo(g,h,i)perylene	637	ug/kg	21.7	6.5	10	12/09/16 07:17	12/14/16 21:59	191-24-2	
Benzo(k)fluoranthene	596	ug/kg	23.4	7.0	10	12/09/16 07:17	12/14/16 21:59	207-08-9	
Chrysene	1360	ug/kg	26.4	7.9	10	12/09/16 07:17	12/14/16 21:59	218-01-9	
Dibenz(a,h)anthracene	155	ug/kg	15.5	4.7	10	12/09/16 07:17	12/14/16 21:59	53-70-3	
Fluoranthene	3370	ug/kg	37.2	11.2	10	12/09/16 07:17	12/14/16 21:59	206-44-0	
Fluorene	616	ug/kg	18.2	5.5	10	12/09/16 07:17	12/14/16 21:59	86-73-7	
Indeno(1,2,3-cd)pyrene	618	ug/kg	35.6	10.7	10	12/09/16 07:17	12/14/16 21:59	193-39-5	
Naphthalene	355	ug/kg	17.0	5.1	10	12/09/16 07:17	12/14/16 21:59	91-20-3	
Phenanthrene	3660	ug/kg	19.1	5.7	10	12/09/16 07:17	12/14/16 21:59	85-01-8	
Pyrene	2770	ug/kg	39.4	11.8	10	12/09/16 07:17	12/14/16 21:59	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	93	%	41-125		10	12/09/16 07:17	12/14/16 21:59	321-60-8	D4
p-Terphenyl-d14 (S)	82	%	39-125		10	12/09/16 07:17	12/14/16 21:59	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1630	ug/kg	1630	490	1	12/09/16 10:54	12/10/16 05:14	67-64-1	
Allyl chloride	<214	ug/kg	214	64.2	1	12/09/16 10:54	12/10/16 05:14	107-05-1	
Benzene	75.7	ug/kg	21.5	6.5	1	12/09/16 10:54	12/10/16 05:14	71-43-2	
Bromobenzene	<63.7	ug/kg	63.7	19.1	1	12/09/16 10:54	12/10/16 05:14	108-86-1	
Bromochloromethane	<74.2	ug/kg	74.2	22.3	1	12/09/16 10:54	12/10/16 05:14	74-97-5	
Bromodichloromethane	<69.7	ug/kg	69.7	20.9	1	12/09/16 10:54	12/10/16 05:14	75-27-4	
Bromoform	<215	ug/kg	215	64.5	1	12/09/16 10:54	12/10/16 05:14	75-25-2	
Bromomethane	<252	ug/kg	252	75.8	1	12/09/16 10:54	12/10/16 05:14	74-83-9	
2-Butanone (MEK)	<329	ug/kg	329	98.7	1	12/09/16 10:54	12/10/16 05:14	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

Sample: **S13\_14-18** Lab ID: **10372630007** Collected: 12/07/16 12:00 Received: 12/08/16 18:35 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<b>163</b>	ug/kg	60.3	18.1	1	12/09/16 10:54	12/10/16 05:14	104-51-8	
sec-Butylbenzene	<b>108</b>	ug/kg	58.8	17.6	1	12/09/16 10:54	12/10/16 05:14	135-98-8	
tert-Butylbenzene	<b>&lt;78.7</b>	ug/kg	78.7	23.6	1	12/09/16 10:54	12/10/16 05:14	98-06-6	
Carbon tetrachloride	<b>&lt;78.2</b>	ug/kg	78.2	23.5	1	12/09/16 10:54	12/10/16 05:14	56-23-5	
Chlorobenzene	<b>&lt;43.3</b>	ug/kg	43.3	13.0	1	12/09/16 10:54	12/10/16 05:14	108-90-7	
Chloroethane	<b>&lt;393</b>	ug/kg	393	118	1	12/09/16 10:54	12/10/16 05:14	75-00-3	
Chloroform	<b>&lt;121</b>	ug/kg	121	36.3	1	12/09/16 10:54	12/10/16 05:14	67-66-3	
Chloromethane	<b>&lt;121</b>	ug/kg	121	36.2	1	12/09/16 10:54	12/10/16 05:14	74-87-3	
2-Chlorotoluene	<b>&lt;68.7</b>	ug/kg	68.7	20.6	1	12/09/16 10:54	12/10/16 05:14	95-49-8	
4-Chlorotoluene	<b>&lt;65.2</b>	ug/kg	65.2	19.6	1	12/09/16 10:54	12/10/16 05:14	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;146</b>	ug/kg	146	146	1	12/09/16 10:54	12/10/16 05:14	96-12-8	
Dibromochloromethane	<b>&lt;214</b>	ug/kg	214	64.2	1	12/09/16 10:54	12/10/16 05:14	124-48-1	
1,2-Dibromoethane (EDB)	<b>&lt;28.1</b>	ug/kg	28.1	28.1	1	12/09/16 10:54	12/10/16 05:14	106-93-4	
Dibromomethane	<b>&lt;97.1</b>	ug/kg	97.1	29.2	1	12/09/16 10:54	12/10/16 05:14	74-95-3	
1,2-Dichlorobenzene	<b>&lt;14.4</b>	ug/kg	14.4	14.4	1	12/09/16 10:54	12/10/16 05:14	95-50-1	
1,3-Dichlorobenzene	<b>&lt;22.0</b>	ug/kg	22.0	14.4	1	12/09/16 10:54	12/10/16 05:14	541-73-1	
1,4-Dichlorobenzene	<b>&lt;72.2</b>	ug/kg	72.2	21.7	1	12/09/16 10:54	12/10/16 05:14	106-46-7	
Dichlorodifluoromethane	<b>&lt;76.2</b>	ug/kg	76.2	22.9	1	12/09/16 10:54	12/10/16 05:14	75-71-8	
1,1-Dichloroethane	<b>&lt;29.0</b>	ug/kg	29.0	29.0	1	12/09/16 10:54	12/10/16 05:14	75-34-3	
1,2-Dichloroethane	<b>&lt;23.6</b>	ug/kg	23.6	23.6	1	12/09/16 10:54	12/10/16 05:14	107-06-2	
1,1-Dichloroethene	<b>&lt;19.0</b>	ug/kg	19.0	19.0	1	12/09/16 10:54	12/10/16 05:14	75-35-4	
cis-1,2-Dichloroethene	<b>&lt;92.6</b>	ug/kg	92.6	27.8	1	12/09/16 10:54	12/10/16 05:14	156-59-2	
trans-1,2-Dichloroethene	<b>&lt;120</b>	ug/kg	120	36.0	1	12/09/16 10:54	12/10/16 05:14	156-60-5	
Dichlorofluoromethane	<b>&lt;682</b>	ug/kg	682	205	1	12/09/16 10:54	12/10/16 05:14	75-43-4	
1,2-Dichloropropane	<b>&lt;25.9</b>	ug/kg	25.9	25.9	1	12/09/16 10:54	12/10/16 05:14	78-87-5	
1,3-Dichloropropane	<b>&lt;89.1</b>	ug/kg	89.1	26.8	1	12/09/16 10:54	12/10/16 05:14	142-28-9	
2,2-Dichloropropane	<b>&lt;79.2</b>	ug/kg	79.2	23.8	1	12/09/16 10:54	12/10/16 05:14	594-20-7	
1,1-Dichloropropene	<b>&lt;22.6</b>	ug/kg	22.6	22.6	1	12/09/16 10:54	12/10/16 05:14	563-58-6	
cis-1,3-Dichloropropene	<b>&lt;114</b>	ug/kg	114	34.1	1	12/09/16 10:54	12/10/16 05:14	10061-01-5	
trans-1,3-Dichloropropene	<b>&lt;84.7</b>	ug/kg	84.7	25.4	1	12/09/16 10:54	12/10/16 05:14	10061-02-6	
Diethyl ether (Ethyl ether)	<b>&lt;103</b>	ug/kg	103	30.8	1	12/09/16 10:54	12/10/16 05:14	60-29-7	
Ethylbenzene	<b>&lt;79.2</b>	ug/kg	79.2	23.8	1	12/09/16 10:54	12/10/16 05:14	100-41-4	
Hexachloro-1,3-butadiene	<b>&lt;234</b>	ug/kg	234	70.3	1	12/09/16 10:54	12/10/16 05:14	87-68-3	
Isopropylbenzene (Cumene)	<b>&lt;88.6</b>	ug/kg	88.6	26.6	1	12/09/16 10:54	12/10/16 05:14	98-82-8	
p-Isopropyltoluene	<b>94.5</b>	ug/kg	41.3	12.4	1	12/09/16 10:54	12/10/16 05:14	99-87-6	
Methylene Chloride	<b>&lt;461</b>	ug/kg	461	138	1	12/09/16 10:54	12/10/16 05:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	<b>&lt;165</b>	ug/kg	165	49.5	1	12/09/16 10:54	12/10/16 05:14	108-10-1	
Methyl-tert-butyl ether	<b>&lt;46.6</b>	ug/kg	46.6	14.0	1	12/09/16 10:54	12/10/16 05:14	1634-04-4	
Naphthalene	<b>169</b>	ug/kg	60.3	18.1	1	12/09/16 10:54	12/10/16 05:14	91-20-3	
n-Propylbenzene	<b>&lt;74.2</b>	ug/kg	74.2	22.3	1	12/09/16 10:54	12/10/16 05:14	103-65-1	
Styrene	<b>&lt;64.7</b>	ug/kg	64.7	19.4	1	12/09/16 10:54	12/10/16 05:14	100-42-5	
1,1,1,2-Tetrachloroethane	<b>&lt;29.6</b>	ug/kg	29.6	29.6	1	12/09/16 10:54	12/10/16 05:14	630-20-6	
1,1,2,2-Tetrachloroethane	<b>&lt;16.6</b>	ug/kg	16.6	16.6	1	12/09/16 10:54	12/10/16 05:14	79-34-5	
Tetrachloroethene	<b>&lt;95.1</b>	ug/kg	95.1	28.6	1	12/09/16 10:54	12/10/16 05:14	127-18-4	
Tetrahydrofuran	<b>&lt;1230</b>	ug/kg	1230	371	1	12/09/16 10:54	12/10/16 05:14	109-99-9	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S13\_14-18**      **Lab ID: 10372630007**      Collected: 12/07/16 12:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<b>101</b>	ug/kg	79.2	23.8	1	12/09/16 10:54	12/10/16 05:14	108-88-3	
1,2,3-Trichlorobenzene	<b>&lt;21.5</b>	ug/kg	21.5	21.5	1	12/09/16 10:54	12/10/16 05:14	87-61-6	
1,2,4-Trichlorobenzene	<b>&lt;23.0</b>	ug/kg	23.0	23.0	1	12/09/16 10:54	12/10/16 05:14	120-82-1	
1,1,1-Trichloroethane	<b>&lt;31.3</b>	ug/kg	31.3	31.3	1	12/09/16 10:54	12/10/16 05:14	71-55-6	
1,1,2-Trichloroethane	<b>&lt;16.2</b>	ug/kg	16.2	16.2	1	12/09/16 10:54	12/10/16 05:14	79-00-5	
Trichloroethene	<b>&lt;71.2</b>	ug/kg	71.2	21.4	1	12/09/16 10:54	12/10/16 05:14	79-01-6	
Trichlorofluoromethane	<b>&lt;250</b>	ug/kg	250	75.1	1	12/09/16 10:54	12/10/16 05:14	75-69-4	
1,2,3-Trichloropropane	<b>&lt;77.5</b>	ug/kg	77.5	77.5	1	12/09/16 10:54	12/10/16 05:14	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;179</b>	ug/kg	179	53.8	1	12/09/16 10:54	12/10/16 05:14	76-13-1	
1,2,4-Trimethylbenzene	<b>681</b>	ug/kg	16.4	16.4	1	12/09/16 10:54	12/10/16 05:14	95-63-6	
1,3,5-Trimethylbenzene	<b>225</b>	ug/kg	57.3	17.2	1	12/09/16 10:54	12/10/16 05:14	108-67-8	
Vinyl chloride	<b>&lt;32.0</b>	ug/kg	32.0	9.6	1	12/09/16 10:54	12/10/16 05:14	75-01-4	
Xylene (Total)	<b>&lt;199</b>	ug/kg	199	59.8	1	12/09/16 10:54	12/10/16 05:14	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	100	%	75-129		1	12/09/16 10:54	12/10/16 05:14	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/09/16 10:54	12/10/16 05:14	2037-26-5	
4-Bromofluorobenzene (S)	112	%	75-125		1	12/09/16 10:54	12/10/16 05:14	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S13\_18-19**      **Lab ID: 10372630008**      Collected: 12/07/16 12:15      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	1.3	mg/kg	0.74	0.22	1	12/21/16 09:54	12/22/16 10:12	7440-38-2	
Barium	15.5	mg/kg	0.059	0.018	1	12/21/16 09:54	12/22/16 10:12	7440-39-3	
Cadmium	0.040	mg/kg	0.035	0.011	1	12/21/16 09:54	12/22/16 10:12	7440-43-9	
Chromium	7.1	mg/kg	0.38	0.12	1	12/21/16 09:54	12/22/16 10:12	7440-47-3	
Lead	2.6	mg/kg	0.37	0.11	1	12/21/16 09:54	12/22/16 10:12	7439-92-1	
Selenium	<1.1	mg/kg	1.1	0.32	1	12/21/16 09:54	12/22/16 10:12	7782-49-2	
Silver	<0.30	mg/kg	0.30	0.089	1	12/21/16 09:54	12/22/16 10:12	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<0.022	mg/kg	0.022	0.0065	1	12/20/16 13:10	12/20/16 19:46	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	20.2	%	0.10	0.10	1		12/21/16 15:21		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	214	ug/kg	1.6	0.49	1	12/09/16 07:17	12/14/16 19:28	83-32-9	
Acenaphthylene	<1.1	ug/kg	1.1	0.34	1	12/09/16 07:17	12/14/16 19:28	208-96-8	
Anthracene	21.8	ug/kg	1.9	0.57	1	12/09/16 07:17	12/14/16 19:28	120-12-7	
Benzo(a)anthracene	41.5	ug/kg	1.9	0.59	1	12/09/16 07:17	12/14/16 19:28	56-55-3	
Benzo(a)pyrene	41.7	ug/kg	1.4	0.43	1	12/09/16 07:17	12/14/16 19:28	50-32-8	
Benzo(b)fluoranthene	42.8	ug/kg	2.4	0.71	1	12/09/16 07:17	12/14/16 19:28	205-99-2	
Benzo(g,h,i)perylene	26.9	ug/kg	1.9	0.57	1	12/09/16 07:17	12/14/16 19:28	191-24-2	
Benzo(k)fluoranthene	17.9	ug/kg	2.0	0.61	1	12/09/16 07:17	12/14/16 19:28	207-08-9	
Chrysene	41.1	ug/kg	2.3	0.69	1	12/09/16 07:17	12/14/16 19:28	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.41	1	12/09/16 07:17	12/14/16 19:28	53-70-3	
Fluoranthene	73.1	ug/kg	3.3	0.98	1	12/09/16 07:17	12/14/16 19:28	206-44-0	
Fluorene	40.4	ug/kg	1.6	0.48	1	12/09/16 07:17	12/14/16 19:28	86-73-7	
Indeno(1,2,3-cd)pyrene	23.6	ug/kg	3.1	0.94	1	12/09/16 07:17	12/14/16 19:28	193-39-5	
Naphthalene	29.2	ug/kg	1.5	0.45	1	12/09/16 07:17	12/14/16 19:28	91-20-3	
Phenanthrene	67.8	ug/kg	1.7	0.50	1	12/09/16 07:17	12/14/16 19:28	85-01-8	
Pyrene	83.7	ug/kg	3.4	1.0	1	12/09/16 07:17	12/14/16 19:28	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	67	%	41-125		1	12/09/16 07:17	12/14/16 19:28	321-60-8	
p-Terphenyl-d14 (S)	71	%	39-125		1	12/09/16 07:17	12/14/16 19:28	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1420	ug/kg	1420	426	1	12/09/16 10:54	12/10/16 05:30	67-64-1	
Allyl chloride	<185	ug/kg	185	55.7	1	12/09/16 10:54	12/10/16 05:30	107-05-1	
Benzene	<18.7	ug/kg	18.7	5.6	1	12/09/16 10:54	12/10/16 05:30	71-43-2	
Bromobenzene	<55.3	ug/kg	55.3	16.6	1	12/09/16 10:54	12/10/16 05:30	108-86-1	
Bromochloromethane	<64.4	ug/kg	64.4	19.3	1	12/09/16 10:54	12/10/16 05:30	74-97-5	
Bromodichloromethane	<60.5	ug/kg	60.5	18.2	1	12/09/16 10:54	12/10/16 05:30	75-27-4	
Bromoform	<186	ug/kg	186	55.9	1	12/09/16 10:54	12/10/16 05:30	75-25-2	
Bromomethane	<219	ug/kg	219	65.8	1	12/09/16 10:54	12/10/16 05:30	74-83-9	
2-Butanone (MEK)	<285	ug/kg	285	85.7	1	12/09/16 10:54	12/10/16 05:30	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S13\_18-19**      **Lab ID: 10372630008**      Collected: 12/07/16 12:15      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<52.3	ug/kg	52.3	15.7	1	12/09/16 10:54	12/10/16 05:30	104-51-8	
sec-Butylbenzene	<51.0	ug/kg	51.0	15.3	1	12/09/16 10:54	12/10/16 05:30	135-98-8	
tert-Butylbenzene	<68.3	ug/kg	68.3	20.5	1	12/09/16 10:54	12/10/16 05:30	98-06-6	
Carbon tetrachloride	<67.9	ug/kg	67.9	20.4	1	12/09/16 10:54	12/10/16 05:30	56-23-5	
Chlorobenzene	<37.6	ug/kg	37.6	11.3	1	12/09/16 10:54	12/10/16 05:30	108-90-7	
Chloroethane	<341	ug/kg	341	103	1	12/09/16 10:54	12/10/16 05:30	75-00-3	
Chloroform	<105	ug/kg	105	31.5	1	12/09/16 10:54	12/10/16 05:30	67-66-3	
Chloromethane	<105	ug/kg	105	31.4	1	12/09/16 10:54	12/10/16 05:30	74-87-3	
2-Chlorotoluene	<59.6	ug/kg	59.6	17.9	1	12/09/16 10:54	12/10/16 05:30	95-49-8	
4-Chlorotoluene	<56.6	ug/kg	56.6	17.0	1	12/09/16 10:54	12/10/16 05:30	106-43-4	
1,2-Dibromo-3-chloropropane	<127	ug/kg	127	127	1	12/09/16 10:54	12/10/16 05:30	96-12-8	
Dibromochloromethane	<185	ug/kg	185	55.7	1	12/09/16 10:54	12/10/16 05:30	124-48-1	
1,2-Dibromoethane (EDB)	<24.4	ug/kg	24.4	24.4	1	12/09/16 10:54	12/10/16 05:30	106-93-4	
Dibromomethane	<84.3	ug/kg	84.3	25.3	1	12/09/16 10:54	12/10/16 05:30	74-95-3	
1,2-Dichlorobenzene	<12.5	ug/kg	12.5	12.5	1	12/09/16 10:54	12/10/16 05:30	95-50-1	
1,3-Dichlorobenzene	<19.1	ug/kg	19.1	12.5	1	12/09/16 10:54	12/10/16 05:30	541-73-1	
1,4-Dichlorobenzene	<62.7	ug/kg	62.7	18.8	1	12/09/16 10:54	12/10/16 05:30	106-46-7	
Dichlorodifluoromethane	<66.1	ug/kg	66.1	19.9	1	12/09/16 10:54	12/10/16 05:30	75-71-8	
1,1-Dichloroethane	<25.2	ug/kg	25.2	25.2	1	12/09/16 10:54	12/10/16 05:30	75-34-3	
1,2-Dichloroethane	<20.5	ug/kg	20.5	20.5	1	12/09/16 10:54	12/10/16 05:30	107-06-2	
1,1-Dichloroethene	<16.5	ug/kg	16.5	16.5	1	12/09/16 10:54	12/10/16 05:30	75-35-4	
cis-1,2-Dichloroethene	<80.4	ug/kg	80.4	24.1	1	12/09/16 10:54	12/10/16 05:30	156-59-2	
trans-1,2-Dichloroethene	<104	ug/kg	104	31.3	1	12/09/16 10:54	12/10/16 05:30	156-60-5	
Dichlorofluoromethane	<592	ug/kg	592	178	1	12/09/16 10:54	12/10/16 05:30	75-43-4	
1,2-Dichloropropane	<22.5	ug/kg	22.5	22.5	1	12/09/16 10:54	12/10/16 05:30	78-87-5	
1,3-Dichloropropane	<77.4	ug/kg	77.4	23.2	1	12/09/16 10:54	12/10/16 05:30	142-28-9	
2,2-Dichloropropane	<68.7	ug/kg	68.7	20.6	1	12/09/16 10:54	12/10/16 05:30	594-20-7	
1,1-Dichloropropene	<19.6	ug/kg	19.6	19.6	1	12/09/16 10:54	12/10/16 05:30	563-58-6	
cis-1,3-Dichloropropene	<98.5	ug/kg	98.5	29.6	1	12/09/16 10:54	12/10/16 05:30	10061-01-5	
trans-1,3-Dichloropropene	<73.5	ug/kg	73.5	22.1	1	12/09/16 10:54	12/10/16 05:30	10061-02-6	
Diethyl ether (Ethyl ether)	<89.0	ug/kg	89.0	26.7	1	12/09/16 10:54	12/10/16 05:30	60-29-7	
Ethylbenzene	<68.7	ug/kg	68.7	20.6	1	12/09/16 10:54	12/10/16 05:30	100-41-4	
Hexachloro-1,3-butadiene	<203	ug/kg	203	61.0	1	12/09/16 10:54	12/10/16 05:30	87-68-3	
Isopropylbenzene (Cumene)	<76.9	ug/kg	76.9	23.1	1	12/09/16 10:54	12/10/16 05:30	98-82-8	
p-Isopropyltoluene	<35.9	ug/kg	35.9	10.8	1	12/09/16 10:54	12/10/16 05:30	99-87-6	
Methylene Chloride	<400	ug/kg	400	120	1	12/09/16 10:54	12/10/16 05:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	<143	ug/kg	143	43.0	1	12/09/16 10:54	12/10/16 05:30	108-10-1	
Methyl-tert-butyl ether	<40.5	ug/kg	40.5	12.1	1	12/09/16 10:54	12/10/16 05:30	1634-04-4	
Naphthalene	<52.3	ug/kg	52.3	15.7	1	12/09/16 10:54	12/10/16 05:30	91-20-3	
n-Propylbenzene	<64.4	ug/kg	64.4	19.3	1	12/09/16 10:54	12/10/16 05:30	103-65-1	
Styrene	<56.2	ug/kg	56.2	16.9	1	12/09/16 10:54	12/10/16 05:30	100-42-5	
1,1,1,2-Tetrachloroethane	<25.7	ug/kg	25.7	25.7	1	12/09/16 10:54	12/10/16 05:30	630-20-6	
1,1,2,2-Tetrachloroethane	<14.4	ug/kg	14.4	14.4	1	12/09/16 10:54	12/10/16 05:30	79-34-5	
Tetrachloroethene	<82.6	ug/kg	82.6	24.8	1	12/09/16 10:54	12/10/16 05:30	127-18-4	
Tetrahydrofuran	<1070	ug/kg	1070	322	1	12/09/16 10:54	12/10/16 05:30	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S13\_18-19**      **Lab ID: 10372630008**      Collected: 12/07/16 12:15      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<68.7	ug/kg	68.7	20.6	1	12/09/16 10:54	12/10/16 05:30	108-88-3	
1,2,3-Trichlorobenzene	<18.7	ug/kg	18.7	18.7	1	12/09/16 10:54	12/10/16 05:30	87-61-6	
1,2,4-Trichlorobenzene	<20.0	ug/kg	20.0	20.0	1	12/09/16 10:54	12/10/16 05:30	120-82-1	
1,1,1-Trichloroethane	<27.1	ug/kg	27.1	27.1	1	12/09/16 10:54	12/10/16 05:30	71-55-6	
1,1,2-Trichloroethane	<14.0	ug/kg	14.0	14.0	1	12/09/16 10:54	12/10/16 05:30	79-00-5	
Trichloroethene	<61.8	ug/kg	61.8	18.6	1	12/09/16 10:54	12/10/16 05:30	79-01-6	
Trichlorofluoromethane	<217	ug/kg	217	65.2	1	12/09/16 10:54	12/10/16 05:30	75-69-4	
1,2,3-Trichloropropane	<67.2	ug/kg	67.2	67.2	1	12/09/16 10:54	12/10/16 05:30	96-18-4	
1,1,2-Trichlorotrifluoroethane	<156	ug/kg	156	46.7	1	12/09/16 10:54	12/10/16 05:30	76-13-1	
1,2,4-Trimethylbenzene	26.8	ug/kg	14.3	14.3	1	12/09/16 10:54	12/10/16 05:30	95-63-6	
1,3,5-Trimethylbenzene	<49.7	ug/kg	49.7	14.9	1	12/09/16 10:54	12/10/16 05:30	108-67-8	
Vinyl chloride	<27.7	ug/kg	27.7	8.3	1	12/09/16 10:54	12/10/16 05:30	75-01-4	
Xylene (Total)	<173	ug/kg	173	51.9	1	12/09/16 10:54	12/10/16 05:30	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	91	%	75-129		1	12/09/16 10:54	12/10/16 05:30	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/09/16 10:54	12/10/16 05:30	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125		1	12/09/16 10:54	12/10/16 05:30	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S13\_21-24**      **Lab ID: 10372630009**      Collected: 12/07/16 13:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	1.1	mg/kg	0.71	0.21	1	12/21/16 09:54	12/22/16 10:14	7440-38-2	
Barium	12.9	mg/kg	0.057	0.017	1	12/21/16 09:54	12/22/16 10:14	7440-39-3	
Cadmium	<0.034	mg/kg	0.034	0.010	1	12/21/16 09:54	12/22/16 10:14	7440-43-9	
Chromium	6.8	mg/kg	0.37	0.11	1	12/21/16 09:54	12/22/16 10:14	7440-47-3	
Lead	1.8	mg/kg	0.36	0.11	1	12/21/16 09:54	12/22/16 10:14	7439-92-1	
Selenium	<1.0	mg/kg	1.0	0.31	1	12/21/16 09:54	12/22/16 10:14	7782-49-2	
Silver	<0.29	mg/kg	0.29	0.086	1	12/21/16 09:54	12/22/16 10:14	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.037	mg/kg	0.018	0.0054	1	12/20/16 13:10	12/20/16 19:48	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	15.1	%	0.10	0.10	1		12/21/16 15:22		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	619	ug/kg	7.6	2.3	5	12/09/16 07:17	12/16/16 15:39	83-32-9	
Acenaphthylene	18.2	ug/kg	1.1	0.32	1	12/09/16 07:17	12/14/16 19:50	208-96-8	
Anthracene	211	ug/kg	1.8	0.53	1	12/09/16 07:17	12/14/16 19:50	120-12-7	
Benzo(a)anthracene	119	ug/kg	1.8	0.55	1	12/09/16 07:17	12/14/16 19:50	56-55-3	
Benzo(a)pyrene	89.7	ug/kg	1.4	0.41	1	12/09/16 07:17	12/14/16 19:50	50-32-8	
Benzo(b)fluoranthene	78.7	ug/kg	2.2	0.67	1	12/09/16 07:17	12/14/16 19:50	205-99-2	
Benzo(g,h,i)perylene	48.1	ug/kg	1.8	0.54	1	12/09/16 07:17	12/14/16 19:50	191-24-2	
Benzo(k)fluoranthene	32.1	ug/kg	1.9	0.58	1	12/09/16 07:17	12/14/16 19:50	207-08-9	
Chrysene	107	ug/kg	2.2	0.65	1	12/09/16 07:17	12/14/16 19:50	218-01-9	
Dibenz(a,h)anthracene	<1.3	ug/kg	1.3	0.38	1	12/09/16 07:17	12/14/16 19:50	53-70-3	
Fluoranthene	249	ug/kg	3.1	0.92	1	12/09/16 07:17	12/14/16 19:50	206-44-0	
Fluorene	197	ug/kg	1.5	0.45	1	12/09/16 07:17	12/14/16 19:50	86-73-7	
Indeno(1,2,3-cd)pyrene	33.4	ug/kg	2.9	0.88	1	12/09/16 07:17	12/14/16 19:50	193-39-5	
Naphthalene	837	ug/kg	7.0	2.1	5	12/09/16 07:17	12/16/16 15:39	91-20-3	
Phenanthrene	666	ug/kg	7.9	2.4	5	12/09/16 07:17	12/16/16 15:39	85-01-8	
Pyrene	325	ug/kg	3.2	0.97	1	12/09/16 07:17	12/14/16 19:50	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	75	%	41-125		1	12/09/16 07:17	12/14/16 19:50	321-60-8	
p-Terphenyl-d14 (S)	78	%	39-125		1	12/09/16 07:17	12/14/16 19:50	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1240	ug/kg	1240	373	1	12/09/16 10:54	12/10/16 05:46	67-64-1	
Allyl chloride	<162	ug/kg	162	48.8	1	12/09/16 10:54	12/10/16 05:46	107-05-1	
Benzene	<16.4	ug/kg	16.4	4.9	1	12/09/16 10:54	12/10/16 05:46	71-43-2	
Bromobenzene	<48.5	ug/kg	48.5	14.6	1	12/09/16 10:54	12/10/16 05:46	108-86-1	
Bromochloromethane	<56.4	ug/kg	56.4	16.9	1	12/09/16 10:54	12/10/16 05:46	74-97-5	
Bromodichloromethane	<53.0	ug/kg	53.0	15.9	1	12/09/16 10:54	12/10/16 05:46	75-27-4	
Bromoform	<163	ug/kg	163	49.0	1	12/09/16 10:54	12/10/16 05:46	75-25-2	
Bromomethane	<192	ug/kg	192	57.6	1	12/09/16 10:54	12/10/16 05:46	74-83-9	
2-Butanone (MEK)	<250	ug/kg	250	75.0	1	12/09/16 10:54	12/10/16 05:46	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S13\_21-24**      **Lab ID: 10372630009**      Collected: 12/07/16 13:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<45.8	ug/kg	45.8	13.8	1	12/09/16 10:54	12/10/16 05:46	104-51-8	
sec-Butylbenzene	<44.7	ug/kg	44.7	13.4	1	12/09/16 10:54	12/10/16 05:46	135-98-8	
tert-Butylbenzene	<59.8	ug/kg	59.8	18.0	1	12/09/16 10:54	12/10/16 05:46	98-06-6	
Carbon tetrachloride	<59.4	ug/kg	59.4	17.9	1	12/09/16 10:54	12/10/16 05:46	56-23-5	
Chlorobenzene	<32.9	ug/kg	32.9	9.9	1	12/09/16 10:54	12/10/16 05:46	108-90-7	
Chloroethane	<299	ug/kg	299	89.8	1	12/09/16 10:54	12/10/16 05:46	75-00-3	
Chloroform	<92.0	ug/kg	92.0	27.6	1	12/09/16 10:54	12/10/16 05:46	67-66-3	
Chloromethane	<91.6	ug/kg	91.6	27.5	1	12/09/16 10:54	12/10/16 05:46	74-87-3	
2-Chlorotoluene	<52.3	ug/kg	52.3	15.7	1	12/09/16 10:54	12/10/16 05:46	95-49-8	
4-Chlorotoluene	<49.6	ug/kg	49.6	14.9	1	12/09/16 10:54	12/10/16 05:46	106-43-4	
1,2-Dibromo-3-chloropropane	<111	ug/kg	111	111	1	12/09/16 10:54	12/10/16 05:46	96-12-8	
Dibromochloromethane	<162	ug/kg	162	48.8	1	12/09/16 10:54	12/10/16 05:46	124-48-1	
1,2-Dibromoethane (EDB)	<21.4	ug/kg	21.4	21.4	1	12/09/16 10:54	12/10/16 05:46	106-93-4	
Dibromomethane	<73.8	ug/kg	73.8	22.2	1	12/09/16 10:54	12/10/16 05:46	74-95-3	
1,2-Dichlorobenzene	<11.0	ug/kg	11.0	11.0	1	12/09/16 10:54	12/10/16 05:46	95-50-1	
1,3-Dichlorobenzene	<16.7	ug/kg	16.7	11.0	1	12/09/16 10:54	12/10/16 05:46	541-73-1	
1,4-Dichlorobenzene	<54.9	ug/kg	54.9	16.5	1	12/09/16 10:54	12/10/16 05:46	106-46-7	
Dichlorodifluoromethane	<57.9	ug/kg	57.9	17.4	1	12/09/16 10:54	12/10/16 05:46	75-71-8	
1,1-Dichloroethane	<22.1	ug/kg	22.1	22.1	1	12/09/16 10:54	12/10/16 05:46	75-34-3	
1,2-Dichloroethane	<18.0	ug/kg	18.0	18.0	1	12/09/16 10:54	12/10/16 05:46	107-06-2	
1,1-Dichloroethene	<14.4	ug/kg	14.4	14.4	1	12/09/16 10:54	12/10/16 05:46	75-35-4	
cis-1,2-Dichloroethene	<70.4	ug/kg	70.4	21.1	1	12/09/16 10:54	12/10/16 05:46	156-59-2	
trans-1,2-Dichloroethene	<91.2	ug/kg	91.2	27.4	1	12/09/16 10:54	12/10/16 05:46	156-60-5	
Dichlorofluoromethane	<519	ug/kg	519	156	1	12/09/16 10:54	12/10/16 05:46	75-43-4	
1,2-Dichloropropane	<19.7	ug/kg	19.7	19.7	1	12/09/16 10:54	12/10/16 05:46	78-87-5	
1,3-Dichloropropane	<67.8	ug/kg	67.8	20.4	1	12/09/16 10:54	12/10/16 05:46	142-28-9	
2,2-Dichloropropane	<60.2	ug/kg	60.2	18.1	1	12/09/16 10:54	12/10/16 05:46	594-20-7	
1,1-Dichloropropene	<17.2	ug/kg	17.2	17.2	1	12/09/16 10:54	12/10/16 05:46	563-58-6	
cis-1,3-Dichloropropene	<86.3	ug/kg	86.3	25.9	1	12/09/16 10:54	12/10/16 05:46	10061-01-5	
trans-1,3-Dichloropropene	<64.4	ug/kg	64.4	19.3	1	12/09/16 10:54	12/10/16 05:46	10061-02-6	
Diethyl ether (Ethyl ether)	<78.0	ug/kg	78.0	23.4	1	12/09/16 10:54	12/10/16 05:46	60-29-7	
Ethylbenzene	<60.2	ug/kg	60.2	18.1	1	12/09/16 10:54	12/10/16 05:46	100-41-4	
Hexachloro-1,3-butadiene	<178	ug/kg	178	53.4	1	12/09/16 10:54	12/10/16 05:46	87-68-3	
Isopropylbenzene (Cumene)	<67.4	ug/kg	67.4	20.2	1	12/09/16 10:54	12/10/16 05:46	98-82-8	
p-Isopropyltoluene	<31.4	ug/kg	31.4	9.4	1	12/09/16 10:54	12/10/16 05:46	99-87-6	
Methylene Chloride	<351	ug/kg	351	105	1	12/09/16 10:54	12/10/16 05:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	<125	ug/kg	125	37.6	1	12/09/16 10:54	12/10/16 05:46	108-10-1	
Methyl-tert-butyl ether	<35.4	ug/kg	35.4	10.6	1	12/09/16 10:54	12/10/16 05:46	1634-04-4	
Naphthalene	389	ug/kg	45.8	13.8	1	12/09/16 10:54	12/10/16 05:46	91-20-3	
n-Propylbenzene	<56.4	ug/kg	56.4	16.9	1	12/09/16 10:54	12/10/16 05:46	103-65-1	
Styrene	<49.2	ug/kg	49.2	14.8	1	12/09/16 10:54	12/10/16 05:46	100-42-5	
1,1,1,2-Tetrachloroethane	<22.5	ug/kg	22.5	22.5	1	12/09/16 10:54	12/10/16 05:46	630-20-6	
1,1,2,2-Tetrachloroethane	<12.6	ug/kg	12.6	12.6	1	12/09/16 10:54	12/10/16 05:46	79-34-5	
Tetrachloroethene	<72.3	ug/kg	72.3	21.7	1	12/09/16 10:54	12/10/16 05:46	127-18-4	
Tetrahydrofuran	<939	ug/kg	939	282	1	12/09/16 10:54	12/10/16 05:46	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S13\_21-24**      **Lab ID: 10372630009**      Collected: 12/07/16 13:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<60.2	ug/kg	60.2	18.1	1	12/09/16 10:54	12/10/16 05:46	108-88-3	
1,2,3-Trichlorobenzene	<16.4	ug/kg	16.4	16.4	1	12/09/16 10:54	12/10/16 05:46	87-61-6	
1,2,4-Trichlorobenzene	<17.5	ug/kg	17.5	17.5	1	12/09/16 10:54	12/10/16 05:46	120-82-1	
1,1,1-Trichloroethane	<23.8	ug/kg	23.8	23.8	1	12/09/16 10:54	12/10/16 05:46	71-55-6	
1,1,2-Trichloroethane	<12.3	ug/kg	12.3	12.3	1	12/09/16 10:54	12/10/16 05:46	79-00-5	
Trichloroethene	<54.1	ug/kg	54.1	16.3	1	12/09/16 10:54	12/10/16 05:46	79-01-6	
Trichlorofluoromethane	<190	ug/kg	190	57.1	1	12/09/16 10:54	12/10/16 05:46	75-69-4	
1,2,3-Trichloropropane	<58.9	ug/kg	58.9	58.9	1	12/09/16 10:54	12/10/16 05:46	96-18-4	
1,1,2-Trichlorotrifluoroethane	<136	ug/kg	136	40.9	1	12/09/16 10:54	12/10/16 05:46	76-13-1	
1,2,4-Trimethylbenzene	27.1	ug/kg	12.5	12.5	1	12/09/16 10:54	12/10/16 05:46	95-63-6	
1,3,5-Trimethylbenzene	<43.5	ug/kg	43.5	13.1	1	12/09/16 10:54	12/10/16 05:46	108-67-8	
Vinyl chloride	<24.3	ug/kg	24.3	7.3	1	12/09/16 10:54	12/10/16 05:46	75-01-4	
Xylene (Total)	<151	ug/kg	151	45.5	1	12/09/16 10:54	12/10/16 05:46	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	91	%	75-129		1	12/09/16 10:54	12/10/16 05:46	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/09/16 10:54	12/10/16 05:46	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/09/16 10:54	12/10/16 05:46	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S14\_23-28**      **Lab ID: 10372630010**      Collected: 12/07/16 14:20      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	2.3	mg/kg	0.85	0.26	1	12/21/16 09:54	12/22/16 10:17	7440-38-2	
Barium	45.5	mg/kg	0.068	0.020	1	12/21/16 09:54	12/22/16 10:17	7440-39-3	
Cadmium	0.27	mg/kg	0.040	0.012	1	12/21/16 09:54	12/22/16 10:17	7440-43-9	
Chromium	12.1	mg/kg	0.44	0.13	1	12/21/16 09:54	12/22/16 10:17	7440-47-3	
Lead	32.3	mg/kg	0.42	0.13	1	12/21/16 09:54	12/22/16 10:17	7439-92-1	
Selenium	<1.2	mg/kg	1.2	0.37	1	12/21/16 09:54	12/22/16 10:17	7782-49-2	
Silver	0.37	mg/kg	0.34	0.10	1	12/21/16 09:54	12/22/16 10:17	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.45	mg/kg	0.023	0.0070	1	12/20/16 13:10	12/20/16 19:50	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	32.4	%	0.10	0.10	1		12/21/16 15:22		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	1380	ug/kg	19.2	5.8	10	12/09/16 07:17	12/14/16 22:20	83-32-9	
Acenaphthylene	225	ug/kg	13.4	4.0	10	12/09/16 07:17	12/14/16 22:20	208-96-8	
Anthracene	1930	ug/kg	22.3	6.7	10	12/09/16 07:17	12/14/16 22:20	120-12-7	
Benzo(a)anthracene	2430	ug/kg	23.1	6.9	10	12/09/16 07:17	12/14/16 22:20	56-55-3	
Benzo(a)pyrene	1750	ug/kg	17.1	5.1	10	12/09/16 07:17	12/14/16 22:20	50-32-8	
Benzo(b)fluoranthene	2100	ug/kg	28.2	8.5	10	12/09/16 07:17	12/14/16 22:20	205-99-2	
Benzo(g,h,i)perylene	873	ug/kg	22.5	6.8	10	12/09/16 07:17	12/14/16 22:20	191-24-2	
Benzo(k)fluoranthene	822	ug/kg	24.2	7.3	10	12/09/16 07:17	12/14/16 22:20	207-08-9	
Chrysene	2150	ug/kg	27.3	8.2	10	12/09/16 07:17	12/14/16 22:20	218-01-9	
Dibenz(a,h)anthracene	<16.1	ug/kg	16.1	4.8	10	12/09/16 07:17	12/14/16 22:20	53-70-3	
Fluoranthene	7800	ug/kg	193	57.9	50	12/09/16 07:17	12/16/16 16:23	206-44-0	
Fluorene	1430	ug/kg	18.9	5.7	10	12/09/16 07:17	12/14/16 22:20	86-73-7	
Indeno(1,2,3-cd)pyrene	804	ug/kg	36.9	11.1	10	12/09/16 07:17	12/14/16 22:20	193-39-5	
Naphthalene	369	ug/kg	17.6	5.3	10	12/09/16 07:17	12/14/16 22:20	91-20-3	
Phenanthrene	8200	ug/kg	99.2	29.8	50	12/09/16 07:17	12/16/16 16:23	85-01-8	
Pyrene	6330	ug/kg	204	61.3	50	12/09/16 07:17	12/16/16 16:23	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	83	%	41-125		10	12/09/16 07:17	12/14/16 22:20	321-60-8	D4
p-Terphenyl-d14 (S)	85	%	39-125		10	12/09/16 07:17	12/14/16 22:20	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1630	ug/kg	1630	489	1	12/09/16 10:54	12/11/16 09:10	67-64-1	
Allyl chloride	<213	ug/kg	213	64.0	1	12/09/16 10:54	12/11/16 09:10	107-05-1	
Benzene	42.3	ug/kg	21.5	6.4	1	12/09/16 10:54	12/11/16 09:10	71-43-2	
Bromobenzene	<63.6	ug/kg	63.6	19.1	1	12/09/16 10:54	12/11/16 09:10	108-86-1	
Bromochloromethane	<74.0	ug/kg	74.0	22.2	1	12/09/16 10:54	12/11/16 09:10	74-97-5	
Bromodichloromethane	<69.5	ug/kg	69.5	20.9	1	12/09/16 10:54	12/11/16 09:10	75-27-4	
Bromoform	<214	ug/kg	214	64.3	1	12/09/16 10:54	12/11/16 09:10	75-25-2	
Bromomethane	<252	ug/kg	252	75.6	1	12/09/16 10:54	12/11/16 09:10	74-83-9	
2-Butanone (MEK)	<328	ug/kg	328	98.4	1	12/09/16 10:54	12/11/16 09:10	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S14\_23-28**      **Lab ID: 10372630010**      Collected: 12/07/16 14:20      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
n-Butylbenzene	<60.1	ug/kg	60.1	18.0	1	12/09/16 10:54	12/11/16 09:10	104-51-8	
sec-Butylbenzene	<58.6	ug/kg	58.6	17.6	1	12/09/16 10:54	12/11/16 09:10	135-98-8	
tert-Butylbenzene	<78.5	ug/kg	78.5	23.6	1	12/09/16 10:54	12/11/16 09:10	98-06-6	
Carbon tetrachloride	<78.0	ug/kg	78.0	23.4	1	12/09/16 10:54	12/11/16 09:10	56-23-5	
Chlorobenzene	<43.2	ug/kg	43.2	13.0	1	12/09/16 10:54	12/11/16 09:10	108-90-7	
Chloroethane	<392	ug/kg	392	118	1	12/09/16 10:54	12/11/16 09:10	75-00-3	
Chloroform	<121	ug/kg	121	36.2	1	12/09/16 10:54	12/11/16 09:10	67-66-3	
Chloromethane	<120	ug/kg	120	36.1	1	12/09/16 10:54	12/11/16 09:10	74-87-3	
2-Chlorotoluene	<68.5	ug/kg	68.5	20.6	1	12/09/16 10:54	12/11/16 09:10	95-49-8	
4-Chlorotoluene	<65.1	ug/kg	65.1	19.5	1	12/09/16 10:54	12/11/16 09:10	106-43-4	
1,2-Dibromo-3-chloropropane	<145	ug/kg	145	145	1	12/09/16 10:54	12/11/16 09:10	96-12-8	
Dibromochloromethane	<213	ug/kg	213	64.0	1	12/09/16 10:54	12/11/16 09:10	124-48-1	
1,2-Dibromoethane (EDB)	<28.0	ug/kg	28.0	28.0	1	12/09/16 10:54	12/11/16 09:10	106-93-4	
Dibromomethane	<96.9	ug/kg	96.9	29.1	1	12/09/16 10:54	12/11/16 09:10	74-95-3	
1,2-Dichlorobenzene	<14.4	ug/kg	14.4	14.4	1	12/09/16 10:54	12/11/16 09:10	95-50-1	
1,3-Dichlorobenzene	<21.9	ug/kg	21.9	21.9	1	12/09/16 10:54	12/11/16 09:10	541-73-1	
1,4-Dichlorobenzene	<72.0	ug/kg	72.0	21.6	1	12/09/16 10:54	12/11/16 09:10	106-46-7	
Dichlorodifluoromethane	<76.0	ug/kg	76.0	22.8	1	12/09/16 10:54	12/11/16 09:10	75-71-8	
1,1-Dichloroethane	<28.9	ug/kg	28.9	28.9	1	12/09/16 10:54	12/11/16 09:10	75-34-3	
1,2-Dichloroethane	<23.6	ug/kg	23.6	23.6	1	12/09/16 10:54	12/11/16 09:10	107-06-2	
1,1-Dichloroethene	<18.9	ug/kg	18.9	18.9	1	12/09/16 10:54	12/11/16 09:10	75-35-4	
cis-1,2-Dichloroethene	<92.4	ug/kg	92.4	27.7	1	12/09/16 10:54	12/11/16 09:10	156-59-2	
trans-1,2-Dichloroethene	<120	ug/kg	120	35.9	1	12/09/16 10:54	12/11/16 09:10	156-60-5	
Dichlorofluoromethane	<681	ug/kg	681	204	1	12/09/16 10:54	12/11/16 09:10	75-43-4	
1,2-Dichloropropane	<25.8	ug/kg	25.8	25.8	1	12/09/16 10:54	12/11/16 09:10	78-87-5	
1,3-Dichloropropane	<88.9	ug/kg	88.9	26.7	1	12/09/16 10:54	12/11/16 09:10	142-28-9	
2,2-Dichloropropane	<79.0	ug/kg	79.0	23.7	1	12/09/16 10:54	12/11/16 09:10	594-20-7	CL
1,1-Dichloropropene	<22.5	ug/kg	22.5	22.5	1	12/09/16 10:54	12/11/16 09:10	563-58-6	
cis-1,3-Dichloropropene	<113	ug/kg	113	34.0	1	12/09/16 10:54	12/11/16 09:10	10061-01-5	
trans-1,3-Dichloropropene	<84.4	ug/kg	84.4	25.4	1	12/09/16 10:54	12/11/16 09:10	10061-02-6	
Diethyl ether (Ethyl ether)	<102	ug/kg	102	30.7	1	12/09/16 10:54	12/11/16 09:10	60-29-7	
Ethylbenzene	<79.0	ug/kg	79.0	23.7	1	12/09/16 10:54	12/11/16 09:10	100-41-4	
Hexachloro-1,3-butadiene	<233	ug/kg	233	70.1	1	12/09/16 10:54	12/11/16 09:10	87-68-3	
Isopropylbenzene (Cumene)	<88.4	ug/kg	88.4	26.6	1	12/09/16 10:54	12/11/16 09:10	98-82-8	
p-Isopropyltoluene	<41.2	ug/kg	41.2	12.4	1	12/09/16 10:54	12/11/16 09:10	99-87-6	
Methylene Chloride	<460	ug/kg	460	138	1	12/09/16 10:54	12/11/16 09:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	<164	ug/kg	164	49.4	1	12/09/16 10:54	12/11/16 09:10	108-10-1	
Methyl-tert-butyl ether	<46.5	ug/kg	46.5	14.0	1	12/09/16 10:54	12/11/16 09:10	1634-04-4	
Naphthalene	203	ug/kg	60.1	18.0	1	12/09/16 10:54	12/11/16 09:10	91-20-3	
n-Propylbenzene	<74.0	ug/kg	74.0	22.2	1	12/09/16 10:54	12/11/16 09:10	103-65-1	
Styrene	<64.6	ug/kg	64.6	19.4	1	12/09/16 10:54	12/11/16 09:10	100-42-5	
1,1,1,2-Tetrachloroethane	<29.5	ug/kg	29.5	29.5	1	12/09/16 10:54	12/11/16 09:10	630-20-6	
1,1,2,2-Tetrachloroethane	<16.6	ug/kg	16.6	16.6	1	12/09/16 10:54	12/11/16 09:10	79-34-5	
Tetrachloroethene	<94.9	ug/kg	94.9	28.5	1	12/09/16 10:54	12/11/16 09:10	127-18-4	
Tetrahydrofuran	<1230	ug/kg	1230	370	1	12/09/16 10:54	12/11/16 09:10	109-99-9	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S14\_23-28**      **Lab ID: 10372630010**      Collected: 12/07/16 14:20      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<b>103</b>	ug/kg	79.0	23.7	1	12/09/16 10:54	12/11/16 09:10	108-88-3	
1,2,3-Trichlorobenzene	<b>&lt;21.5</b>	ug/kg	21.5	21.5	1	12/09/16 10:54	12/11/16 09:10	87-61-6	
1,2,4-Trichlorobenzene	<b>&lt;23.0</b>	ug/kg	23.0	23.0	1	12/09/16 10:54	12/11/16 09:10	120-82-1	
1,1,1-Trichloroethane	<b>&lt;31.2</b>	ug/kg	31.2	31.2	1	12/09/16 10:54	12/11/16 09:10	71-55-6	
1,1,2-Trichloroethane	<b>&lt;16.1</b>	ug/kg	16.1	16.1	1	12/09/16 10:54	12/11/16 09:10	79-00-5	
Trichloroethene	<b>&lt;71.0</b>	ug/kg	71.0	21.3	1	12/09/16 10:54	12/11/16 09:10	79-01-6	
Trichlorofluoromethane	<b>&lt;249</b>	ug/kg	249	74.9	1	12/09/16 10:54	12/11/16 09:10	75-69-4	
1,2,3-Trichloropropane	<b>&lt;77.3</b>	ug/kg	77.3	77.3	1	12/09/16 10:54	12/11/16 09:10	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;179</b>	ug/kg	179	53.7	1	12/09/16 10:54	12/11/16 09:10	76-13-1	
1,2,4-Trimethylbenzene	<b>66.0</b>	ug/kg	16.4	16.4	1	12/09/16 10:54	12/11/16 09:10	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;57.1</b>	ug/kg	57.1	17.2	1	12/09/16 10:54	12/11/16 09:10	108-67-8	
Vinyl chloride	<b>&lt;31.9</b>	ug/kg	31.9	9.6	1	12/09/16 10:54	12/11/16 09:10	75-01-4	
Xylene (Total)	<b>&lt;199</b>	ug/kg	199	59.7	1	12/09/16 10:54	12/11/16 09:10	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	101	%	75-129		1	12/09/16 10:54	12/11/16 09:10	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/09/16 10:54	12/11/16 09:10	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/09/16 10:54	12/11/16 09:10	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S14\_28-30**      **Lab ID: 10372630011**      Collected: 12/07/16 14:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	24.0	mg/kg	0.89	0.27	1	12/21/16 09:54	12/22/16 10:19	7440-38-2	
Barium	134	mg/kg	0.071	0.021	1	12/21/16 09:54	12/22/16 10:19	7440-39-3	
Cadmium	0.42	mg/kg	0.042	0.013	1	12/21/16 09:54	12/22/16 10:19	7440-43-9	
Chromium	28.7	mg/kg	0.46	0.14	1	12/21/16 09:54	12/22/16 10:19	7440-47-3	
Lead	8.8	mg/kg	0.45	0.13	1	12/21/16 09:54	12/22/16 10:19	7439-92-1	
Selenium	<1.3	mg/kg	1.3	0.39	1	12/21/16 09:54	12/22/16 10:19	7782-49-2	
Silver	<0.36	mg/kg	0.36	0.11	1	12/21/16 09:54	12/22/16 10:19	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.023	mg/kg	0.022	0.0067	1	12/20/16 13:10	12/20/16 19:52	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	27.3	%	0.10	0.10	1		12/21/16 15:22		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	4.2	ug/kg	1.8	0.54	1	12/15/16 17:42	12/17/16 16:39	83-32-9	
Acenaphthylene	5.8	ug/kg	1.2	0.37	1	12/15/16 17:42	12/17/16 16:39	208-96-8	
Anthracene	8.3	ug/kg	2.1	0.62	1	12/15/16 17:42	12/17/16 16:39	120-12-7	
Benzo(a)anthracene	22.5	ug/kg	2.1	0.65	1	12/15/16 17:42	12/17/16 16:39	56-55-3	
Benzo(a)pyrene	21.0	ug/kg	1.6	0.48	1	12/15/16 17:42	12/17/16 16:39	50-32-8	
Benzo(b)fluoranthene	23.3	ug/kg	2.6	0.79	1	12/15/16 17:42	12/17/16 16:39	205-99-2	
Benzo(g,h,i)perylene	11.9	ug/kg	2.1	0.63	1	12/15/16 17:42	12/17/16 16:39	191-24-2	
Benzo(k)fluoranthene	14.3	ug/kg	2.3	0.68	1	12/15/16 17:42	12/17/16 16:39	207-08-9	
Chrysene	20.9	ug/kg	2.5	0.76	1	12/15/16 17:42	12/17/16 16:39	218-01-9	
Dibenz(a,h)anthracene	3.5	ug/kg	1.5	0.45	1	12/15/16 17:42	12/17/16 16:39	53-70-3	
Fluoranthene	33.6	ug/kg	3.6	1.1	1	12/15/16 17:42	12/17/16 16:39	206-44-0	
Fluorene	4.1	ug/kg	1.8	0.53	1	12/15/16 17:42	12/17/16 16:39	86-73-7	
Indeno(1,2,3-cd)pyrene	10.2	ug/kg	3.4	1.0	1	12/15/16 17:42	12/17/16 16:39	193-39-5	
Naphthalene	2.5	ug/kg	1.6	0.49	1	12/15/16 17:42	12/17/16 16:39	91-20-3	
Phenanthrene	19.4	ug/kg	1.8	0.55	1	12/15/16 17:42	12/17/16 16:39	85-01-8	
Pyrene	35.5	ug/kg	3.8	1.1	1	12/15/16 17:42	12/17/16 16:39	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	83	%	41-125		1	12/15/16 17:42	12/17/16 16:39	321-60-8	
p-Terphenyl-d14 (S)	78	%	39-125		1	12/15/16 17:42	12/17/16 16:39	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<2110	ug/kg	2110	633	1	12/09/16 10:54	12/11/16 09:28	67-64-1	
Allyl chloride	<276	ug/kg	276	82.8	1	12/09/16 10:54	12/11/16 09:28	107-05-1	
Benzene	<27.8	ug/kg	27.8	8.3	1	12/09/16 10:54	12/11/16 09:28	71-43-2	
Bromobenzene	<82.3	ug/kg	82.3	24.7	1	12/09/16 10:54	12/11/16 09:28	108-86-1	
Bromochloromethane	<95.8	ug/kg	95.8	28.8	1	12/09/16 10:54	12/11/16 09:28	74-97-5	
Bromodichloromethane	<90.0	ug/kg	90.0	27.0	1	12/09/16 10:54	12/11/16 09:28	75-27-4	
Bromoform	<277	ug/kg	277	83.2	1	12/09/16 10:54	12/11/16 09:28	75-25-2	
Bromomethane	<326	ug/kg	326	97.9	1	12/09/16 10:54	12/11/16 09:28	74-83-9	
2-Butanone (MEK)	<424	ug/kg	424	127	1	12/09/16 10:54	12/11/16 09:28	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S14\_28-30**      **Lab ID: 10372630011**      Collected: 12/07/16 14:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<77.8	ug/kg	77.8	23.4	1	12/09/16 10:54	12/11/16 09:28	104-51-8	
sec-Butylbenzene	<75.9	ug/kg	75.9	22.8	1	12/09/16 10:54	12/11/16 09:28	135-98-8	
tert-Butylbenzene	<102	ug/kg	102	30.5	1	12/09/16 10:54	12/11/16 09:28	98-06-6	
Carbon tetrachloride	<101	ug/kg	101	30.3	1	12/09/16 10:54	12/11/16 09:28	56-23-5	
Chlorobenzene	<55.9	ug/kg	55.9	16.8	1	12/09/16 10:54	12/11/16 09:28	108-90-7	
Chloroethane	<508	ug/kg	508	153	1	12/09/16 10:54	12/11/16 09:28	75-00-3	
Chloroform	<156	ug/kg	156	46.9	1	12/09/16 10:54	12/11/16 09:28	67-66-3	
Chloromethane	<156	ug/kg	156	46.7	1	12/09/16 10:54	12/11/16 09:28	74-87-3	
2-Chlorotoluene	<88.7	ug/kg	88.7	26.6	1	12/09/16 10:54	12/11/16 09:28	95-49-8	
4-Chlorotoluene	<84.2	ug/kg	84.2	25.3	1	12/09/16 10:54	12/11/16 09:28	106-43-4	
1,2-Dibromo-3-chloropropane	<188	ug/kg	188	188	1	12/09/16 10:54	12/11/16 09:28	96-12-8	
Dibromochloromethane	<276	ug/kg	276	82.8	1	12/09/16 10:54	12/11/16 09:28	124-48-1	
1,2-Dibromoethane (EDB)	<36.3	ug/kg	36.3	36.3	1	12/09/16 10:54	12/11/16 09:28	106-93-4	
Dibromomethane	<125	ug/kg	125	37.6	1	12/09/16 10:54	12/11/16 09:28	74-95-3	
1,2-Dichlorobenzene	<18.6	ug/kg	18.6	18.6	1	12/09/16 10:54	12/11/16 09:28	95-50-1	
1,3-Dichlorobenzene	<28.4	ug/kg	28.4	28.4	1	12/09/16 10:54	12/11/16 09:28	541-73-1	
1,4-Dichlorobenzene	<93.2	ug/kg	93.2	28.0	1	12/09/16 10:54	12/11/16 09:28	106-46-7	
Dichlorodifluoromethane	<98.4	ug/kg	98.4	29.5	1	12/09/16 10:54	12/11/16 09:28	75-71-8	
1,1-Dichloroethane	<37.5	ug/kg	37.5	37.5	1	12/09/16 10:54	12/11/16 09:28	75-34-3	
1,2-Dichloroethane	<30.5	ug/kg	30.5	30.5	1	12/09/16 10:54	12/11/16 09:28	107-06-2	
1,1-Dichloroethene	<24.5	ug/kg	24.5	24.5	1	12/09/16 10:54	12/11/16 09:28	75-35-4	
cis-1,2-Dichloroethene	<120	ug/kg	120	35.9	1	12/09/16 10:54	12/11/16 09:28	156-59-2	
trans-1,2-Dichloroethene	<155	ug/kg	155	46.5	1	12/09/16 10:54	12/11/16 09:28	156-60-5	
Dichlorofluoromethane	<881	ug/kg	881	264	1	12/09/16 10:54	12/11/16 09:28	75-43-4	
1,2-Dichloropropane	<33.4	ug/kg	33.4	33.4	1	12/09/16 10:54	12/11/16 09:28	78-87-5	
1,3-Dichloropropane	<115	ug/kg	115	34.6	1	12/09/16 10:54	12/11/16 09:28	142-28-9	
2,2-Dichloropropane	<102	ug/kg	102	30.7	1	12/09/16 10:54	12/11/16 09:28	594-20-7	CL
1,1-Dichloropropene	<29.2	ug/kg	29.2	29.2	1	12/09/16 10:54	12/11/16 09:28	563-58-6	
cis-1,3-Dichloropropene	<147	ug/kg	147	44.0	1	12/09/16 10:54	12/11/16 09:28	10061-01-5	
trans-1,3-Dichloropropene	<109	ug/kg	109	32.8	1	12/09/16 10:54	12/11/16 09:28	10061-02-6	
Diethyl ether (Ethyl ether)	<132	ug/kg	132	39.8	1	12/09/16 10:54	12/11/16 09:28	60-29-7	
Ethylbenzene	<102	ug/kg	102	30.7	1	12/09/16 10:54	12/11/16 09:28	100-41-4	
Hexachloro-1,3-butadiene	<302	ug/kg	302	90.7	1	12/09/16 10:54	12/11/16 09:28	87-68-3	
Isopropylbenzene (Cumene)	<114	ug/kg	114	34.4	1	12/09/16 10:54	12/11/16 09:28	98-82-8	
p-Isopropyltoluene	<53.4	ug/kg	53.4	16.0	1	12/09/16 10:54	12/11/16 09:28	99-87-6	
Methylene Chloride	<595	ug/kg	595	179	1	12/09/16 10:54	12/11/16 09:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	<213	ug/kg	213	63.9	1	12/09/16 10:54	12/11/16 09:28	108-10-1	
Methyl-tert-butyl ether	<60.2	ug/kg	60.2	18.1	1	12/09/16 10:54	12/11/16 09:28	1634-04-4	
Naphthalene	<77.8	ug/kg	77.8	23.4	1	12/09/16 10:54	12/11/16 09:28	91-20-3	
n-Propylbenzene	<95.8	ug/kg	95.8	28.8	1	12/09/16 10:54	12/11/16 09:28	103-65-1	
Styrene	<83.6	ug/kg	83.6	25.1	1	12/09/16 10:54	12/11/16 09:28	100-42-5	
1,1,1,2-Tetrachloroethane	<38.2	ug/kg	38.2	38.2	1	12/09/16 10:54	12/11/16 09:28	630-20-6	
1,1,2,2-Tetrachloroethane	<21.4	ug/kg	21.4	21.4	1	12/09/16 10:54	12/11/16 09:28	79-34-5	
Tetrachloroethene	<123	ug/kg	123	36.9	1	12/09/16 10:54	12/11/16 09:28	127-18-4	
Tetrahydrofuran	<1590	ug/kg	1590	479	1	12/09/16 10:54	12/11/16 09:28	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S14\_28-30**      **Lab ID: 10372630011**      Collected: 12/07/16 14:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<102	ug/kg	102	30.7	1	12/09/16 10:54	12/11/16 09:28	108-88-3	
1,2,3-Trichlorobenzene	<27.8	ug/kg	27.8	27.8	1	12/09/16 10:54	12/11/16 09:28	87-61-6	
1,2,4-Trichlorobenzene	<29.7	ug/kg	29.7	29.7	1	12/09/16 10:54	12/11/16 09:28	120-82-1	
1,1,1-Trichloroethane	<40.3	ug/kg	40.3	40.3	1	12/09/16 10:54	12/11/16 09:28	71-55-6	
1,1,2-Trichloroethane	<20.8	ug/kg	20.8	20.8	1	12/09/16 10:54	12/11/16 09:28	79-00-5	
Trichloroethene	<91.9	ug/kg	91.9	27.6	1	12/09/16 10:54	12/11/16 09:28	79-01-6	
Trichlorofluoromethane	<323	ug/kg	323	96.9	1	12/09/16 10:54	12/11/16 09:28	75-69-4	
1,2,3-Trichloropropane	<100	ug/kg	100	100	1	12/09/16 10:54	12/11/16 09:28	96-18-4	
1,1,2-Trichlorotrifluoroethane	<231	ug/kg	231	69.5	1	12/09/16 10:54	12/11/16 09:28	76-13-1	
1,2,4-Trimethylbenzene	<21.2	ug/kg	21.2	21.2	1	12/09/16 10:54	12/11/16 09:28	95-63-6	
1,3,5-Trimethylbenzene	<73.9	ug/kg	73.9	22.2	1	12/09/16 10:54	12/11/16 09:28	108-67-8	
Vinyl chloride	<41.3	ug/kg	41.3	12.4	1	12/09/16 10:54	12/11/16 09:28	75-01-4	
Xylene (Total)	<257	ug/kg	257	77.2	1	12/09/16 10:54	12/11/16 09:28	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	99	%	75-129		1	12/09/16 10:54	12/11/16 09:28	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/09/16 10:54	12/11/16 09:28	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/09/16 10:54	12/11/16 09:28	460-00-4	

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### ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S15\_22-26**      **Lab ID: 10372630012**      Collected: 12/07/16 14:45      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	3.1	mg/kg	1.0	0.31	1	12/21/16 09:54	12/22/16 10:22	7440-38-2	
Barium	70.0	mg/kg	0.082	0.025	1	12/21/16 09:54	12/22/16 10:22	7440-39-3	
Cadmium	0.37	mg/kg	0.049	0.015	1	12/21/16 09:54	12/22/16 10:22	7440-43-9	
Chromium	15.9	mg/kg	0.53	0.16	1	12/21/16 09:54	12/22/16 10:22	7440-47-3	
Lead	52.3	mg/kg	0.51	0.15	1	12/21/16 09:54	12/22/16 10:22	7439-92-1	
Selenium	<1.5	mg/kg	1.5	0.45	1	12/21/16 09:54	12/22/16 10:22	7782-49-2	
Silver	0.68	mg/kg	0.41	0.12	1	12/21/16 09:54	12/22/16 10:22	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.60	mg/kg	0.025	0.0074	1	12/20/16 13:10	12/20/16 19:55	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	37.7	%	0.10	0.10	1		12/21/16 15:23		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	783	ug/kg	20.8	6.2	10	12/09/16 07:17	12/14/16 22:42	83-32-9	
Acenaphthylene	174	ug/kg	14.5	4.3	10	12/09/16 07:17	12/14/16 22:42	208-96-8	
Anthracene	1410	ug/kg	24.1	7.2	10	12/09/16 07:17	12/14/16 22:42	120-12-7	
Benzo(a)anthracene	2110	ug/kg	24.9	7.5	10	12/09/16 07:17	12/14/16 22:42	56-55-3	
Benzo(a)pyrene	1730	ug/kg	18.5	5.5	10	12/09/16 07:17	12/14/16 22:42	50-32-8	
Benzo(b)fluoranthene	2160	ug/kg	30.5	9.1	10	12/09/16 07:17	12/14/16 22:42	205-99-2	
Benzo(g,h,i)perylene	930	ug/kg	24.4	7.3	10	12/09/16 07:17	12/14/16 22:42	191-24-2	
Benzo(k)fluoranthene	791	ug/kg	26.2	7.9	10	12/09/16 07:17	12/14/16 22:42	207-08-9	
Chrysene	1910	ug/kg	29.5	8.9	10	12/09/16 07:17	12/14/16 22:42	218-01-9	
Dibenz(a,h)anthracene	<17.4	ug/kg	17.4	5.2	10	12/09/16 07:17	12/14/16 22:42	53-70-3	
Fluoranthene	5070	ug/kg	41.7	12.5	10	12/09/16 07:17	12/14/16 22:42	206-44-0	
Fluorene	567	ug/kg	20.4	6.1	10	12/09/16 07:17	12/14/16 22:42	86-73-7	
Indeno(1,2,3-cd)pyrene	888	ug/kg	39.9	12.0	10	12/09/16 07:17	12/14/16 22:42	193-39-5	
Naphthalene	515	ug/kg	19.0	5.7	10	12/09/16 07:17	12/14/16 22:42	91-20-3	
Phenanthrene	5050	ug/kg	21.4	6.4	10	12/09/16 07:17	12/14/16 22:42	85-01-8	
Pyrene	4150	ug/kg	44.1	13.2	10	12/09/16 07:17	12/14/16 22:42	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	84	%	41-125		10	12/09/16 07:17	12/14/16 22:42	321-60-8	D4
p-Terphenyl-d14 (S)	78	%	39-125		10	12/09/16 07:17	12/14/16 22:42	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1760	ug/kg	1760	529	1	12/09/16 10:54	12/11/16 09:45	67-64-1	
Allyl chloride	<230	ug/kg	230	69.2	1	12/09/16 10:54	12/11/16 09:45	107-05-1	
Benzene	24.5	ug/kg	23.2	7.0	1	12/09/16 10:54	12/11/16 09:45	71-43-2	
Bromobenzene	<68.7	ug/kg	68.7	20.6	1	12/09/16 10:54	12/11/16 09:45	108-86-1	
Bromochloromethane	<80.0	ug/kg	80.0	24.0	1	12/09/16 10:54	12/11/16 09:45	74-97-5	
Bromodichloromethane	<75.2	ug/kg	75.2	22.6	1	12/09/16 10:54	12/11/16 09:45	75-27-4	
Bromoform	<231	ug/kg	231	69.5	1	12/09/16 10:54	12/11/16 09:45	75-25-2	
Bromomethane	<272	ug/kg	272	81.7	1	12/09/16 10:54	12/11/16 09:45	74-83-9	
2-Butanone (MEK)	<354	ug/kg	354	106	1	12/09/16 10:54	12/11/16 09:45	78-93-3	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S15\_22-26**      **Lab ID: 10372630012**      Collected: 12/07/16 14:45      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<65.0	ug/kg	65.0	19.5	1	12/09/16 10:54	12/11/16 09:45	104-51-8	
sec-Butylbenzene	<63.4	ug/kg	63.4	19.0	1	12/09/16 10:54	12/11/16 09:45	135-98-8	
tert-Butylbenzene	<84.8	ug/kg	84.8	25.5	1	12/09/16 10:54	12/11/16 09:45	98-06-6	
Carbon tetrachloride	<84.3	ug/kg	84.3	25.3	1	12/09/16 10:54	12/11/16 09:45	56-23-5	
Chlorobenzene	<46.7	ug/kg	46.7	14.0	1	12/09/16 10:54	12/11/16 09:45	108-90-7	
Chloroethane	<424	ug/kg	424	127	1	12/09/16 10:54	12/11/16 09:45	75-00-3	
Chloroform	<130	ug/kg	130	39.2	1	12/09/16 10:54	12/11/16 09:45	67-66-3	
Chloromethane	<130	ug/kg	130	39.0	1	12/09/16 10:54	12/11/16 09:45	74-87-3	
2-Chlorotoluene	<74.1	ug/kg	74.1	22.2	1	12/09/16 10:54	12/11/16 09:45	95-49-8	
4-Chlorotoluene	<70.3	ug/kg	70.3	21.1	1	12/09/16 10:54	12/11/16 09:45	106-43-4	
1,2-Dibromo-3-chloropropane	<157	ug/kg	157	157	1	12/09/16 10:54	12/11/16 09:45	96-12-8	
Dibromochloromethane	<230	ug/kg	230	69.2	1	12/09/16 10:54	12/11/16 09:45	124-48-1	
1,2-Dibromoethane (EDB)	<30.3	ug/kg	30.3	30.3	1	12/09/16 10:54	12/11/16 09:45	106-93-4	
Dibromomethane	<105	ug/kg	105	31.4	1	12/09/16 10:54	12/11/16 09:45	74-95-3	
1,2-Dichlorobenzene	<15.6	ug/kg	15.6	15.6	1	12/09/16 10:54	12/11/16 09:45	95-50-1	
1,3-Dichlorobenzene	<23.7	ug/kg	23.7	23.7	1	12/09/16 10:54	12/11/16 09:45	541-73-1	
1,4-Dichlorobenzene	<77.8	ug/kg	77.8	23.4	1	12/09/16 10:54	12/11/16 09:45	106-46-7	
Dichlorodifluoromethane	<82.1	ug/kg	82.1	24.7	1	12/09/16 10:54	12/11/16 09:45	75-71-8	
1,1-Dichloroethane	<31.3	ug/kg	31.3	31.3	1	12/09/16 10:54	12/11/16 09:45	75-34-3	
1,2-Dichloroethane	<25.5	ug/kg	25.5	25.5	1	12/09/16 10:54	12/11/16 09:45	107-06-2	
1,1-Dichloroethene	<20.5	ug/kg	20.5	20.5	1	12/09/16 10:54	12/11/16 09:45	75-35-4	
cis-1,2-Dichloroethene	<99.9	ug/kg	99.9	30.0	1	12/09/16 10:54	12/11/16 09:45	156-59-2	
trans-1,2-Dichloroethene	<129	ug/kg	129	38.9	1	12/09/16 10:54	12/11/16 09:45	156-60-5	
Dichlorofluoromethane	<736	ug/kg	736	221	1	12/09/16 10:54	12/11/16 09:45	75-43-4	
1,2-Dichloropropane	<27.9	ug/kg	27.9	27.9	1	12/09/16 10:54	12/11/16 09:45	78-87-5	
1,3-Dichloropropane	<96.1	ug/kg	96.1	28.9	1	12/09/16 10:54	12/11/16 09:45	142-28-9	
2,2-Dichloropropane	<85.4	ug/kg	85.4	25.6	1	12/09/16 10:54	12/11/16 09:45	594-20-7	CL
1,1-Dichloropropene	<24.3	ug/kg	24.3	24.3	1	12/09/16 10:54	12/11/16 09:45	563-58-6	
cis-1,3-Dichloropropene	<122	ug/kg	122	36.8	1	12/09/16 10:54	12/11/16 09:45	10061-01-5	
trans-1,3-Dichloropropene	<91.3	ug/kg	91.3	27.4	1	12/09/16 10:54	12/11/16 09:45	10061-02-6	
Diethyl ether (Ethyl ether)	<111	ug/kg	111	33.2	1	12/09/16 10:54	12/11/16 09:45	60-29-7	
Ethylbenzene	<85.4	ug/kg	85.4	25.6	1	12/09/16 10:54	12/11/16 09:45	100-41-4	
Hexachloro-1,3-butadiene	<252	ug/kg	252	75.8	1	12/09/16 10:54	12/11/16 09:45	87-68-3	
Isopropylbenzene (Cumene)	<95.6	ug/kg	95.6	28.7	1	12/09/16 10:54	12/11/16 09:45	98-82-8	
p-Isopropyltoluene	<44.6	ug/kg	44.6	13.4	1	12/09/16 10:54	12/11/16 09:45	99-87-6	
Methylene Chloride	<497	ug/kg	497	149	1	12/09/16 10:54	12/11/16 09:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	<178	ug/kg	178	53.4	1	12/09/16 10:54	12/11/16 09:45	108-10-1	
Methyl-tert-butyl ether	<50.3	ug/kg	50.3	15.1	1	12/09/16 10:54	12/11/16 09:45	1634-04-4	
Naphthalene	118	ug/kg	65.0	19.5	1	12/09/16 10:54	12/11/16 09:45	91-20-3	
n-Propylbenzene	<80.0	ug/kg	80.0	24.0	1	12/09/16 10:54	12/11/16 09:45	103-65-1	
Styrene	<69.8	ug/kg	69.8	21.0	1	12/09/16 10:54	12/11/16 09:45	100-42-5	
1,1,1,2-Tetrachloroethane	<31.9	ug/kg	31.9	31.9	1	12/09/16 10:54	12/11/16 09:45	630-20-6	
1,1,2,2-Tetrachloroethane	<17.9	ug/kg	17.9	17.9	1	12/09/16 10:54	12/11/16 09:45	79-34-5	
Tetrachloroethene	<103	ug/kg	103	30.8	1	12/09/16 10:54	12/11/16 09:45	127-18-4	
Tetrahydrofuran	<1330	ug/kg	1330	400	1	12/09/16 10:54	12/11/16 09:45	109-99-9	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S15\_22-26**      **Lab ID: 10372630012**      Collected: 12/07/16 14:45      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<85.4	ug/kg	85.4	25.6	1	12/09/16 10:54	12/11/16 09:45	108-88-3	
1,2,3-Trichlorobenzene	<23.2	ug/kg	23.2	23.2	1	12/09/16 10:54	12/11/16 09:45	87-61-6	
1,2,4-Trichlorobenzene	<24.8	ug/kg	24.8	24.8	1	12/09/16 10:54	12/11/16 09:45	120-82-1	
1,1,1-Trichloroethane	<33.7	ug/kg	33.7	33.7	1	12/09/16 10:54	12/11/16 09:45	71-55-6	
1,1,2-Trichloroethane	<17.4	ug/kg	17.4	17.4	1	12/09/16 10:54	12/11/16 09:45	79-00-5	
Trichloroethene	<76.8	ug/kg	76.8	23.1	1	12/09/16 10:54	12/11/16 09:45	79-01-6	
Trichlorofluoromethane	<270	ug/kg	270	80.9	1	12/09/16 10:54	12/11/16 09:45	75-69-4	
1,2,3-Trichloropropane	<83.5	ug/kg	83.5	83.5	1	12/09/16 10:54	12/11/16 09:45	96-18-4	
1,1,2-Trichlorotrifluoroethane	<193	ug/kg	193	58.0	1	12/09/16 10:54	12/11/16 09:45	76-13-1	
1,2,4-Trimethylbenzene	31.2	ug/kg	17.7	17.7	1	12/09/16 10:54	12/11/16 09:45	95-63-6	
1,3,5-Trimethylbenzene	<61.7	ug/kg	61.7	18.5	1	12/09/16 10:54	12/11/16 09:45	108-67-8	
Vinyl chloride	<34.5	ug/kg	34.5	10.4	1	12/09/16 10:54	12/11/16 09:45	75-01-4	
Xylene (Total)	<215	ug/kg	215	64.5	1	12/09/16 10:54	12/11/16 09:45	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	101	%	75-129		1	12/09/16 10:54	12/11/16 09:45	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/09/16 10:54	12/11/16 09:45	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/09/16 10:54	12/11/16 09:45	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S16\_21-22**      **Lab ID: 10372630013**      Collected: 12/07/16 15:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	4.9	mg/kg	1.0	0.31	1	12/21/16 09:54	12/22/16 10:25	7440-38-2	
Barium	181	mg/kg	0.082	0.025	1	12/21/16 09:54	12/22/16 10:25	7440-39-3	
Cadmium	0.16	mg/kg	0.049	0.015	1	12/21/16 09:54	12/22/16 10:25	7440-43-9	
Chromium	35.4	mg/kg	0.53	0.16	1	12/21/16 09:54	12/22/16 10:25	7440-47-3	
Lead	9.0	mg/kg	0.51	0.15	1	12/21/16 09:54	12/22/16 10:25	7439-92-1	
Selenium	<1.5	mg/kg	1.5	0.45	1	12/21/16 09:54	12/22/16 10:25	7782-49-2	
Silver	<0.41	mg/kg	0.41	0.12	1	12/21/16 09:54	12/22/16 10:25	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<0.025	mg/kg	0.025	0.0075	1	12/20/16 13:10	12/20/16 19:57	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	36.8	%	0.10	0.10	1		12/21/16 15:23		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	<2.1	ug/kg	2.1	0.62	1	12/09/16 07:17	12/14/16 20:33	83-32-9	
Acenaphthylene	<1.4	ug/kg	1.4	0.43	1	12/09/16 07:17	12/14/16 20:33	208-96-8	
Anthracene	<2.4	ug/kg	2.4	0.72	1	12/09/16 07:17	12/14/16 20:33	120-12-7	
Benzo(a)anthracene	<2.5	ug/kg	2.5	0.74	1	12/09/16 07:17	12/14/16 20:33	56-55-3	
Benzo(a)pyrene	<1.8	ug/kg	1.8	0.55	1	12/09/16 07:17	12/14/16 20:33	50-32-8	
Benzo(b)fluoranthene	<3.0	ug/kg	3.0	0.91	1	12/09/16 07:17	12/14/16 20:33	205-99-2	
Benzo(g,h,i)perylene	<2.4	ug/kg	2.4	0.72	1	12/09/16 07:17	12/14/16 20:33	191-24-2	
Benzo(k)fluoranthene	<2.6	ug/kg	2.6	0.78	1	12/09/16 07:17	12/14/16 20:33	207-08-9	
Chrysene	<2.9	ug/kg	2.9	0.88	1	12/09/16 07:17	12/14/16 20:33	218-01-9	
Dibenz(a,h)anthracene	<1.7	ug/kg	1.7	0.52	1	12/09/16 07:17	12/14/16 20:33	53-70-3	
Fluoranthene	<4.1	ug/kg	4.1	1.2	1	12/09/16 07:17	12/14/16 20:33	206-44-0	
Fluorene	<2.0	ug/kg	2.0	0.61	1	12/09/16 07:17	12/14/16 20:33	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.9	ug/kg	3.9	1.2	1	12/09/16 07:17	12/14/16 20:33	193-39-5	
Naphthalene	<1.9	ug/kg	1.9	0.56	1	12/09/16 07:17	12/14/16 20:33	91-20-3	
Phenanthrene	<2.1	ug/kg	2.1	0.64	1	12/09/16 07:17	12/14/16 20:33	85-01-8	
Pyrene	<4.4	ug/kg	4.4	1.3	1	12/09/16 07:17	12/14/16 20:33	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	89	%	41-125		1	12/09/16 07:17	12/14/16 20:33	321-60-8	
p-Terphenyl-d14 (S)	78	%	39-125		1	12/09/16 07:17	12/14/16 20:33	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<2590	ug/kg	2590	776	1	12/09/16 10:54	12/11/16 10:02	67-64-1	
Allyl chloride	<338	ug/kg	338	102	1	12/09/16 10:54	12/11/16 10:02	107-05-1	
Benzene	<34.0	ug/kg	34.0	10.2	1	12/09/16 10:54	12/11/16 10:02	71-43-2	
Bromobenzene	<101	ug/kg	101	30.3	1	12/09/16 10:54	12/11/16 10:02	108-86-1	
Bromochloromethane	<117	ug/kg	117	35.3	1	12/09/16 10:54	12/11/16 10:02	74-97-5	
Bromodichloromethane	<110	ug/kg	110	33.1	1	12/09/16 10:54	12/11/16 10:02	75-27-4	
Bromoform	<340	ug/kg	340	102	1	12/09/16 10:54	12/11/16 10:02	75-25-2	
Bromomethane	<400	ug/kg	400	120	1	12/09/16 10:54	12/11/16 10:02	74-83-9	
2-Butanone (MEK)	<520	ug/kg	520	156	1	12/09/16 10:54	12/11/16 10:02	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S16\_21-22**      **Lab ID: 10372630013**      Collected: 12/07/16 15:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<95.4	ug/kg	95.4	28.6	1	12/09/16 10:54	12/11/16 10:02	104-51-8	
sec-Butylbenzene	<93.0	ug/kg	93.0	27.9	1	12/09/16 10:54	12/11/16 10:02	135-98-8	
tert-Butylbenzene	<125	ug/kg	125	37.4	1	12/09/16 10:54	12/11/16 10:02	98-06-6	
Carbon tetrachloride	<124	ug/kg	124	37.2	1	12/09/16 10:54	12/11/16 10:02	56-23-5	
Chlorobenzene	<68.6	ug/kg	68.6	20.6	1	12/09/16 10:54	12/11/16 10:02	108-90-7	
Chloroethane	<623	ug/kg	623	187	1	12/09/16 10:54	12/11/16 10:02	75-00-3	
Chloroform	<192	ug/kg	192	57.5	1	12/09/16 10:54	12/11/16 10:02	67-66-3	
Chloromethane	<191	ug/kg	191	57.3	1	12/09/16 10:54	12/11/16 10:02	74-87-3	
2-Chlorotoluene	<109	ug/kg	109	32.7	1	12/09/16 10:54	12/11/16 10:02	95-49-8	
4-Chlorotoluene	<103	ug/kg	103	31.0	1	12/09/16 10:54	12/11/16 10:02	106-43-4	
1,2-Dibromo-3-chloropropane	<231	ug/kg	231	231	1	12/09/16 10:54	12/11/16 10:02	96-12-8	
Dibromochloromethane	<338	ug/kg	338	102	1	12/09/16 10:54	12/11/16 10:02	124-48-1	
1,2-Dibromoethane (EDB)	<44.5	ug/kg	44.5	44.5	1	12/09/16 10:54	12/11/16 10:02	106-93-4	
Dibromomethane	<154	ug/kg	154	46.2	1	12/09/16 10:54	12/11/16 10:02	74-95-3	
1,2-Dichlorobenzene	<22.9	ug/kg	22.9	22.9	1	12/09/16 10:54	12/11/16 10:02	95-50-1	
1,3-Dichlorobenzene	<34.8	ug/kg	34.8	34.8	1	12/09/16 10:54	12/11/16 10:02	541-73-1	
1,4-Dichlorobenzene	<114	ug/kg	114	34.3	1	12/09/16 10:54	12/11/16 10:02	106-46-7	
Dichlorodifluoromethane	<121	ug/kg	121	36.2	1	12/09/16 10:54	12/11/16 10:02	75-71-8	
1,1-Dichloroethane	<45.9	ug/kg	45.9	45.9	1	12/09/16 10:54	12/11/16 10:02	75-34-3	
1,2-Dichloroethane	<37.4	ug/kg	37.4	37.4	1	12/09/16 10:54	12/11/16 10:02	107-06-2	
1,1-Dichloroethene	<30.1	ug/kg	30.1	30.1	1	12/09/16 10:54	12/11/16 10:02	75-35-4	
cis-1,2-Dichloroethene	<147	ug/kg	147	44.0	1	12/09/16 10:54	12/11/16 10:02	156-59-2	
trans-1,2-Dichloroethene	<190	ug/kg	190	57.0	1	12/09/16 10:54	12/11/16 10:02	156-60-5	
Dichlorofluoromethane	<1080	ug/kg	1080	324	1	12/09/16 10:54	12/11/16 10:02	75-43-4	
1,2-Dichloropropane	<40.9	ug/kg	40.9	40.9	1	12/09/16 10:54	12/11/16 10:02	78-87-5	
1,3-Dichloropropane	<141	ug/kg	141	42.4	1	12/09/16 10:54	12/11/16 10:02	142-28-9	
2,2-Dichloropropane	<125	ug/kg	125	37.6	1	12/09/16 10:54	12/11/16 10:02	594-20-7	CL
1,1-Dichloropropene	<35.7	ug/kg	35.7	35.7	1	12/09/16 10:54	12/11/16 10:02	563-58-6	
cis-1,3-Dichloropropene	<180	ug/kg	180	54.0	1	12/09/16 10:54	12/11/16 10:02	10061-01-5	
trans-1,3-Dichloropropene	<134	ug/kg	134	40.2	1	12/09/16 10:54	12/11/16 10:02	10061-02-6	
Diethyl ether (Ethyl ether)	<162	ug/kg	162	48.8	1	12/09/16 10:54	12/11/16 10:02	60-29-7	
Ethylbenzene	<125	ug/kg	125	37.6	1	12/09/16 10:54	12/11/16 10:02	100-41-4	
Hexachloro-1,3-butadiene	<370	ug/kg	370	111	1	12/09/16 10:54	12/11/16 10:02	87-68-3	
Isopropylbenzene (Cumene)	<140	ug/kg	140	42.1	1	12/09/16 10:54	12/11/16 10:02	98-82-8	
p-Isopropyltoluene	<65.4	ug/kg	65.4	19.6	1	12/09/16 10:54	12/11/16 10:02	99-87-6	
Methylene Chloride	<730	ug/kg	730	219	1	12/09/16 10:54	12/11/16 10:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	<261	ug/kg	261	78.3	1	12/09/16 10:54	12/11/16 10:02	108-10-1	
Methyl-tert-butyl ether	<73.8	ug/kg	73.8	22.2	1	12/09/16 10:54	12/11/16 10:02	1634-04-4	
Naphthalene	<95.4	ug/kg	95.4	28.6	1	12/09/16 10:54	12/11/16 10:02	91-20-3	
n-Propylbenzene	<117	ug/kg	117	35.3	1	12/09/16 10:54	12/11/16 10:02	103-65-1	
Styrene	<102	ug/kg	102	30.8	1	12/09/16 10:54	12/11/16 10:02	100-42-5	
1,1,1,2-Tetrachloroethane	<46.9	ug/kg	46.9	46.9	1	12/09/16 10:54	12/11/16 10:02	630-20-6	
1,1,2,2-Tetrachloroethane	<26.3	ug/kg	26.3	26.3	1	12/09/16 10:54	12/11/16 10:02	79-34-5	
Tetrachloroethene	<151	ug/kg	151	45.2	1	12/09/16 10:54	12/11/16 10:02	127-18-4	
Tetrahydrofuran	<1950	ug/kg	1950	587	1	12/09/16 10:54	12/11/16 10:02	109-99-9	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S16\_21-22**      **Lab ID: 10372630013**      Collected: 12/07/16 15:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<125	ug/kg	125	37.6	1	12/09/16 10:54	12/11/16 10:02	108-88-3	
1,2,3-Trichlorobenzene	<34.1	ug/kg	34.1	34.1	1	12/09/16 10:54	12/11/16 10:02	87-61-6	
1,2,4-Trichlorobenzene	<36.5	ug/kg	36.5	36.5	1	12/09/16 10:54	12/11/16 10:02	120-82-1	
1,1,1-Trichloroethane	<49.5	ug/kg	49.5	49.5	1	12/09/16 10:54	12/11/16 10:02	71-55-6	
1,1,2-Trichloroethane	<25.6	ug/kg	25.6	25.6	1	12/09/16 10:54	12/11/16 10:02	79-00-5	
Trichloroethene	<113	ug/kg	113	33.8	1	12/09/16 10:54	12/11/16 10:02	79-01-6	
Trichlorofluoromethane	<396	ug/kg	396	119	1	12/09/16 10:54	12/11/16 10:02	75-69-4	
1,2,3-Trichloropropane	<123	ug/kg	123	123	1	12/09/16 10:54	12/11/16 10:02	96-18-4	
1,1,2-Trichlorotrifluoroethane	<284	ug/kg	284	85.2	1	12/09/16 10:54	12/11/16 10:02	76-13-1	
1,2,4-Trimethylbenzene	<26.0	ug/kg	26.0	26.0	1	12/09/16 10:54	12/11/16 10:02	95-63-6	
1,3,5-Trimethylbenzene	<90.6	ug/kg	90.6	27.2	1	12/09/16 10:54	12/11/16 10:02	108-67-8	
Vinyl chloride	<50.6	ug/kg	50.6	15.2	1	12/09/16 10:54	12/11/16 10:02	75-01-4	
Xylene (Total)	<315	ug/kg	315	94.7	1	12/09/16 10:54	12/11/16 10:02	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	100	%	75-129		1	12/09/16 10:54	12/11/16 10:02	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/09/16 10:54	12/11/16 10:02	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	12/09/16 10:54	12/11/16 10:02	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S17\_24-27**      **Lab ID: 10372630014**      Collected: 12/07/16 16:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	3.1	mg/kg	0.93	0.28	1	12/21/16 09:54	12/22/16 10:27	7440-38-2	
Barium	101	mg/kg	0.075	0.022	1	12/21/16 09:54	12/22/16 10:27	7440-39-3	
Cadmium	0.61	mg/kg	0.044	0.013	1	12/21/16 09:54	12/22/16 10:27	7440-43-9	
Chromium	18.5	mg/kg	0.49	0.15	1	12/21/16 09:54	12/22/16 10:27	7440-47-3	
Lead	82.8	mg/kg	0.47	0.14	1	12/21/16 09:54	12/22/16 10:27	7439-92-1	
Selenium	<1.4	mg/kg	1.4	0.41	1	12/21/16 09:54	12/22/16 10:27	7782-49-2	
Silver	1.4	mg/kg	0.37	0.11	1	12/21/16 09:54	12/22/16 10:27	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	1.5	mg/kg	0.049	0.015	2	12/20/16 13:10	12/21/16 14:12	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	31.4	%	0.10	0.10	1		12/21/16 15:23		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	117	ug/kg	9.5	2.8	5	12/09/16 07:17	12/16/16 16:44	83-32-9	
Acenaphthylene	<6.6	ug/kg	6.6	2.0	5	12/09/16 07:17	12/16/16 16:44	208-96-8	
Anthracene	121	ug/kg	11.0	3.3	5	12/09/16 07:17	12/16/16 16:44	120-12-7	
Benzo(a)anthracene	377	ug/kg	11.4	3.4	5	12/09/16 07:17	12/16/16 16:44	56-55-3	
Benzo(a)pyrene	417	ug/kg	8.4	2.5	5	12/09/16 07:17	12/16/16 16:44	50-32-8	
Benzo(b)fluoranthene	485	ug/kg	13.9	4.2	5	12/09/16 07:17	12/16/16 16:44	205-99-2	
Benzo(g,h,i)perylene	277	ug/kg	11.1	3.3	5	12/09/16 07:17	12/16/16 16:44	191-24-2	
Benzo(k)fluoranthene	172	ug/kg	11.9	3.6	5	12/09/16 07:17	12/16/16 16:44	207-08-9	
Chrysene	427	ug/kg	13.4	4.0	5	12/09/16 07:17	12/16/16 16:44	218-01-9	
Dibenz(a,h)anthracene	<7.9	ug/kg	7.9	2.4	5	12/09/16 07:17	12/16/16 16:44	53-70-3	
Fluoranthene	843	ug/kg	19.0	5.7	5	12/09/16 07:17	12/16/16 16:44	206-44-0	
Fluorene	79.7	ug/kg	9.3	2.8	5	12/09/16 07:17	12/16/16 16:44	86-73-7	
Indeno(1,2,3-cd)pyrene	216	ug/kg	18.2	5.5	5	12/09/16 07:17	12/16/16 16:44	193-39-5	
Naphthalene	<8.6	ug/kg	8.6	2.6	5	12/09/16 07:17	12/16/16 16:44	91-20-3	
Phenanthrene	674	ug/kg	9.8	2.9	5	12/09/16 07:17	12/16/16 16:44	85-01-8	
Pyrene	784	ug/kg	20.1	6.0	5	12/09/16 07:17	12/16/16 16:44	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	85	%	41-125		5	12/09/16 07:17	12/16/16 16:44	321-60-8	D4
p-Terphenyl-d14 (S)	84	%	39-125		5	12/09/16 07:17	12/16/16 16:44	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1590	ug/kg	1590	477	1	12/09/16 10:54	12/11/16 10:19	67-64-1	
Allyl chloride	<208	ug/kg	208	62.3	1	12/09/16 10:54	12/11/16 10:19	107-05-1	
Benzene	<20.9	ug/kg	20.9	6.3	1	12/09/16 10:54	12/11/16 10:19	71-43-2	
Bromobenzene	<61.9	ug/kg	61.9	18.6	1	12/09/16 10:54	12/11/16 10:19	108-86-1	
Bromochloromethane	<72.1	ug/kg	72.1	21.7	1	12/09/16 10:54	12/11/16 10:19	74-97-5	
Bromodichloromethane	<67.8	ug/kg	67.8	20.3	1	12/09/16 10:54	12/11/16 10:19	75-27-4	
Bromoform	<209	ug/kg	209	62.6	1	12/09/16 10:54	12/11/16 10:19	75-25-2	
Bromomethane	<245	ug/kg	245	73.7	1	12/09/16 10:54	12/11/16 10:19	74-83-9	
2-Butanone (MEK)	<319	ug/kg	319	95.9	1	12/09/16 10:54	12/11/16 10:19	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S17\_24-27**      **Lab ID: 10372630014**      Collected: 12/07/16 16:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<58.6	ug/kg	58.6	17.6	1	12/09/16 10:54	12/11/16 10:19	104-51-8	
sec-Butylbenzene	<57.1	ug/kg	57.1	17.1	1	12/09/16 10:54	12/11/16 10:19	135-98-8	
tert-Butylbenzene	<76.5	ug/kg	76.5	23.0	1	12/09/16 10:54	12/11/16 10:19	98-06-6	
Carbon tetrachloride	<76.0	ug/kg	76.0	22.8	1	12/09/16 10:54	12/11/16 10:19	56-23-5	
Chlorobenzene	<42.1	ug/kg	42.1	12.6	1	12/09/16 10:54	12/11/16 10:19	108-90-7	
Chloroethane	<382	ug/kg	382	115	1	12/09/16 10:54	12/11/16 10:19	75-00-3	
Chloroform	<118	ug/kg	118	35.3	1	12/09/16 10:54	12/11/16 10:19	67-66-3	
Chloromethane	<117	ug/kg	117	35.2	1	12/09/16 10:54	12/11/16 10:19	74-87-3	
2-Chlorotoluene	<66.8	ug/kg	66.8	20.1	1	12/09/16 10:54	12/11/16 10:19	95-49-8	
4-Chlorotoluene	<63.4	ug/kg	63.4	19.0	1	12/09/16 10:54	12/11/16 10:19	106-43-4	
1,2-Dibromo-3-chloropropane	<142	ug/kg	142	142	1	12/09/16 10:54	12/11/16 10:19	96-12-8	
Dibromochloromethane	<208	ug/kg	208	62.3	1	12/09/16 10:54	12/11/16 10:19	124-48-1	
1,2-Dibromoethane (EDB)	<27.3	ug/kg	27.3	27.3	1	12/09/16 10:54	12/11/16 10:19	106-93-4	
Dibromomethane	<94.4	ug/kg	94.4	28.3	1	12/09/16 10:54	12/11/16 10:19	74-95-3	
1,2-Dichlorobenzene	<14.0	ug/kg	14.0	14.0	1	12/09/16 10:54	12/11/16 10:19	95-50-1	
1,3-Dichlorobenzene	<21.4	ug/kg	21.4	21.4	1	12/09/16 10:54	12/11/16 10:19	541-73-1	
1,4-Dichlorobenzene	<70.2	ug/kg	70.2	21.1	1	12/09/16 10:54	12/11/16 10:19	106-46-7	
Dichlorodifluoromethane	<74.0	ug/kg	74.0	22.2	1	12/09/16 10:54	12/11/16 10:19	75-71-8	
1,1-Dichloroethane	<28.2	ug/kg	28.2	28.2	1	12/09/16 10:54	12/11/16 10:19	75-34-3	
1,2-Dichloroethane	<23.0	ug/kg	23.0	23.0	1	12/09/16 10:54	12/11/16 10:19	107-06-2	
1,1-Dichloroethene	<18.5	ug/kg	18.5	18.5	1	12/09/16 10:54	12/11/16 10:19	75-35-4	
cis-1,2-Dichloroethene	<90.0	ug/kg	90.0	27.0	1	12/09/16 10:54	12/11/16 10:19	156-59-2	
trans-1,2-Dichloroethene	<117	ug/kg	117	35.0	1	12/09/16 10:54	12/11/16 10:19	156-60-5	
Dichlorofluoromethane	<663	ug/kg	663	199	1	12/09/16 10:54	12/11/16 10:19	75-43-4	
1,2-Dichloropropane	<25.1	ug/kg	25.1	25.1	1	12/09/16 10:54	12/11/16 10:19	78-87-5	
1,3-Dichloropropane	<86.6	ug/kg	86.6	26.0	1	12/09/16 10:54	12/11/16 10:19	142-28-9	
2,2-Dichloropropane	<76.9	ug/kg	76.9	23.1	1	12/09/16 10:54	12/11/16 10:19	594-20-7	CL
1,1-Dichloropropene	<21.9	ug/kg	21.9	21.9	1	12/09/16 10:54	12/11/16 10:19	563-58-6	
cis-1,3-Dichloropropene	<110	ug/kg	110	33.1	1	12/09/16 10:54	12/11/16 10:19	10061-01-5	
trans-1,3-Dichloropropene	<82.3	ug/kg	82.3	24.7	1	12/09/16 10:54	12/11/16 10:19	10061-02-6	
Diethyl ether (Ethyl ether)	<99.7	ug/kg	99.7	29.9	1	12/09/16 10:54	12/11/16 10:19	60-29-7	
Ethylbenzene	<76.9	ug/kg	76.9	23.1	1	12/09/16 10:54	12/11/16 10:19	100-41-4	
Hexachloro-1,3-butadiene	<227	ug/kg	227	68.3	1	12/09/16 10:54	12/11/16 10:19	87-68-3	
Isopropylbenzene (Cumene)	<86.1	ug/kg	86.1	25.9	1	12/09/16 10:54	12/11/16 10:19	98-82-8	
p-Isopropyltoluene	<40.2	ug/kg	40.2	12.1	1	12/09/16 10:54	12/11/16 10:19	99-87-6	
Methylene Chloride	<448	ug/kg	448	135	1	12/09/16 10:54	12/11/16 10:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	<160	ug/kg	160	48.1	1	12/09/16 10:54	12/11/16 10:19	108-10-1	
Methyl-tert-butyl ether	<45.3	ug/kg	45.3	13.6	1	12/09/16 10:54	12/11/16 10:19	1634-04-4	
Naphthalene	72.9	ug/kg	58.6	17.6	1	12/09/16 10:54	12/11/16 10:19	91-20-3	
n-Propylbenzene	<72.1	ug/kg	72.1	21.7	1	12/09/16 10:54	12/11/16 10:19	103-65-1	
Styrene	<62.9	ug/kg	62.9	18.9	1	12/09/16 10:54	12/11/16 10:19	100-42-5	
1,1,1,2-Tetrachloroethane	<28.8	ug/kg	28.8	28.8	1	12/09/16 10:54	12/11/16 10:19	630-20-6	
1,1,2,2-Tetrachloroethane	<16.1	ug/kg	16.1	16.1	1	12/09/16 10:54	12/11/16 10:19	79-34-5	
Tetrachloroethene	<92.4	ug/kg	92.4	27.8	1	12/09/16 10:54	12/11/16 10:19	127-18-4	
Tetrahydrofuran	<1200	ug/kg	1200	360	1	12/09/16 10:54	12/11/16 10:19	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S17\_24-27**      **Lab ID: 10372630014**      Collected: 12/07/16 16:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<76.9	ug/kg	76.9	23.1	1	12/09/16 10:54	12/11/16 10:19	108-88-3	
1,2,3-Trichlorobenzene	<20.9	ug/kg	20.9	20.9	1	12/09/16 10:54	12/11/16 10:19	87-61-6	
1,2,4-Trichlorobenzene	<22.4	ug/kg	22.4	22.4	1	12/09/16 10:54	12/11/16 10:19	120-82-1	
1,1,1-Trichloroethane	<30.4	ug/kg	30.4	30.4	1	12/09/16 10:54	12/11/16 10:19	71-55-6	
1,1,2-Trichloroethane	<15.7	ug/kg	15.7	15.7	1	12/09/16 10:54	12/11/16 10:19	79-00-5	
Trichloroethene	<69.2	ug/kg	69.2	20.8	1	12/09/16 10:54	12/11/16 10:19	79-01-6	
Trichlorofluoromethane	<243	ug/kg	243	73.0	1	12/09/16 10:54	12/11/16 10:19	75-69-4	
1,2,3-Trichloropropane	<75.3	ug/kg	75.3	75.3	1	12/09/16 10:54	12/11/16 10:19	96-18-4	
1,1,2-Trichlorotrifluoroethane	<174	ug/kg	174	52.3	1	12/09/16 10:54	12/11/16 10:19	76-13-1	
1,2,4-Trimethylbenzene	34.0	ug/kg	16.0	16.0	1	12/09/16 10:54	12/11/16 10:19	95-63-6	
1,3,5-Trimethylbenzene	<55.7	ug/kg	55.7	16.7	1	12/09/16 10:54	12/11/16 10:19	108-67-8	
Vinyl chloride	<31.1	ug/kg	31.1	9.3	1	12/09/16 10:54	12/11/16 10:19	75-01-4	
Xylene (Total)	<194	ug/kg	194	58.1	1	12/09/16 10:54	12/11/16 10:19	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-129		1	12/09/16 10:54	12/11/16 10:19	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/09/16 10:54	12/11/16 10:19	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	12/09/16 10:54	12/11/16 10:19	460-00-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

Sample: Trip Blank Lab ID: 10372630015 Collected: 12/07/16 00:00 Received: 12/08/16 18:35 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	<1090	ug/kg	1090	328	1	12/09/16 10:54	12/09/16 19:05	67-64-1	
Allyl chloride	<143	ug/kg	143	42.9	1	12/09/16 10:54	12/09/16 19:05	107-05-1	
Benzene	<14.4	ug/kg	14.4	4.3	1	12/09/16 10:54	12/09/16 19:05	71-43-2	
Bromobenzene	<42.6	ug/kg	42.6	12.8	1	12/09/16 10:54	12/09/16 19:05	108-86-1	
Bromochloromethane	<49.6	ug/kg	49.6	14.9	1	12/09/16 10:54	12/09/16 19:05	74-97-5	
Bromodichloromethane	<46.6	ug/kg	46.6	14.0	1	12/09/16 10:54	12/09/16 19:05	75-27-4	
Bromoform	<144	ug/kg	144	43.1	1	12/09/16 10:54	12/09/16 19:05	75-25-2	
Bromomethane	<169	ug/kg	169	50.7	1	12/09/16 10:54	12/09/16 19:05	74-83-9	
2-Butanone (MEK)	<220	ug/kg	220	66.0	1	12/09/16 10:54	12/09/16 19:05	78-93-3	
n-Butylbenzene	<40.3	ug/kg	40.3	12.1	1	12/09/16 10:54	12/09/16 19:05	104-51-8	
sec-Butylbenzene	<39.3	ug/kg	39.3	11.8	1	12/09/16 10:54	12/09/16 19:05	135-98-8	
tert-Butylbenzene	<52.6	ug/kg	52.6	15.8	1	12/09/16 10:54	12/09/16 19:05	98-06-6	
Carbon tetrachloride	<52.3	ug/kg	52.3	15.7	1	12/09/16 10:54	12/09/16 19:05	56-23-5	
Chlorobenzene	<29.0	ug/kg	29.0	8.7	1	12/09/16 10:54	12/09/16 19:05	108-90-7	
Chloroethane	<263	ug/kg	263	79.0	1	12/09/16 10:54	12/09/16 19:05	75-00-3	
Chloroform	<80.9	ug/kg	80.9	24.3	1	12/09/16 10:54	12/09/16 19:05	67-66-3	
Chloromethane	<80.6	ug/kg	80.6	24.2	1	12/09/16 10:54	12/09/16 19:05	74-87-3	
2-Chlorotoluene	<46.0	ug/kg	46.0	13.8	1	12/09/16 10:54	12/09/16 19:05	95-49-8	
4-Chlorotoluene	<43.6	ug/kg	43.6	13.1	1	12/09/16 10:54	12/09/16 19:05	106-43-4	
1,2-Dibromo-3-chloropropane	<97.5	ug/kg	97.5	97.5	1	12/09/16 10:54	12/09/16 19:05	96-12-8	
Dibromochloromethane	<143	ug/kg	143	42.9	1	12/09/16 10:54	12/09/16 19:05	124-48-1	
1,2-Dibromoethane (EDB)	<18.8	ug/kg	18.8	18.8	1	12/09/16 10:54	12/09/16 19:05	106-93-4	
Dibromomethane	<64.9	ug/kg	64.9	19.5	1	12/09/16 10:54	12/09/16 19:05	74-95-3	
1,2-Dichlorobenzene	<9.7	ug/kg	9.7	9.7	1	12/09/16 10:54	12/09/16 19:05	95-50-1	
1,3-Dichlorobenzene	<14.7	ug/kg	14.7	9.7	1	12/09/16 10:54	12/09/16 19:05	541-73-1	
1,4-Dichlorobenzene	<48.3	ug/kg	48.3	14.5	1	12/09/16 10:54	12/09/16 19:05	106-46-7	
Dichlorodifluoromethane	<50.9	ug/kg	50.9	15.3	1	12/09/16 10:54	12/09/16 19:05	75-71-8	
1,1-Dichloroethane	<19.4	ug/kg	19.4	19.4	1	12/09/16 10:54	12/09/16 19:05	75-34-3	
1,2-Dichloroethane	<15.8	ug/kg	15.8	15.8	1	12/09/16 10:54	12/09/16 19:05	107-06-2	
1,1-Dichloroethene	<12.7	ug/kg	12.7	12.7	1	12/09/16 10:54	12/09/16 19:05	75-35-4	
cis-1,2-Dichloroethene	<61.9	ug/kg	61.9	18.6	1	12/09/16 10:54	12/09/16 19:05	156-59-2	
trans-1,2-Dichloroethene	<80.3	ug/kg	80.3	24.1	1	12/09/16 10:54	12/09/16 19:05	156-60-5	
Dichlorofluoromethane	<456	ug/kg	456	137	1	12/09/16 10:54	12/09/16 19:05	75-43-4	
1,2-Dichloropropane	<17.3	ug/kg	17.3	17.3	1	12/09/16 10:54	12/09/16 19:05	78-87-5	
1,3-Dichloropropane	<59.6	ug/kg	59.6	17.9	1	12/09/16 10:54	12/09/16 19:05	142-28-9	
2,2-Dichloropropane	<52.9	ug/kg	52.9	15.9	1	12/09/16 10:54	12/09/16 19:05	594-20-7	
1,1-Dichloropropene	<15.1	ug/kg	15.1	15.1	1	12/09/16 10:54	12/09/16 19:05	563-58-6	
cis-1,3-Dichloropropene	<75.9	ug/kg	75.9	22.8	1	12/09/16 10:54	12/09/16 19:05	10061-01-5	
trans-1,3-Dichloropropene	<56.6	ug/kg	56.6	17.0	1	12/09/16 10:54	12/09/16 19:05	10061-02-6	
Diethyl ether (Ethyl ether)	<68.6	ug/kg	68.6	20.6	1	12/09/16 10:54	12/09/16 19:05	60-29-7	
Ethylbenzene	<52.9	ug/kg	52.9	15.9	1	12/09/16 10:54	12/09/16 19:05	100-41-4	
Hexachloro-1,3-butadiene	<157	ug/kg	157	47.0	1	12/09/16 10:54	12/09/16 19:05	87-68-3	
Isopropylbenzene (Cumene)	<59.3	ug/kg	59.3	17.8	1	12/09/16 10:54	12/09/16 19:05	98-82-8	
p-Isopropyltoluene	<27.6	ug/kg	27.6	8.3	1	12/09/16 10:54	12/09/16 19:05	99-87-6	
Methylene Chloride	<308	ug/kg	308	92.6	1	12/09/16 10:54	12/09/16 19:05	75-09-2	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: Trip Blank**      **Lab ID: 10372630015**      Collected: 12/07/16 00:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
4-Methyl-2-pentanone (MIBK)	<110	ug/kg	110	33.1	1	12/09/16 10:54	12/09/16 19:05	108-10-1	
Methyl-tert-butyl ether	<31.2	ug/kg	31.2	9.4	1	12/09/16 10:54	12/09/16 19:05	1634-04-4	
Naphthalene	<40.3	ug/kg	40.3	12.1	1	12/09/16 10:54	12/09/16 19:05	91-20-3	
n-Propylbenzene	<49.6	ug/kg	49.6	14.9	1	12/09/16 10:54	12/09/16 19:05	103-65-1	
Styrene	<43.3	ug/kg	43.3	13.0	1	12/09/16 10:54	12/09/16 19:05	100-42-5	
1,1,1,2-Tetrachloroethane	<19.8	ug/kg	19.8	19.8	1	12/09/16 10:54	12/09/16 19:05	630-20-6	
1,1,2,2-Tetrachloroethane	<11.1	ug/kg	11.1	11.1	1	12/09/16 10:54	12/09/16 19:05	79-34-5	
Tetrachloroethene	<63.6	ug/kg	63.6	19.1	1	12/09/16 10:54	12/09/16 19:05	127-18-4	
Tetrahydrofuran	<826	ug/kg	826	248	1	12/09/16 10:54	12/09/16 19:05	109-99-9	
Toluene	<52.9	ug/kg	52.9	15.9	1	12/09/16 10:54	12/09/16 19:05	108-88-3	
1,2,3-Trichlorobenzene	<14.4	ug/kg	14.4	14.4	1	12/09/16 10:54	12/09/16 19:05	87-61-6	
1,2,4-Trichlorobenzene	<15.4	ug/kg	15.4	15.4	1	12/09/16 10:54	12/09/16 19:05	120-82-1	
1,1,1-Trichloroethane	<20.9	ug/kg	20.9	20.9	1	12/09/16 10:54	12/09/16 19:05	71-55-6	
1,1,2-Trichloroethane	<10.8	ug/kg	10.8	10.8	1	12/09/16 10:54	12/09/16 19:05	79-00-5	
Trichloroethene	<47.6	ug/kg	47.6	14.3	1	12/09/16 10:54	12/09/16 19:05	79-01-6	
Trichlorofluoromethane	<167	ug/kg	167	50.2	1	12/09/16 10:54	12/09/16 19:05	75-69-4	
1,2,3-Trichloropropane	<51.8	ug/kg	51.8	51.8	1	12/09/16 10:54	12/09/16 19:05	96-18-4	
1,1,2-Trichlorotrifluoroethane	<120	ug/kg	120	36.0	1	12/09/16 10:54	12/09/16 19:05	76-13-1	
1,2,4-Trimethylbenzene	<11.0	ug/kg	11.0	11.0	1	12/09/16 10:54	12/09/16 19:05	95-63-6	
1,3,5-Trimethylbenzene	<38.3	ug/kg	38.3	11.5	1	12/09/16 10:54	12/09/16 19:05	108-67-8	
Vinyl chloride	<21.4	ug/kg	21.4	6.4	1	12/09/16 10:54	12/09/16 19:05	75-01-4	
Xylene (Total)	<133	ug/kg	133	40.0	1	12/09/16 10:54	12/09/16 19:05	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	93	%	75-129		1	12/09/16 10:54	12/09/16 19:05	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/09/16 10:54	12/09/16 19:05	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/09/16 10:54	12/09/16 19:05	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S16\_21-22 (DUP)**      **Lab ID: 10372630016**      Collected: 12/07/16 15:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	5.6	mg/kg	1.8	0.54	2	12/20/16 09:30	12/21/16 11:22	7440-38-2	
Barium	205	mg/kg	0.14	0.043	2	12/20/16 09:30	12/21/16 11:22	7440-39-3	
Cadmium	0.097	mg/kg	0.085	0.026	2	12/20/16 09:30	12/21/16 11:22	7440-43-9	D3
Chromium	41.5	mg/kg	0.93	0.28	2	12/20/16 09:30	12/21/16 11:22	7440-47-3	
Lead	10.5	mg/kg	0.90	0.27	2	12/20/16 09:30	12/21/16 11:22	7439-92-1	
Selenium	<2.6	mg/kg	2.6	0.78	2	12/20/16 09:30	12/21/16 11:22	7782-49-2	D3
Silver	<0.72	mg/kg	0.72	0.22	2	12/20/16 09:30	12/21/16 11:22	7440-22-4	D3
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.037	mg/kg	0.026	0.0078	1	12/20/16 13:17	12/21/16 16:58	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	39.2	%	0.10	0.10	1		12/21/16 16:15		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	<2.1	ug/kg	2.1	0.64	1	12/13/16 06:54	12/18/16 20:23	83-32-9	
Acenaphthylene	<1.5	ug/kg	1.5	0.45	1	12/13/16 06:54	12/18/16 20:23	208-96-8	
Anthracene	<2.5	ug/kg	2.5	0.75	1	12/13/16 06:54	12/18/16 20:23	120-12-7	
Benzo(a)anthracene	2.9	ug/kg	2.6	0.77	1	12/13/16 06:54	12/18/16 20:23	56-55-3	
Benzo(a)pyrene	2.3	ug/kg	1.9	0.57	1	12/13/16 06:54	12/18/16 20:23	50-32-8	
Benzo(b)fluoranthene	3.1	ug/kg	3.1	0.94	1	12/13/16 06:54	12/18/16 20:23	205-99-2	
Benzo(g,h,i)perylene	<2.5	ug/kg	2.5	0.75	1	12/13/16 06:54	12/18/16 20:23	191-24-2	
Benzo(k)fluoranthene	<2.7	ug/kg	2.7	0.81	1	12/13/16 06:54	12/18/16 20:23	207-08-9	
Chrysene	<3.0	ug/kg	3.0	0.91	1	12/13/16 06:54	12/18/16 20:23	218-01-9	
Dibenz(a,h)anthracene	<1.8	ug/kg	1.8	0.54	1	12/13/16 06:54	12/18/16 20:23	53-70-3	
Fluoranthene	6.5	ug/kg	4.3	1.3	1	12/13/16 06:54	12/18/16 20:23	206-44-0	
Fluorene	<2.1	ug/kg	2.1	0.63	1	12/13/16 06:54	12/18/16 20:23	86-73-7	
Indeno(1,2,3-cd)pyrene	<4.1	ug/kg	4.1	1.2	1	12/13/16 06:54	12/18/16 20:23	193-39-5	
Naphthalene	<2.0	ug/kg	2.0	0.59	1	12/13/16 06:54	12/18/16 20:23	91-20-3	
Phenanthrene	2.9	ug/kg	2.2	0.66	1	12/13/16 06:54	12/18/16 20:23	85-01-8	
Pyrene	5.8	ug/kg	4.5	1.4	1	12/13/16 06:54	12/18/16 20:23	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	66	%	41-125		1	12/13/16 06:54	12/18/16 20:23	321-60-8	
p-Terphenyl-d14 (S)	88	%	39-125		1	12/13/16 06:54	12/18/16 20:23	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1760	ug/kg	1760	527	1	12/13/16 10:20	12/13/16 22:03	67-64-1	
Allyl chloride	<230	ug/kg	230	69.0	1	12/13/16 10:20	12/13/16 22:03	107-05-1	
Benzene	<23.1	ug/kg	23.1	6.9	1	12/13/16 10:20	12/13/16 22:03	71-43-2	
Bromobenzene	<68.5	ug/kg	68.5	20.6	1	12/13/16 10:20	12/13/16 22:03	108-86-1	
Bromochloromethane	<79.8	ug/kg	79.8	23.9	1	12/13/16 10:20	12/13/16 22:03	74-97-5	
Bromodichloromethane	<74.9	ug/kg	74.9	22.5	1	12/13/16 10:20	12/13/16 22:03	75-27-4	
Bromoform	<231	ug/kg	231	69.3	1	12/13/16 10:20	12/13/16 22:03	75-25-2	
Bromomethane	<271	ug/kg	271	81.5	1	12/13/16 10:20	12/13/16 22:03	74-83-9	
2-Butanone (MEK)	<353	ug/kg	353	106	1	12/13/16 10:20	12/13/16 22:03	78-93-3	

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## ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S16\_21-22 (DUP)**      **Lab ID: 10372630016**      Collected: 12/07/16 15:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<64.8	ug/kg	64.8	19.4	1	12/13/16 10:20	12/13/16 22:03	104-51-8	
sec-Butylbenzene	<63.2	ug/kg	63.2	19.0	1	12/13/16 10:20	12/13/16 22:03	135-98-8	
tert-Butylbenzene	<84.6	ug/kg	84.6	25.4	1	12/13/16 10:20	12/13/16 22:03	98-06-6	
Carbon tetrachloride	<84.0	ug/kg	84.0	25.2	1	12/13/16 10:20	12/13/16 22:03	56-23-5	
Chlorobenzene	<46.6	ug/kg	46.6	14.0	1	12/13/16 10:20	12/13/16 22:03	108-90-7	
Chloroethane	<423	ug/kg	423	127	1	12/13/16 10:20	12/13/16 22:03	75-00-3	
Chloroform	<130	ug/kg	130	39.1	1	12/13/16 10:20	12/13/16 22:03	67-66-3	
Chloromethane	<130	ug/kg	130	38.9	1	12/13/16 10:20	12/13/16 22:03	74-87-3	
2-Chlorotoluene	<73.9	ug/kg	73.9	22.2	1	12/13/16 10:20	12/13/16 22:03	95-49-8	
4-Chlorotoluene	<70.1	ug/kg	70.1	21.1	1	12/13/16 10:20	12/13/16 22:03	106-43-4	
1,2-Dibromo-3-chloropropane	<157	ug/kg	157	157	1	12/13/16 10:20	12/13/16 22:03	96-12-8	
Dibromochloromethane	<230	ug/kg	230	69.0	1	12/13/16 10:20	12/13/16 22:03	124-48-1	
1,2-Dibromoethane (EDB)	<30.2	ug/kg	30.2	30.2	1	12/13/16 10:20	12/13/16 22:03	106-93-4	
Dibromomethane	<104	ug/kg	104	31.3	1	12/13/16 10:20	12/13/16 22:03	74-95-3	
1,2-Dichlorobenzene	<15.5	ug/kg	15.5	15.5	1	12/13/16 10:20	12/13/16 22:03	95-50-1	
1,3-Dichlorobenzene	<23.6	ug/kg	23.6	15.5	1	12/13/16 10:20	12/13/16 22:03	541-73-1	
1,4-Dichlorobenzene	<77.6	ug/kg	77.6	23.3	1	12/13/16 10:20	12/13/16 22:03	106-46-7	
Dichlorodifluoromethane	<81.9	ug/kg	81.9	24.6	1	12/13/16 10:20	12/13/16 22:03	75-71-8	
1,1-Dichloroethane	<31.2	ug/kg	31.2	31.2	1	12/13/16 10:20	12/13/16 22:03	75-34-3	
1,2-Dichloroethane	<25.4	ug/kg	25.4	25.4	1	12/13/16 10:20	12/13/16 22:03	107-06-2	
1,1-Dichloroethene	<20.4	ug/kg	20.4	20.4	1	12/13/16 10:20	12/13/16 22:03	75-35-4	
cis-1,2-Dichloroethene	<99.6	ug/kg	99.6	29.9	1	12/13/16 10:20	12/13/16 22:03	156-59-2	
trans-1,2-Dichloroethene	<129	ug/kg	129	38.7	1	12/13/16 10:20	12/13/16 22:03	156-60-5	
Dichlorofluoromethane	<733	ug/kg	733	220	1	12/13/16 10:20	12/13/16 22:03	75-43-4	
1,2-Dichloropropane	<27.8	ug/kg	27.8	27.8	1	12/13/16 10:20	12/13/16 22:03	78-87-5	
1,3-Dichloropropane	<95.8	ug/kg	95.8	28.8	1	12/13/16 10:20	12/13/16 22:03	142-28-9	
2,2-Dichloropropane	<85.1	ug/kg	85.1	25.6	1	12/13/16 10:20	12/13/16 22:03	594-20-7	
1,1-Dichloropropene	<24.3	ug/kg	24.3	24.3	1	12/13/16 10:20	12/13/16 22:03	563-58-6	
cis-1,3-Dichloropropene	<122	ug/kg	122	36.6	1	12/13/16 10:20	12/13/16 22:03	10061-01-5	
trans-1,3-Dichloropropene	<91.0	ug/kg	91.0	27.3	1	12/13/16 10:20	12/13/16 22:03	10061-02-6	
Diethyl ether (Ethyl ether)	<110	ug/kg	110	33.1	1	12/13/16 10:20	12/13/16 22:03	60-29-7	
Ethylbenzene	<85.1	ug/kg	85.1	25.6	1	12/13/16 10:20	12/13/16 22:03	100-41-4	
Hexachloro-1,3-butadiene	<252	ug/kg	252	75.5	1	12/13/16 10:20	12/13/16 22:03	87-68-3	
Isopropylbenzene (Cumene)	<95.3	ug/kg	95.3	28.6	1	12/13/16 10:20	12/13/16 22:03	98-82-8	
p-Isopropyltoluene	<44.4	ug/kg	44.4	13.3	1	12/13/16 10:20	12/13/16 22:03	99-87-6	
Methylene Chloride	<496	ug/kg	496	149	1	12/13/16 10:20	12/13/16 22:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	<177	ug/kg	177	53.2	1	12/13/16 10:20	12/13/16 22:03	108-10-1	
Methyl-tert-butyl ether	<50.1	ug/kg	50.1	15.0	1	12/13/16 10:20	12/13/16 22:03	1634-04-4	
Naphthalene	<64.8	ug/kg	64.8	19.4	1	12/13/16 10:20	12/13/16 22:03	91-20-3	
n-Propylbenzene	<79.8	ug/kg	79.8	23.9	1	12/13/16 10:20	12/13/16 22:03	103-65-1	
Styrene	<69.6	ug/kg	69.6	20.9	1	12/13/16 10:20	12/13/16 22:03	100-42-5	
1,1,1,2-Tetrachloroethane	<31.8	ug/kg	31.8	31.8	1	12/13/16 10:20	12/13/16 22:03	630-20-6	
1,1,2,2-Tetrachloroethane	<17.8	ug/kg	17.8	17.8	1	12/13/16 10:20	12/13/16 22:03	79-34-5	
Tetrachloroethene	<102	ug/kg	102	30.7	1	12/13/16 10:20	12/13/16 22:03	127-18-4	
Tetrahydrofuran	<1330	ug/kg	1330	399	1	12/13/16 10:20	12/13/16 22:03	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

**Sample: S16\_21-22 (DUP)**      **Lab ID: 10372630016**      Collected: 12/07/16 15:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<85.1	ug/kg	85.1	25.6	1	12/13/16 10:20	12/13/16 22:03	108-88-3	
1,2,3-Trichlorobenzene	<23.1	ug/kg	23.1	23.1	1	12/13/16 10:20	12/13/16 22:03	87-61-6	
1,2,4-Trichlorobenzene	<24.8	ug/kg	24.8	24.8	1	12/13/16 10:20	12/13/16 22:03	120-82-1	
1,1,1-Trichloroethane	<33.6	ug/kg	33.6	33.6	1	12/13/16 10:20	12/13/16 22:03	71-55-6	
1,1,2-Trichloroethane	<17.4	ug/kg	17.4	17.4	1	12/13/16 10:20	12/13/16 22:03	79-00-5	
Trichloroethene	<76.5	ug/kg	76.5	23.0	1	12/13/16 10:20	12/13/16 22:03	79-01-6	
Trichlorofluoromethane	<269	ug/kg	269	80.7	1	12/13/16 10:20	12/13/16 22:03	75-69-4	
1,2,3-Trichloropropane	<83.3	ug/kg	83.3	83.3	1	12/13/16 10:20	12/13/16 22:03	96-18-4	
1,1,2-Trichlorotrifluoroethane	<193	ug/kg	193	57.9	1	12/13/16 10:20	12/13/16 22:03	76-13-1	
1,2,4-Trimethylbenzene	<17.7	ug/kg	17.7	17.7	1	12/13/16 10:20	12/13/16 22:03	95-63-6	
1,3,5-Trimethylbenzene	<61.6	ug/kg	61.6	18.5	1	12/13/16 10:20	12/13/16 22:03	108-67-8	
Vinyl chloride	<34.4	ug/kg	34.4	10.3	1	12/13/16 10:20	12/13/16 22:03	75-01-4	
Xylene (Total)	<214	ug/kg	214	64.3	1	12/13/16 10:20	12/13/16 22:03	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	87	%	75-129		1	12/13/16 10:20	12/13/16 22:03	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/13/16 10:20	12/13/16 22:03	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/13/16 10:20	12/13/16 22:03	460-00-4	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

QC Batch: 450975

Analysis Method: EPA 7471B

QC Batch Method: EPA 7471B

Analysis Description: 7471B Mercury Solids

Associated Lab Samples: 10372630001, 10372630002, 10372630003, 10372630004, 10372630005, 10372630006, 10372630007, 10372630008, 10372630009, 10372630010, 10372630011, 10372630012, 10372630013, 10372630014

METHOD BLANK: 2469420

Matrix: Solid

Associated Lab Samples: 10372630001, 10372630002, 10372630003, 10372630004, 10372630005, 10372630006, 10372630007, 10372630008, 10372630009, 10372630010, 10372630011, 10372630012, 10372630013, 10372630014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.016	0.016	12/20/16 19:06	

LABORATORY CONTROL SAMPLE: 2469421

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.46	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2469422 2469423

Parameter	Units	10372630001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.28	.8	.85	1.0	0.97	95	80	75-125	7	20	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev  
Pace Project No.: 10372630

QC Batch: 451149 Analysis Method: EPA 7471B  
QC Batch Method: EPA 7471B Analysis Description: 7471B Mercury Solids  
Associated Lab Samples: 10372630016

METHOD BLANK: 2470232 Matrix: Solid  
Associated Lab Samples: 10372630016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.017	0.017	12/21/16 16:09	

LABORATORY CONTROL SAMPLE: 2470233

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.43	0.39	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2470234 2470235

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max		Qual
		10372645001 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	RPD		RPD		
Mercury	mg/kg	0.69	.82	.76	1.6	1.5	115	102	75-125	12	20		

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev  
Pace Project No.: 10372630

QC Batch: 451147 Analysis Method: EPA 6010C  
QC Batch Method: EPA 3050 Analysis Description: 6010C Solids  
Associated Lab Samples: 10372630016

METHOD BLANK: 2470223 Matrix: Solid  
Associated Lab Samples: 10372630016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<0.57	0.57	12/21/16 09:48	
Barium	mg/kg	<0.046	0.046	12/21/16 09:48	
Cadmium	mg/kg	<0.027	0.027	12/21/16 09:48	
Chromium	mg/kg	<0.30	0.30	12/21/16 09:48	
Lead	mg/kg	<0.29	0.29	12/21/16 09:48	
Selenium	mg/kg	<0.83	0.83	12/21/16 09:48	
Silver	mg/kg	<0.23	0.23	12/21/16 09:48	

LABORATORY CONTROL SAMPLE: 2470224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	44.6	44.9	101	80-120	
Barium	mg/kg	44.6	46.6	104	80-120	
Cadmium	mg/kg	44.6	43.8	98	80-120	
Chromium	mg/kg	44.6	47.0	105	80-120	
Lead	mg/kg	44.6	43.9	98	80-120	
Selenium	mg/kg	44.6	41.0	92	80-120	
Silver	mg/kg	22.3	21.3	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2470225 2470226

Parameter	Units	10372645001		2470226		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Arsenic	mg/kg	3.7	68.7	68.2	60.6	59.9	83	82	75-125	1	20
Barium	mg/kg	68.5	68.7	68.2	133	140	94	105	75-125	5	20
Cadmium	mg/kg	0.41	68.7	68.2	57.4	56.5	83	82	75-125	1	20
Chromium	mg/kg	18.3	68.7	68.2	79.6	78.1	89	88	75-125	2	20
Lead	mg/kg	46.2	68.7	68.2	108	101	90	80	75-125	7	20
Selenium	mg/kg	ND	68.7	68.2	52.8	52.2	77	77	75-125	1	20
Silver	mg/kg	0.72	34.4	34	29.3	28.9	83	83	75-125	1	20

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

QC Batch:	452778	Analysis Method:	EPA 6010C
QC Batch Method:	EPA 3050	Analysis Description:	6010C Solids
Associated Lab Samples:	10372630001, 10372630002, 10372630003, 10372630004, 10372630005, 10372630006, 10372630007, 10372630008, 10372630009, 10372630010, 10372630011, 10372630012, 10372630013, 10372630014		

METHOD BLANK:	2478328	Matrix:	Solid
Associated Lab Samples:	10372630001, 10372630002, 10372630003, 10372630004, 10372630005, 10372630006, 10372630007, 10372630008, 10372630009, 10372630010, 10372630011, 10372630012, 10372630013, 10372630014		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<0.65	0.65	12/22/16 09:27	
Barium	mg/kg	<0.052	0.052	12/22/16 09:27	
Cadmium	mg/kg	<0.031	0.031	12/22/16 09:27	
Chromium	mg/kg	<0.34	0.34	12/22/16 09:27	
Lead	mg/kg	<0.33	0.33	12/22/16 09:27	
Selenium	mg/kg	<0.95	0.95	12/22/16 09:27	
Silver	mg/kg	<0.26	0.26	12/22/16 09:27	

LABORATORY CONTROL SAMPLE: 2478329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	46.3	43.6	94	80-120	
Barium	mg/kg	46.3	47.4	102	80-120	
Cadmium	mg/kg	46.3	44.2	96	80-120	
Chromium	mg/kg	46.3	47.0	102	80-120	
Lead	mg/kg	46.3	45.7	99	80-120	
Selenium	mg/kg	46.3	41.2	89	80-120	
Silver	mg/kg	23.1	22.0	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2478330 2478331

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10372630001 Result	Spike Conc.	Spike Conc.	MS Result						
Arsenic	mg/kg	2.4	76	80.4	68.2	69.1	86	83	75-125	1	20
Barium	mg/kg	44.0	76	80.4	117	119	96	94	75-125	2	20
Cadmium	mg/kg	0.19	76	80.4	67.5	68.3	89	85	75-125	1	20
Chromium	mg/kg	11.6	76	80.4	80.2	80.4	90	86	75-125	0	20
Lead	mg/kg	78.8	76	80.4	87.2	89.8	11	14	75-125	3	20 M1
Selenium	mg/kg	<1.5	76	80.4	63.2	64.6	83	80	75-125	2	20
Silver	mg/kg	<0.41	38	40.2	34.1	35.7	89	88	75-125	5	20

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

QC Batch: 452858

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 10372630001, 10372630002, 10372630003, 10372630004, 10372630005, 10372630006, 10372630007, 10372630008, 10372630009, 10372630010, 10372630011, 10372630012, 10372630013, 10372630014

SAMPLE DUPLICATE: 2478734

Parameter	Units	10372630001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	41.3	38.5	7	30	

SAMPLE DUPLICATE: 2478735

Parameter	Units	10372645006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	33.3	32.8	2	30	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

QC Batch: 452875

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 10372630016

SAMPLE DUPLICATE: 2479124

Parameter	Units	10372645008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	23.4	24.1	3	30	

SAMPLE DUPLICATE: 2479137

Parameter	Units	10372649007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	44.8	46.7	4	30	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

QC Batch: 451007 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
 Associated Lab Samples: 10372630001, 10372630002, 10372630003, 10372630004, 10372630005, 10372630006, 10372630007,  
 10372630008, 10372630009, 10372630010, 10372630011, 10372630012, 10372630013, 10372630014,  
 10372630015

METHOD BLANK: 2469610

Matrix: Solid

Associated Lab Samples: 10372630001, 10372630002, 10372630003, 10372630004, 10372630005, 10372630006, 10372630007,  
 10372630008, 10372630009, 10372630010, 10372630011, 10372630012, 10372630013, 10372630014,  
 10372630015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/09/16 18:33	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/09/16 18:33	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/09/16 18:33	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/09/16 18:33	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/09/16 18:33	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/09/16 18:33	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/09/16 18:33	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/09/16 18:33	
1,2,3-Trichlorobenzene	ug/kg	<14.4	14.4	12/09/16 18:33	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/09/16 18:33	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/09/16 18:33	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/09/16 18:33	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/09/16 18:33	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/09/16 18:33	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/09/16 18:33	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/09/16 18:33	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/09/16 18:33	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/09/16 18:33	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/09/16 18:33	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/09/16 18:33	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/09/16 18:33	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/09/16 18:33	
2-Butanone (MEK)	ug/kg	<220	220	12/09/16 18:33	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/09/16 18:33	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/09/16 18:33	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/09/16 18:33	
Acetone	ug/kg	<1090	1090	12/09/16 18:33	
Allyl chloride	ug/kg	<143	143	12/09/16 18:33	
Benzene	ug/kg	<14.4	14.4	12/09/16 18:33	
Bromobenzene	ug/kg	<42.6	42.6	12/09/16 18:33	
Bromochloromethane	ug/kg	<49.6	49.6	12/09/16 18:33	
Bromodichloromethane	ug/kg	<46.6	46.6	12/09/16 18:33	
Bromoform	ug/kg	<144	144	12/09/16 18:33	
Bromomethane	ug/kg	<169	169	12/09/16 18:33	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/09/16 18:33	
Chlorobenzene	ug/kg	<29.0	29.0	12/09/16 18:33	
Chloroethane	ug/kg	<263	263	12/09/16 18:33	
Chloroform	ug/kg	<80.9	80.9	12/09/16 18:33	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

METHOD BLANK: 2469610

Matrix: Solid

Associated Lab Samples: 10372630001, 10372630002, 10372630003, 10372630004, 10372630005, 10372630006, 10372630007, 10372630008, 10372630009, 10372630010, 10372630011, 10372630012, 10372630013, 10372630014, 10372630015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/kg	<80.6	80.6	12/09/16 18:33	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/09/16 18:33	
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/09/16 18:33	
Dibromochloromethane	ug/kg	<143	143	12/09/16 18:33	
Dibromomethane	ug/kg	<64.9	64.9	12/09/16 18:33	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/09/16 18:33	
Dichlorofluoromethane	ug/kg	<456	456	12/09/16 18:33	
Diethyl ether (Ethyl ether)	ug/kg	<68.6	68.6	12/09/16 18:33	
Ethylbenzene	ug/kg	<52.9	52.9	12/09/16 18:33	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/09/16 18:33	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/09/16 18:33	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/09/16 18:33	
Methylene Chloride	ug/kg	<308	308	12/09/16 18:33	
n-Butylbenzene	ug/kg	<40.3	40.3	12/09/16 18:33	
n-Propylbenzene	ug/kg	<49.6	49.6	12/09/16 18:33	
Naphthalene	ug/kg	<40.3	40.3	12/09/16 18:33	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/09/16 18:33	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/09/16 18:33	
Styrene	ug/kg	<43.3	43.3	12/09/16 18:33	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/09/16 18:33	
Tetrachloroethene	ug/kg	<63.6	63.6	12/09/16 18:33	
Tetrahydrofuran	ug/kg	<826	826	12/09/16 18:33	
Toluene	ug/kg	<52.9	52.9	12/09/16 18:33	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/09/16 18:33	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/09/16 18:33	
Trichloroethene	ug/kg	<47.6	47.6	12/09/16 18:33	
Trichlorofluoromethane	ug/kg	<167	167	12/09/16 18:33	
Vinyl chloride	ug/kg	<21.4	21.4	12/09/16 18:33	
Xylene (Total)	ug/kg	<133	133	12/09/16 18:33	
1,2-Dichloroethane-d4 (S)	%	94	75-129	12/09/16 18:33	
4-Bromofluorobenzene (S)	%	96	75-125	12/09/16 18:33	
Toluene-d8 (S)	%	98	75-125	12/09/16 18:33	

LABORATORY CONTROL SAMPLE: 2469611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	938	94	71-127	
1,1,1-Trichloroethane	ug/kg	1000	949	95	64-132	
1,1,2,2-Tetrachloroethane	ug/kg	1000	887	89	50-138	
1,1,2-Trichloroethane	ug/kg	1000	881	88	69-126	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	907	91	53-144	
1,1-Dichloroethane	ug/kg	1000	911	91	61-134	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

LABORATORY CONTROL SAMPLE: 2469611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	1000	918	92	57-135	
1,1-Dichloropropene	ug/kg	1000	991	99	59-133	
1,2,3-Trichlorobenzene	ug/kg	1000	897	90	32-150	
1,2,3-Trichloropropane	ug/kg	1000	889	89	62-130	
1,2,4-Trichlorobenzene	ug/kg	1000	966	97	38-138	
1,2,4-Trimethylbenzene	ug/kg	1000	942	94	70-127	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2000	80	40-141	
1,2-Dibromoethane (EDB)	ug/kg	1000	873	87	69-130	
1,2-Dichlorobenzene	ug/kg	1000	944	94	72-125	
1,2-Dichloroethane	ug/kg	1000	875	88	62-125	
1,2-Dichloropropane	ug/kg	1000	965	97	67-126	
1,3,5-Trimethylbenzene	ug/kg	1000	937	94	71-129	
1,3-Dichlorobenzene	ug/kg	1000	942	94	72-126	
1,3-Dichloropropane	ug/kg	1000	939	94	70-125	
1,4-Dichlorobenzene	ug/kg	1000	930	93	70-126	
2,2-Dichloropropane	ug/kg	1000	927	93	48-134	
2-Butanone (MEK)	ug/kg	5000	3990	80	38-149	
2-Chlorotoluene	ug/kg	1000	896	90	71-129	
4-Chlorotoluene	ug/kg	1000	971	97	72-128	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4310	86	52-145	
Acetone	ug/kg	5000	4900	98	65-142	
Allyl chloride	ug/kg	1000	886	89	54-125	
Benzene	ug/kg	1000	950	95	64-125	
Bromobenzene	ug/kg	1000	909	91	70-125	
Bromochloromethane	ug/kg	1000	951	95	68-125	
Bromodichloromethane	ug/kg	1000	975	98	67-125	
Bromoform	ug/kg	1000	801	80	56-127	
Bromomethane	ug/kg	1000	940	94	34-137	
Carbon tetrachloride	ug/kg	1000	924	92	58-138	
Chlorobenzene	ug/kg	1000	904	90	72-125	
Chloroethane	ug/kg	1000	805	80	39-148	
Chloroform	ug/kg	1000	854	85	67-125	
Chloromethane	ug/kg	1000	800	80	54-125	
cis-1,2-Dichloroethene	ug/kg	1000	911	91	67-125	
cis-1,3-Dichloropropene	ug/kg	1000	943	94	62-127	
Dibromochloromethane	ug/kg	1000	870	87	67-125	
Dibromomethane	ug/kg	1000	957	96	63-129	
Dichlorodifluoromethane	ug/kg	1000	594	59	34-139	
Dichlorofluoromethane	ug/kg	1000	744	74	36-144	
Diethyl ether (Ethyl ether)	ug/kg	1000	778	78	51-125	
Ethylbenzene	ug/kg	1000	936	94	70-129	
Hexachloro-1,3-butadiene	ug/kg	1000	1010	101	48-126	
Isopropylbenzene (Cumene)	ug/kg	1000	940	94	75-127	
Methyl-tert-butyl ether	ug/kg	1000	968	97	61-125	
Methylene Chloride	ug/kg	1000	965	97	60-126	
n-Butylbenzene	ug/kg	1000	985	98	67-125	
n-Propylbenzene	ug/kg	1000	963	96	72-133	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

LABORATORY CONTROL SAMPLE: 2469611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	1000	815	81	35-147	
p-Isopropyltoluene	ug/kg	1000	945	95	69-127	
sec-Butylbenzene	ug/kg	1000	994	99	70-127	
Styrene	ug/kg	1000	922	92	73-125	
tert-Butylbenzene	ug/kg	1000	1000	100	71-130	
Tetrachloroethene	ug/kg	1000	1050	105	66-135	
Tetrahydrofuran	ug/kg	10000	9140	91	66-145	
Toluene	ug/kg	1000	972	97	69-125	
trans-1,2-Dichloroethene	ug/kg	1000	981	98	55-135	
trans-1,3-Dichloropropene	ug/kg	1000	924	92	67-125	
Trichloroethene	ug/kg	1000	1030	103	62-141	
Trichlorofluoromethane	ug/kg	1000	825	83	38-150	
Vinyl chloride	ug/kg	1000	937	94	57-131	
Xylene (Total)	ug/kg	3000	2830	94	73-128	
1,2-Dichloroethane-d4 (S)	%			93	75-129	
4-Bromofluorobenzene (S)	%			97	75-125	
Toluene-d8 (S)	%			97	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2469612 2469613

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual	
		10372636019 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1,2-Tetrachloroethane	ug/kg		1520	2110	1610	2290	106	108	59-135	35	30	R1
1,1,1-Trichloroethane	ug/kg		1520	2110	1580	2130	104	101	51-137	30	30	
1,1,1,2-Tetrachloroethane	ug/kg		1520	2110	1610	2140	106	101	40-149	28	30	
1,1,2-Trichloroethane	ug/kg		1520	2110	1500	2110	99	100	54-144	34	30	R1
1,1,2-Trichlorotrifluoroethane	ug/kg		1520	2110	1440	1830	95	87	41-150	23	30	
1,1-Dichloroethane	ug/kg		1520	2110	1570	2050	103	97	53-131	27	30	
1,1-Dichloroethene	ug/kg		1520	2110	1500	1890	99	90	41-133	23	30	
1,1-Dichloropropene	ug/kg		1520	2110	1630	2350	107	111	50-139	36	30	R1
1,2,3-Trichlorobenzene	ug/kg		1520	2110	1660	2160	107	101	52-150	26	30	
1,2,3-Trichloropropane	ug/kg		1520	2110	1590	2170	104	103	61-137	31	30	R1
1,2,4-Trichlorobenzene	ug/kg		1520	2110	1710	2130	111	100	52-142	22	30	
1,2,4-Trimethylbenzene	ug/kg	23.7	1520	2110	1550	2110	100	99	56-142	30	30	
1,2-Dibromo-3-chloropropane	ug/kg		3800	5270	4080	4850	108	92	47-143	17	30	
1,2-Dibromoethane (EDB)	ug/kg		1520	2110	1530	2260	101	107	57-136	39	30	R1
1,2-Dichlorobenzene	ug/kg		1520	2110	1620	2210	107	105	59-136	31	30	R1
1,2-Dichloroethane	ug/kg		1520	2110	1420	1970	93	93	52-133	32	30	R1
1,2-Dichloropropane	ug/kg		1520	2110	1650	2300	108	109	62-129	33	30	R1
1,3,5-Trimethylbenzene	ug/kg	<15.1	1520	2110	1600	2120	105	100	54-143	28	30	
1,3-Dichlorobenzene	ug/kg		1520	2110	1600	2150	105	102	60-137	29	30	
1,3-Dichloropropane	ug/kg		1520	2110	1560	2330	102	110	57-138	40	30	R1
1,4-Dichlorobenzene	ug/kg		1520	2110	1520	2140	100	102	51-132	34	30	R1
2,2-Dichloropropane	ug/kg		1520	2110	1510	2120	100	100	50-134	33	30	R1

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev

Project No.: 10372630

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2469612												2469613	
Parameter	Units	10372636019 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD			
2-Butanone (MEK)	ug/kg		7600	10600	7030	10300	92	98	46-125	38	30	R1	
2-Chlorotoluene	ug/kg		1520	2110	1500	2060	98	98	60-141	32	30	R1	
4-Chlorotoluene	ug/kg		1520	2110	1580	2170	104	103	65-135	32	30	R1	
4-Methyl-2-pentanone (MIBK)	ug/kg		7600	10600	7580	10400	100	99	47-146	32	30	R1	
Acetone	ug/kg		7600	10600	9250	11300	122	107	45-148	20	30		
Allyl chloride	ug/kg		1520	2110	1460	1860	96	88	50-135	24	30		
Benzene	ug/kg	11.0J	1520	2110	1650	2250	108	106	41-134	31	30	R1	
Bromobenzene	ug/kg		1520	2110	1530	2100	101	100	59-134	32	30	R1	
Bromochloromethane	ug/kg		1520	2110	1580	2230	104	106	56-127	34	30	R1	
Bromodichloromethane	ug/kg		1520	2110	1560	1960	103	93	55-136	23	30		
Bromoform	ug/kg		1520	2110	1430	2060	94	97	51-139	36	30	R1	
Bromomethane	ug/kg		1520	2110	1330	1770	88	84	35-148	28	30		
Carbon tetrachloride	ug/kg		1520	2110	1570	2140	103	101	50-140	31	30	R1	
Chlorobenzene	ug/kg		1520	2110	1530	2190	100	104	59-133	36	30	R1	
Chloroethane	ug/kg		1520	2110	1330	1620	87	77	30-150	20	30		
Chloroform	ug/kg		1520	2110	1460	2000	96	94	58-128	31	30	R1	
Chloromethane	ug/kg		1520	2110	1200	1590	79	75	38-125	27	30		
cis-1,2-Dichloroethene	ug/kg		1520	2110	1520	2240	100	106	59-125	38	30	R1	
cis-1,3-Dichloropropene	ug/kg		1520	2110	1410	1910	93	91	57-133	30	30		
Dibromochloromethane	ug/kg		1520	2110	1540	2170	101	103	54-141	34	30	R1	
Dibromomethane	ug/kg		1520	2110	1510	2110	100	100	53-134	33	30	R1	
Dichlorodifluoromethane	ug/kg		1520	2110	785	1070	52	51	30-125	31	30	R1	
Dichlorofluoromethane	ug/kg		1520	2110	1230	1620	81	77	30-150	27	30		
Diethyl ether (Ethyl ether)	ug/kg		1520	2110	1270	1680	84	80	46-137	28	30		
Ethylbenzene	ug/kg	<20.8	1520	2110	1610	2240	105	105	56-141	32	30	R1	
Hexachloro-1,3-butadiene	ug/kg		1520	2110	1730	2180	114	103	45-150	23	30		
Isopropylbenzene (Cumene)	ug/kg		1520	2110	1540	2240	102	106	48-141	37	30	R1	
Methyl-tert-butyl ether	ug/kg	<12.3	1520	2110	1720	2180	113	103	53-133	24	30		
Methylene Chloride	ug/kg		1520	2110	1580	2060	103	97	42-135	27	30		
n-Butylbenzene	ug/kg		1520	2110	1620	2220	107	105	52-140	31	30	R1	
n-Propylbenzene	ug/kg		1520	2110	1560	2140	102	101	57-142	31	30	R1	
Naphthalene	ug/kg	25.8J	1520	2110	1590	2150	103	100	41-150	30	30		
p-Isopropyltoluene	ug/kg		1520	2110	1530	2140	101	102	54-139	33	30	R1	
sec-Butylbenzene	ug/kg		1520	2110	1640	2250	108	106	30-150	31	30	R1	
Styrene	ug/kg		1520	2110	1510	2220	99	105	53-137	38	30	R1	
tert-Butylbenzene	ug/kg		1520	2110	1590	2200	104	104	59-138	32	30	R1	
Tetrachloroethene	ug/kg		1520	2110	1680	2350	111	111	53-138	33	30	R1	
Tetrahydrofuran	ug/kg		15200	21100	16700	24300	110	115	50-145	37	30	R1	
Toluene	ug/kg	28.7J	1520	2110	1580	2300	102	108	55-134	37	30	R1	
trans-1,2-Dichloroethene	ug/kg		1520	2110	1710	2110	112	100	44-135	21	30		
trans-1,3-Dichloropropene	ug/kg		1520	2110	1640	2240	108	106	59-139	31	30	R1	
Trichloroethene	ug/kg		1520	2110	1680	2200	110	104	52-143	27	30		
Trichlorofluoromethane	ug/kg		1520	2110	1370	1810	90	86	30-150	28	30		
Vinyl chloride	ug/kg		1520	2110	1370	1770	90	84	36-127	25	30		
Xylene (Total)	ug/kg	<52.4	4560	6330	4780	6660	105	105	56-137	33	30	RS	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

Parameter	Units	2469612		2469613		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
1,2-Dichloroethane-d4 (S)	%.					94	94	75-129			
4-Bromofluorobenzene (S)	%.					96	97	75-125			
Toluene-d8 (S)	%.					94	101	75-125			

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev  
Pace Project No.: 10372630

QC Batch: 451488 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10372630016

METHOD BLANK: 2472076 Matrix: Solid  
Associated Lab Samples: 10372630016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/13/16 18:01	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/13/16 18:01	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/13/16 18:01	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/13/16 18:01	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/13/16 18:01	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/13/16 18:01	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/13/16 18:01	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/13/16 18:01	
1,2,3-Trichlorobenzene	ug/kg	15.5	14.4	12/13/16 18:01	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/13/16 18:01	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/13/16 18:01	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/13/16 18:01	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/13/16 18:01	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/13/16 18:01	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/13/16 18:01	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/13/16 18:01	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/13/16 18:01	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/13/16 18:01	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/13/16 18:01	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/13/16 18:01	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/13/16 18:01	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/13/16 18:01	
2-Butanone (MEK)	ug/kg	<220	220	12/13/16 18:01	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/13/16 18:01	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/13/16 18:01	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/13/16 18:01	
Acetone	ug/kg	<1090	1090	12/13/16 18:01	
Allyl chloride	ug/kg	<143	143	12/13/16 18:01	
Benzene	ug/kg	<14.4	14.4	12/13/16 18:01	
Bromobenzene	ug/kg	<42.6	42.6	12/13/16 18:01	
Bromochloromethane	ug/kg	<49.6	49.6	12/13/16 18:01	
Bromodichloromethane	ug/kg	<46.6	46.6	12/13/16 18:01	
Bromoform	ug/kg	<144	144	12/13/16 18:01	
Bromomethane	ug/kg	<169	169	12/13/16 18:01	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/13/16 18:01	
Chlorobenzene	ug/kg	<29.0	29.0	12/13/16 18:01	
Chloroethane	ug/kg	<263	263	12/13/16 18:01	
Chloroform	ug/kg	<80.9	80.9	12/13/16 18:01	
Chloromethane	ug/kg	<80.6	80.6	12/13/16 18:01	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/13/16 18:01	
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/13/16 18:01	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

METHOD BLANK: 2472076

Matrix: Solid

Associated Lab Samples: 10372630016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<143	143	12/13/16 18:01	
Dibromomethane	ug/kg	<64.9	64.9	12/13/16 18:01	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/13/16 18:01	
Dichlorofluoromethane	ug/kg	<456	456	12/13/16 18:01	
Diethyl ether (Ethyl ether)	ug/kg	<68.6	68.6	12/13/16 18:01	
Ethylbenzene	ug/kg	<52.9	52.9	12/13/16 18:01	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/13/16 18:01	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/13/16 18:01	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/13/16 18:01	
Methylene Chloride	ug/kg	<308	308	12/13/16 18:01	
n-Butylbenzene	ug/kg	<40.3	40.3	12/13/16 18:01	
n-Propylbenzene	ug/kg	<49.6	49.6	12/13/16 18:01	
Naphthalene	ug/kg	<40.3	40.3	12/13/16 18:01	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/13/16 18:01	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/13/16 18:01	
Styrene	ug/kg	<43.3	43.3	12/13/16 18:01	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/13/16 18:01	
Tetrachloroethene	ug/kg	<63.6	63.6	12/13/16 18:01	
Tetrahydrofuran	ug/kg	<826	826	12/13/16 18:01	
Toluene	ug/kg	<52.9	52.9	12/13/16 18:01	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/13/16 18:01	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/13/16 18:01	
Trichloroethene	ug/kg	<47.6	47.6	12/13/16 18:01	
Trichlorofluoromethane	ug/kg	<167	167	12/13/16 18:01	
Vinyl chloride	ug/kg	<21.4	21.4	12/13/16 18:01	
Xylene (Total)	ug/kg	<133	133	12/13/16 18:01	
1,2-Dichloroethane-d4 (S)	%	87	75-129	12/13/16 18:01	
4-Bromofluorobenzene (S)	%	99	75-125	12/13/16 18:01	
Toluene-d8 (S)	%	100	75-125	12/13/16 18:01	

LABORATORY CONTROL SAMPLE & LCSD: 2472077

2472078

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	784	979	78	98	71-127	22	20	R1
1,1,1-Trichloroethane	ug/kg	1000	792	986	79	99	64-132	22	20	R1
1,1,2,2-Tetrachloroethane	ug/kg	1000	819	919	82	92	50-138	12	20	
1,1,2-Trichloroethane	ug/kg	1000	813	982	81	98	69-126	19	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	824	1010	82	101	53-144	20	20	
1,1-Dichloroethane	ug/kg	1000	904	1060	90	106	61-134	16	20	
1,1-Dichloroethene	ug/kg	1000	827	994	83	99	57-135	18	20	
1,1-Dichloropropene	ug/kg	1000	909	1120	91	112	59-133	20	20	
1,2,3-Trichlorobenzene	ug/kg	1000	727	936	73	94	32-150	25	20	R1
1,2,3-Trichloropropane	ug/kg	1000	758	864	76	86	62-130	13	20	
1,2,4-Trichlorobenzene	ug/kg	1000	759	920	76	92	38-138	19	20	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

LABORATORY CONTROL SAMPLE & LCSD: 2472077

2472078

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	792	951	79	95	70-127	18	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1600	1850	64	74	40-141	15	20	
1,2-Dibromoethane (EDB)	ug/kg	1000	783	914	78	91	69-130	15	20	
1,2-Dichlorobenzene	ug/kg	1000	822	979	82	98	72-125	17	20	
1,2-Dichloroethane	ug/kg	1000	715	877	71	88	62-125	20	20	
1,2-Dichloropropane	ug/kg	1000	921	1120	92	112	67-126	19	20	
1,3,5-Trimethylbenzene	ug/kg	1000	808	981	81	98	71-129	19	20	
1,3-Dichlorobenzene	ug/kg	1000	824	971	82	97	72-126	16	20	
1,3-Dichloropropane	ug/kg	1000	818	1000	82	100	70-125	20	20	
1,4-Dichlorobenzene	ug/kg	1000	789	955	79	96	70-126	19	20	
2,2-Dichloropropane	ug/kg	1000	801	991	80	99	48-134	21	20	R1
2-Butanone (MEK)	ug/kg	5000	3670	4030	73	81	38-149	10	20	
2-Chlorotoluene	ug/kg	1000	754	937	75	94	71-129	22	20	R1
4-Chlorotoluene	ug/kg	1000	819	978	82	98	72-128	18	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	3740	4380	75	88	52-145	16	20	
Acetone	ug/kg	5000	4800	5790	96	116	65-142	19	20	
Allyl chloride	ug/kg	1000	788	986	79	99	54-125	22	20	R1
Benzene	ug/kg	1000	896	1080	90	108	64-125	19	20	
Bromobenzene	ug/kg	1000	774	962	77	96	70-125	22	20	R1
Bromochloromethane	ug/kg	1000	899	1050	90	105	68-125	15	20	
Bromodichloromethane	ug/kg	1000	795	937	79	94	67-125	16	20	
Bromoform	ug/kg	1000	615	748	61	75	56-127	20	20	
Bromomethane	ug/kg	1000	686	755	69	76	34-137	10	20	
Carbon tetrachloride	ug/kg	1000	782	927	78	93	58-138	17	20	
Chlorobenzene	ug/kg	1000	824	979	82	98	72-125	17	20	
Chloroethane	ug/kg	1000	765	698	77	70	39-148	9	20	
Chloroform	ug/kg	1000	790	945	79	95	67-125	18	20	
Chloromethane	ug/kg	1000	629	698	63	70	54-125	10	20	
cis-1,2-Dichloroethene	ug/kg	1000	875	1070	88	107	67-125	20	20	
cis-1,3-Dichloropropene	ug/kg	1000	820	1000	82	100	62-127	20	20	
Dibromochloromethane	ug/kg	1000	727	893	73	89	67-125	20	20	
Dibromomethane	ug/kg	1000	802	946	80	95	63-129	16	20	
Dichlorodifluoromethane	ug/kg	1000	461	497	46	50	34-139	7	20	
Dichlorofluoromethane	ug/kg	1000	662	677	66	68	36-144	2	20	
Diethyl ether (Ethyl ether)	ug/kg	1000	706	846	71	85	51-125	18	20	
Ethylbenzene	ug/kg	1000	823	997	82	100	70-129	19	20	
Hexachloro-1,3-butadiene	ug/kg	1000	813	1010	81	101	48-126	21	20	R1
Isopropylbenzene (Cumene)	ug/kg	1000	810	1010	81	101	75-127	22	20	R1
Methyl-tert-butyl ether	ug/kg	1000	809	954	81	95	61-125	16	20	
Methylene Chloride	ug/kg	1000	808	1010	81	101	60-126	22	20	R1
n-Butylbenzene	ug/kg	1000	801	995	80	99	67-125	22	20	R1
n-Propylbenzene	ug/kg	1000	812	991	81	99	72-133	20	20	
Naphthalene	ug/kg	1000	734	846	73	85	35-147	14	20	
p-Isopropyltoluene	ug/kg	1000	786	956	79	96	69-127	20	20	
sec-Butylbenzene	ug/kg	1000	809	1030	81	103	70-127	24	20	R1
Styrene	ug/kg	1000	796	987	80	99	73-125	21	20	R1
tert-Butylbenzene	ug/kg	1000	819	980	82	98	71-130	18	20	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

LABORATORY CONTROL SAMPLE & LCSD: 2472077

2472078

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/kg	1000	843	1070	84	107	66-135	23	20	R1
Tetrahydrofuran	ug/kg	10000	9510	11400	95	114	66-145	18	20	
Toluene	ug/kg	1000	882	1070	88	107	69-125	19	20	
trans-1,2-Dichloroethene	ug/kg	1000	873	1090	87	109	55-135	22	20	R1
trans-1,3-Dichloropropene	ug/kg	1000	782	984	78	98	67-125	23	20	R1
Trichloroethene	ug/kg	1000	900	1070	90	107	62-141	17	20	
Trichlorofluoromethane	ug/kg	1000	887	831	89	83	38-150	7	20	
Vinyl chloride	ug/kg	1000	776	834	78	83	57-131	7	20	
Xylene (Total)	ug/kg	3000	2470	3090	82	103	73-128	22	20	RS
1,2-Dichloroethane-d4 (S)	%				86	85	75-129			
4-Bromofluorobenzene (S)	%				98	99	75-125			
Toluene-d8 (S)	%				99	102	75-125			

MATRIX SPIKE SAMPLE: 2472079

Parameter	Units	10372957001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1040	1060	102	59-135	
1,1,1-Trichloroethane	ug/kg	ND	1040	1030	99	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1040	1030	99	40-149	
1,1,2-Trichloroethane	ug/kg	ND	1040	1070	103	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1040	1010	97	41-150	
1,1-Dichloroethane	ug/kg	ND	1040	1170	113	53-131	
1,1-Dichloroethene	ug/kg	ND	1040	1040	100	41-133	
1,1-Dichloropropene	ug/kg	ND	1040	1180	114	50-139	
1,2,3-Trichlorobenzene	ug/kg	ND	1040	1040	100	52-150	
1,2,3-Trichloropropane	ug/kg	ND	1040	1060	102	61-137	
1,2,4-Trichlorobenzene	ug/kg	ND	1040	1050	101	52-142	
1,2,4-Trimethylbenzene	ug/kg	ND	1040	1060	101	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2600	2410	92	47-143	
1,2-Dibromoethane (EDB)	ug/kg	ND	1040	1070	103	57-136	
1,2-Dichlorobenzene	ug/kg	ND	1040	1090	105	59-136	
1,2-Dichloroethane	ug/kg	ND	1040	935	90	52-133	
1,2-Dichloropropane	ug/kg	ND	1040	1230	118	62-129	
1,3,5-Trimethylbenzene	ug/kg	ND	1040	1080	104	54-143	
1,3-Dichlorobenzene	ug/kg	ND	1040	1070	103	60-137	
1,3-Dichloropropane	ug/kg	ND	1040	1120	108	57-138	
1,4-Dichlorobenzene	ug/kg	ND	1040	1040	100	51-132	
2,2-Dichloropropane	ug/kg	ND	1040	1020	98	50-134	
2-Butanone (MEK)	ug/kg	ND	5200	5840	112	46-125	
2-Chlorotoluene	ug/kg	ND	1040	1020	98	60-141	
4-Chlorotoluene	ug/kg	ND	1040	1080	103	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5200	5680	109	47-146	
Acetone	ug/kg	ND	5200	6250	120	45-148	
Allyl chloride	ug/kg	ND	1040	1060	102	50-135	
Benzene	ug/kg	ND	1040	1200	115	41-134	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

MATRIX SPIKE SAMPLE: 2472079		10372957001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromobenzene	ug/kg	ND	1040	1050	101	59-134	
Bromochloromethane	ug/kg	ND	1040	1190	114	56-127	
Bromodichloromethane	ug/kg	ND	1040	1010	97	55-136	
Bromoform	ug/kg	ND	1040	881	85	51-139	
Bromomethane	ug/kg	ND	1040	765	74	35-148	
Carbon tetrachloride	ug/kg	ND	1040	987	95	50-140	
Chlorobenzene	ug/kg	ND	1040	1080	103	59-133	
Chloroethane	ug/kg	ND	1040	748	72	30-150	
Chloroform	ug/kg	ND	1040	1020	98	58-128	
Chloromethane	ug/kg	ND	1040	745	72	38-125	
cis-1,2-Dichloroethene	ug/kg	ND	1040	1180	113	59-125	
cis-1,3-Dichloropropene	ug/kg	ND	1040	1090	105	57-133	
Dibromochloromethane	ug/kg	ND	1040	1000	96	54-141	
Dibromomethane	ug/kg	ND	1040	1050	101	53-134	
Dichlorodifluoromethane	ug/kg	ND	1040	453	44	30-125	
Dichlorofluoromethane	ug/kg	ND	1040	735	71	30-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	1040	909	87	46-137	
Ethylbenzene	ug/kg	ND	1040	1080	104	56-141	
Hexachloro-1,3-butadiene	ug/kg	ND	1040	1180	114	45-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1040	1090	105	48-141	
Methyl-tert-butyl ether	ug/kg	ND	1040	1110	107	53-133	
Methylene Chloride	ug/kg	ND	1040	1060	100	42-135	
n-Butylbenzene	ug/kg	ND	1040	1110	107	52-140	
n-Propylbenzene	ug/kg	ND	1040	1090	105	57-142	
Naphthalene	ug/kg	ND	1040	1080	103	41-150	
p-Isopropyltoluene	ug/kg	ND	1040	1050	101	54-139	
sec-Butylbenzene	ug/kg	ND	1040	1150	110	30-150	
Styrene	ug/kg	ND	1040	1090	104	53-137	
tert-Butylbenzene	ug/kg	ND	1040	1090	105	59-138	
Tetrachloroethene	ug/kg	ND	1040	1150	111	53-138	
Tetrahydrofuran	ug/kg	ND	10400	12000	115	50-145	
Toluene	ug/kg	ND	1040	1180	113	55-134	
trans-1,2-Dichloroethene	ug/kg	ND	1040	1150	110	44-135	
trans-1,3-Dichloropropene	ug/kg	ND	1040	1060	102	59-139	
Trichloroethene	ug/kg	ND	1040	1240	119	52-143	
Trichlorofluoromethane	ug/kg	ND	1040	798	77	30-150	
Vinyl chloride	ug/kg	ND	1040	888	85	36-127	
Xylene (Total)	ug/kg	ND	3130	3360	108	56-137	
1,2-Dichloroethane-d4 (S)	%				88	75-129	
4-Bromofluorobenzene (S)	%				100	75-125	
Toluene-d8 (S)	%				99	75-125	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

SAMPLE DUPLICATE: 2472122

Parameter	Units	10372957003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	<21.3		30	
1,1,1-Trichloroethane	ug/kg	ND	<22.4		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	<11.9		30	
1,1,2-Trichloroethane	ug/kg	ND	<11.6		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	<129		30	
1,1-Dichloroethane	ug/kg	ND	<20.8		30	
1,1-Dichloroethene	ug/kg	ND	<13.6		30	
1,1-Dichloropropene	ug/kg	ND	<16.2		30	
1,2,3-Trichlorobenzene	ug/kg	ND	<15.5		30	
1,2,3-Trichloropropane	ug/kg	ND	<55.6		30	
1,2,4-Trichlorobenzene	ug/kg	ND	<16.5		30	
1,2,4-Trimethylbenzene	ug/kg	ND	<11.8		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	<105		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	<20.2		30	
1,2-Dichlorobenzene	ug/kg	ND	<10.4		30	
1,2-Dichloroethane	ug/kg	ND	<17.0		30	
1,2-Dichloropropane	ug/kg	ND	<18.6		30	
1,3,5-Trimethylbenzene	ug/kg	ND	<41.1		30	
1,3-Dichlorobenzene	ug/kg	ND	<15.8		30	
1,3-Dichloropropane	ug/kg	ND	<64.0		30	
1,4-Dichlorobenzene	ug/kg	ND	<51.9		30	
2,2-Dichloropropane	ug/kg	ND	<56.9		30	
2-Butanone (MEK)	ug/kg	ND	<236		30	
2-Chlorotoluene	ug/kg	ND	<49.4		30	
4-Chlorotoluene	ug/kg	ND	<46.9		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	<118		30	
Acetone	ug/kg	ND	<1170		30	
Allyl chloride	ug/kg	ND	<153		30	
Benzene	ug/kg	ND	<15.5		30	
Bromobenzene	ug/kg	ND	<45.8		30	
Bromochloromethane	ug/kg	ND	<53.3		30	
Bromodichloromethane	ug/kg	ND	<50.1		30	
Bromoform	ug/kg	ND	<154		30	
Bromomethane	ug/kg	ND	<181		30	
Carbon tetrachloride	ug/kg	ND	<56.2		30	
Chlorobenzene	ug/kg	ND	<31.1		30	
Chloroethane	ug/kg	ND	<283		30	
Chloroform	ug/kg	ND	<86.9		30	
Chloromethane	ug/kg	ND	<86.6		30	
cis-1,2-Dichloroethene	ug/kg	ND	<66.5		30	
cis-1,3-Dichloropropene	ug/kg	ND	<81.5		30	
Dibromochloromethane	ug/kg	ND	<153		30	
Dibromomethane	ug/kg	ND	<69.7		30	
Dichlorodifluoromethane	ug/kg	ND	<54.7		30	
Dichlorofluoromethane	ug/kg	ND	<490		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	<73.7		30	
Ethylbenzene	ug/kg	ND	<56.9		30	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

SAMPLE DUPLICATE: 2472122

Parameter	Units	10372957003 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	<168		30	
Isopropylbenzene (Cumene)	ug/kg	ND	<63.7		30	
Methyl-tert-butyl ether	ug/kg	ND	<33.5		30	
Methylene Chloride	ug/kg	ND	<331		30	
n-Butylbenzene	ug/kg	ND	<43.3		30	
n-Propylbenzene	ug/kg	ND	<53.3		30	
Naphthalene	ug/kg	ND	<43.3		30	
p-Isopropyltoluene	ug/kg	ND	<29.7		30	
sec-Butylbenzene	ug/kg	ND	<42.2		30	
Styrene	ug/kg	ND	<46.5		30	
tert-Butylbenzene	ug/kg	ND	<56.5		30	
Tetrachloroethene	ug/kg	ND	<68.3		30	
Tetrahydrofuran	ug/kg	ND	<887		30	
Toluene	ug/kg	ND	<56.9		30	
trans-1,2-Dichloroethene	ug/kg	ND	<86.2		30	
trans-1,3-Dichloropropene	ug/kg	ND	<60.8		30	
Trichloroethene	ug/kg	ND	<51.1		30	
Trichlorofluoromethane	ug/kg	ND	<180		30	
Vinyl chloride	ug/kg	ND	<23.0		30	
Xylene (Total)	ug/kg	ND	<143		30	
1,2-Dichloroethane-d4 (S)	%.	91	87	3		
4-Bromofluorobenzene (S)	%.	102	97	3		
Toluene-d8 (S)	%.	98	100	4		

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

QC Batch: 450987 Analysis Method: EPA 8270D by SIM  
 QC Batch Method: EPA 3550 Analysis Description: 8270D Solid PAH by SIM MSSV  
 Associated Lab Samples: 10372630001, 10372630002, 10372630003, 10372630004, 10372630005, 10372630006, 10372630007,  
 10372630008, 10372630009, 10372630010, 10372630012, 10372630013, 10372630014

METHOD BLANK: 2469470 Matrix: Solid  
 Associated Lab Samples: 10372630001, 10372630002, 10372630003, 10372630004, 10372630005, 10372630006, 10372630007,  
 10372630008, 10372630009, 10372630010, 10372630012, 10372630013, 10372630014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	<1.3	1.3	12/14/16 15:10	
Acenaphthylene	ug/kg	<0.91	0.91	12/14/16 15:10	
Anthracene	ug/kg	<1.5	1.5	12/14/16 15:10	
Benzo(a)anthracene	ug/kg	<1.6	1.6	12/14/16 15:10	
Benzo(a)pyrene	ug/kg	<1.2	1.2	12/14/16 15:10	
Benzo(b)fluoranthene	ug/kg	<1.9	1.9	12/14/16 15:10	
Benzo(g,h,i)perylene	ug/kg	<1.5	1.5	12/14/16 15:10	
Benzo(k)fluoranthene	ug/kg	<1.6	1.6	12/14/16 15:10	
Chrysene	ug/kg	<1.8	1.8	12/14/16 15:10	
Dibenz(a,h)anthracene	ug/kg	<1.1	1.1	12/14/16 15:10	
Fluoranthene	ug/kg	<2.6	2.6	12/14/16 15:10	
Fluorene	ug/kg	<1.3	1.3	12/14/16 15:10	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.5	2.5	12/14/16 15:10	
Naphthalene	ug/kg	<1.2	1.2	12/14/16 15:10	
Phenanthrene	ug/kg	<1.3	1.3	12/14/16 15:10	
Pyrene	ug/kg	<2.8	2.8	12/14/16 15:10	
2-Fluorobiphenyl (S)	%	60	41-125	12/14/16 15:10	
p-Terphenyl-d14 (S)	%	58	39-125	12/14/16 15:10	

LABORATORY CONTROL SAMPLE: 2469471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	33.3	23.8	71	53-125	
Acenaphthylene	ug/kg	33.3	23.1	69	50-125	
Anthracene	ug/kg	33.3	29.0	87	60-125	
Benzo(a)anthracene	ug/kg	33.3	21.2	64	63-125	
Benzo(a)pyrene	ug/kg	33.3	24.7	74	65-125	
Benzo(b)fluoranthene	ug/kg	33.3	21.0	63	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	24.2	73	62-125	
Benzo(k)fluoranthene	ug/kg	33.3	26.2	78	65-125	
Chrysene	ug/kg	33.3	25.4	76	62-125	
Dibenz(a,h)anthracene	ug/kg	33.3	24.3	73	61-125	
Fluoranthene	ug/kg	33.3	27.2	82	64-125	
Fluorene	ug/kg	33.3	23.7	71	57-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	24.5	74	61-125	
Naphthalene	ug/kg	33.3	25.1	75	52-125	
Phenanthrene	ug/kg	33.3	26.8	81	58-125	
Pyrene	ug/kg	33.3	22.2	67	65-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

LABORATORY CONTROL SAMPLE: 2469471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Fluorobiphenyl (S)	%.			74	41-125	
p-Terphenyl-d14 (S)	%.			67	39-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2469472 2469473

Parameter	Units	10372596001		MSD		MSD		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Acenaphthene	ug/kg	264	37.3	37.4	320	378	151	305	53-125	17	30	E,M1	
Acenaphthylene	ug/kg	70.2	37.3	37.4	97.9	106	74	95	50-125	8	30		
Anthracene	ug/kg	31.5	37.3	37.4	16.2	16.7	-41	-39	60-125	3	30	M1	
Benzo(a)anthracene	ug/kg	14.9	37.3	37.4	47.6	53.3	88	103	63-125	11	30		
Benzo(a)pyrene	ug/kg	ND	37.3	37.4	43.9	50.5	96	114	65-125	14	30		
Benzo(b)fluoranthene	ug/kg	ND	37.3	37.4	43.5	58.8	90	130	61-125	30	30	M1	
Benzo(g,h,i)perylene	ug/kg	ND	37.3	37.4	43.1	53.1	91	117	62-125	21	30		
Benzo(k)fluoranthene	ug/kg	ND	37.3	37.4	42.7	41.6	100	97	65-125	2	30		
Chrysene	ug/kg	20.1	37.3	37.4	60.4	64.3	108	118	62-125	6	30		
Dibenz(a,h)anthracene	ug/kg	ND	37.3	37.4	33.7	36.3	90	97	61-125	8	30		
Fluoranthene	ug/kg	58.6	37.3	37.4	103	118	118	158	64-125	14	30	M1	
Fluorene	ug/kg	420	37.3	37.4	522	558	273	368	57-125	7	30	E,M1	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	37.3	37.4	37.5	41.8	89	100	61-125	11	30		
Naphthalene	ug/kg	44.5	37.3	37.4	86.2	90.6	112	123	52-125	5	30		
Phenanthrene	ug/kg	220	37.3	37.4	339	312	319	246	58-125	8	30	M1	
Pyrene	ug/kg	95.9	37.3	37.4	147	183	136	234	65-125	22	30	M1	
2-Fluorobiphenyl (S)	%.						79	84	41-125				
p-Terphenyl-d14 (S)	%.						78	84	39-125				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev  
Pace Project No.: 10372630

QC Batch: 451475 Analysis Method: EPA 8270D by SIM  
QC Batch Method: EPA 3550 Analysis Description: 8270D Solid PAH by SIM MSSV  
Associated Lab Samples: 10372630016

METHOD BLANK: 2472037 Matrix: Solid  
Associated Lab Samples: 10372630016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	<1.3	1.3	12/18/16 19:41	
Acenaphthylene	ug/kg	<0.91	0.91	12/18/16 19:41	
Anthracene	ug/kg	<1.5	1.5	12/18/16 19:41	
Benzo(a)anthracene	ug/kg	<1.6	1.6	12/18/16 19:41	
Benzo(a)pyrene	ug/kg	<1.2	1.2	12/18/16 19:41	
Benzo(b)fluoranthene	ug/kg	<1.9	1.9	12/18/16 19:41	
Benzo(g,h,i)perylene	ug/kg	<1.5	1.5	12/18/16 19:41	
Benzo(k)fluoranthene	ug/kg	<1.6	1.6	12/18/16 19:41	
Chrysene	ug/kg	<1.8	1.8	12/18/16 19:41	
Dibenz(a,h)anthracene	ug/kg	<1.1	1.1	12/18/16 19:41	
Fluoranthene	ug/kg	<2.6	2.6	12/18/16 19:41	
Fluorene	ug/kg	<1.3	1.3	12/18/16 19:41	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.5	2.5	12/18/16 19:41	
Naphthalene	ug/kg	<1.2	1.2	12/18/16 19:41	
Phenanthrene	ug/kg	<1.3	1.3	12/18/16 19:41	
Pyrene	ug/kg	<2.8	2.8	12/18/16 19:41	
2-Fluorobiphenyl (S)	%	71	41-125	12/18/16 19:41	
p-Terphenyl-d14 (S)	%	89	39-125	12/18/16 19:41	

LABORATORY CONTROL SAMPLE: 2472038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	33.3	26.7	80	53-125	
Acenaphthylene	ug/kg	33.3	27.0	81	50-125	
Anthracene	ug/kg	33.3	29.6	89	60-125	
Benzo(a)anthracene	ug/kg	33.3	35.5	107	63-125	
Benzo(a)pyrene	ug/kg	33.3	37.9	114	65-125	
Benzo(b)fluoranthene	ug/kg	33.3	37.2	112	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	34.7	104	62-125	
Benzo(k)fluoranthene	ug/kg	33.3	37.7	113	65-125	
Chrysene	ug/kg	33.3	35.4	106	62-125	
Dibenz(a,h)anthracene	ug/kg	33.3	34.4	103	61-125	
Fluoranthene	ug/kg	33.3	40.6	122	64-125	
Fluorene	ug/kg	33.3	31.1	93	57-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	35.1	105	61-125	
Naphthalene	ug/kg	33.3	26.9	81	52-125	
Phenanthrene	ug/kg	33.3	31.9	96	58-125	
Pyrene	ug/kg	33.3	37.7	113	65-125	
2-Fluorobiphenyl (S)	%			76	41-125	
p-Terphenyl-d14 (S)	%			91	39-125	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

Parameter	Units	2472039		2472040		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Acenaphthene	ug/kg	415	42.4	42.4	683	379	633	-86	53-125	57	30	M6, R1	
Acenaphthylene	ug/kg	1750	42.4	42.4	1500	1300	-579	-1070	50-125	15	30	M6	
Anthracene	ug/kg	5250	42.4	42.4	5490	5280	558	61	60-125	4	30	E, M6	
Benzo(a)anthracene	ug/kg	8500	42.4	42.4	6170	5150	-5500	-7930	63-125	18	30	E, M6	
Benzo(a)pyrene	ug/kg	7380	42.4	42.4	5700	4880	-3970	-5910	65-125	16	30	E, M6	
Benzo(b)fluoranthene	ug/kg	7400	42.4	42.4	5970	5190	-3380	-5210	61-125	14	30	E, M6	
Benzo(g,h,i)perylene	ug/kg	2540	42.4	42.4	2050	1750	-1150	-1860	62-125	16	30	M6	
Benzo(k)fluoranthene	ug/kg	2820	42.4	42.4	2200	2370	-1480	-1070	65-125	8	30	M6	
Chrysene	ug/kg	8350	42.4	42.4	5670	4700	-6330	-8630	62-125	19	30	E, M6	
Dibenz(a,h)anthracene	ug/kg	1070	42.4	42.4	944	801	-300	-640	61-125	16	30	M6	
Fluoranthene	ug/kg	12400	42.4	42.4	9040	6880	-7970	-13100	64-125	27	30	E, M6	
Fluorene	ug/kg	838	42.4	42.4	1190	753	820	-203	57-125	45	30	M6, R1	
Indeno(1,2,3-cd)pyrene	ug/kg	2510	42.4	42.4	2040	1720	-1110	-1860	61-125	17	30	M6	
Naphthalene	ug/kg	136	42.4	42.4	128	<15.1	-19	-322	52-125		30	M6	
Phenanthrene	ug/kg	5720	42.4	42.4	5060	3310	-1560	-5700	58-125	42	30	E, M6, R1	
Pyrene	ug/kg	14700	42.4	42.4	9790	7720	-11500	-16400	65-125	24	30	E, M6	
2-Fluorobiphenyl (S)	%.						0	0	41-125			D4, S4	
p-Terphenyl-d14 (S)	%.						16	5	39-125			S4	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev  
Pace Project No.: 10372630

QC Batch: 452004 Analysis Method: EPA 8270D by SIM  
QC Batch Method: EPA 3550 Analysis Description: 8270D Solid PAH by SIM MSSV  
Associated Lab Samples: 10372630011

METHOD BLANK: 2474824 Matrix: Solid  
Associated Lab Samples: 10372630011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	<1.3	1.3	12/17/16 15:55	
Acenaphthylene	ug/kg	<0.91	0.91	12/17/16 15:55	
Anthracene	ug/kg	<1.5	1.5	12/17/16 15:55	
Benzo(a)anthracene	ug/kg	<1.6	1.6	12/17/16 15:55	
Benzo(a)pyrene	ug/kg	<1.2	1.2	12/17/16 15:55	
Benzo(b)fluoranthene	ug/kg	<1.9	1.9	12/17/16 15:55	
Benzo(g,h,i)perylene	ug/kg	<1.5	1.5	12/17/16 15:55	
Benzo(k)fluoranthene	ug/kg	<1.6	1.6	12/17/16 15:55	
Chrysene	ug/kg	<1.8	1.8	12/17/16 15:55	
Dibenz(a,h)anthracene	ug/kg	<1.1	1.1	12/17/16 15:55	
Fluoranthene	ug/kg	<2.6	2.6	12/17/16 15:55	
Fluorene	ug/kg	<1.3	1.3	12/17/16 15:55	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.5	2.5	12/17/16 15:55	
Naphthalene	ug/kg	<1.2	1.2	12/17/16 15:55	
Phenanthrene	ug/kg	<1.3	1.3	12/17/16 15:55	
Pyrene	ug/kg	<2.8	2.8	12/17/16 15:55	
2-Fluorobiphenyl (S)	%	80	41-125	12/17/16 15:55	
p-Terphenyl-d14 (S)	%	77	39-125	12/17/16 15:55	

LABORATORY CONTROL SAMPLE: 2474825

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	33.3	30.5	91	53-125	
Acenaphthylene	ug/kg	33.3	28.1	84	50-125	
Anthracene	ug/kg	33.3	31.2	94	60-125	
Benzo(a)anthracene	ug/kg	33.3	21.1	63	63-125	
Benzo(a)pyrene	ug/kg	33.3	26.5	80	65-125	
Benzo(b)fluoranthene	ug/kg	33.3	21.5	65	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	26.2	79	62-125	
Benzo(k)fluoranthene	ug/kg	33.3	29.9	90	65-125	
Chrysene	ug/kg	33.3	28.8	86	62-125	
Dibenz(a,h)anthracene	ug/kg	33.3	25.7	77	61-125	
Fluoranthene	ug/kg	33.3	26.2	79	64-125	
Fluorene	ug/kg	33.3	30.6	92	57-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	27.0	81	61-125	
Naphthalene	ug/kg	33.3	29.0	87	52-125	
Phenanthrene	ug/kg	33.3	27.0	81	58-125	
Pyrene	ug/kg	33.3	25.9	78	65-125	
2-Fluorobiphenyl (S)	%			90	41-125	
p-Terphenyl-d14 (S)	%			76	39-125	

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### QUALITY CONTROL DATA

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

Parameter	Units	2474826		2474827		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		10373368001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Acenaphthene	ug/kg	ND	34.3	34.3	26.5	27.8	77	81	53-125	5	30		
Acenaphthylene	ug/kg	ND	34.3	34.3	25.5	27.0	74	79	50-125	6	30		
Anthracene	ug/kg	ND	34.3	34.3	29.6	27.6	86	80	60-125	7	30		
Benzo(a)anthracene	ug/kg	ND	34.3	34.3	32.7	23.0	95	67	63-125	35	30	R1	
Benzo(a)pyrene	ug/kg	ND	34.3	34.3	31.6	25.5	92	74	65-125	21	30		
Benzo(b)fluoranthene	ug/kg	ND	34.3	34.3	44.4	24.7	105	48	61-125	57	30	M1,R1	
Benzo(g,h,i)perylene	ug/kg	ND	34.3	34.3	41.8	25.6	97	50	62-125	48	30	M1,R1	
Benzo(k)fluoranthene	ug/kg	ND	34.3	34.3	34.8	28.8	101	84	65-125	19	30		
Chrysene	ug/kg	ND	34.3	34.3	33.4	23.8	97	69	62-125	34	30	R1	
Dibenz(a,h)anthracene	ug/kg	ND	34.3	34.3	25.0	22.7	73	66	61-125	10	30		
Fluoranthene	ug/kg	ND	34.3	34.3	44.2	27.9	113	66	64-125	45	30	R1	
Fluorene	ug/kg	ND	34.3	34.3	27.6	28.5	80	83	57-125	3	30		
Indeno(1,2,3-cd)pyrene	ug/kg	ND	34.3	34.3	35.5	24.9	87	57	61-125	35	30	M1,R1	
Naphthalene	ug/kg	ND	34.3	34.3	42.7	56.2	99	138	52-125	27	30	M1	
Phenanthrene	ug/kg	ND	34.3	34.3	46.7	34.7	115	80	58-125	29	30		
Pyrene	ug/kg	ND	34.3	34.3	41.6	26.2	105	60	65-125	46	30	M1,R1	
2-Fluorobiphenyl (S)	%.						80	83	41-125				
p-Terphenyl-d14 (S)	%.						62	65	39-125				

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## QUALIFIERS

Project: 2118-002 Superior MGP\_Rev

Pace Project No.: 10372630

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

### ANALYTE QUALIFIERS

CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

D4 Sample was diluted due to the presence of high levels of target analytes.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

R1 RPD value was outside control limits.

RS The RPD value in one of the constituent analytes was outside the control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2118-002 Superior MGP\_Rev  
Pace Project No.: 10372630

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10372630001	S11_17.5-18	EPA 3050	452778	EPA 6010C	452914
10372630002	S11_18-22.5	EPA 3050	452778	EPA 6010C	452914
10372630003	S11_22.5-25	EPA 3050	452778	EPA 6010C	452914
10372630004	S12_5-5.5	EPA 3050	452778	EPA 6010C	452914
10372630005	S12_20-24	EPA 3050	452778	EPA 6010C	452914
10372630006	S12_24-25	EPA 3050	452778	EPA 6010C	452914
10372630007	S13_14-18	EPA 3050	452778	EPA 6010C	452914
10372630008	S13_18-19	EPA 3050	452778	EPA 6010C	452914
10372630009	S13_21-24	EPA 3050	452778	EPA 6010C	452914
10372630010	S14_23-28	EPA 3050	452778	EPA 6010C	452914
10372630011	S14_28-30	EPA 3050	452778	EPA 6010C	452914
10372630012	S15_22-26	EPA 3050	452778	EPA 6010C	452914
10372630013	S16_21-22	EPA 3050	452778	EPA 6010C	452914
10372630014	S17_24-27	EPA 3050	452778	EPA 6010C	452914
10372630016	S16_21-22 (DUP)	EPA 3050	451147	EPA 6010C	452712
10372630001	S11_17.5-18	EPA 7471B	450975	EPA 7471B	452656
10372630002	S11_18-22.5	EPA 7471B	450975	EPA 7471B	452656
10372630003	S11_22.5-25	EPA 7471B	450975	EPA 7471B	452656
10372630004	S12_5-5.5	EPA 7471B	450975	EPA 7471B	452656
10372630005	S12_20-24	EPA 7471B	450975	EPA 7471B	452656
10372630006	S12_24-25	EPA 7471B	450975	EPA 7471B	452656
10372630007	S13_14-18	EPA 7471B	450975	EPA 7471B	452656
10372630008	S13_18-19	EPA 7471B	450975	EPA 7471B	452656
10372630009	S13_21-24	EPA 7471B	450975	EPA 7471B	452656
10372630010	S14_23-28	EPA 7471B	450975	EPA 7471B	452656
10372630011	S14_28-30	EPA 7471B	450975	EPA 7471B	452656
10372630012	S15_22-26	EPA 7471B	450975	EPA 7471B	452656
10372630013	S16_21-22	EPA 7471B	450975	EPA 7471B	452656
10372630014	S17_24-27	EPA 7471B	450975	EPA 7471B	452656
10372630016	S16_21-22 (DUP)	EPA 7471B	451149	EPA 7471B	452658
10372630001	S11_17.5-18	ASTM D2974	452858		
10372630002	S11_18-22.5	ASTM D2974	452858		
10372630003	S11_22.5-25	ASTM D2974	452858		
10372630004	S12_5-5.5	ASTM D2974	452858		
10372630005	S12_20-24	ASTM D2974	452858		
10372630006	S12_24-25	ASTM D2974	452858		
10372630007	S13_14-18	ASTM D2974	452858		
10372630008	S13_18-19	ASTM D2974	452858		
10372630009	S13_21-24	ASTM D2974	452858		
10372630010	S14_23-28	ASTM D2974	452858		
10372630011	S14_28-30	ASTM D2974	452858		
10372630012	S15_22-26	ASTM D2974	452858		
10372630013	S16_21-22	ASTM D2974	452858		
10372630014	S17_24-27	ASTM D2974	452858		
10372630016	S16_21-22 (DUP)	ASTM D2974	452875		
10372630001	S11_17.5-18	EPA 3550	450987	EPA 8270D by SIM	451809

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 2118-002 Superior MGP\_Rev  
Pace Project No.: 10372630

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10372630002	S11_18-22.5	EPA 3550	450987	EPA 8270D by SIM	451809
10372630003	S11_22.5-25	EPA 3550	450987	EPA 8270D by SIM	451809
10372630004	S12_5-5.5	EPA 3550	450987	EPA 8270D by SIM	451809
10372630005	S12_20-24	EPA 3550	450987	EPA 8270D by SIM	451809
10372630006	S12_24-25	EPA 3550	450987	EPA 8270D by SIM	451809
10372630007	S13_14-18	EPA 3550	450987	EPA 8270D by SIM	451809
10372630008	S13_18-19	EPA 3550	450987	EPA 8270D by SIM	451809
10372630009	S13_21-24	EPA 3550	450987	EPA 8270D by SIM	451809
10372630010	S14_23-28	EPA 3550	450987	EPA 8270D by SIM	451809
10372630011	S14_28-30	EPA 3550	452004	EPA 8270D by SIM	452276
10372630012	S15_22-26	EPA 3550	450987	EPA 8270D by SIM	451809
10372630013	S16_21-22	EPA 3550	450987	EPA 8270D by SIM	451809
10372630014	S17_24-27	EPA 3550	450987	EPA 8270D by SIM	451809
10372630016	S16_21-22 (DUP)	EPA 3550	451475	EPA 8270D by SIM	452305
10372630001	S11_17.5-18	EPA 5035/5030B	451007	EPA 8260B	451373
10372630002	S11_18-22.5	EPA 5035/5030B	451007	EPA 8260B	451373
10372630003	S11_22.5-25	EPA 5035/5030B	451007	EPA 8260B	451373
10372630004	S12_5-5.5	EPA 5035/5030B	451007	EPA 8260B	451373
10372630005	S12_20-24	EPA 5035/5030B	451007	EPA 8260B	451373
10372630006	S12_24-25	EPA 5035/5030B	451007	EPA 8260B	451373
10372630007	S13_14-18	EPA 5035/5030B	451007	EPA 8260B	451373
10372630008	S13_18-19	EPA 5035/5030B	451007	EPA 8260B	451373
10372630009	S13_21-24	EPA 5035/5030B	451007	EPA 8260B	451373
10372630010	S14_23-28	EPA 5035/5030B	451007	EPA 8260B	451373
10372630011	S14_28-30	EPA 5035/5030B	451007	EPA 8260B	451373
10372630012	S15_22-26	EPA 5035/5030B	451007	EPA 8260B	451373
10372630013	S16_21-22	EPA 5035/5030B	451007	EPA 8260B	451373
10372630014	S17_24-27	EPA 5035/5030B	451007	EPA 8260B	451373
10372630015	Trip Blank	EPA 5035/5030B	451007	EPA 8260B	451373
10372630016	S16_21-22 (DUP)	EPA 5035/5030B	451488	EPA 8260B	451676

**REPORT OF LABORATORY ANALYSIS**

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**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10392630  
Page: 1 of 2

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: Summit Environmental	Report To: B. Greff	Report To: B. Greff	Company Name: B. Greff	Attention: B. Greff	Company Name: B. Greff
Address:	Copy To:	Copy To:	Address:	Address:	Address:
Email To: b.greff@summitenv.com	Purchase Order No.:	Purchase Order No.:	Pace Order Reference:	Pace Order Reference:	Pace Order Reference:
Phone: [blank]	Project Name: Superior MGP	Project Name: Superior MGP	Pace Project Manager:	Pace Project Manager:	Pace Project Manager:
Requested Due Date/TAT: STA	Project Number: 218-0002	Project Number: 218-0002	Pace Profile #:	Pace Profile #:	Pace Profile #:

ITEM #	Section D Required Client Information	Matrix Codes MATRIX I CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test ↑ Y/N ↓	Requested Analysis Filtered (Y/N)				Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB							DATE	TIME	PAH	VOC	
1	S11 - 17.5-18	DW	12/7/16	9:30	S-G			3	Unpreserved	X	X	X	X	CU	
2	S11 - 18-22.5	WT	11/11	9:45										W2	
3	S11 - 22.5-25	WW		10:15										W3	
4	S12 - 5-5.5	P		10:30										W4	
5	S12 - 20-24	OL		10:50										W5	
6	S13 - 24-25	SL		11:15										W6	
7	S13 - 14-18	WP		12:00										W7	
8	S13 - 18-19	AR		12:15										W8	
9	S13 - 21-24	TS		13:00										W9	
10	S14 - 25-28	OT		14:20										010	
11	S14 - 28-30			14:30										011	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	Temp in °C	Received on	Sealed Cooler (Y/N)	Custody (Y/N)	Samples Intact (Y/N)
	Kyle Romanus/Summit	12/8/16	1530	Austina Polson	12/8/16	1530	Y	N	Y			
	Austina Polson	12/8/16	1545	[Signature]	12/8/16	1545	Y	N	Y			
	[Signature]	12/8/16	1835	Sumit Pace	12/8/16	1835	Y	N	Y			

**ORIGINAL**

SAMPLER NAME AND SIGNATURE: Kyle Romanus  
 PRINT Name of SAMPLER: Kyle Romanus  
 SIGNATURE of SAMPLER: [Signature]  
 DATE Signed (MM/DD/YY): 12/7/16



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A** Required Client Information: Company: Summit Address: \_\_\_\_\_  
**Section B** Required Project Information: Report To: B Gray Copy To: \_\_\_\_\_  
**Section C** Invoice Information: Attention: B Gray Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Pace Quote Reference: \_\_\_\_\_  
 Pace Project Manager: \_\_\_\_\_  
 Pace Profile #: 25777  
 Project Name: Summit MGP  
 Project Number: 2118-002  
 Regulatory Agency: \_\_\_\_\_  
 NPDES  Ground Water  Drinking Water  
 UST  RCRA  Other \_\_\_\_\_  
 Site Location: WI STATE: \_\_\_\_\_

Page: 2 of 2  
 2106174

ITEM #	Section D Required Client Information  Matrix Codes MATRIX / CODE Drinking Water DW Waste Water WT Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	Section B Matrix Code (see valid codes to left)	Section B Sample Type (G=Grab C=Comp)	Section B Collected		Section B # of Containers	Section B Preservatives	Section B Analysis Test ↑	Section B Requested Analysis Filtered (Y/N)	Section B Residual Chlorine (Y/N)	Section B Pace Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB						
1	S15-22-26			DATE: 12/16/14	TIME: 1445	5	Unpreserved	Analysis Test ↑			012
2	S16-21-22 (Dup)			DATE: 12/16/14	TIME: 1530	5	H <sub>2</sub> SO <sub>4</sub>				013
3	S17-24-27			DATE: 12/16/14	TIME: 1600	5	HCl				014
4							NaOH				
5							HNO <sub>3</sub>				
6							Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>				
7							Methanol				
8							Other				
9											
10											
11											
12											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Kyle Dennis/Summit	12/18/14	1500	Kristene Polson	12/18/14	1540	Y
	Kristene Polson	12/18/14	1545		12/18/14	1548	Y
		12/18/14	1835	Sumit/PACE	12/18/14	1835	Y

**Section B** Required Project Information: Report To: B Gray Copy To: \_\_\_\_\_  
**Section C** Invoice Information: Attention: B Gray Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Pace Quote Reference: \_\_\_\_\_  
 Pace Project Manager: \_\_\_\_\_  
 Pace Profile #: 25777  
 Project Name: Summit MGP  
 Project Number: 2118-002  
 Regulatory Agency: \_\_\_\_\_  
 NPDES  Ground Water  Drinking Water  
 UST  RCRA  Other \_\_\_\_\_  
 Site Location: WI STATE: \_\_\_\_\_

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Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

**Sample Condition Upon Receipt**      **Client Name:** SUMMIT      **Project #:** \_\_\_\_\_

WO#: 10372630

10372630

**Courier:**       Fed Ex       UPS       USPS       Client  
 Commercial       Pace       Speedee       Other: \_\_\_\_\_  
**Tracking Number:** \_\_\_\_\_

**Custody Seal on Cooler/Box Present?**  Yes     No      **Seals Intact?**  Yes     No      **Optional:** Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

**Packing Material:**  Bubble Wrap     Bubble Bags     None     Other: \_\_\_\_\_      **Temp Blank?**  Yes     No

**Thermometer Used:**  151401163     B88A912167504     B88A0143310098  
 151401164     B88A0143310098      **Type of Ice:**  Wet     Blue     None     Samples on ice, cooling process has begun

**Cooler Temp Read (°C):** 2.4      **Cooler Temp Corrected (°C):** 2.4      **Biological Tissue Frozen?**  Yes     No     N/A  
Temp should be above freezing to 6°C      **Correction Factor:** True      **Date and Initials of Person Examining Contents:** SMUP12/8/16

**USDA Regulated Soil** (  N/A, water sample)  
Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?     Yes     No      Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?     Yes     No  
**If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.**

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
<b>Short Hold Time Analysis (&lt;72 hr)?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
<b>Rush Turn Around Time Requested?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>See page 2</u>
-Includes Date/Time/ID/Analysis Matrix: <u>SL</u>	
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH >9 Sulfide, NaOH >12 Cyanide) Exception: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>052316-3</u>	

**CLIENT NOTIFICATION/RESOLUTION**      **Field Data Required?**  Yes     No  
Person Contacted: Kyle Romens      Date/Time: 12/9/16 09:35am  
Comments/Resolution: Sample ID should be S14 23-28 and not S14 25-28 as listed on the COC. Updated per client's request.

**Project Manager Review:** \_\_\_\_\_      **Date:** \_\_\_\_\_  
Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers).



Document Name: <b>Sample Condition Upon Receipt Form</b>	Document Revised: 02Aug2016 Page 2 of 2
Document No.: <b>F-MN-L-213-rev.17</b>	Issuing Authority: Pace Minnesota Quality Office

**SCUR Exceptions:**

**Workorder #:**

Issue	Sample ID	Container Type/#
Sample ID on label doesn't match COC	S14-23-28	12/7/16 1420
Container count incorrect	S16-21-22 (Dup)	5 for sample + 5 for dup

**pH Adjustment Log for Preserved Samples**

Sample ID	Type of Preservative	pH Upon Receipt	Date Preservation Adjusted	Time Preservation Adjusted	Amount of Additional Preservative Added	Lot # of Preservative Added	pH After Adjustment	Initials

January 12, 2017

Bill Gregg  
Summit Envirosolutions  
1217 Bandana Blvd  
Saint Paul, MN 55108

RE: Project: 2118-0002 Superior MGP\_REV  
Pace Project No.: 10372645

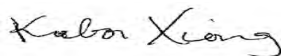
Dear Bill Gregg:

Enclosed are the analytical results for sample(s) received by the laboratory on December 08, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised on January 12, 2017 to change report format per client's request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kabor Xiong  
kabor.xiong@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

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### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

Alaska Certification UST-107

525 N 8th Street, Salina, KS 67401

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN\_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10372645001	S18_20-22.5	Solid	12/08/16 09:00	12/08/16 18:35
10372645002	S19_20.5-23	Solid	12/08/16 09:45	12/08/16 18:35
10372645003	S20_22-24	Solid	12/08/16 10:15	12/08/16 18:35
10372645004	S20_24-25	Solid	12/08/16 10:20	12/08/16 18:35
10372645005	S21_26-31	Solid	12/08/16 10:30	12/08/16 18:35
10372645006	S22_24-24.5	Solid	12/08/16 11:00	12/08/16 18:35
10372645007	S22_24.5-28	Solid	12/08/16 11:15	12/08/16 18:35
10372645008	S23_26.5-28.5	Solid	12/08/16 11:45	12/08/16 18:35
10372645009	S24_12.5-13	Solid	12/08/16 12:00	12/08/16 18:35
10372645010	S24_13-15.5	Solid	12/08/16 12:15	12/08/16 18:35
10372645011	S24_18-19	Solid	12/08/16 12:30	12/08/16 18:35
10372645012	S24_20-20.5	Solid	12/08/16 12:45	12/08/16 18:35
10372645013	S25_13.5-14	Solid	12/08/16 13:00	12/08/16 18:35
10372645014	S25_14-22	Solid	12/08/16 13:00	12/08/16 18:35
10372645015	S25_14-22D	Solid	12/08/16 13:00	12/08/16 18:35
10372645016	S21_26-31D	Solid	12/08/16 10:30	12/08/16 18:35

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10372645001	S18_20-22.5	EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10372645002	S19_20.5-23	EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10372645003	S20_22-24	EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10372645004	S20_24-25	EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10372645005	S21_26-31	EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10372645006	S22_24-24.5	EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10372645007	S22_24.5-28	EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10372645008	S23_26.5-28.5	EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10372645009	S24_12.5-13	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
		EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
10372645010	S24_13-15.5	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
		EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
10372645011	S24_18-19	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
		EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
10372645012	S24_20-20.5	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
		EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
10372645013	S25_13.5-14	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
		EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
10372645014	S25_14-22	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
		EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
10372645015	S25_14-22D	ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M
		EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M

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### SAMPLE ANALYTE COUNT

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10372645016	S21_26-31D	EPA 8260B	MRB	70	PASI-M
		EPA 6010C	DM	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	MRB	70	PASI-M

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S18\_20-22.5**      **Lab ID: 10372645001**      Collected: 12/08/16 09:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	3.7	mg/kg	1.0	0.30	1	12/20/16 09:30	12/21/16 09:54	7440-38-2	
Barium	68.5	mg/kg	0.081	0.024	1	12/20/16 09:30	12/21/16 09:54	7440-39-3	
Cadmium	0.41	mg/kg	0.048	0.014	1	12/20/16 09:30	12/21/16 09:54	7440-43-9	
Chromium	18.3	mg/kg	0.53	0.16	1	12/20/16 09:30	12/21/16 09:54	7440-47-3	
Lead	46.2	mg/kg	0.51	0.15	1	12/20/16 09:30	12/21/16 09:54	7439-92-1	
Selenium	<1.5	mg/kg	1.5	0.44	1	12/20/16 09:30	12/21/16 09:54	7782-49-2	
Silver	0.72	mg/kg	0.41	0.12	1	12/20/16 09:30	12/21/16 09:54	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.69	mg/kg	0.030	0.0089	1	12/20/16 13:17	12/21/16 16:13	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	41.8	%	0.10	0.10	1		12/21/16 15:23		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	32.1	ug/kg	2.2	0.67	1	12/13/16 06:57	12/19/16 17:00	83-32-9	
Acenaphthylene	23.3	ug/kg	1.5	0.47	1	12/13/16 06:57	12/19/16 17:00	208-96-8	
Anthracene	74.5	ug/kg	2.6	0.78	1	12/13/16 06:57	12/19/16 17:00	120-12-7	
Benzo(a)anthracene	163	ug/kg	2.7	0.80	1	12/13/16 06:57	12/19/16 17:00	56-55-3	
Benzo(a)pyrene	183	ug/kg	2.0	0.59	1	12/13/16 06:57	12/19/16 17:00	50-32-8	
Benzo(b)fluoranthene	187	ug/kg	3.3	0.98	1	12/13/16 06:57	12/19/16 17:00	205-99-2	
Benzo(g,h,i)perylene	115	ug/kg	2.6	0.78	1	12/13/16 06:57	12/19/16 17:00	191-24-2	
Benzo(k)fluoranthene	97.1	ug/kg	2.8	0.84	1	12/13/16 06:57	12/19/16 17:00	207-08-9	
Chrysene	177	ug/kg	3.2	0.95	1	12/13/16 06:57	12/19/16 17:00	218-01-9	
Dibenz(a,h)anthracene	34.4	ug/kg	1.9	0.56	1	12/13/16 06:57	12/19/16 17:00	53-70-3	
Fluoranthene	319	ug/kg	4.5	1.3	1	12/13/16 06:57	12/19/16 17:00	206-44-0	
Fluorene	28.7	ug/kg	2.2	0.66	1	12/13/16 06:57	12/19/16 17:00	86-73-7	
Indeno(1,2,3-cd)pyrene	90.0	ug/kg	4.3	1.3	1	12/13/16 06:57	12/19/16 17:00	193-39-5	
Naphthalene	21.1	ug/kg	2.0	0.61	1	12/13/16 06:57	12/19/16 17:00	91-20-3	
Phenanthrene	229	ug/kg	2.3	0.69	1	12/13/16 06:57	12/19/16 17:00	85-01-8	
Pyrene	290	ug/kg	4.7	1.4	1	12/13/16 06:57	12/19/16 17:00	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	78	%	41-125		1	12/13/16 06:57	12/19/16 17:00	321-60-8	
p-Terphenyl-d14 (S)	71	%	39-125		1	12/13/16 06:57	12/19/16 17:00	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1830	ug/kg	1830	550	1	12/09/16 10:54	12/10/16 03:06	67-64-1	
Allyl chloride	<240	ug/kg	240	72.0	1	12/09/16 10:54	12/10/16 03:06	107-05-1	
Benzene	<24.1	ug/kg	24.1	7.2	1	12/09/16 10:54	12/10/16 03:06	71-43-2	
Bromobenzene	<71.5	ug/kg	71.5	21.5	1	12/09/16 10:54	12/10/16 03:06	108-86-1	
Bromochloromethane	<83.3	ug/kg	83.3	25.0	1	12/09/16 10:54	12/10/16 03:06	74-97-5	
Bromodichloromethane	<78.2	ug/kg	78.2	23.5	1	12/09/16 10:54	12/10/16 03:06	75-27-4	
Bromoform	<241	ug/kg	241	72.3	1	12/09/16 10:54	12/10/16 03:06	75-25-2	
Bromomethane	<283	ug/kg	283	85.1	1	12/09/16 10:54	12/10/16 03:06	74-83-9	
2-Butanone (MEK)	<369	ug/kg	369	111	1	12/09/16 10:54	12/10/16 03:06	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S18\_20-22.5**      **Lab ID: 10372645001**      Collected: 12/08/16 09:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<67.6	ug/kg	67.6	20.3	1	12/09/16 10:54	12/10/16 03:06	104-51-8	
sec-Butylbenzene	<65.9	ug/kg	65.9	19.8	1	12/09/16 10:54	12/10/16 03:06	135-98-8	
tert-Butylbenzene	<88.3	ug/kg	88.3	26.5	1	12/09/16 10:54	12/10/16 03:06	98-06-6	
Carbon tetrachloride	<87.7	ug/kg	87.7	26.3	1	12/09/16 10:54	12/10/16 03:06	56-23-5	
Chlorobenzene	<48.6	ug/kg	48.6	14.6	1	12/09/16 10:54	12/10/16 03:06	108-90-7	
Chloroethane	<441	ug/kg	441	133	1	12/09/16 10:54	12/10/16 03:06	75-00-3	
Chloroform	<136	ug/kg	136	40.8	1	12/09/16 10:54	12/10/16 03:06	67-66-3	
Chloromethane	<135	ug/kg	135	40.6	1	12/09/16 10:54	12/10/16 03:06	74-87-3	
2-Chlorotoluene	<77.1	ug/kg	77.1	23.2	1	12/09/16 10:54	12/10/16 03:06	95-49-8	
4-Chlorotoluene	<73.2	ug/kg	73.2	22.0	1	12/09/16 10:54	12/10/16 03:06	106-43-4	
1,2-Dibromo-3-chloropropane	<164	ug/kg	164	164	1	12/09/16 10:54	12/10/16 03:06	96-12-8	
Dibromochloromethane	<240	ug/kg	240	72.0	1	12/09/16 10:54	12/10/16 03:06	124-48-1	
1,2-Dibromoethane (EDB)	<31.5	ug/kg	31.5	31.5	1	12/09/16 10:54	12/10/16 03:06	106-93-4	
Dibromomethane	<109	ug/kg	109	32.7	1	12/09/16 10:54	12/10/16 03:06	74-95-3	
1,2-Dichlorobenzene	<16.2	ug/kg	16.2	16.2	1	12/09/16 10:54	12/10/16 03:06	95-50-1	
1,3-Dichlorobenzene	<24.7	ug/kg	24.7	16.2	1	12/09/16 10:54	12/10/16 03:06	541-73-1	
1,4-Dichlorobenzene	<81.0	ug/kg	81.0	24.3	1	12/09/16 10:54	12/10/16 03:06	106-46-7	
Dichlorodifluoromethane	<85.5	ug/kg	85.5	25.7	1	12/09/16 10:54	12/10/16 03:06	75-71-8	
1,1-Dichloroethane	<32.6	ug/kg	32.6	32.6	1	12/09/16 10:54	12/10/16 03:06	75-34-3	
1,2-Dichloroethane	<26.5	ug/kg	26.5	26.5	1	12/09/16 10:54	12/10/16 03:06	107-06-2	
1,1-Dichloroethene	<21.3	ug/kg	21.3	21.3	1	12/09/16 10:54	12/10/16 03:06	75-35-4	
cis-1,2-Dichloroethene	<104	ug/kg	104	31.2	1	12/09/16 10:54	12/10/16 03:06	156-59-2	
trans-1,2-Dichloroethene	<135	ug/kg	135	40.4	1	12/09/16 10:54	12/10/16 03:06	156-60-5	
Dichlorofluoromethane	<766	ug/kg	766	230	1	12/09/16 10:54	12/10/16 03:06	75-43-4	
1,2-Dichloropropane	<29.0	ug/kg	29.0	29.0	1	12/09/16 10:54	12/10/16 03:06	78-87-5	
1,3-Dichloropropane	<100	ug/kg	100	30.0	1	12/09/16 10:54	12/10/16 03:06	142-28-9	
2,2-Dichloropropane	<88.9	ug/kg	88.9	26.7	1	12/09/16 10:54	12/10/16 03:06	594-20-7	
1,1-Dichloropropene	<25.3	ug/kg	25.3	25.3	1	12/09/16 10:54	12/10/16 03:06	563-58-6	
cis-1,3-Dichloropropene	<127	ug/kg	127	38.3	1	12/09/16 10:54	12/10/16 03:06	10061-01-5	
trans-1,3-Dichloropropene	<95.0	ug/kg	95.0	28.5	1	12/09/16 10:54	12/10/16 03:06	10061-02-6	
Diethyl ether (Ethyl ether)	<115	ug/kg	115	34.6	1	12/09/16 10:54	12/10/16 03:06	60-29-7	
Ethylbenzene	<88.9	ug/kg	88.9	26.7	1	12/09/16 10:54	12/10/16 03:06	100-41-4	
Hexachloro-1,3-butadiene	<263	ug/kg	263	78.9	1	12/09/16 10:54	12/10/16 03:06	87-68-3	
Isopropylbenzene (Cumene)	<99.5	ug/kg	99.5	29.9	1	12/09/16 10:54	12/10/16 03:06	98-82-8	
p-Isopropyltoluene	<46.4	ug/kg	46.4	13.9	1	12/09/16 10:54	12/10/16 03:06	99-87-6	
Methylene Chloride	<517	ug/kg	517	155	1	12/09/16 10:54	12/10/16 03:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	<185	ug/kg	185	55.5	1	12/09/16 10:54	12/10/16 03:06	108-10-1	
Methyl-tert-butyl ether	<52.3	ug/kg	52.3	15.7	1	12/09/16 10:54	12/10/16 03:06	1634-04-4	
Naphthalene	164	ug/kg	67.6	20.3	1	12/09/16 10:54	12/10/16 03:06	91-20-3	
n-Propylbenzene	<83.3	ug/kg	83.3	25.0	1	12/09/16 10:54	12/10/16 03:06	103-65-1	
Styrene	<72.6	ug/kg	72.6	21.8	1	12/09/16 10:54	12/10/16 03:06	100-42-5	
1,1,1,2-Tetrachloroethane	<33.2	ug/kg	33.2	33.2	1	12/09/16 10:54	12/10/16 03:06	630-20-6	
1,1,2,2-Tetrachloroethane	<18.6	ug/kg	18.6	18.6	1	12/09/16 10:54	12/10/16 03:06	79-34-5	
Tetrachloroethene	<107	ug/kg	107	32.1	1	12/09/16 10:54	12/10/16 03:06	127-18-4	
Tetrahydrofuran	<1390	ug/kg	1390	416	1	12/09/16 10:54	12/10/16 03:06	109-99-9	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S18\_20-22.5**      **Lab ID: 10372645001**      Collected: 12/08/16 09:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<88.9	ug/kg	88.9	26.7	1	12/09/16 10:54	12/10/16 03:06	108-88-3	
1,2,3-Trichlorobenzene	<24.2	ug/kg	24.2	24.2	1	12/09/16 10:54	12/10/16 03:06	87-61-6	
1,2,4-Trichlorobenzene	<25.8	ug/kg	25.8	25.8	1	12/09/16 10:54	12/10/16 03:06	120-82-1	
1,1,1-Trichloroethane	<35.1	ug/kg	35.1	35.1	1	12/09/16 10:54	12/10/16 03:06	71-55-6	
1,1,2-Trichloroethane	<18.1	ug/kg	18.1	18.1	1	12/09/16 10:54	12/10/16 03:06	79-00-5	
Trichloroethene	<79.9	ug/kg	79.9	24.0	1	12/09/16 10:54	12/10/16 03:06	79-01-6	
Trichlorofluoromethane	<281	ug/kg	281	84.2	1	12/09/16 10:54	12/10/16 03:06	75-69-4	
1,2,3-Trichloropropane	<86.9	ug/kg	86.9	86.9	1	12/09/16 10:54	12/10/16 03:06	96-18-4	
1,1,2-Trichlorotrifluoroethane	<201	ug/kg	201	60.4	1	12/09/16 10:54	12/10/16 03:06	76-13-1	
1,2,4-Trimethylbenzene	35.8	ug/kg	18.5	18.5	1	12/09/16 10:54	12/10/16 03:06	95-63-6	
1,3,5-Trimethylbenzene	<64.3	ug/kg	64.3	19.3	1	12/09/16 10:54	12/10/16 03:06	108-67-8	
Vinyl chloride	<35.9	ug/kg	35.9	10.8	1	12/09/16 10:54	12/10/16 03:06	75-01-4	
Xylene (Total)	<224	ug/kg	224	67.1	1	12/09/16 10:54	12/10/16 03:06	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	93	%	75-129		1	12/09/16 10:54	12/10/16 03:06	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/09/16 10:54	12/10/16 03:06	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		1	12/09/16 10:54	12/10/16 03:06	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Sample: **S19\_20.5-23** Lab ID: **10372645002** Collected: 12/08/16 09:45 Received: 12/08/16 18:35 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	3.3	mg/kg	0.87	0.26	1	12/20/16 09:30	12/21/16 10:06	7440-38-2	
Barium	62.2	mg/kg	0.070	0.021	1	12/20/16 09:30	12/21/16 10:06	7440-39-3	
Cadmium	0.40	mg/kg	0.041	0.012	1	12/20/16 09:30	12/21/16 10:06	7440-43-9	
Chromium	20.1	mg/kg	0.45	0.14	1	12/20/16 09:30	12/21/16 10:06	7440-47-3	
Lead	59.1	mg/kg	0.44	0.13	1	12/20/16 09:30	12/21/16 10:06	7439-92-1	
Selenium	<1.3	mg/kg	1.3	0.38	1	12/20/16 09:30	12/21/16 10:06	7782-49-2	
Silver	0.63	mg/kg	0.35	0.10	1	12/20/16 09:30	12/21/16 10:06	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.63	mg/kg	0.026	0.0077	1	12/20/16 13:17	12/21/16 16:19	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	38.8	%	0.10	0.10	1		12/21/16 15:24		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	46.5	ug/kg	2.1	0.64	1	12/13/16 06:57	12/19/16 17:22	83-32-9	
Acenaphthylene	45.8	ug/kg	1.5	0.44	1	12/13/16 06:57	12/19/16 17:22	208-96-8	
Anthracene	73.8	ug/kg	2.5	0.74	1	12/13/16 06:57	12/19/16 17:22	120-12-7	
Benzo(a)anthracene	208	ug/kg	2.5	0.76	1	12/13/16 06:57	12/19/16 17:22	56-55-3	
Benzo(a)pyrene	248	ug/kg	1.9	0.57	1	12/13/16 06:57	12/19/16 17:22	50-32-8	
Benzo(b)fluoranthene	248	ug/kg	3.1	0.93	1	12/13/16 06:57	12/19/16 17:22	205-99-2	
Benzo(g,h,i)perylene	163	ug/kg	2.5	0.75	1	12/13/16 06:57	12/19/16 17:22	191-24-2	
Benzo(k)fluoranthene	122	ug/kg	2.7	0.80	1	12/13/16 06:57	12/19/16 17:22	207-08-9	
Chrysene	205	ug/kg	3.0	0.90	1	12/13/16 06:57	12/19/16 17:22	218-01-9	
Dibenz(a,h)anthracene	47.4	ug/kg	1.8	0.53	1	12/13/16 06:57	12/19/16 17:22	53-70-3	
Fluoranthene	384	ug/kg	4.3	1.3	1	12/13/16 06:57	12/19/16 17:22	206-44-0	
Fluorene	35.0	ug/kg	2.1	0.63	1	12/13/16 06:57	12/19/16 17:22	86-73-7	
Indeno(1,2,3-cd)pyrene	135	ug/kg	4.1	1.2	1	12/13/16 06:57	12/19/16 17:22	193-39-5	
Naphthalene	18.9	ug/kg	1.9	0.58	1	12/13/16 06:57	12/19/16 17:22	91-20-3	
Phenanthrene	242	ug/kg	2.2	0.66	1	12/13/16 06:57	12/19/16 17:22	85-01-8	
Pyrene	364	ug/kg	4.5	1.4	1	12/13/16 06:57	12/19/16 17:22	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	76	%	41-125		1	12/13/16 06:57	12/19/16 17:22	321-60-8	
p-Terphenyl-d14 (S)	71	%	39-125		1	12/13/16 06:57	12/19/16 17:22	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1810	ug/kg	1810	542	1	12/09/16 10:54	12/10/16 03:22	67-64-1	
Allyl chloride	<236	ug/kg	236	70.9	1	12/09/16 10:54	12/10/16 03:22	107-05-1	
Benzene	<23.8	ug/kg	23.8	7.1	1	12/09/16 10:54	12/10/16 03:22	71-43-2	
Bromobenzene	<70.5	ug/kg	70.5	21.2	1	12/09/16 10:54	12/10/16 03:22	108-86-1	
Bromochloromethane	<82.0	ug/kg	82.0	24.6	1	12/09/16 10:54	12/10/16 03:22	74-97-5	
Bromodichloromethane	<77.1	ug/kg	77.1	23.1	1	12/09/16 10:54	12/10/16 03:22	75-27-4	
Bromoform	<237	ug/kg	237	71.2	1	12/09/16 10:54	12/10/16 03:22	75-25-2	
Bromomethane	<279	ug/kg	279	83.8	1	12/09/16 10:54	12/10/16 03:22	74-83-9	
2-Butanone (MEK)	<363	ug/kg	363	109	1	12/09/16 10:54	12/10/16 03:22	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Sample: **S19\_20.5-23** Lab ID: **10372645002** Collected: 12/08/16 09:45 Received: 12/08/16 18:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<66.6	ug/kg	66.6	20.0	1	12/09/16 10:54	12/10/16 03:22	104-51-8	
sec-Butylbenzene	<64.9	ug/kg	64.9	19.5	1	12/09/16 10:54	12/10/16 03:22	135-98-8	
tert-Butylbenzene	<87.0	ug/kg	87.0	26.1	1	12/09/16 10:54	12/10/16 03:22	98-06-6	
Carbon tetrachloride	<86.4	ug/kg	86.4	26.0	1	12/09/16 10:54	12/10/16 03:22	56-23-5	
Chlorobenzene	<47.9	ug/kg	47.9	14.4	1	12/09/16 10:54	12/10/16 03:22	108-90-7	
Chloroethane	<435	ug/kg	435	131	1	12/09/16 10:54	12/10/16 03:22	75-00-3	
Chloroform	<134	ug/kg	134	40.2	1	12/09/16 10:54	12/10/16 03:22	67-66-3	
Chloromethane	<133	ug/kg	133	40.0	1	12/09/16 10:54	12/10/16 03:22	74-87-3	
2-Chlorotoluene	<76.0	ug/kg	76.0	22.8	1	12/09/16 10:54	12/10/16 03:22	95-49-8	
4-Chlorotoluene	<72.1	ug/kg	72.1	21.7	1	12/09/16 10:54	12/10/16 03:22	106-43-4	
1,2-Dibromo-3-chloropropane	<161	ug/kg	161	161	1	12/09/16 10:54	12/10/16 03:22	96-12-8	
Dibromochloromethane	<236	ug/kg	236	70.9	1	12/09/16 10:54	12/10/16 03:22	124-48-1	
1,2-Dibromoethane (EDB)	<31.1	ug/kg	31.1	31.1	1	12/09/16 10:54	12/10/16 03:22	106-93-4	
Dibromomethane	<107	ug/kg	107	32.2	1	12/09/16 10:54	12/10/16 03:22	74-95-3	
1,2-Dichlorobenzene	<16.0	ug/kg	16.0	16.0	1	12/09/16 10:54	12/10/16 03:22	95-50-1	
1,3-Dichlorobenzene	<24.3	ug/kg	24.3	16.0	1	12/09/16 10:54	12/10/16 03:22	541-73-1	
1,4-Dichlorobenzene	<79.8	ug/kg	79.8	24.0	1	12/09/16 10:54	12/10/16 03:22	106-46-7	
Dichlorodifluoromethane	<84.2	ug/kg	84.2	25.3	1	12/09/16 10:54	12/10/16 03:22	75-71-8	
1,1-Dichloroethane	<32.1	ug/kg	32.1	32.1	1	12/09/16 10:54	12/10/16 03:22	75-34-3	
1,2-Dichloroethane	<26.1	ug/kg	26.1	26.1	1	12/09/16 10:54	12/10/16 03:22	107-06-2	
1,1-Dichloroethene	<21.0	ug/kg	21.0	21.0	1	12/09/16 10:54	12/10/16 03:22	75-35-4	
cis-1,2-Dichloroethene	<102	ug/kg	102	30.7	1	12/09/16 10:54	12/10/16 03:22	156-59-2	
trans-1,2-Dichloroethene	<133	ug/kg	133	39.8	1	12/09/16 10:54	12/10/16 03:22	156-60-5	
Dichlorofluoromethane	<754	ug/kg	754	226	1	12/09/16 10:54	12/10/16 03:22	75-43-4	
1,2-Dichloropropane	<28.6	ug/kg	28.6	28.6	1	12/09/16 10:54	12/10/16 03:22	78-87-5	
1,3-Dichloropropane	<98.5	ug/kg	98.5	29.6	1	12/09/16 10:54	12/10/16 03:22	142-28-9	
2,2-Dichloropropane	<87.5	ug/kg	87.5	26.3	1	12/09/16 10:54	12/10/16 03:22	594-20-7	
1,1-Dichloropropene	<25.0	ug/kg	25.0	25.0	1	12/09/16 10:54	12/10/16 03:22	563-58-6	
cis-1,3-Dichloropropene	<125	ug/kg	125	37.7	1	12/09/16 10:54	12/10/16 03:22	10061-01-5	
trans-1,3-Dichloropropene	<93.6	ug/kg	93.6	28.1	1	12/09/16 10:54	12/10/16 03:22	10061-02-6	
Diethyl ether (Ethyl ether)	<113	ug/kg	113	34.0	1	12/09/16 10:54	12/10/16 03:22	60-29-7	
Ethylbenzene	<87.5	ug/kg	87.5	26.3	1	12/09/16 10:54	12/10/16 03:22	100-41-4	
Hexachloro-1,3-butadiene	<259	ug/kg	259	77.7	1	12/09/16 10:54	12/10/16 03:22	87-68-3	
Isopropylbenzene (Cumene)	<98.0	ug/kg	98.0	29.4	1	12/09/16 10:54	12/10/16 03:22	98-82-8	
p-Isopropyltoluene	<45.7	ug/kg	45.7	13.7	1	12/09/16 10:54	12/10/16 03:22	99-87-6	
Methylene Chloride	<510	ug/kg	510	153	1	12/09/16 10:54	12/10/16 03:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	<182	ug/kg	182	54.7	1	12/09/16 10:54	12/10/16 03:22	108-10-1	
Methyl-tert-butyl ether	<51.5	ug/kg	51.5	15.5	1	12/09/16 10:54	12/10/16 03:22	1634-04-4	
Naphthalene	98.2	ug/kg	66.6	20.0	1	12/09/16 10:54	12/10/16 03:22	91-20-3	
n-Propylbenzene	<82.0	ug/kg	82.0	24.6	1	12/09/16 10:54	12/10/16 03:22	103-65-1	
Styrene	<71.6	ug/kg	71.6	21.5	1	12/09/16 10:54	12/10/16 03:22	100-42-5	
1,1,1,2-Tetrachloroethane	<32.7	ug/kg	32.7	32.7	1	12/09/16 10:54	12/10/16 03:22	630-20-6	
1,1,2,2-Tetrachloroethane	<18.3	ug/kg	18.3	18.3	1	12/09/16 10:54	12/10/16 03:22	79-34-5	
Tetrachloroethene	<105	ug/kg	105	31.6	1	12/09/16 10:54	12/10/16 03:22	127-18-4	
Tetrahydrofuran	<1370	ug/kg	1370	410	1	12/09/16 10:54	12/10/16 03:22	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S19\_20.5-23**      **Lab ID: 10372645002**      Collected: 12/08/16 09:45      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<87.5	ug/kg	87.5	26.3	1	12/09/16 10:54	12/10/16 03:22	108-88-3	
1,2,3-Trichlorobenzene	<23.8	ug/kg	23.8	23.8	1	12/09/16 10:54	12/10/16 03:22	87-61-6	
1,2,4-Trichlorobenzene	<25.5	ug/kg	25.5	25.5	1	12/09/16 10:54	12/10/16 03:22	120-82-1	
1,1,1-Trichloroethane	<34.5	ug/kg	34.5	34.5	1	12/09/16 10:54	12/10/16 03:22	71-55-6	
1,1,2-Trichloroethane	<17.9	ug/kg	17.9	17.9	1	12/09/16 10:54	12/10/16 03:22	79-00-5	
Trichloroethene	<78.7	ug/kg	78.7	23.6	1	12/09/16 10:54	12/10/16 03:22	79-01-6	
Trichlorofluoromethane	<276	ug/kg	276	83.0	1	12/09/16 10:54	12/10/16 03:22	75-69-4	
1,2,3-Trichloropropane	<85.6	ug/kg	85.6	85.6	1	12/09/16 10:54	12/10/16 03:22	96-18-4	
1,1,2-Trichlorotrifluoroethane	<198	ug/kg	198	59.5	1	12/09/16 10:54	12/10/16 03:22	76-13-1	
1,2,4-Trimethylbenzene	21.8	ug/kg	18.2	18.2	1	12/09/16 10:54	12/10/16 03:22	95-63-6	
1,3,5-Trimethylbenzene	<63.3	ug/kg	63.3	19.0	1	12/09/16 10:54	12/10/16 03:22	108-67-8	
Vinyl chloride	<35.3	ug/kg	35.3	10.6	1	12/09/16 10:54	12/10/16 03:22	75-01-4	
Xylene (Total)	<220	ug/kg	220	66.1	1	12/09/16 10:54	12/10/16 03:22	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	96	%	75-129		1	12/09/16 10:54	12/10/16 03:22	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/09/16 10:54	12/10/16 03:22	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/09/16 10:54	12/10/16 03:22	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S20\_22-24**      **Lab ID: 10372645003**      Collected: 12/08/16 10:15      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	1.8	mg/kg	0.68	0.20	1	12/20/16 09:30	12/21/16 10:15	7440-38-2	
Barium	15.5	mg/kg	0.055	0.016	1	12/20/16 09:30	12/21/16 10:15	7440-39-3	
Cadmium	0.045	mg/kg	0.032	0.0097	1	12/20/16 09:30	12/21/16 10:15	7440-43-9	
Chromium	6.5	mg/kg	0.35	0.11	1	12/20/16 09:30	12/21/16 10:15	7440-47-3	
Lead	7.2	mg/kg	0.34	0.10	1	12/20/16 09:30	12/21/16 10:15	7439-92-1	
Selenium	<0.99	mg/kg	0.99	0.30	1	12/20/16 09:30	12/21/16 10:15	7782-49-2	
Silver	<0.27	mg/kg	0.27	0.082	1	12/20/16 09:30	12/21/16 10:15	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.049	mg/kg	0.023	0.0069	1	12/20/16 13:17	12/21/16 16:21	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	26.6	%	0.10	0.10	1		12/21/16 15:24		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	14.8	ug/kg	1.8	0.53	1	12/13/16 06:57	12/19/16 17:43	83-32-9	
Acenaphthylene	28.3	ug/kg	1.2	0.37	1	12/13/16 06:57	12/19/16 17:43	208-96-8	
Anthracene	46.6	ug/kg	2.1	0.62	1	12/13/16 06:57	12/19/16 17:43	120-12-7	
Benzo(a)anthracene	146	ug/kg	2.1	0.64	1	12/13/16 06:57	12/19/16 17:43	56-55-3	
Benzo(a)pyrene	164	ug/kg	1.6	0.47	1	12/13/16 06:57	12/19/16 17:43	50-32-8	
Benzo(b)fluoranthene	158	ug/kg	2.6	0.78	1	12/13/16 06:57	12/19/16 17:43	205-99-2	
Benzo(g,h,i)perylene	110	ug/kg	2.1	0.62	1	12/13/16 06:57	12/19/16 17:43	191-24-2	
Benzo(k)fluoranthene	75.9	ug/kg	2.2	0.67	1	12/13/16 06:57	12/19/16 17:43	207-08-9	
Chrysene	149	ug/kg	2.5	0.76	1	12/13/16 06:57	12/19/16 17:43	218-01-9	
Dibenz(a,h)anthracene	29.0	ug/kg	1.5	0.45	1	12/13/16 06:57	12/19/16 17:43	53-70-3	
Fluoranthene	241	ug/kg	3.6	1.1	1	12/13/16 06:57	12/19/16 17:43	206-44-0	
Fluorene	16.8	ug/kg	1.7	0.52	1	12/13/16 06:57	12/19/16 17:43	86-73-7	
Indeno(1,2,3-cd)pyrene	80.6	ug/kg	3.4	1.0	1	12/13/16 06:57	12/19/16 17:43	193-39-5	
Naphthalene	12.2	ug/kg	1.6	0.49	1	12/13/16 06:57	12/19/16 17:43	91-20-3	
Phenanthrene	111	ug/kg	1.8	0.55	1	12/13/16 06:57	12/19/16 17:43	85-01-8	
Pyrene	255	ug/kg	3.8	1.1	1	12/13/16 06:57	12/19/16 17:43	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	84	%	41-125		1	12/13/16 06:57	12/19/16 17:43	321-60-8	
p-Terphenyl-d14 (S)	77	%	39-125		1	12/13/16 06:57	12/19/16 17:43	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1540	ug/kg	1540	464	1	12/13/16 10:20	12/13/16 22:19	67-64-1	
Allyl chloride	<202	ug/kg	202	60.7	1	12/13/16 10:20	12/13/16 22:19	107-05-1	
Benzene	<20.3	ug/kg	20.3	6.1	1	12/13/16 10:20	12/13/16 22:19	71-43-2	
Bromobenzene	<60.3	ug/kg	60.3	18.1	1	12/13/16 10:20	12/13/16 22:19	108-86-1	
Bromochloromethane	<70.2	ug/kg	70.2	21.1	1	12/13/16 10:20	12/13/16 22:19	74-97-5	
Bromodichloromethane	<65.9	ug/kg	65.9	19.8	1	12/13/16 10:20	12/13/16 22:19	75-27-4	
Bromoform	<203	ug/kg	203	61.0	1	12/13/16 10:20	12/13/16 22:19	75-25-2	
Bromomethane	<239	ug/kg	239	71.7	1	12/13/16 10:20	12/13/16 22:19	74-83-9	
2-Butanone (MEK)	<311	ug/kg	311	93.3	1	12/13/16 10:20	12/13/16 22:19	78-93-3	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Sample: **S20\_22-24** Lab ID: **10372645003** Collected: 12/08/16 10:15 Received: 12/08/16 18:35 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<57.0	ug/kg	57.0	17.1	1	12/13/16 10:20	12/13/16 22:19	104-51-8	
sec-Butylbenzene	<55.6	ug/kg	55.6	16.7	1	12/13/16 10:20	12/13/16 22:19	135-98-8	
tert-Butylbenzene	<74.4	ug/kg	74.4	22.3	1	12/13/16 10:20	12/13/16 22:19	98-06-6	
Carbon tetrachloride	<73.9	ug/kg	73.9	22.2	1	12/13/16 10:20	12/13/16 22:19	56-23-5	
Chlorobenzene	<41.0	ug/kg	41.0	12.3	1	12/13/16 10:20	12/13/16 22:19	108-90-7	
Chloroethane	<372	ug/kg	372	112	1	12/13/16 10:20	12/13/16 22:19	75-00-3	
Chloroform	<114	ug/kg	114	34.4	1	12/13/16 10:20	12/13/16 22:19	67-66-3	
Chloromethane	<114	ug/kg	114	34.2	1	12/13/16 10:20	12/13/16 22:19	74-87-3	
2-Chlorotoluene	<65.0	ug/kg	65.0	19.5	1	12/13/16 10:20	12/13/16 22:19	95-49-8	
4-Chlorotoluene	<61.7	ug/kg	61.7	18.5	1	12/13/16 10:20	12/13/16 22:19	106-43-4	
1,2-Dibromo-3-chloropropane	<138	ug/kg	138	138	1	12/13/16 10:20	12/13/16 22:19	96-12-8	
Dibromochloromethane	<202	ug/kg	202	60.7	1	12/13/16 10:20	12/13/16 22:19	124-48-1	
1,2-Dibromoethane (EDB)	<26.6	ug/kg	26.6	26.6	1	12/13/16 10:20	12/13/16 22:19	106-93-4	
Dibromomethane	<91.8	ug/kg	91.8	27.6	1	12/13/16 10:20	12/13/16 22:19	74-95-3	
1,2-Dichlorobenzene	<13.7	ug/kg	13.7	13.7	1	12/13/16 10:20	12/13/16 22:19	95-50-1	
1,3-Dichlorobenzene	<20.8	ug/kg	20.8	13.7	1	12/13/16 10:20	12/13/16 22:19	541-73-1	
1,4-Dichlorobenzene	<68.3	ug/kg	68.3	20.5	1	12/13/16 10:20	12/13/16 22:19	106-46-7	
Dichlorodifluoromethane	<72.1	ug/kg	72.1	21.6	1	12/13/16 10:20	12/13/16 22:19	75-71-8	
1,1-Dichloroethane	<27.4	ug/kg	27.4	27.4	1	12/13/16 10:20	12/13/16 22:19	75-34-3	
1,2-Dichloroethane	<22.3	ug/kg	22.3	22.3	1	12/13/16 10:20	12/13/16 22:19	107-06-2	
1,1-Dichloroethene	<18.0	ug/kg	18.0	18.0	1	12/13/16 10:20	12/13/16 22:19	75-35-4	
cis-1,2-Dichloroethene	<87.6	ug/kg	87.6	26.3	1	12/13/16 10:20	12/13/16 22:19	156-59-2	
trans-1,2-Dichloroethene	<113	ug/kg	113	34.1	1	12/13/16 10:20	12/13/16 22:19	156-60-5	
Dichlorofluoromethane	<645	ug/kg	645	194	1	12/13/16 10:20	12/13/16 22:19	75-43-4	
1,2-Dichloropropane	<24.5	ug/kg	24.5	24.5	1	12/13/16 10:20	12/13/16 22:19	78-87-5	
1,3-Dichloropropane	<84.3	ug/kg	84.3	25.3	1	12/13/16 10:20	12/13/16 22:19	142-28-9	
2,2-Dichloropropane	<74.9	ug/kg	74.9	22.5	1	12/13/16 10:20	12/13/16 22:19	594-20-7	
1,1-Dichloropropene	<21.4	ug/kg	21.4	21.4	1	12/13/16 10:20	12/13/16 22:19	563-58-6	
cis-1,3-Dichloropropene	<107	ug/kg	107	32.2	1	12/13/16 10:20	12/13/16 22:19	10061-01-5	
trans-1,3-Dichloropropene	<80.1	ug/kg	80.1	24.0	1	12/13/16 10:20	12/13/16 22:19	10061-02-6	
Diethyl ether (Ethyl ether)	<97.0	ug/kg	97.0	29.1	1	12/13/16 10:20	12/13/16 22:19	60-29-7	
Ethylbenzene	<74.9	ug/kg	74.9	22.5	1	12/13/16 10:20	12/13/16 22:19	100-41-4	
Hexachloro-1,3-butadiene	<221	ug/kg	221	66.5	1	12/13/16 10:20	12/13/16 22:19	87-68-3	
Isopropylbenzene (Cumene)	<83.8	ug/kg	83.8	25.2	1	12/13/16 10:20	12/13/16 22:19	98-82-8	
p-Isopropyltoluene	167	ug/kg	39.1	11.7	1	12/13/16 10:20	12/13/16 22:19	99-87-6	
Methylene Chloride	<436	ug/kg	436	131	1	12/13/16 10:20	12/13/16 22:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	<156	ug/kg	156	46.8	1	12/13/16 10:20	12/13/16 22:19	108-10-1	
Methyl-tert-butyl ether	<44.1	ug/kg	44.1	13.2	1	12/13/16 10:20	12/13/16 22:19	1634-04-4	
Naphthalene	<57.0	ug/kg	57.0	17.1	1	12/13/16 10:20	12/13/16 22:19	91-20-3	
n-Propylbenzene	<70.2	ug/kg	70.2	21.1	1	12/13/16 10:20	12/13/16 22:19	103-65-1	
Styrene	<61.2	ug/kg	61.2	18.4	1	12/13/16 10:20	12/13/16 22:19	100-42-5	
1,1,1,2-Tetrachloroethane	<28.0	ug/kg	28.0	28.0	1	12/13/16 10:20	12/13/16 22:19	630-20-6	
1,1,2,2-Tetrachloroethane	<15.7	ug/kg	15.7	15.7	1	12/13/16 10:20	12/13/16 22:19	79-34-5	
Tetrachloroethene	<90.0	ug/kg	90.0	27.0	1	12/13/16 10:20	12/13/16 22:19	127-18-4	
Tetrahydrofuran	<1170	ug/kg	1170	351	1	12/13/16 10:20	12/13/16 22:19	109-99-9	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S20\_22-24**      **Lab ID: 10372645003**      Collected: 12/08/16 10:15      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<74.9	ug/kg	74.9	22.5	1	12/13/16 10:20	12/13/16 22:19	108-88-3	
1,2,3-Trichlorobenzene	<20.4	ug/kg	20.4	20.4	1	12/13/16 10:20	12/13/16 22:19	87-61-6	
1,2,4-Trichlorobenzene	<21.8	ug/kg	21.8	21.8	1	12/13/16 10:20	12/13/16 22:19	120-82-1	
1,1,1-Trichloroethane	<29.6	ug/kg	29.6	29.6	1	12/13/16 10:20	12/13/16 22:19	71-55-6	
1,1,2-Trichloroethane	<15.3	ug/kg	15.3	15.3	1	12/13/16 10:20	12/13/16 22:19	79-00-5	
Trichloroethene	<67.3	ug/kg	67.3	20.2	1	12/13/16 10:20	12/13/16 22:19	79-01-6	
Trichlorofluoromethane	<236	ug/kg	236	71.0	1	12/13/16 10:20	12/13/16 22:19	75-69-4	
1,2,3-Trichloropropane	<73.3	ug/kg	73.3	73.3	1	12/13/16 10:20	12/13/16 22:19	96-18-4	
1,1,2-Trichlorotrifluoroethane	<170	ug/kg	170	50.9	1	12/13/16 10:20	12/13/16 22:19	76-13-1	
1,2,4-Trimethylbenzene	<15.6	ug/kg	15.6	15.6	1	12/13/16 10:20	12/13/16 22:19	95-63-6	
1,3,5-Trimethylbenzene	<54.2	ug/kg	54.2	16.3	1	12/13/16 10:20	12/13/16 22:19	108-67-8	
Vinyl chloride	<30.2	ug/kg	30.2	9.1	1	12/13/16 10:20	12/13/16 22:19	75-01-4	
Xylene (Total)	<188	ug/kg	188	56.6	1	12/13/16 10:20	12/13/16 22:19	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	87	%	75-129		1	12/13/16 10:20	12/13/16 22:19	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/13/16 10:20	12/13/16 22:19	2037-26-5	
4-Bromofluorobenzene (S)	95	%	75-125		1	12/13/16 10:20	12/13/16 22:19	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S20\_24-25**      **Lab ID: 10372645004**      Collected: 12/08/16 10:20      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	1.4	mg/kg	0.80	0.24	1	12/20/16 09:30	12/21/16 10:18	7440-38-2	
Barium	9.0	mg/kg	0.064	0.019	1	12/20/16 09:30	12/21/16 10:18	7440-39-3	
Cadmium	<0.038	mg/kg	0.038	0.011	1	12/20/16 09:30	12/21/16 10:18	7440-43-9	
Chromium	5.4	mg/kg	0.41	0.12	1	12/20/16 09:30	12/21/16 10:18	7440-47-3	
Lead	1.7	mg/kg	0.40	0.12	1	12/20/16 09:30	12/21/16 10:18	7439-92-1	
Selenium	<1.2	mg/kg	1.2	0.35	1	12/20/16 09:30	12/21/16 10:18	7782-49-2	
Silver	<0.32	mg/kg	0.32	0.096	1	12/20/16 09:30	12/21/16 10:18	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<0.018	mg/kg	0.018	0.0055	1	12/20/16 13:17	12/21/16 16:23	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	19.7	%	0.10	0.10	1		12/21/16 15:24		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	<1.6	ug/kg	1.6	0.49	1	12/13/16 06:57	12/19/16 18:05	83-32-9	
Acenaphthylene	<1.1	ug/kg	1.1	0.34	1	12/13/16 06:57	12/19/16 18:05	208-96-8	
Anthracene	<1.9	ug/kg	1.9	0.56	1	12/13/16 06:57	12/19/16 18:05	120-12-7	
Benzo(a)anthracene	<1.9	ug/kg	1.9	0.58	1	12/13/16 06:57	12/19/16 18:05	56-55-3	
Benzo(a)pyrene	<1.4	ug/kg	1.4	0.43	1	12/13/16 06:57	12/19/16 18:05	50-32-8	
Benzo(b)fluoranthene	<2.4	ug/kg	2.4	0.71	1	12/13/16 06:57	12/19/16 18:05	205-99-2	
Benzo(g,h,i)perylene	<1.9	ug/kg	1.9	0.57	1	12/13/16 06:57	12/19/16 18:05	191-24-2	
Benzo(k)fluoranthene	<2.0	ug/kg	2.0	0.61	1	12/13/16 06:57	12/19/16 18:05	207-08-9	
Chrysene	<2.3	ug/kg	2.3	0.69	1	12/13/16 06:57	12/19/16 18:05	218-01-9	
Dibenz(a,h)anthracene	<1.4	ug/kg	1.4	0.41	1	12/13/16 06:57	12/19/16 18:05	53-70-3	
Fluoranthene	<3.2	ug/kg	3.2	0.97	1	12/13/16 06:57	12/19/16 18:05	206-44-0	
Fluorene	<1.6	ug/kg	1.6	0.48	1	12/13/16 06:57	12/19/16 18:05	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.1	ug/kg	3.1	0.93	1	12/13/16 06:57	12/19/16 18:05	193-39-5	
Naphthalene	<1.5	ug/kg	1.5	0.44	1	12/13/16 06:57	12/19/16 18:05	91-20-3	
Phenanthrene	<1.7	ug/kg	1.7	0.50	1	12/13/16 06:57	12/19/16 18:05	85-01-8	
Pyrene	3.5	ug/kg	3.4	1.0	1	12/13/16 06:57	12/19/16 18:05	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	88	%	41-125		1	12/13/16 06:57	12/19/16 18:05	321-60-8	
p-Terphenyl-d14 (S)	74	%	39-125		1	12/13/16 06:57	12/19/16 18:05	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1380	ug/kg	1380	413	1	12/13/16 10:20	12/13/16 22:35	67-64-1	
Allyl chloride	<180	ug/kg	180	54.0	1	12/13/16 10:20	12/13/16 22:35	107-05-1	
Benzene	<18.1	ug/kg	18.1	5.4	1	12/13/16 10:20	12/13/16 22:35	71-43-2	
Bromobenzene	<53.7	ug/kg	53.7	16.1	1	12/13/16 10:20	12/13/16 22:35	108-86-1	
Bromochloromethane	<62.5	ug/kg	62.5	18.8	1	12/13/16 10:20	12/13/16 22:35	74-97-5	
Bromodichloromethane	<58.7	ug/kg	58.7	17.6	1	12/13/16 10:20	12/13/16 22:35	75-27-4	
Bromoform	<181	ug/kg	181	54.3	1	12/13/16 10:20	12/13/16 22:35	75-25-2	
Bromomethane	<213	ug/kg	213	63.8	1	12/13/16 10:20	12/13/16 22:35	74-83-9	
2-Butanone (MEK)	<277	ug/kg	277	83.1	1	12/13/16 10:20	12/13/16 22:35	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Sample: **S20\_24-25** Lab ID: **10372645004** Collected: 12/08/16 10:20 Received: 12/08/16 18:35 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<50.7	ug/kg	50.7	15.2	1	12/13/16 10:20	12/13/16 22:35	104-51-8	
sec-Butylbenzene	<49.5	ug/kg	49.5	14.9	1	12/13/16 10:20	12/13/16 22:35	135-98-8	
tert-Butylbenzene	<66.2	ug/kg	66.2	19.9	1	12/13/16 10:20	12/13/16 22:35	98-06-6	
Carbon tetrachloride	<65.8	ug/kg	65.8	19.8	1	12/13/16 10:20	12/13/16 22:35	56-23-5	
Chlorobenzene	<36.5	ug/kg	36.5	11.0	1	12/13/16 10:20	12/13/16 22:35	108-90-7	
Chloroethane	<331	ug/kg	331	99.5	1	12/13/16 10:20	12/13/16 22:35	75-00-3	
Chloroform	<102	ug/kg	102	30.6	1	12/13/16 10:20	12/13/16 22:35	67-66-3	
Chloromethane	<101	ug/kg	101	30.5	1	12/13/16 10:20	12/13/16 22:35	74-87-3	
2-Chlorotoluene	<57.9	ug/kg	57.9	17.4	1	12/13/16 10:20	12/13/16 22:35	95-49-8	
4-Chlorotoluene	<54.9	ug/kg	54.9	16.5	1	12/13/16 10:20	12/13/16 22:35	106-43-4	
1,2-Dibromo-3-chloropropane	<123	ug/kg	123	123	1	12/13/16 10:20	12/13/16 22:35	96-12-8	
Dibromochloromethane	<180	ug/kg	180	54.0	1	12/13/16 10:20	12/13/16 22:35	124-48-1	
1,2-Dibromoethane (EDB)	<23.7	ug/kg	23.7	23.7	1	12/13/16 10:20	12/13/16 22:35	106-93-4	
Dibromomethane	<81.7	ug/kg	81.7	24.5	1	12/13/16 10:20	12/13/16 22:35	74-95-3	
1,2-Dichlorobenzene	<12.2	ug/kg	12.2	12.2	1	12/13/16 10:20	12/13/16 22:35	95-50-1	
1,3-Dichlorobenzene	<18.5	ug/kg	18.5	12.2	1	12/13/16 10:20	12/13/16 22:35	541-73-1	
1,4-Dichlorobenzene	<60.8	ug/kg	60.8	18.3	1	12/13/16 10:20	12/13/16 22:35	106-46-7	
Dichlorodifluoromethane	<64.1	ug/kg	64.1	19.3	1	12/13/16 10:20	12/13/16 22:35	75-71-8	
1,1-Dichloroethane	<24.4	ug/kg	24.4	24.4	1	12/13/16 10:20	12/13/16 22:35	75-34-3	
1,2-Dichloroethane	<19.9	ug/kg	19.9	19.9	1	12/13/16 10:20	12/13/16 22:35	107-06-2	
1,1-Dichloroethene	<16.0	ug/kg	16.0	16.0	1	12/13/16 10:20	12/13/16 22:35	75-35-4	
cis-1,2-Dichloroethene	<78.0	ug/kg	78.0	23.4	1	12/13/16 10:20	12/13/16 22:35	156-59-2	
trans-1,2-Dichloroethene	<101	ug/kg	101	30.3	1	12/13/16 10:20	12/13/16 22:35	156-60-5	
Dichlorofluoromethane	<574	ug/kg	574	172	1	12/13/16 10:20	12/13/16 22:35	75-43-4	
1,2-Dichloropropane	<21.8	ug/kg	21.8	21.8	1	12/13/16 10:20	12/13/16 22:35	78-87-5	
1,3-Dichloropropane	<75.0	ug/kg	75.0	22.5	1	12/13/16 10:20	12/13/16 22:35	142-28-9	
2,2-Dichloropropane	<66.7	ug/kg	66.7	20.0	1	12/13/16 10:20	12/13/16 22:35	594-20-7	
1,1-Dichloropropene	<19.0	ug/kg	19.0	19.0	1	12/13/16 10:20	12/13/16 22:35	563-58-6	
cis-1,3-Dichloropropene	<95.6	ug/kg	95.6	28.7	1	12/13/16 10:20	12/13/16 22:35	10061-01-5	
trans-1,3-Dichloropropene	<71.3	ug/kg	71.3	21.4	1	12/13/16 10:20	12/13/16 22:35	10061-02-6	
Diethyl ether (Ethyl ether)	<86.4	ug/kg	86.4	25.9	1	12/13/16 10:20	12/13/16 22:35	60-29-7	
Ethylbenzene	<66.7	ug/kg	66.7	20.0	1	12/13/16 10:20	12/13/16 22:35	100-41-4	
Hexachloro-1,3-butadiene	<197	ug/kg	197	59.2	1	12/13/16 10:20	12/13/16 22:35	87-68-3	
Isopropylbenzene (Cumene)	<74.6	ug/kg	74.6	22.4	1	12/13/16 10:20	12/13/16 22:35	98-82-8	
p-Isopropyltoluene	<34.8	ug/kg	34.8	10.4	1	12/13/16 10:20	12/13/16 22:35	99-87-6	
Methylene Chloride	<388	ug/kg	388	117	1	12/13/16 10:20	12/13/16 22:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	<139	ug/kg	139	41.7	1	12/13/16 10:20	12/13/16 22:35	108-10-1	
Methyl-tert-butyl ether	<39.2	ug/kg	39.2	11.8	1	12/13/16 10:20	12/13/16 22:35	1634-04-4	
Naphthalene	<50.7	ug/kg	50.7	15.2	1	12/13/16 10:20	12/13/16 22:35	91-20-3	
n-Propylbenzene	<62.5	ug/kg	62.5	18.8	1	12/13/16 10:20	12/13/16 22:35	103-65-1	
Styrene	<54.5	ug/kg	54.5	16.4	1	12/13/16 10:20	12/13/16 22:35	100-42-5	
1,1,1,2-Tetrachloroethane	<24.9	ug/kg	24.9	24.9	1	12/13/16 10:20	12/13/16 22:35	630-20-6	
1,1,2,2-Tetrachloroethane	<14.0	ug/kg	14.0	14.0	1	12/13/16 10:20	12/13/16 22:35	79-34-5	
Tetrachloroethene	<80.1	ug/kg	80.1	24.0	1	12/13/16 10:20	12/13/16 22:35	127-18-4	
Tetrahydrofuran	<1040	ug/kg	1040	312	1	12/13/16 10:20	12/13/16 22:35	109-99-9	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S20\_24-25**      **Lab ID: 10372645004**      Collected: 12/08/16 10:20      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<66.7	ug/kg	66.7	20.0	1	12/13/16 10:20	12/13/16 22:35	108-88-3	
1,2,3-Trichlorobenzene	<18.1	ug/kg	18.1	18.1	1	12/13/16 10:20	12/13/16 22:35	87-61-6	
1,2,4-Trichlorobenzene	<19.4	ug/kg	19.4	19.4	1	12/13/16 10:20	12/13/16 22:35	120-82-1	
1,1,1-Trichloroethane	<26.3	ug/kg	26.3	26.3	1	12/13/16 10:20	12/13/16 22:35	71-55-6	
1,1,2-Trichloroethane	<13.6	ug/kg	13.6	13.6	1	12/13/16 10:20	12/13/16 22:35	79-00-5	
Trichloroethene	<59.9	ug/kg	59.9	18.0	1	12/13/16 10:20	12/13/16 22:35	79-01-6	
Trichlorofluoromethane	<210	ug/kg	210	63.2	1	12/13/16 10:20	12/13/16 22:35	75-69-4	
1,2,3-Trichloropropane	<65.2	ug/kg	65.2	65.2	1	12/13/16 10:20	12/13/16 22:35	96-18-4	
1,1,2-Trichlorotrifluoroethane	<151	ug/kg	151	45.3	1	12/13/16 10:20	12/13/16 22:35	76-13-1	
1,2,4-Trimethylbenzene	<13.8	ug/kg	13.8	13.8	1	12/13/16 10:20	12/13/16 22:35	95-63-6	
1,3,5-Trimethylbenzene	<48.2	ug/kg	48.2	14.5	1	12/13/16 10:20	12/13/16 22:35	108-67-8	
Vinyl chloride	<26.9	ug/kg	26.9	8.1	1	12/13/16 10:20	12/13/16 22:35	75-01-4	
Xylene (Total)	<168	ug/kg	168	50.4	1	12/13/16 10:20	12/13/16 22:35	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	88	%	75-129		1	12/13/16 10:20	12/13/16 22:35	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/13/16 10:20	12/13/16 22:35	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/13/16 10:20	12/13/16 22:35	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S21\_26-31**      **Lab ID: 10372645005**      Collected: 12/08/16 10:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	4.2	mg/kg	0.85	0.26	1	12/20/16 09:30	12/21/16 10:20	7440-38-2	
Barium	138	mg/kg	0.068	0.020	1	12/20/16 09:30	12/21/16 10:20	7440-39-3	
Cadmium	0.12	mg/kg	0.040	0.012	1	12/20/16 09:30	12/21/16 10:20	7440-43-9	
Chromium	30.2	mg/kg	0.44	0.13	1	12/20/16 09:30	12/21/16 10:20	7440-47-3	
Lead	9.7	mg/kg	0.43	0.13	1	12/20/16 09:30	12/21/16 10:20	7439-92-1	
Selenium	<1.2	mg/kg	1.2	0.37	1	12/20/16 09:30	12/21/16 10:20	7782-49-2	
Silver	<0.34	mg/kg	0.34	0.10	1	12/20/16 09:30	12/21/16 10:20	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.034	mg/kg	0.021	0.0063	1	12/20/16 13:17	12/21/16 16:30	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	29.5	%	0.10	0.10	1		12/21/16 15:24		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	<2.4	ug/kg	2.4	0.73	1	12/13/16 06:57	12/19/16 18:27	83-32-9	
Acenaphthylene	<1.7	ug/kg	1.7	0.51	1	12/13/16 06:57	12/19/16 18:27	208-96-8	
Anthracene	<2.8	ug/kg	2.8	0.85	1	12/13/16 06:57	12/19/16 18:27	120-12-7	
Benzo(a)anthracene	3.7	ug/kg	2.9	0.88	1	12/13/16 06:57	12/19/16 18:27	56-55-3	
Benzo(a)pyrene	3.5	ug/kg	2.2	0.65	1	12/13/16 06:57	12/19/16 18:27	50-32-8	
Benzo(b)fluoranthene	3.8	ug/kg	3.6	1.1	1	12/13/16 06:57	12/19/16 18:27	205-99-2	
Benzo(g,h,i)perylene	<2.9	ug/kg	2.9	0.86	1	12/13/16 06:57	12/19/16 18:27	191-24-2	
Benzo(k)fluoranthene	<3.1	ug/kg	3.1	0.92	1	12/13/16 06:57	12/19/16 18:27	207-08-9	
Chrysene	4.1	ug/kg	3.5	1.0	1	12/13/16 06:57	12/19/16 18:27	218-01-9	
Dibenz(a,h)anthracene	<2.0	ug/kg	2.0	0.61	1	12/13/16 06:57	12/19/16 18:27	53-70-3	
Fluoranthene	7.5	ug/kg	4.9	1.5	1	12/13/16 06:57	12/19/16 18:27	206-44-0	
Fluorene	<2.4	ug/kg	2.4	0.72	1	12/13/16 06:57	12/19/16 18:27	86-73-7	
Indeno(1,2,3-cd)pyrene	<4.7	ug/kg	4.7	1.4	1	12/13/16 06:57	12/19/16 18:27	193-39-5	
Naphthalene	<2.2	ug/kg	2.2	0.67	1	12/13/16 06:57	12/19/16 18:27	91-20-3	
Phenanthrene	4.2	ug/kg	2.5	0.75	1	12/13/16 06:57	12/19/16 18:27	85-01-8	
Pyrene	6.1	ug/kg	5.2	1.5	1	12/13/16 06:57	12/19/16 18:27	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	74	%	41-125		1	12/13/16 06:57	12/19/16 18:27	321-60-8	
p-Terphenyl-d14 (S)	77	%	39-125		1	12/13/16 06:57	12/19/16 18:27	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<2880	ug/kg	2880	866	1	12/13/16 10:20	12/13/16 22:51	67-64-1	
Allyl chloride	<377	ug/kg	377	113	1	12/13/16 10:20	12/13/16 22:51	107-05-1	
Benzene	<38.0	ug/kg	38.0	11.4	1	12/13/16 10:20	12/13/16 22:51	71-43-2	
Bromobenzene	<113	ug/kg	113	33.8	1	12/13/16 10:20	12/13/16 22:51	108-86-1	
Bromochloromethane	<131	ug/kg	131	39.3	1	12/13/16 10:20	12/13/16 22:51	74-97-5	
Bromodichloromethane	<123	ug/kg	123	37.0	1	12/13/16 10:20	12/13/16 22:51	75-27-4	
Bromoform	<379	ug/kg	379	114	1	12/13/16 10:20	12/13/16 22:51	75-25-2	
Bromomethane	<446	ug/kg	446	134	1	12/13/16 10:20	12/13/16 22:51	74-83-9	
2-Butanone (MEK)	<580	ug/kg	580	174	1	12/13/16 10:20	12/13/16 22:51	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Sample Project No.: 10372645

Sample: **S21\_26-31** Lab ID: **10372645005** Collected: 12/08/16 10:30 Received: 12/08/16 18:35 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<106	ug/kg	106	31.9	1	12/13/16 10:20	12/13/16 22:51	104-51-8	
sec-Butylbenzene	<104	ug/kg	104	31.2	1	12/13/16 10:20	12/13/16 22:51	135-98-8	
tert-Butylbenzene	<139	ug/kg	139	41.7	1	12/13/16 10:20	12/13/16 22:51	98-06-6	
Carbon tetrachloride	<138	ug/kg	138	41.5	1	12/13/16 10:20	12/13/16 22:51	56-23-5	
Chlorobenzene	<76.5	ug/kg	76.5	23.0	1	12/13/16 10:20	12/13/16 22:51	108-90-7	
Chloroethane	<695	ug/kg	695	209	1	12/13/16 10:20	12/13/16 22:51	75-00-3	
Chloroform	<214	ug/kg	214	64.2	1	12/13/16 10:20	12/13/16 22:51	67-66-3	
Chloromethane	<213	ug/kg	213	63.9	1	12/13/16 10:20	12/13/16 22:51	74-87-3	
2-Chlorotoluene	<121	ug/kg	121	36.4	1	12/13/16 10:20	12/13/16 22:51	95-49-8	
4-Chlorotoluene	<115	ug/kg	115	34.6	1	12/13/16 10:20	12/13/16 22:51	106-43-4	
1,2-Dibromo-3-chloropropane	<257	ug/kg	257	257	1	12/13/16 10:20	12/13/16 22:51	96-12-8	
Dibromochloromethane	<377	ug/kg	377	113	1	12/13/16 10:20	12/13/16 22:51	124-48-1	
1,2-Dibromoethane (EDB)	<49.6	ug/kg	49.6	49.6	1	12/13/16 10:20	12/13/16 22:51	106-93-4	
Dibromomethane	<171	ug/kg	171	51.5	1	12/13/16 10:20	12/13/16 22:51	74-95-3	
1,2-Dichlorobenzene	<25.5	ug/kg	25.5	25.5	1	12/13/16 10:20	12/13/16 22:51	95-50-1	
1,3-Dichlorobenzene	<38.8	ug/kg	38.8	25.5	1	12/13/16 10:20	12/13/16 22:51	541-73-1	
1,4-Dichlorobenzene	<127	ug/kg	127	38.3	1	12/13/16 10:20	12/13/16 22:51	106-46-7	
Dichlorodifluoromethane	<135	ug/kg	135	40.4	1	12/13/16 10:20	12/13/16 22:51	75-71-8	
1,1-Dichloroethane	<51.2	ug/kg	51.2	51.2	1	12/13/16 10:20	12/13/16 22:51	75-34-3	
1,2-Dichloroethane	<41.7	ug/kg	41.7	41.7	1	12/13/16 10:20	12/13/16 22:51	107-06-2	
1,1-Dichloroethene	<33.5	ug/kg	33.5	33.5	1	12/13/16 10:20	12/13/16 22:51	75-35-4	
cis-1,2-Dichloroethene	<164	ug/kg	164	49.1	1	12/13/16 10:20	12/13/16 22:51	156-59-2	
trans-1,2-Dichloroethene	<212	ug/kg	212	63.6	1	12/13/16 10:20	12/13/16 22:51	156-60-5	
Dichlorofluoromethane	<1200	ug/kg	1200	362	1	12/13/16 10:20	12/13/16 22:51	75-43-4	
1,2-Dichloropropane	<45.7	ug/kg	45.7	45.7	1	12/13/16 10:20	12/13/16 22:51	78-87-5	
1,3-Dichloropropane	<157	ug/kg	157	47.3	1	12/13/16 10:20	12/13/16 22:51	142-28-9	
2,2-Dichloropropane	<140	ug/kg	140	42.0	1	12/13/16 10:20	12/13/16 22:51	594-20-7	
1,1-Dichloropropene	<39.9	ug/kg	39.9	39.9	1	12/13/16 10:20	12/13/16 22:51	563-58-6	
cis-1,3-Dichloropropene	<200	ug/kg	200	60.2	1	12/13/16 10:20	12/13/16 22:51	10061-01-5	
trans-1,3-Dichloropropene	<149	ug/kg	149	44.9	1	12/13/16 10:20	12/13/16 22:51	10061-02-6	
Diethyl ether (Ethyl ether)	<181	ug/kg	181	54.4	1	12/13/16 10:20	12/13/16 22:51	60-29-7	
Ethylbenzene	<140	ug/kg	140	42.0	1	12/13/16 10:20	12/13/16 22:51	100-41-4	
Hexachloro-1,3-butadiene	<413	ug/kg	413	124	1	12/13/16 10:20	12/13/16 22:51	87-68-3	
Isopropylbenzene (Cumene)	<157	ug/kg	157	47.0	1	12/13/16 10:20	12/13/16 22:51	98-82-8	
p-Isopropyltoluene	<73.0	ug/kg	73.0	21.9	1	12/13/16 10:20	12/13/16 22:51	99-87-6	
Methylene Chloride	<814	ug/kg	814	244	1	12/13/16 10:20	12/13/16 22:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	<291	ug/kg	291	87.4	1	12/13/16 10:20	12/13/16 22:51	108-10-1	
Methyl-tert-butyl ether	<82.3	ug/kg	82.3	24.7	1	12/13/16 10:20	12/13/16 22:51	1634-04-4	
Naphthalene	<106	ug/kg	106	31.9	1	12/13/16 10:20	12/13/16 22:51	91-20-3	
n-Propylbenzene	<131	ug/kg	131	39.3	1	12/13/16 10:20	12/13/16 22:51	103-65-1	
Styrene	<114	ug/kg	114	34.3	1	12/13/16 10:20	12/13/16 22:51	100-42-5	
1,1,1,2-Tetrachloroethane	<52.3	ug/kg	52.3	52.3	1	12/13/16 10:20	12/13/16 22:51	630-20-6	
1,1,2,2-Tetrachloroethane	<29.3	ug/kg	29.3	29.3	1	12/13/16 10:20	12/13/16 22:51	79-34-5	
Tetrachloroethene	<168	ug/kg	168	50.4	1	12/13/16 10:20	12/13/16 22:51	127-18-4	
Tetrahydrofuran	<2180	ug/kg	2180	655	1	12/13/16 10:20	12/13/16 22:51	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S21\_26-31**      **Lab ID: 10372645005**      Collected: 12/08/16 10:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<140	ug/kg	140	42.0	1	12/13/16 10:20	12/13/16 22:51	108-88-3	
1,2,3-Trichlorobenzene	<38.0	ug/kg	38.0	38.0	1	12/13/16 10:20	12/13/16 22:51	87-61-6	
1,2,4-Trichlorobenzene	<40.7	ug/kg	40.7	40.7	1	12/13/16 10:20	12/13/16 22:51	120-82-1	
1,1,1-Trichloroethane	<55.2	ug/kg	55.2	55.2	1	12/13/16 10:20	12/13/16 22:51	71-55-6	
1,1,2-Trichloroethane	<28.5	ug/kg	28.5	28.5	1	12/13/16 10:20	12/13/16 22:51	79-00-5	
Trichloroethene	<126	ug/kg	126	37.8	1	12/13/16 10:20	12/13/16 22:51	79-01-6	
Trichlorofluoromethane	<441	ug/kg	441	133	1	12/13/16 10:20	12/13/16 22:51	75-69-4	
1,2,3-Trichloropropane	<137	ug/kg	137	137	1	12/13/16 10:20	12/13/16 22:51	96-18-4	
1,1,2-Trichlorotrifluoroethane	<317	ug/kg	317	95.1	1	12/13/16 10:20	12/13/16 22:51	76-13-1	
1,2,4-Trimethylbenzene	<29.0	ug/kg	29.0	29.0	1	12/13/16 10:20	12/13/16 22:51	95-63-6	
1,3,5-Trimethylbenzene	<101	ug/kg	101	30.4	1	12/13/16 10:20	12/13/16 22:51	108-67-8	
Vinyl chloride	<56.4	ug/kg	56.4	17.0	1	12/13/16 10:20	12/13/16 22:51	75-01-4	
Xylene (Total)	<352	ug/kg	352	106	1	12/13/16 10:20	12/13/16 22:51	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	89	%	75-129		1	12/13/16 10:20	12/13/16 22:51	17060-07-0	
Toluene-d8 (S)	96	%	75-125		1	12/13/16 10:20	12/13/16 22:51	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/13/16 10:20	12/13/16 22:51	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S22\_24-24.5**      **Lab ID: 10372645006**      Collected: 12/08/16 11:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	6.9	mg/kg	0.82	0.25	1	12/20/16 09:30	12/21/16 10:23	7440-38-2	
Barium	43.9	mg/kg	0.065	0.020	1	12/20/16 09:30	12/21/16 10:23	7440-39-3	
Cadmium	0.17	mg/kg	0.039	0.012	1	12/20/16 09:30	12/21/16 10:23	7440-43-9	
Chromium	17.6	mg/kg	0.43	0.13	1	12/20/16 09:30	12/21/16 10:23	7440-47-3	
Lead	15.2	mg/kg	0.41	0.12	1	12/20/16 09:30	12/21/16 10:23	7439-92-1	
Selenium	<1.2	mg/kg	1.2	0.36	1	12/20/16 09:30	12/21/16 10:23	7782-49-2	
Silver	<0.33	mg/kg	0.33	0.098	1	12/20/16 09:30	12/21/16 10:23	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.24	mg/kg	0.023	0.0069	1	12/20/16 13:17	12/21/16 16:32	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	33.3	%	0.10	0.10	1		12/21/16 15:25		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	7.5	ug/kg	2.0	0.59	1	12/13/16 06:57	12/19/16 18:48	83-32-9	
Acenaphthylene	8.2	ug/kg	1.4	0.41	1	12/13/16 06:57	12/19/16 18:48	208-96-8	
Anthracene	19.0	ug/kg	2.3	0.68	1	12/13/16 06:57	12/19/16 18:48	120-12-7	M1
Benzo(a)anthracene	60.1	ug/kg	2.3	0.70	1	12/13/16 06:57	12/19/16 18:48	56-55-3	M1
Benzo(a)pyrene	66.2	ug/kg	1.7	0.52	1	12/13/16 06:57	12/19/16 18:48	50-32-8	M1
Benzo(b)fluoranthene	74.2	ug/kg	2.9	0.86	1	12/13/16 06:57	12/19/16 18:48	205-99-2	M1
Benzo(g,h,i)perylene	40.0	ug/kg	2.3	0.69	1	12/13/16 06:57	12/19/16 18:48	191-24-2	M1
Benzo(k)fluoranthene	30.1	ug/kg	2.5	0.74	1	12/13/16 06:57	12/19/16 18:48	207-08-9	M1
Chrysene	62.1	ug/kg	2.8	0.83	1	12/13/16 06:57	12/19/16 18:48	218-01-9	M1
Dibenz(a,h)anthracene	11.7	ug/kg	1.6	0.49	1	12/13/16 06:57	12/19/16 18:48	53-70-3	
Fluoranthene	102	ug/kg	3.9	1.2	1	12/13/16 06:57	12/19/16 18:48	206-44-0	M1
Fluorene	7.7	ug/kg	1.9	0.58	1	12/13/16 06:57	12/19/16 18:48	86-73-7	
Indeno(1,2,3-cd)pyrene	34.5	ug/kg	3.7	1.1	1	12/13/16 06:57	12/19/16 18:48	193-39-5	M1
Naphthalene	7.2	ug/kg	1.8	0.54	1	12/13/16 06:57	12/19/16 18:48	91-20-3	
Phenanthrene	57.7	ug/kg	2.0	0.60	1	12/13/16 06:57	12/19/16 18:48	85-01-8	M1
Pyrene	89.0	ug/kg	4.1	1.2	1	12/13/16 06:57	12/19/16 18:48	129-00-0	M1
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	83	%	41-125		1	12/13/16 06:57	12/19/16 18:48	321-60-8	
p-Terphenyl-d14 (S)	82	%	39-125		1	12/13/16 06:57	12/19/16 18:48	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1650	ug/kg	1650	495	1	12/13/16 10:20	12/13/16 23:07	67-64-1	
Allyl chloride	<216	ug/kg	216	64.8	1	12/13/16 10:20	12/13/16 23:07	107-05-1	
Benzene	<21.7	ug/kg	21.7	6.5	1	12/13/16 10:20	12/13/16 23:07	71-43-2	
Bromobenzene	<64.3	ug/kg	64.3	19.3	1	12/13/16 10:20	12/13/16 23:07	108-86-1	
Bromochloromethane	<74.9	ug/kg	74.9	22.5	1	12/13/16 10:20	12/13/16 23:07	74-97-5	
Bromodichloromethane	<70.4	ug/kg	70.4	21.1	1	12/13/16 10:20	12/13/16 23:07	75-27-4	
Bromoform	<217	ug/kg	217	65.1	1	12/13/16 10:20	12/13/16 23:07	75-25-2	
Bromomethane	<255	ug/kg	255	76.5	1	12/13/16 10:20	12/13/16 23:07	74-83-9	
2-Butanone (MEK)	<332	ug/kg	332	99.6	1	12/13/16 10:20	12/13/16 23:07	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Sample: **S22\_24-24.5** Lab ID: **10372645006** Collected: 12/08/16 11:00 Received: 12/08/16 18:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<60.8	ug/kg	60.8	18.3	1	12/13/16 10:20	12/13/16 23:07	104-51-8	
sec-Butylbenzene	<59.3	ug/kg	59.3	17.8	1	12/13/16 10:20	12/13/16 23:07	135-98-8	
tert-Butylbenzene	<79.4	ug/kg	79.4	23.9	1	12/13/16 10:20	12/13/16 23:07	98-06-6	
Carbon tetrachloride	<78.9	ug/kg	78.9	23.7	1	12/13/16 10:20	12/13/16 23:07	56-23-5	
Chlorobenzene	<43.7	ug/kg	43.7	13.1	1	12/13/16 10:20	12/13/16 23:07	108-90-7	
Chloroethane	<397	ug/kg	397	119	1	12/13/16 10:20	12/13/16 23:07	75-00-3	
Chloroform	<122	ug/kg	122	36.7	1	12/13/16 10:20	12/13/16 23:07	67-66-3	
Chloromethane	<122	ug/kg	122	36.5	1	12/13/16 10:20	12/13/16 23:07	74-87-3	
2-Chlorotoluene	<69.4	ug/kg	69.4	20.8	1	12/13/16 10:20	12/13/16 23:07	95-49-8	
4-Chlorotoluene	<65.9	ug/kg	65.9	19.8	1	12/13/16 10:20	12/13/16 23:07	106-43-4	
1,2-Dibromo-3-chloropropane	<147	ug/kg	147	147	1	12/13/16 10:20	12/13/16 23:07	96-12-8	
Dibromochloromethane	<216	ug/kg	216	64.8	1	12/13/16 10:20	12/13/16 23:07	124-48-1	
1,2-Dibromoethane (EDB)	<28.4	ug/kg	28.4	28.4	1	12/13/16 10:20	12/13/16 23:07	106-93-4	
Dibromomethane	<98.0	ug/kg	98.0	29.4	1	12/13/16 10:20	12/13/16 23:07	74-95-3	
1,2-Dichlorobenzene	<14.6	ug/kg	14.6	14.6	1	12/13/16 10:20	12/13/16 23:07	95-50-1	
1,3-Dichlorobenzene	<22.2	ug/kg	22.2	14.6	1	12/13/16 10:20	12/13/16 23:07	541-73-1	
1,4-Dichlorobenzene	<72.9	ug/kg	72.9	21.9	1	12/13/16 10:20	12/13/16 23:07	106-46-7	
Dichlorodifluoromethane	<76.9	ug/kg	76.9	23.1	1	12/13/16 10:20	12/13/16 23:07	75-71-8	
1,1-Dichloroethane	<29.3	ug/kg	29.3	29.3	1	12/13/16 10:20	12/13/16 23:07	75-34-3	
1,2-Dichloroethane	<23.9	ug/kg	23.9	23.9	1	12/13/16 10:20	12/13/16 23:07	107-06-2	
1,1-Dichloroethene	<19.2	ug/kg	19.2	19.2	1	12/13/16 10:20	12/13/16 23:07	75-35-4	
cis-1,2-Dichloroethene	<93.5	ug/kg	93.5	28.1	1	12/13/16 10:20	12/13/16 23:07	156-59-2	
trans-1,2-Dichloroethene	<121	ug/kg	121	36.4	1	12/13/16 10:20	12/13/16 23:07	156-60-5	
Dichlorofluoromethane	<689	ug/kg	689	207	1	12/13/16 10:20	12/13/16 23:07	75-43-4	
1,2-Dichloropropane	<26.1	ug/kg	26.1	26.1	1	12/13/16 10:20	12/13/16 23:07	78-87-5	
1,3-Dichloropropane	<90.0	ug/kg	90.0	27.0	1	12/13/16 10:20	12/13/16 23:07	142-28-9	
2,2-Dichloropropane	<79.9	ug/kg	79.9	24.0	1	12/13/16 10:20	12/13/16 23:07	594-20-7	
1,1-Dichloropropene	<22.8	ug/kg	22.8	22.8	1	12/13/16 10:20	12/13/16 23:07	563-58-6	
cis-1,3-Dichloropropene	<115	ug/kg	115	34.4	1	12/13/16 10:20	12/13/16 23:07	10061-01-5	
trans-1,3-Dichloropropene	<85.5	ug/kg	85.5	25.7	1	12/13/16 10:20	12/13/16 23:07	10061-02-6	
Diethyl ether (Ethyl ether)	<104	ug/kg	104	31.1	1	12/13/16 10:20	12/13/16 23:07	60-29-7	
Ethylbenzene	<79.9	ug/kg	79.9	24.0	1	12/13/16 10:20	12/13/16 23:07	100-41-4	
Hexachloro-1,3-butadiene	<236	ug/kg	236	71.0	1	12/13/16 10:20	12/13/16 23:07	87-68-3	
Isopropylbenzene (Cumene)	<89.5	ug/kg	89.5	26.9	1	12/13/16 10:20	12/13/16 23:07	98-82-8	
p-Isopropyltoluene	<41.7	ug/kg	41.7	12.5	1	12/13/16 10:20	12/13/16 23:07	99-87-6	
Methylene Chloride	<466	ug/kg	466	140	1	12/13/16 10:20	12/13/16 23:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	<166	ug/kg	166	50.0	1	12/13/16 10:20	12/13/16 23:07	108-10-1	
Methyl-tert-butyl ether	<47.1	ug/kg	47.1	14.1	1	12/13/16 10:20	12/13/16 23:07	1634-04-4	
Naphthalene	<60.8	ug/kg	60.8	18.3	1	12/13/16 10:20	12/13/16 23:07	91-20-3	
n-Propylbenzene	<74.9	ug/kg	74.9	22.5	1	12/13/16 10:20	12/13/16 23:07	103-65-1	
Styrene	<65.4	ug/kg	65.4	19.6	1	12/13/16 10:20	12/13/16 23:07	100-42-5	
1,1,1,2-Tetrachloroethane	<29.9	ug/kg	29.9	29.9	1	12/13/16 10:20	12/13/16 23:07	630-20-6	
1,1,2,2-Tetrachloroethane	<16.8	ug/kg	16.8	16.8	1	12/13/16 10:20	12/13/16 23:07	79-34-5	
Tetrachloroethene	<96.0	ug/kg	96.0	28.8	1	12/13/16 10:20	12/13/16 23:07	127-18-4	
Tetrahydrofuran	<1250	ug/kg	1250	374	1	12/13/16 10:20	12/13/16 23:07	109-99-9	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S22\_24-24.5**      **Lab ID: 10372645006**      Collected: 12/08/16 11:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<79.9	ug/kg	79.9	24.0	1	12/13/16 10:20	12/13/16 23:07	108-88-3	
1,2,3-Trichlorobenzene	<21.7	ug/kg	21.7	21.7	1	12/13/16 10:20	12/13/16 23:07	87-61-6	
1,2,4-Trichlorobenzene	<23.2	ug/kg	23.2	23.2	1	12/13/16 10:20	12/13/16 23:07	120-82-1	
1,1,1-Trichloroethane	<31.6	ug/kg	31.6	31.6	1	12/13/16 10:20	12/13/16 23:07	71-55-6	
1,1,2-Trichloroethane	<16.3	ug/kg	16.3	16.3	1	12/13/16 10:20	12/13/16 23:07	79-00-5	
Trichloroethene	<71.9	ug/kg	71.9	21.6	1	12/13/16 10:20	12/13/16 23:07	79-01-6	
Trichlorofluoromethane	<252	ug/kg	252	75.8	1	12/13/16 10:20	12/13/16 23:07	75-69-4	
1,2,3-Trichloropropane	<78.2	ug/kg	78.2	78.2	1	12/13/16 10:20	12/13/16 23:07	96-18-4	
1,1,2-Trichlorotrifluoroethane	<181	ug/kg	181	54.3	1	12/13/16 10:20	12/13/16 23:07	76-13-1	
1,2,4-Trimethylbenzene	<16.6	ug/kg	16.6	16.6	1	12/13/16 10:20	12/13/16 23:07	95-63-6	
1,3,5-Trimethylbenzene	<57.8	ug/kg	57.8	17.4	1	12/13/16 10:20	12/13/16 23:07	108-67-8	
Vinyl chloride	<32.3	ug/kg	32.3	9.7	1	12/13/16 10:20	12/13/16 23:07	75-01-4	
Xylene (Total)	<201	ug/kg	201	60.4	1	12/13/16 10:20	12/13/16 23:07	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	89	%	75-129		1	12/13/16 10:20	12/13/16 23:07	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/13/16 10:20	12/13/16 23:07	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/13/16 10:20	12/13/16 23:07	460-00-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Sample: **S22\_24.5-28** Lab ID: **10372645007** Collected: 12/08/16 11:15 Received: 12/08/16 18:35 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	1.7	mg/kg	0.65	0.19	1	12/20/16 09:30	12/21/16 10:26	7440-38-2	
Barium	23.6	mg/kg	0.052	0.016	1	12/20/16 09:30	12/21/16 10:26	7440-39-3	
Cadmium	0.084	mg/kg	0.031	0.0092	1	12/20/16 09:30	12/21/16 10:26	7440-43-9	
Chromium	8.8	mg/kg	0.34	0.10	1	12/20/16 09:30	12/21/16 10:26	7440-47-3	
Lead	8.6	mg/kg	0.32	0.097	1	12/20/16 09:30	12/21/16 10:26	7439-92-1	
Selenium	<0.94	mg/kg	0.94	0.28	1	12/20/16 09:30	12/21/16 10:26	7782-49-2	
Silver	<0.26	mg/kg	0.26	0.078	1	12/20/16 09:30	12/21/16 10:26	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.18	mg/kg	0.022	0.0067	1	12/20/16 13:17	12/21/16 16:34	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	24.4	%	0.10	0.10	1		12/21/16 16:12		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	7.3	ug/kg	1.7	0.52	1	12/13/16 06:57	12/19/16 19:53	83-32-9	
Acenaphthylene	9.7	ug/kg	1.2	0.36	1	12/13/16 06:57	12/19/16 19:53	208-96-8	
Anthracene	15.0	ug/kg	2.0	0.60	1	12/13/16 06:57	12/19/16 19:53	120-12-7	
Benzo(a)anthracene	52.4	ug/kg	2.1	0.62	1	12/13/16 06:57	12/19/16 19:53	56-55-3	
Benzo(a)pyrene	57.6	ug/kg	1.5	0.46	1	12/13/16 06:57	12/19/16 19:53	50-32-8	
Benzo(b)fluoranthene	72.6	ug/kg	2.5	0.76	1	12/13/16 06:57	12/19/16 19:53	205-99-2	
Benzo(g,h,i)perylene	37.9	ug/kg	2.0	0.60	1	12/13/16 06:57	12/19/16 19:53	191-24-2	
Benzo(k)fluoranthene	26.9	ug/kg	2.2	0.65	1	12/13/16 06:57	12/19/16 19:53	207-08-9	
Chrysene	55.6	ug/kg	2.4	0.73	1	12/13/16 06:57	12/19/16 19:53	218-01-9	
Dibenz(a,h)anthracene	9.5	ug/kg	1.4	0.43	1	12/13/16 06:57	12/19/16 19:53	53-70-3	
Fluoranthene	116	ug/kg	3.4	1.0	1	12/13/16 06:57	12/19/16 19:53	206-44-0	
Fluorene	8.3	ug/kg	1.7	0.51	1	12/13/16 06:57	12/19/16 19:53	86-73-7	
Indeno(1,2,3-cd)pyrene	33.4	ug/kg	3.3	0.99	1	12/13/16 06:57	12/19/16 19:53	193-39-5	
Naphthalene	12.8	ug/kg	1.6	0.47	1	12/13/16 06:57	12/19/16 19:53	91-20-3	
Phenanthrene	62.8	ug/kg	1.8	0.53	1	12/13/16 06:57	12/19/16 19:53	85-01-8	
Pyrene	101	ug/kg	3.6	1.1	1	12/13/16 06:57	12/19/16 19:53	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	84	%	41-125		1	12/13/16 06:57	12/19/16 19:53	321-60-8	
p-Terphenyl-d14 (S)	73	%	39-125		1	12/13/16 06:57	12/19/16 19:53	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1520	ug/kg	1520	457	1	12/13/16 10:20	12/13/16 23:24	67-64-1	
Allyl chloride	<199	ug/kg	199	59.8	1	12/13/16 10:20	12/13/16 23:24	107-05-1	
Benzene	<20.0	ug/kg	20.0	6.0	1	12/13/16 10:20	12/13/16 23:24	71-43-2	B
Bromobenzene	<59.4	ug/kg	59.4	17.8	1	12/13/16 10:20	12/13/16 23:24	108-86-1	
Bromochloromethane	<69.1	ug/kg	69.1	20.8	1	12/13/16 10:20	12/13/16 23:24	74-97-5	
Bromodichloromethane	<65.0	ug/kg	65.0	19.5	1	12/13/16 10:20	12/13/16 23:24	75-27-4	
Bromoform	<200	ug/kg	200	60.1	1	12/13/16 10:20	12/13/16 23:24	75-25-2	
Bromomethane	<235	ug/kg	235	70.6	1	12/13/16 10:20	12/13/16 23:24	74-83-9	
2-Butanone (MEK)	<306	ug/kg	306	92.0	1	12/13/16 10:20	12/13/16 23:24	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Sample: **S22\_24.5-28** Lab ID: **10372645007** Collected: 12/08/16 11:15 Received: 12/08/16 18:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<56.1	ug/kg	56.1	16.9	1	12/13/16 10:20	12/13/16 23:24	104-51-8	
sec-Butylbenzene	<54.8	ug/kg	54.8	16.4	1	12/13/16 10:20	12/13/16 23:24	135-98-8	
tert-Butylbenzene	<73.3	ug/kg	73.3	22.0	1	12/13/16 10:20	12/13/16 23:24	98-06-6	
Carbon tetrachloride	<72.9	ug/kg	72.9	21.9	1	12/13/16 10:20	12/13/16 23:24	56-23-5	
Chlorobenzene	<40.4	ug/kg	40.4	12.1	1	12/13/16 10:20	12/13/16 23:24	108-90-7	
Chloroethane	<367	ug/kg	367	110	1	12/13/16 10:20	12/13/16 23:24	75-00-3	
Chloroform	<113	ug/kg	113	33.9	1	12/13/16 10:20	12/13/16 23:24	67-66-3	
Chloromethane	<112	ug/kg	112	33.7	1	12/13/16 10:20	12/13/16 23:24	74-87-3	
2-Chlorotoluene	<64.0	ug/kg	64.0	19.2	1	12/13/16 10:20	12/13/16 23:24	95-49-8	
4-Chlorotoluene	<60.8	ug/kg	60.8	18.3	1	12/13/16 10:20	12/13/16 23:24	106-43-4	
1,2-Dibromo-3-chloropropane	<136	ug/kg	136	136	1	12/13/16 10:20	12/13/16 23:24	96-12-8	
Dibromochloromethane	<199	ug/kg	199	59.8	1	12/13/16 10:20	12/13/16 23:24	124-48-1	
1,2-Dibromoethane (EDB)	<26.2	ug/kg	26.2	26.2	1	12/13/16 10:20	12/13/16 23:24	106-93-4	
Dibromomethane	<90.5	ug/kg	90.5	27.2	1	12/13/16 10:20	12/13/16 23:24	74-95-3	
1,2-Dichlorobenzene	<13.5	ug/kg	13.5	13.5	1	12/13/16 10:20	12/13/16 23:24	95-50-1	
1,3-Dichlorobenzene	<20.5	ug/kg	20.5	13.5	1	12/13/16 10:20	12/13/16 23:24	541-73-1	
1,4-Dichlorobenzene	<67.3	ug/kg	67.3	20.2	1	12/13/16 10:20	12/13/16 23:24	106-46-7	
Dichlorodifluoromethane	<71.0	ug/kg	71.0	21.3	1	12/13/16 10:20	12/13/16 23:24	75-71-8	
1,1-Dichloroethane	<27.0	ug/kg	27.0	27.0	1	12/13/16 10:20	12/13/16 23:24	75-34-3	
1,2-Dichloroethane	<22.0	ug/kg	22.0	22.0	1	12/13/16 10:20	12/13/16 23:24	107-06-2	
1,1-Dichloroethene	<17.7	ug/kg	17.7	17.7	1	12/13/16 10:20	12/13/16 23:24	75-35-4	
cis-1,2-Dichloroethene	<86.3	ug/kg	86.3	25.9	1	12/13/16 10:20	12/13/16 23:24	156-59-2	
trans-1,2-Dichloroethene	<112	ug/kg	112	33.6	1	12/13/16 10:20	12/13/16 23:24	156-60-5	
Dichlorofluoromethane	<636	ug/kg	636	191	1	12/13/16 10:20	12/13/16 23:24	75-43-4	
1,2-Dichloropropane	<24.1	ug/kg	24.1	24.1	1	12/13/16 10:20	12/13/16 23:24	78-87-5	
1,3-Dichloropropane	<83.1	ug/kg	83.1	24.9	1	12/13/16 10:20	12/13/16 23:24	142-28-9	
2,2-Dichloropropane	<73.8	ug/kg	73.8	22.2	1	12/13/16 10:20	12/13/16 23:24	594-20-7	
1,1-Dichloropropene	<21.0	ug/kg	21.0	21.0	1	12/13/16 10:20	12/13/16 23:24	563-58-6	
cis-1,3-Dichloropropene	<106	ug/kg	106	31.8	1	12/13/16 10:20	12/13/16 23:24	10061-01-5	
trans-1,3-Dichloropropene	<78.9	ug/kg	78.9	23.7	1	12/13/16 10:20	12/13/16 23:24	10061-02-6	
Diethyl ether (Ethyl ether)	<95.6	ug/kg	95.6	28.7	1	12/13/16 10:20	12/13/16 23:24	60-29-7	
Ethylbenzene	<73.8	ug/kg	73.8	22.2	1	12/13/16 10:20	12/13/16 23:24	100-41-4	
Hexachloro-1,3-butadiene	<218	ug/kg	218	65.5	1	12/13/16 10:20	12/13/16 23:24	87-68-3	
Isopropylbenzene (Cumene)	<82.6	ug/kg	82.6	24.8	1	12/13/16 10:20	12/13/16 23:24	98-82-8	
p-Isopropyltoluene	<38.5	ug/kg	38.5	11.6	1	12/13/16 10:20	12/13/16 23:24	99-87-6	
Methylene Chloride	<430	ug/kg	430	129	1	12/13/16 10:20	12/13/16 23:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	<154	ug/kg	154	46.1	1	12/13/16 10:20	12/13/16 23:24	108-10-1	
Methyl-tert-butyl ether	<43.4	ug/kg	43.4	13.0	1	12/13/16 10:20	12/13/16 23:24	1634-04-4	
Naphthalene	<56.1	ug/kg	56.1	16.9	1	12/13/16 10:20	12/13/16 23:24	91-20-3	B
n-Propylbenzene	<69.1	ug/kg	69.1	20.8	1	12/13/16 10:20	12/13/16 23:24	103-65-1	
Styrene	<60.3	ug/kg	60.3	18.1	1	12/13/16 10:20	12/13/16 23:24	100-42-5	
1,1,1,2-Tetrachloroethane	<27.6	ug/kg	27.6	27.6	1	12/13/16 10:20	12/13/16 23:24	630-20-6	
1,1,2,2-Tetrachloroethane	<15.5	ug/kg	15.5	15.5	1	12/13/16 10:20	12/13/16 23:24	79-34-5	
Tetrachloroethene	<88.6	ug/kg	88.6	26.6	1	12/13/16 10:20	12/13/16 23:24	127-18-4	
Tetrahydrofuran	<1150	ug/kg	1150	346	1	12/13/16 10:20	12/13/16 23:24	109-99-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S22\_24.5-28**      **Lab ID: 10372645007**      Collected: 12/08/16 11:15      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<73.8	ug/kg	73.8	22.2	1	12/13/16 10:20	12/13/16 23:24	108-88-3	
1,2,3-Trichlorobenzene	<20.1	ug/kg	20.1	20.1	1	12/13/16 10:20	12/13/16 23:24	87-61-6	
1,2,4-Trichlorobenzene	<21.5	ug/kg	21.5	21.5	1	12/13/16 10:20	12/13/16 23:24	120-82-1	
1,1,1-Trichloroethane	<29.1	ug/kg	29.1	29.1	1	12/13/16 10:20	12/13/16 23:24	71-55-6	
1,1,2-Trichloroethane	<15.0	ug/kg	15.0	15.0	1	12/13/16 10:20	12/13/16 23:24	79-00-5	
Trichloroethene	<66.4	ug/kg	66.4	19.9	1	12/13/16 10:20	12/13/16 23:24	79-01-6	
Trichlorofluoromethane	<233	ug/kg	233	70.0	1	12/13/16 10:20	12/13/16 23:24	75-69-4	
1,2,3-Trichloropropane	<72.2	ug/kg	72.2	72.2	1	12/13/16 10:20	12/13/16 23:24	96-18-4	
1,1,2-Trichlorotrifluoroethane	<167	ug/kg	167	50.2	1	12/13/16 10:20	12/13/16 23:24	76-13-1	
1,2,4-Trimethylbenzene	<15.3	ug/kg	15.3	15.3	1	12/13/16 10:20	12/13/16 23:24	95-63-6	
1,3,5-Trimethylbenzene	<53.4	ug/kg	53.4	16.0	1	12/13/16 10:20	12/13/16 23:24	108-67-8	
Vinyl chloride	<29.8	ug/kg	29.8	8.9	1	12/13/16 10:20	12/13/16 23:24	75-01-4	
Xylene (Total)	<186	ug/kg	186	55.7	1	12/13/16 10:20	12/13/16 23:24	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	87	%	75-129		1	12/13/16 10:20	12/13/16 23:24	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/13/16 10:20	12/13/16 23:24	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125		1	12/13/16 10:20	12/13/16 23:24	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S23\_26.5-28.5**      **Lab ID: 10372645008**      Collected: 12/08/16 11:45      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	1.5	mg/kg	0.77	0.23	1	12/20/16 09:30	12/21/16 10:28	7440-38-2	
Barium	16.8	mg/kg	0.062	0.018	1	12/20/16 09:30	12/21/16 10:28	7440-39-3	
Cadmium	<0.037	mg/kg	0.037	0.011	1	12/20/16 09:30	12/21/16 10:28	7440-43-9	
Chromium	5.8	mg/kg	0.40	0.12	1	12/20/16 09:30	12/21/16 10:28	7440-47-3	
Lead	2.5	mg/kg	0.38	0.12	1	12/20/16 09:30	12/21/16 10:28	7439-92-1	
Selenium	<1.1	mg/kg	1.1	0.34	1	12/20/16 09:30	12/21/16 10:28	7782-49-2	
Silver	<0.31	mg/kg	0.31	0.092	1	12/20/16 09:30	12/21/16 10:28	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<0.023	mg/kg	0.023	0.0068	1	12/20/16 13:17	12/21/16 16:36	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	23.4	%	0.10	0.10	1		12/21/16 16:12		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	7.4	ug/kg	1.7	0.51	1	12/13/16 06:57	12/19/16 20:15	83-32-9	
Acenaphthylene	2.3	ug/kg	1.2	0.35	1	12/13/16 06:57	12/19/16 20:15	208-96-8	
Anthracene	14.4	ug/kg	2.0	0.59	1	12/13/16 06:57	12/19/16 20:15	120-12-7	
Benzo(a)anthracene	20.8	ug/kg	2.0	0.61	1	12/13/16 06:57	12/19/16 20:15	56-55-3	
Benzo(a)pyrene	18.3	ug/kg	1.5	0.45	1	12/13/16 06:57	12/19/16 20:15	50-32-8	
Benzo(b)fluoranthene	22.3	ug/kg	2.5	0.75	1	12/13/16 06:57	12/19/16 20:15	205-99-2	
Benzo(g,h,i)perylene	12.3	ug/kg	2.0	0.60	1	12/13/16 06:57	12/19/16 20:15	191-24-2	
Benzo(k)fluoranthene	10.4	ug/kg	2.1	0.64	1	12/13/16 06:57	12/19/16 20:15	207-08-9	
Chrysene	23.7	ug/kg	2.4	0.72	1	12/13/16 06:57	12/19/16 20:15	218-01-9	
Dibenz(a,h)anthracene	2.2	ug/kg	1.4	0.43	1	12/13/16 06:57	12/19/16 20:15	53-70-3	
Fluoranthene	55.5	ug/kg	3.4	1.0	1	12/13/16 06:57	12/19/16 20:15	206-44-0	
Fluorene	4.4	ug/kg	1.7	0.50	1	12/13/16 06:57	12/19/16 20:15	86-73-7	
Indeno(1,2,3-cd)pyrene	10	ug/kg	3.2	0.98	1	12/13/16 06:57	12/19/16 20:15	193-39-5	
Naphthalene	2.8	ug/kg	1.5	0.46	1	12/13/16 06:57	12/19/16 20:15	91-20-3	
Phenanthrene	43.9	ug/kg	1.7	0.52	1	12/13/16 06:57	12/19/16 20:15	85-01-8	
Pyrene	54.4	ug/kg	3.6	1.1	1	12/13/16 06:57	12/19/16 20:15	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	82	%	41-125		1	12/13/16 06:57	12/19/16 20:15	321-60-8	
p-Terphenyl-d14 (S)	70	%	39-125		1	12/13/16 06:57	12/19/16 20:15	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1360	ug/kg	1360	409	1	12/13/16 12:15	12/14/16 09:49	67-64-1	
Allyl chloride	<178	ug/kg	178	53.5	1	12/13/16 12:15	12/14/16 09:49	107-05-1	
Benzene	<17.9	ug/kg	17.9	5.4	1	12/13/16 12:15	12/14/16 09:49	71-43-2	
Bromobenzene	<53.2	ug/kg	53.2	16.0	1	12/13/16 12:15	12/14/16 09:49	108-86-1	
Bromochloromethane	<61.9	ug/kg	61.9	18.6	1	12/13/16 12:15	12/14/16 09:49	74-97-5	
Bromodichloromethane	<58.1	ug/kg	58.1	17.5	1	12/13/16 12:15	12/14/16 09:49	75-27-4	
Bromoform	<179	ug/kg	179	53.7	1	12/13/16 12:15	12/14/16 09:49	75-25-2	
Bromomethane	<211	ug/kg	211	63.2	1	12/13/16 12:15	12/14/16 09:49	74-83-9	
2-Butanone (MEK)	<274	ug/kg	274	82.3	1	12/13/16 12:15	12/14/16 09:49	78-93-3	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Sample: **S23\_26.5-28.5** Lab ID: **10372645008** Collected: 12/08/16 11:45 Received: 12/08/16 18:35 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<50.2	ug/kg	50.2	15.1	1	12/13/16 12:15	12/14/16 09:49	104-51-8	
sec-Butylbenzene	<49.0	ug/kg	49.0	14.7	1	12/13/16 12:15	12/14/16 09:49	135-98-8	
tert-Butylbenzene	<65.6	ug/kg	65.6	19.7	1	12/13/16 12:15	12/14/16 09:49	98-06-6	
Carbon tetrachloride	<65.2	ug/kg	65.2	19.6	1	12/13/16 12:15	12/14/16 09:49	56-23-5	
Chlorobenzene	<36.1	ug/kg	36.1	10.8	1	12/13/16 12:15	12/14/16 09:49	108-90-7	
Chloroethane	<328	ug/kg	328	98.5	1	12/13/16 12:15	12/14/16 09:49	75-00-3	
Chloroform	<101	ug/kg	101	30.3	1	12/13/16 12:15	12/14/16 09:49	67-66-3	
Chloromethane	<100	ug/kg	100	30.2	1	12/13/16 12:15	12/14/16 09:49	74-87-3	
2-Chlorotoluene	<57.3	ug/kg	57.3	17.2	1	12/13/16 12:15	12/14/16 09:49	95-49-8	
4-Chlorotoluene	<54.4	ug/kg	54.4	16.3	1	12/13/16 12:15	12/14/16 09:49	106-43-4	
1,2-Dibromo-3-chloropropane	<122	ug/kg	122	122	1	12/13/16 12:15	12/14/16 09:49	96-12-8	
Dibromochloromethane	<178	ug/kg	178	53.5	1	12/13/16 12:15	12/14/16 09:49	124-48-1	
1,2-Dibromoethane (EDB)	<23.4	ug/kg	23.4	23.4	1	12/13/16 12:15	12/14/16 09:49	106-93-4	
Dibromomethane	<81.0	ug/kg	81.0	24.3	1	12/13/16 12:15	12/14/16 09:49	74-95-3	
1,2-Dichlorobenzene	<12.0	ug/kg	12.0	12.0	1	12/13/16 12:15	12/14/16 09:49	95-50-1	
1,3-Dichlorobenzene	<18.3	ug/kg	18.3	18.3	1	12/13/16 12:15	12/14/16 09:49	541-73-1	
1,4-Dichlorobenzene	<60.2	ug/kg	60.2	18.1	1	12/13/16 12:15	12/14/16 09:49	106-46-7	
Dichlorodifluoromethane	<63.5	ug/kg	63.5	19.1	1	12/13/16 12:15	12/14/16 09:49	75-71-8	
1,1-Dichloroethane	<24.2	ug/kg	24.2	24.2	1	12/13/16 12:15	12/14/16 09:49	75-34-3	
1,2-Dichloroethane	<19.7	ug/kg	19.7	19.7	1	12/13/16 12:15	12/14/16 09:49	107-06-2	
1,1-Dichloroethene	<15.8	ug/kg	15.8	15.8	1	12/13/16 12:15	12/14/16 09:49	75-35-4	
cis-1,2-Dichloroethene	<77.2	ug/kg	77.2	23.2	1	12/13/16 12:15	12/14/16 09:49	156-59-2	
trans-1,2-Dichloroethene	<100	ug/kg	100	30.1	1	12/13/16 12:15	12/14/16 09:49	156-60-5	
Dichlorofluoromethane	<569	ug/kg	569	171	1	12/13/16 12:15	12/14/16 09:49	75-43-4	
1,2-Dichloropropane	<21.6	ug/kg	21.6	21.6	1	12/13/16 12:15	12/14/16 09:49	78-87-5	
1,3-Dichloropropane	<74.3	ug/kg	74.3	22.3	1	12/13/16 12:15	12/14/16 09:49	142-28-9	
2,2-Dichloropropane	<66.0	ug/kg	66.0	19.8	1	12/13/16 12:15	12/14/16 09:49	594-20-7	
1,1-Dichloropropene	<18.8	ug/kg	18.8	18.8	1	12/13/16 12:15	12/14/16 09:49	563-58-6	
cis-1,3-Dichloropropene	<94.7	ug/kg	94.7	28.4	1	12/13/16 12:15	12/14/16 09:49	10061-01-5	
trans-1,3-Dichloropropene	<70.6	ug/kg	70.6	21.2	1	12/13/16 12:15	12/14/16 09:49	10061-02-6	
Diethyl ether (Ethyl ether)	<85.5	ug/kg	85.5	25.7	1	12/13/16 12:15	12/14/16 09:49	60-29-7	
Ethylbenzene	<66.0	ug/kg	66.0	19.8	1	12/13/16 12:15	12/14/16 09:49	100-41-4	
Hexachloro-1,3-butadiene	<195	ug/kg	195	58.6	1	12/13/16 12:15	12/14/16 09:49	87-68-3	
Isopropylbenzene (Cumene)	<73.9	ug/kg	73.9	22.2	1	12/13/16 12:15	12/14/16 09:49	98-82-8	
p-Isopropyltoluene	<34.5	ug/kg	34.5	10.4	1	12/13/16 12:15	12/14/16 09:49	99-87-6	
Methylene Chloride	<385	ug/kg	385	115	1	12/13/16 12:15	12/14/16 09:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	<137	ug/kg	137	41.3	1	12/13/16 12:15	12/14/16 09:49	108-10-1	
Methyl-tert-butyl ether	<38.9	ug/kg	38.9	11.7	1	12/13/16 12:15	12/14/16 09:49	1634-04-4	
Naphthalene	<50.2	ug/kg	50.2	15.1	1	12/13/16 12:15	12/14/16 09:49	91-20-3	
n-Propylbenzene	<61.9	ug/kg	61.9	18.6	1	12/13/16 12:15	12/14/16 09:49	103-65-1	
Styrene	<54.0	ug/kg	54.0	16.2	1	12/13/16 12:15	12/14/16 09:49	100-42-5	
1,1,1,2-Tetrachloroethane	<24.7	ug/kg	24.7	24.7	1	12/13/16 12:15	12/14/16 09:49	630-20-6	
1,1,2,2-Tetrachloroethane	<13.8	ug/kg	13.8	13.8	1	12/13/16 12:15	12/14/16 09:49	79-34-5	
Tetrachloroethene	<79.3	ug/kg	79.3	23.8	1	12/13/16 12:15	12/14/16 09:49	127-18-4	
Tetrahydrofuran	<1030	ug/kg	1030	309	1	12/13/16 12:15	12/14/16 09:49	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S23\_26.5-28.5**      **Lab ID: 10372645008**      Collected: 12/08/16 11:45      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<66.0	ug/kg	66.0	19.8	1	12/13/16 12:15	12/14/16 09:49	108-88-3	
1,2,3-Trichlorobenzene	<18.0	ug/kg	18.0	18.0	1	12/13/16 12:15	12/14/16 09:49	87-61-6	
1,2,4-Trichlorobenzene	<19.2	ug/kg	19.2	19.2	1	12/13/16 12:15	12/14/16 09:49	120-82-1	
1,1,1-Trichloroethane	<26.1	ug/kg	26.1	26.1	1	12/13/16 12:15	12/14/16 09:49	71-55-6	
1,1,2-Trichloroethane	<13.5	ug/kg	13.5	13.5	1	12/13/16 12:15	12/14/16 09:49	79-00-5	
Trichloroethene	<59.4	ug/kg	59.4	17.8	1	12/13/16 12:15	12/14/16 09:49	79-01-6	
Trichlorofluoromethane	<208	ug/kg	208	62.6	1	12/13/16 12:15	12/14/16 09:49	75-69-4	
1,2,3-Trichloropropane	<64.6	ug/kg	64.6	64.6	1	12/13/16 12:15	12/14/16 09:49	96-18-4	
1,1,2-Trichlorotrifluoroethane	<149	ug/kg	149	44.9	1	12/13/16 12:15	12/14/16 09:49	76-13-1	
1,2,4-Trimethylbenzene	<13.7	ug/kg	13.7	13.7	1	12/13/16 12:15	12/14/16 09:49	95-63-6	
1,3,5-Trimethylbenzene	<47.8	ug/kg	47.8	14.3	1	12/13/16 12:15	12/14/16 09:49	108-67-8	
Vinyl chloride	<26.7	ug/kg	26.7	8.0	1	12/13/16 12:15	12/14/16 09:49	75-01-4	
Xylene (Total)	<166	ug/kg	166	49.9	1	12/13/16 12:15	12/14/16 09:49	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-129		1	12/13/16 12:15	12/14/16 09:49	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/13/16 12:15	12/14/16 09:49	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/13/16 12:15	12/14/16 09:49	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Sample: S24\_12.5-13 Lab ID: 10372645009 Collected: 12/08/16 12:00 Received: 12/08/16 18:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	2.3	mg/kg	1.0	0.31	1	12/20/16 09:30	12/21/16 10:31	7440-38-2	
Barium	40.2	mg/kg	0.083	0.025	1	12/20/16 09:30	12/21/16 10:31	7440-39-3	
Cadmium	0.14	mg/kg	0.050	0.015	1	12/20/16 09:30	12/21/16 10:31	7440-43-9	
Chromium	14.6	mg/kg	0.54	0.16	1	12/20/16 09:30	12/21/16 10:31	7440-47-3	
Lead	9.8	mg/kg	0.52	0.16	1	12/20/16 09:30	12/21/16 10:31	7439-92-1	
Selenium	<1.5	mg/kg	1.5	0.45	1	12/20/16 09:30	12/21/16 10:31	7782-49-2	
Silver	<0.42	mg/kg	0.42	0.13	1	12/20/16 09:30	12/21/16 10:31	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.068	mg/kg	0.027	0.0082	1	12/20/16 13:17	12/21/16 16:38	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	38.6	%	0.10	0.10	1		12/21/16 16:13		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	15.2	ug/kg	2.1	0.64	1	12/13/16 06:57	12/19/16 20:37	83-32-9	
Acenaphthylene	13.4	ug/kg	1.5	0.44	1	12/13/16 06:57	12/19/16 20:37	208-96-8	
Anthracene	44.7	ug/kg	2.5	0.74	1	12/13/16 06:57	12/19/16 20:37	120-12-7	
Benzo(a)anthracene	109	ug/kg	2.5	0.76	1	12/13/16 06:57	12/19/16 20:37	56-55-3	
Benzo(a)pyrene	128	ug/kg	1.9	0.56	1	12/13/16 06:57	12/19/16 20:37	50-32-8	
Benzo(b)fluoranthene	145	ug/kg	3.1	0.93	1	12/13/16 06:57	12/19/16 20:37	205-99-2	
Benzo(g,h,i)perylene	83.4	ug/kg	2.5	0.75	1	12/13/16 06:57	12/19/16 20:37	191-24-2	
Benzo(k)fluoranthene	50.5	ug/kg	2.7	0.80	1	12/13/16 06:57	12/19/16 20:37	207-08-9	
Chrysene	110	ug/kg	3.0	0.90	1	12/13/16 06:57	12/19/16 20:37	218-01-9	
Dibenz(a,h)anthracene	22.8	ug/kg	1.8	0.53	1	12/13/16 06:57	12/19/16 20:37	53-70-3	
Fluoranthene	194	ug/kg	4.2	1.3	1	12/13/16 06:57	12/19/16 20:37	206-44-0	
Fluorene	13.4	ug/kg	2.1	0.62	1	12/13/16 06:57	12/19/16 20:37	86-73-7	
Indeno(1,2,3-cd)pyrene	68.2	ug/kg	4.1	1.2	1	12/13/16 06:57	12/19/16 20:37	193-39-5	
Naphthalene	16.4	ug/kg	1.9	0.58	1	12/13/16 06:57	12/19/16 20:37	91-20-3	
Phenanthrene	124	ug/kg	2.2	0.66	1	12/13/16 06:57	12/19/16 20:37	85-01-8	
Pyrene	176	ug/kg	4.5	1.3	1	12/13/16 06:57	12/19/16 20:37	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	71	%	41-125		1	12/13/16 06:57	12/19/16 20:37	321-60-8	
p-Terphenyl-d14 (S)	70	%	39-125		1	12/13/16 06:57	12/19/16 20:37	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<2200	ug/kg	2200	662	1	12/13/16 12:15	12/14/16 10:07	67-64-1	
Allyl chloride	<288	ug/kg	288	86.6	1	12/13/16 12:15	12/14/16 10:07	107-05-1	
Benzene	<29.0	ug/kg	29.0	8.7	1	12/13/16 12:15	12/14/16 10:07	71-43-2	
Bromobenzene	<86.0	ug/kg	86.0	25.8	1	12/13/16 12:15	12/14/16 10:07	108-86-1	
Bromochloromethane	<100	ug/kg	100	30.1	1	12/13/16 12:15	12/14/16 10:07	74-97-5	
Bromodichloromethane	<94.1	ug/kg	94.1	28.2	1	12/13/16 12:15	12/14/16 10:07	75-27-4	
Bromoform	<290	ug/kg	290	87.0	1	12/13/16 12:15	12/14/16 10:07	75-25-2	
Bromomethane	<341	ug/kg	341	102	1	12/13/16 12:15	12/14/16 10:07	74-83-9	
2-Butanone (MEK)	<443	ug/kg	443	133	1	12/13/16 12:15	12/14/16 10:07	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Sample: S24\_12.5-13 Lab ID: 10372645009 Collected: 12/08/16 12:00 Received: 12/08/16 18:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<81.3	ug/kg	81.3	24.4	1	12/13/16 12:15	12/14/16 10:07	104-51-8	
sec-Butylbenzene	<79.3	ug/kg	79.3	23.8	1	12/13/16 12:15	12/14/16 10:07	135-98-8	
tert-Butylbenzene	<106	ug/kg	106	31.9	1	12/13/16 12:15	12/14/16 10:07	98-06-6	
Carbon tetrachloride	<105	ug/kg	105	31.7	1	12/13/16 12:15	12/14/16 10:07	56-23-5	
Chlorobenzene	<58.5	ug/kg	58.5	17.6	1	12/13/16 12:15	12/14/16 10:07	108-90-7	
Chloroethane	<531	ug/kg	531	159	1	12/13/16 12:15	12/14/16 10:07	75-00-3	
Chloroform	<163	ug/kg	163	49.0	1	12/13/16 12:15	12/14/16 10:07	67-66-3	
Chloromethane	<163	ug/kg	163	48.8	1	12/13/16 12:15	12/14/16 10:07	74-87-3	
2-Chlorotoluene	<92.7	ug/kg	92.7	27.8	1	12/13/16 12:15	12/14/16 10:07	95-49-8	
4-Chlorotoluene	<88.0	ug/kg	88.0	26.4	1	12/13/16 12:15	12/14/16 10:07	106-43-4	
1,2-Dibromo-3-chloropropane	<197	ug/kg	197	197	1	12/13/16 12:15	12/14/16 10:07	96-12-8	
Dibromochloromethane	<288	ug/kg	288	86.6	1	12/13/16 12:15	12/14/16 10:07	124-48-1	
1,2-Dibromoethane (EDB)	<37.9	ug/kg	37.9	37.9	1	12/13/16 12:15	12/14/16 10:07	106-93-4	
Dibromomethane	<131	ug/kg	131	39.3	1	12/13/16 12:15	12/14/16 10:07	74-95-3	
1,2-Dichlorobenzene	<19.5	ug/kg	19.5	19.5	1	12/13/16 12:15	12/14/16 10:07	95-50-1	
1,3-Dichlorobenzene	<29.7	ug/kg	29.7	29.7	1	12/13/16 12:15	12/14/16 10:07	541-73-1	
1,4-Dichlorobenzene	<97.4	ug/kg	97.4	29.3	1	12/13/16 12:15	12/14/16 10:07	106-46-7	
Dichlorodifluoromethane	<103	ug/kg	103	30.9	1	12/13/16 12:15	12/14/16 10:07	75-71-8	
1,1-Dichloroethane	<39.1	ug/kg	39.1	39.1	1	12/13/16 12:15	12/14/16 10:07	75-34-3	
1,2-Dichloroethane	<31.9	ug/kg	31.9	31.9	1	12/13/16 12:15	12/14/16 10:07	107-06-2	
1,1-Dichloroethene	<25.6	ug/kg	25.6	25.6	1	12/13/16 12:15	12/14/16 10:07	75-35-4	
cis-1,2-Dichloroethene	<125	ug/kg	125	37.5	1	12/13/16 12:15	12/14/16 10:07	156-59-2	
trans-1,2-Dichloroethene	<162	ug/kg	162	48.6	1	12/13/16 12:15	12/14/16 10:07	156-60-5	
Dichlorofluoromethane	<921	ug/kg	921	276	1	12/13/16 12:15	12/14/16 10:07	75-43-4	
1,2-Dichloropropane	<34.9	ug/kg	34.9	34.9	1	12/13/16 12:15	12/14/16 10:07	78-87-5	
1,3-Dichloropropane	<120	ug/kg	120	36.1	1	12/13/16 12:15	12/14/16 10:07	142-28-9	
2,2-Dichloropropane	<107	ug/kg	107	32.1	1	12/13/16 12:15	12/14/16 10:07	594-20-7	
1,1-Dichloropropene	<30.5	ug/kg	30.5	30.5	1	12/13/16 12:15	12/14/16 10:07	563-58-6	
cis-1,3-Dichloropropene	<153	ug/kg	153	46.0	1	12/13/16 12:15	12/14/16 10:07	10061-01-5	
trans-1,3-Dichloropropene	<114	ug/kg	114	34.3	1	12/13/16 12:15	12/14/16 10:07	10061-02-6	
Diethyl ether (Ethyl ether)	<138	ug/kg	138	41.6	1	12/13/16 12:15	12/14/16 10:07	60-29-7	
Ethylbenzene	<107	ug/kg	107	32.1	1	12/13/16 12:15	12/14/16 10:07	100-41-4	
Hexachloro-1,3-butadiene	<316	ug/kg	316	94.8	1	12/13/16 12:15	12/14/16 10:07	87-68-3	
Isopropylbenzene (Cumene)	<120	ug/kg	120	35.9	1	12/13/16 12:15	12/14/16 10:07	98-82-8	
p-Isopropyltoluene	<55.8	ug/kg	55.8	16.7	1	12/13/16 12:15	12/14/16 10:07	99-87-6	
Methylene Chloride	<622	ug/kg	622	187	1	12/13/16 12:15	12/14/16 10:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	<222	ug/kg	222	66.8	1	12/13/16 12:15	12/14/16 10:07	108-10-1	
Methyl-tert-butyl ether	<62.9	ug/kg	62.9	18.9	1	12/13/16 12:15	12/14/16 10:07	1634-04-4	
Naphthalene	<81.3	ug/kg	81.3	24.4	1	12/13/16 12:15	12/14/16 10:07	91-20-3	
n-Propylbenzene	<100	ug/kg	100	30.1	1	12/13/16 12:15	12/14/16 10:07	103-65-1	
Styrene	<87.3	ug/kg	87.3	26.2	1	12/13/16 12:15	12/14/16 10:07	100-42-5	
1,1,1,2-Tetrachloroethane	<40.0	ug/kg	40.0	40.0	1	12/13/16 12:15	12/14/16 10:07	630-20-6	
1,1,2,2-Tetrachloroethane	<22.4	ug/kg	22.4	22.4	1	12/13/16 12:15	12/14/16 10:07	79-34-5	
Tetrachloroethene	<128	ug/kg	128	38.5	1	12/13/16 12:15	12/14/16 10:07	127-18-4	
Tetrahydrofuran	<1670	ug/kg	1670	500	1	12/13/16 12:15	12/14/16 10:07	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S24\_12.5-13**      **Lab ID: 10372645009**      Collected: 12/08/16 12:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<107	ug/kg	107	32.1	1	12/13/16 12:15	12/14/16 10:07	108-88-3	
1,2,3-Trichlorobenzene	<29.1	ug/kg	29.1	29.1	1	12/13/16 12:15	12/14/16 10:07	87-61-6	
1,2,4-Trichlorobenzene	<31.1	ug/kg	31.1	31.1	1	12/13/16 12:15	12/14/16 10:07	120-82-1	
1,1,1-Trichloroethane	<42.2	ug/kg	42.2	42.2	1	12/13/16 12:15	12/14/16 10:07	71-55-6	
1,1,2-Trichloroethane	<21.8	ug/kg	21.8	21.8	1	12/13/16 12:15	12/14/16 10:07	79-00-5	
Trichloroethene	<96.1	ug/kg	96.1	28.9	1	12/13/16 12:15	12/14/16 10:07	79-01-6	
Trichlorofluoromethane	<337	ug/kg	337	101	1	12/13/16 12:15	12/14/16 10:07	75-69-4	
1,2,3-Trichloropropane	<105	ug/kg	105	105	1	12/13/16 12:15	12/14/16 10:07	96-18-4	
1,1,2-Trichlorotrifluoroethane	<242	ug/kg	242	72.6	1	12/13/16 12:15	12/14/16 10:07	76-13-1	
1,2,4-Trimethylbenzene	<22.2	ug/kg	22.2	22.2	1	12/13/16 12:15	12/14/16 10:07	95-63-6	
1,3,5-Trimethylbenzene	<77.3	ug/kg	77.3	23.2	1	12/13/16 12:15	12/14/16 10:07	108-67-8	
Vinyl chloride	<43.1	ug/kg	43.1	13.0	1	12/13/16 12:15	12/14/16 10:07	75-01-4	
Xylene (Total)	<269	ug/kg	269	80.7	1	12/13/16 12:15	12/14/16 10:07	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-129		1	12/13/16 12:15	12/14/16 10:07	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/13/16 12:15	12/14/16 10:07	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/13/16 12:15	12/14/16 10:07	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Sample: S24\_13-15.5 Lab ID: 10372645010 Collected: 12/08/16 12:15 Received: 12/08/16 18:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	2.3	mg/kg	0.80	0.24	1	12/20/16 09:30	12/21/16 10:33	7440-38-2	
Barium	9.4	mg/kg	0.064	0.019	1	12/20/16 09:30	12/21/16 10:33	7440-39-3	
Cadmium	<0.038	mg/kg	0.038	0.011	1	12/20/16 09:30	12/21/16 10:33	7440-43-9	
Chromium	9.1	mg/kg	0.42	0.13	1	12/20/16 09:30	12/21/16 10:33	7440-47-3	
Lead	2.8	mg/kg	0.40	0.12	1	12/20/16 09:30	12/21/16 10:33	7439-92-1	
Selenium	<1.2	mg/kg	1.2	0.35	1	12/20/16 09:30	12/21/16 10:33	7782-49-2	
Silver	<0.32	mg/kg	0.32	0.096	1	12/20/16 09:30	12/21/16 10:33	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.020	mg/kg	0.020	0.0060	1	12/20/16 13:17	12/21/16 16:40	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	21.7	%	0.10	0.10	1		12/21/16 16:13		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	4.3	ug/kg	1.7	0.50	1	12/13/16 06:57	12/19/16 20:58	83-32-9	
Acenaphthylene	2.0	ug/kg	1.2	0.35	1	12/13/16 06:57	12/19/16 20:58	208-96-8	
Anthracene	7.5	ug/kg	1.9	0.58	1	12/13/16 06:57	12/19/16 20:58	120-12-7	
Benzo(a)anthracene	14.0	ug/kg	2.0	0.60	1	12/13/16 06:57	12/19/16 20:58	56-55-3	
Benzo(a)pyrene	15.2	ug/kg	1.5	0.44	1	12/13/16 06:57	12/19/16 20:58	50-32-8	
Benzo(b)fluoranthene	15.6	ug/kg	2.4	0.73	1	12/13/16 06:57	12/19/16 20:58	205-99-2	
Benzo(g,h,i)perylene	9.6	ug/kg	1.9	0.58	1	12/13/16 06:57	12/19/16 20:58	191-24-2	
Benzo(k)fluoranthene	8.7	ug/kg	2.1	0.63	1	12/13/16 06:57	12/19/16 20:58	207-08-9	
Chrysene	14.9	ug/kg	2.4	0.71	1	12/13/16 06:57	12/19/16 20:58	218-01-9	
Dibenz(a,h)anthracene	1.5	ug/kg	1.4	0.42	1	12/13/16 06:57	12/19/16 20:58	53-70-3	
Fluoranthene	30.7	ug/kg	3.3	1.0	1	12/13/16 06:57	12/19/16 20:58	206-44-0	
Fluorene	3.9	ug/kg	1.6	0.49	1	12/13/16 06:57	12/19/16 20:58	86-73-7	
Indeno(1,2,3-cd)pyrene	7.7	ug/kg	3.2	0.96	1	12/13/16 06:57	12/19/16 20:58	193-39-5	
Naphthalene	3.4	ug/kg	1.5	0.46	1	12/13/16 06:57	12/19/16 20:58	91-20-3	
Phenanthrene	24.9	ug/kg	1.7	0.51	1	12/13/16 06:57	12/19/16 20:58	85-01-8	
Pyrene	30.8	ug/kg	3.5	1.1	1	12/13/16 06:57	12/19/16 20:58	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	85	%	41-125		1	12/13/16 06:57	12/19/16 20:58	321-60-8	
p-Terphenyl-d14 (S)	74	%	39-125		1	12/13/16 06:57	12/19/16 20:58	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1380	ug/kg	1380	413	1	12/13/16 12:15	12/14/16 10:24	67-64-1	
Allyl chloride	<180	ug/kg	180	54.1	1	12/13/16 12:15	12/14/16 10:24	107-05-1	
Benzene	<18.1	ug/kg	18.1	5.4	1	12/13/16 12:15	12/14/16 10:24	71-43-2	
Bromobenzene	<53.7	ug/kg	53.7	16.1	1	12/13/16 12:15	12/14/16 10:24	108-86-1	
Bromochloromethane	<62.5	ug/kg	62.5	18.8	1	12/13/16 12:15	12/14/16 10:24	74-97-5	
Bromodichloromethane	<58.7	ug/kg	58.7	17.6	1	12/13/16 12:15	12/14/16 10:24	75-27-4	
Bromoform	<181	ug/kg	181	54.3	1	12/13/16 12:15	12/14/16 10:24	75-25-2	
Bromomethane	<213	ug/kg	213	63.9	1	12/13/16 12:15	12/14/16 10:24	74-83-9	
2-Butanone (MEK)	<277	ug/kg	277	83.2	1	12/13/16 12:15	12/14/16 10:24	78-93-3	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Sample: S24\_13-15.5 Lab ID: 10372645010 Collected: 12/08/16 12:15 Received: 12/08/16 18:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<50.8	ug/kg	50.8	15.2	1	12/13/16 12:15	12/14/16 10:24	104-51-8	
sec-Butylbenzene	<49.5	ug/kg	49.5	14.9	1	12/13/16 12:15	12/14/16 10:24	135-98-8	
tert-Butylbenzene	<66.3	ug/kg	66.3	19.9	1	12/13/16 12:15	12/14/16 10:24	98-06-6	
Carbon tetrachloride	<65.9	ug/kg	65.9	19.8	1	12/13/16 12:15	12/14/16 10:24	56-23-5	
Chlorobenzene	<36.5	ug/kg	36.5	11.0	1	12/13/16 12:15	12/14/16 10:24	108-90-7	
Chloroethane	<331	ug/kg	331	99.5	1	12/13/16 12:15	12/14/16 10:24	75-00-3	
Chloroform	<102	ug/kg	102	30.6	1	12/13/16 12:15	12/14/16 10:24	67-66-3	
Chloromethane	<102	ug/kg	102	30.5	1	12/13/16 12:15	12/14/16 10:24	74-87-3	
2-Chlorotoluene	<57.9	ug/kg	57.9	17.4	1	12/13/16 12:15	12/14/16 10:24	95-49-8	
4-Chlorotoluene	<55.0	ug/kg	55.0	16.5	1	12/13/16 12:15	12/14/16 10:24	106-43-4	
1,2-Dibromo-3-chloropropane	<123	ug/kg	123	123	1	12/13/16 12:15	12/14/16 10:24	96-12-8	
Dibromochloromethane	<180	ug/kg	180	54.1	1	12/13/16 12:15	12/14/16 10:24	124-48-1	
1,2-Dibromoethane (EDB)	<23.7	ug/kg	23.7	23.7	1	12/13/16 12:15	12/14/16 10:24	106-93-4	
Dibromomethane	<81.8	ug/kg	81.8	24.6	1	12/13/16 12:15	12/14/16 10:24	74-95-3	
1,2-Dichlorobenzene	<12.2	ug/kg	12.2	12.2	1	12/13/16 12:15	12/14/16 10:24	95-50-1	
1,3-Dichlorobenzene	<18.5	ug/kg	18.5	18.5	1	12/13/16 12:15	12/14/16 10:24	541-73-1	
1,4-Dichlorobenzene	<60.8	ug/kg	60.8	18.3	1	12/13/16 12:15	12/14/16 10:24	106-46-7	
Dichlorodifluoromethane	<64.2	ug/kg	64.2	19.3	1	12/13/16 12:15	12/14/16 10:24	75-71-8	
1,1-Dichloroethane	<24.4	ug/kg	24.4	24.4	1	12/13/16 12:15	12/14/16 10:24	75-34-3	
1,2-Dichloroethane	<19.9	ug/kg	19.9	19.9	1	12/13/16 12:15	12/14/16 10:24	107-06-2	
1,1-Dichloroethene	<16.0	ug/kg	16.0	16.0	1	12/13/16 12:15	12/14/16 10:24	75-35-4	
cis-1,2-Dichloroethene	<78.0	ug/kg	78.0	23.4	1	12/13/16 12:15	12/14/16 10:24	156-59-2	
trans-1,2-Dichloroethene	<101	ug/kg	101	30.4	1	12/13/16 12:15	12/14/16 10:24	156-60-5	
Dichlorofluoromethane	<575	ug/kg	575	173	1	12/13/16 12:15	12/14/16 10:24	75-43-4	
1,2-Dichloropropane	<21.8	ug/kg	21.8	21.8	1	12/13/16 12:15	12/14/16 10:24	78-87-5	
1,3-Dichloropropane	<75.1	ug/kg	75.1	22.6	1	12/13/16 12:15	12/14/16 10:24	142-28-9	
2,2-Dichloropropane	<66.7	ug/kg	66.7	20.0	1	12/13/16 12:15	12/14/16 10:24	594-20-7	
1,1-Dichloropropene	<19.0	ug/kg	19.0	19.0	1	12/13/16 12:15	12/14/16 10:24	563-58-6	
cis-1,3-Dichloropropene	<95.7	ug/kg	95.7	28.7	1	12/13/16 12:15	12/14/16 10:24	10061-01-5	
trans-1,3-Dichloropropene	<71.3	ug/kg	71.3	21.4	1	12/13/16 12:15	12/14/16 10:24	10061-02-6	
Diethyl ether (Ethyl ether)	<86.4	ug/kg	86.4	26.0	1	12/13/16 12:15	12/14/16 10:24	60-29-7	
Ethylbenzene	<66.7	ug/kg	66.7	20.0	1	12/13/16 12:15	12/14/16 10:24	100-41-4	
Hexachloro-1,3-butadiene	<197	ug/kg	197	59.2	1	12/13/16 12:15	12/14/16 10:24	87-68-3	
Isopropylbenzene (Cumene)	<74.7	ug/kg	74.7	22.4	1	12/13/16 12:15	12/14/16 10:24	98-82-8	
p-Isopropyltoluene	<34.8	ug/kg	34.8	10.5	1	12/13/16 12:15	12/14/16 10:24	99-87-6	
Methylene Chloride	<389	ug/kg	389	117	1	12/13/16 12:15	12/14/16 10:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	<139	ug/kg	139	41.7	1	12/13/16 12:15	12/14/16 10:24	108-10-1	
Methyl-tert-butyl ether	<39.3	ug/kg	39.3	11.8	1	12/13/16 12:15	12/14/16 10:24	1634-04-4	
Naphthalene	<50.8	ug/kg	50.8	15.2	1	12/13/16 12:15	12/14/16 10:24	91-20-3	
n-Propylbenzene	<62.5	ug/kg	62.5	18.8	1	12/13/16 12:15	12/14/16 10:24	103-65-1	
Styrene	<54.5	ug/kg	54.5	16.4	1	12/13/16 12:15	12/14/16 10:24	100-42-5	
1,1,1,2-Tetrachloroethane	<24.9	ug/kg	24.9	24.9	1	12/13/16 12:15	12/14/16 10:24	630-20-6	
1,1,2,2-Tetrachloroethane	<14.0	ug/kg	14.0	14.0	1	12/13/16 12:15	12/14/16 10:24	79-34-5	
Tetrachloroethene	<80.1	ug/kg	80.1	24.1	1	12/13/16 12:15	12/14/16 10:24	127-18-4	
Tetrahydrofuran	<1040	ug/kg	1040	312	1	12/13/16 12:15	12/14/16 10:24	109-99-9	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S24\_13-15.5**      **Lab ID: 10372645010**      Collected: 12/08/16 12:15      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<66.7	ug/kg	66.7	20.0	1	12/13/16 12:15	12/14/16 10:24	108-88-3	
1,2,3-Trichlorobenzene	<18.1	ug/kg	18.1	18.1	1	12/13/16 12:15	12/14/16 10:24	87-61-6	
1,2,4-Trichlorobenzene	<19.4	ug/kg	19.4	19.4	1	12/13/16 12:15	12/14/16 10:24	120-82-1	
1,1,1-Trichloroethane	<26.3	ug/kg	26.3	26.3	1	12/13/16 12:15	12/14/16 10:24	71-55-6	
1,1,2-Trichloroethane	<13.6	ug/kg	13.6	13.6	1	12/13/16 12:15	12/14/16 10:24	79-00-5	
Trichloroethene	<60.0	ug/kg	60.0	18.0	1	12/13/16 12:15	12/14/16 10:24	79-01-6	
Trichlorofluoromethane	<211	ug/kg	211	63.3	1	12/13/16 12:15	12/14/16 10:24	75-69-4	
1,2,3-Trichloropropane	<65.3	ug/kg	65.3	65.3	1	12/13/16 12:15	12/14/16 10:24	96-18-4	
1,1,2-Trichlorotrifluoroethane	<151	ug/kg	151	45.4	1	12/13/16 12:15	12/14/16 10:24	76-13-1	
1,2,4-Trimethylbenzene	<13.9	ug/kg	13.9	13.9	1	12/13/16 12:15	12/14/16 10:24	95-63-6	
1,3,5-Trimethylbenzene	<48.3	ug/kg	48.3	14.5	1	12/13/16 12:15	12/14/16 10:24	108-67-8	
Vinyl chloride	<26.9	ug/kg	26.9	8.1	1	12/13/16 12:15	12/14/16 10:24	75-01-4	
Xylene (Total)	<168	ug/kg	168	50.4	1	12/13/16 12:15	12/14/16 10:24	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%	75-129		1	12/13/16 12:15	12/14/16 10:24	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/13/16 12:15	12/14/16 10:24	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/13/16 12:15	12/14/16 10:24	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S24\_18-19**      **Lab ID: 10372645011**      Collected: 12/08/16 12:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	1.7	mg/kg	0.79	0.24	1	12/20/16 09:30	12/21/16 10:36	7440-38-2	
Barium	7.6	mg/kg	0.063	0.019	1	12/20/16 09:30	12/21/16 10:36	7440-39-3	
Cadmium	<0.037	mg/kg	0.037	0.011	1	12/20/16 09:30	12/21/16 10:36	7440-43-9	
Chromium	5.3	mg/kg	0.41	0.12	1	12/20/16 09:30	12/21/16 10:36	7440-47-3	
Lead	1.8	mg/kg	0.39	0.12	1	12/20/16 09:30	12/21/16 10:36	7439-92-1	
Selenium	<1.1	mg/kg	1.1	0.34	1	12/20/16 09:30	12/21/16 10:36	7782-49-2	
Silver	<0.32	mg/kg	0.32	0.095	1	12/20/16 09:30	12/21/16 10:36	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<0.020	mg/kg	0.020	0.0059	1	12/20/16 13:17	12/21/16 16:42	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	18.0	%	0.10	0.10	1		12/21/16 16:13		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	<1.6	ug/kg	1.6	0.48	1	12/13/16 06:57	12/19/16 21:20	83-32-9	
Acenaphthylene	<1.1	ug/kg	1.1	0.33	1	12/13/16 06:57	12/19/16 21:20	208-96-8	
Anthracene	<1.8	ug/kg	1.8	0.55	1	12/13/16 06:57	12/19/16 21:20	120-12-7	
Benzo(a)anthracene	<1.9	ug/kg	1.9	0.57	1	12/13/16 06:57	12/19/16 21:20	56-55-3	
Benzo(a)pyrene	<1.4	ug/kg	1.4	0.42	1	12/13/16 06:57	12/19/16 21:20	50-32-8	
Benzo(b)fluoranthene	<2.3	ug/kg	2.3	0.70	1	12/13/16 06:57	12/19/16 21:20	205-99-2	
Benzo(g,h,i)perylene	<1.9	ug/kg	1.9	0.56	1	12/13/16 06:57	12/19/16 21:20	191-24-2	
Benzo(k)fluoranthene	<2.0	ug/kg	2.0	0.60	1	12/13/16 06:57	12/19/16 21:20	207-08-9	
Chrysene	<2.2	ug/kg	2.2	0.67	1	12/13/16 06:57	12/19/16 21:20	218-01-9	
Dibenz(a,h)anthracene	<1.3	ug/kg	1.3	0.40	1	12/13/16 06:57	12/19/16 21:20	53-70-3	
Fluoranthene	<3.2	ug/kg	3.2	0.95	1	12/13/16 06:57	12/19/16 21:20	206-44-0	
Fluorene	<1.6	ug/kg	1.6	0.47	1	12/13/16 06:57	12/19/16 21:20	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.0	ug/kg	3.0	0.91	1	12/13/16 06:57	12/19/16 21:20	193-39-5	
Naphthalene	<1.4	ug/kg	1.4	0.43	1	12/13/16 06:57	12/19/16 21:20	91-20-3	
Phenanthrene	<1.6	ug/kg	1.6	0.49	1	12/13/16 06:57	12/19/16 21:20	85-01-8	
Pyrene	<3.4	ug/kg	3.4	1.0	1	12/13/16 06:57	12/19/16 21:20	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	78	%	41-125		1	12/13/16 06:57	12/19/16 21:20	321-60-8	
p-Terphenyl-d14 (S)	73	%	39-125		1	12/13/16 06:57	12/19/16 21:20	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1640	ug/kg	1640	491	1	12/13/16 12:15	12/14/16 11:34	67-64-1	
Allyl chloride	<214	ug/kg	214	64.2	1	12/13/16 12:15	12/14/16 11:34	107-05-1	
Benzene	<21.5	ug/kg	21.5	6.5	1	12/13/16 12:15	12/14/16 11:34	71-43-2	
Bromobenzene	<63.8	ug/kg	63.8	19.2	1	12/13/16 12:15	12/14/16 11:34	108-86-1	
Bromochloromethane	<74.3	ug/kg	74.3	22.3	1	12/13/16 12:15	12/14/16 11:34	74-97-5	
Bromodichloromethane	<69.8	ug/kg	69.8	21.0	1	12/13/16 12:15	12/14/16 11:34	75-27-4	
Bromoform	<215	ug/kg	215	64.5	1	12/13/16 12:15	12/14/16 11:34	75-25-2	
Bromomethane	<253	ug/kg	253	75.9	1	12/13/16 12:15	12/14/16 11:34	74-83-9	
2-Butanone (MEK)	<329	ug/kg	329	98.8	1	12/13/16 12:15	12/14/16 11:34	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S24\_18-19**      **Lab ID: 10372645011**      Collected: 12/08/16 12:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<60.3	ug/kg	60.3	18.1	1	12/13/16 12:15	12/14/16 11:34	104-51-8	
sec-Butylbenzene	<58.8	ug/kg	58.8	17.7	1	12/13/16 12:15	12/14/16 11:34	135-98-8	
tert-Butylbenzene	<78.8	ug/kg	78.8	23.7	1	12/13/16 12:15	12/14/16 11:34	98-06-6	
Carbon tetrachloride	<78.3	ug/kg	78.3	23.5	1	12/13/16 12:15	12/14/16 11:34	56-23-5	
Chlorobenzene	<43.4	ug/kg	43.4	13.0	1	12/13/16 12:15	12/14/16 11:34	108-90-7	
Chloroethane	<394	ug/kg	394	118	1	12/13/16 12:15	12/14/16 11:34	75-00-3	
Chloroform	<121	ug/kg	121	36.4	1	12/13/16 12:15	12/14/16 11:34	67-66-3	
Chloromethane	<121	ug/kg	121	36.2	1	12/13/16 12:15	12/14/16 11:34	74-87-3	
2-Chlorotoluene	<68.8	ug/kg	68.8	20.7	1	12/13/16 12:15	12/14/16 11:34	95-49-8	
4-Chlorotoluene	<65.3	ug/kg	65.3	19.6	1	12/13/16 12:15	12/14/16 11:34	106-43-4	
1,2-Dibromo-3-chloropropane	<146	ug/kg	146	146	1	12/13/16 12:15	12/14/16 11:34	96-12-8	
Dibromochloromethane	<214	ug/kg	214	64.2	1	12/13/16 12:15	12/14/16 11:34	124-48-1	
1,2-Dibromoethane (EDB)	<28.2	ug/kg	28.2	28.2	1	12/13/16 12:15	12/14/16 11:34	106-93-4	
Dibromomethane	<97.2	ug/kg	97.2	29.2	1	12/13/16 12:15	12/14/16 11:34	74-95-3	
1,2-Dichlorobenzene	<14.5	ug/kg	14.5	14.5	1	12/13/16 12:15	12/14/16 11:34	95-50-1	
1,3-Dichlorobenzene	<22.0	ug/kg	22.0	22.0	1	12/13/16 12:15	12/14/16 11:34	541-73-1	
1,4-Dichlorobenzene	<72.3	ug/kg	72.3	21.7	1	12/13/16 12:15	12/14/16 11:34	106-46-7	
Dichlorodifluoromethane	<76.3	ug/kg	76.3	22.9	1	12/13/16 12:15	12/14/16 11:34	75-71-8	
1,1-Dichloroethane	<29.1	ug/kg	29.1	29.1	1	12/13/16 12:15	12/14/16 11:34	75-34-3	
1,2-Dichloroethane	<23.7	ug/kg	23.7	23.7	1	12/13/16 12:15	12/14/16 11:34	107-06-2	
1,1-Dichloroethene	<19.0	ug/kg	19.0	19.0	1	12/13/16 12:15	12/14/16 11:34	75-35-4	
cis-1,2-Dichloroethene	<92.8	ug/kg	92.8	27.9	1	12/13/16 12:15	12/14/16 11:34	156-59-2	
trans-1,2-Dichloroethene	<120	ug/kg	120	36.1	1	12/13/16 12:15	12/14/16 11:34	156-60-5	
Dichlorofluoromethane	<683	ug/kg	683	205	1	12/13/16 12:15	12/14/16 11:34	75-43-4	
1,2-Dichloropropane	<25.9	ug/kg	25.9	25.9	1	12/13/16 12:15	12/14/16 11:34	78-87-5	
1,3-Dichloropropane	<89.3	ug/kg	89.3	26.8	1	12/13/16 12:15	12/14/16 11:34	142-28-9	
2,2-Dichloropropane	<79.3	ug/kg	79.3	23.8	1	12/13/16 12:15	12/14/16 11:34	594-20-7	
1,1-Dichloropropene	<22.6	ug/kg	22.6	22.6	1	12/13/16 12:15	12/14/16 11:34	563-58-6	
cis-1,3-Dichloropropene	<114	ug/kg	114	34.1	1	12/13/16 12:15	12/14/16 11:34	10061-01-5	
trans-1,3-Dichloropropene	<84.8	ug/kg	84.8	25.5	1	12/13/16 12:15	12/14/16 11:34	10061-02-6	
Diethyl ether (Ethyl ether)	<103	ug/kg	103	30.8	1	12/13/16 12:15	12/14/16 11:34	60-29-7	
Ethylbenzene	<79.3	ug/kg	79.3	23.8	1	12/13/16 12:15	12/14/16 11:34	100-41-4	
Hexachloro-1,3-butadiene	<234	ug/kg	234	70.4	1	12/13/16 12:15	12/14/16 11:34	87-68-3	
Isopropylbenzene (Cumene)	<88.8	ug/kg	88.8	26.7	1	12/13/16 12:15	12/14/16 11:34	98-82-8	
p-Isopropyltoluene	<41.4	ug/kg	41.4	12.4	1	12/13/16 12:15	12/14/16 11:34	99-87-6	
Methylene Chloride	<462	ug/kg	462	139	1	12/13/16 12:15	12/14/16 11:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	<165	ug/kg	165	49.6	1	12/13/16 12:15	12/14/16 11:34	108-10-1	
Methyl-tert-butyl ether	<46.7	ug/kg	46.7	14.0	1	12/13/16 12:15	12/14/16 11:34	1634-04-4	
Naphthalene	<60.3	ug/kg	60.3	18.1	1	12/13/16 12:15	12/14/16 11:34	91-20-3	
n-Propylbenzene	<74.3	ug/kg	74.3	22.3	1	12/13/16 12:15	12/14/16 11:34	103-65-1	
Styrene	<64.8	ug/kg	64.8	19.5	1	12/13/16 12:15	12/14/16 11:34	100-42-5	
1,1,1,2-Tetrachloroethane	<29.7	ug/kg	29.7	29.7	1	12/13/16 12:15	12/14/16 11:34	630-20-6	
1,1,2,2-Tetrachloroethane	<16.6	ug/kg	16.6	16.6	1	12/13/16 12:15	12/14/16 11:34	79-34-5	
Tetrachloroethene	<95.2	ug/kg	95.2	28.6	1	12/13/16 12:15	12/14/16 11:34	127-18-4	
Tetrahydrofuran	<1240	ug/kg	1240	371	1	12/13/16 12:15	12/14/16 11:34	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S24\_18-19**      **Lab ID: 10372645011**      Collected: 12/08/16 12:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<79.3	ug/kg	79.3	23.8	1	12/13/16 12:15	12/14/16 11:34	108-88-3	
1,2,3-Trichlorobenzene	<21.6	ug/kg	21.6	21.6	1	12/13/16 12:15	12/14/16 11:34	87-61-6	
1,2,4-Trichlorobenzene	<23.1	ug/kg	23.1	23.1	1	12/13/16 12:15	12/14/16 11:34	120-82-1	
1,1,1-Trichloroethane	<31.3	ug/kg	31.3	31.3	1	12/13/16 12:15	12/14/16 11:34	71-55-6	
1,1,2-Trichloroethane	<16.2	ug/kg	16.2	16.2	1	12/13/16 12:15	12/14/16 11:34	79-00-5	
Trichloroethene	<71.3	ug/kg	71.3	21.4	1	12/13/16 12:15	12/14/16 11:34	79-01-6	
Trichlorofluoromethane	<250	ug/kg	250	75.2	1	12/13/16 12:15	12/14/16 11:34	75-69-4	
1,2,3-Trichloropropane	<77.6	ug/kg	77.6	77.6	1	12/13/16 12:15	12/14/16 11:34	96-18-4	
1,1,2-Trichlorotrifluoroethane	<180	ug/kg	180	53.9	1	12/13/16 12:15	12/14/16 11:34	76-13-1	
1,2,4-Trimethylbenzene	<16.5	ug/kg	16.5	16.5	1	12/13/16 12:15	12/14/16 11:34	95-63-6	
1,3,5-Trimethylbenzene	<57.3	ug/kg	57.3	17.2	1	12/13/16 12:15	12/14/16 11:34	108-67-8	
Vinyl chloride	<32.0	ug/kg	32.0	9.6	1	12/13/16 12:15	12/14/16 11:34	75-01-4	
Xylene (Total)	<199	ug/kg	199	59.9	1	12/13/16 12:15	12/14/16 11:34	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-129		1	12/13/16 12:15	12/14/16 11:34	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/13/16 12:15	12/14/16 11:34	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/13/16 12:15	12/14/16 11:34	460-00-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Sample: S24\_20-20.5 Lab ID: 10372645012 Collected: 12/08/16 12:45 Received: 12/08/16 18:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	2.2	mg/kg	0.75	0.22	1	12/20/16 09:30	12/21/16 10:39	7440-38-2	
Barium	16.2	mg/kg	0.060	0.018	1	12/20/16 09:30	12/21/16 10:39	7440-39-3	
Cadmium	<0.036	mg/kg	0.036	0.011	1	12/20/16 09:30	12/21/16 10:39	7440-43-9	
Chromium	10.5	mg/kg	0.39	0.12	1	12/20/16 09:30	12/21/16 10:39	7440-47-3	
Lead	2.0	mg/kg	0.37	0.11	1	12/20/16 09:30	12/21/16 10:39	7439-92-1	
Selenium	<1.1	mg/kg	1.1	0.33	1	12/20/16 09:30	12/21/16 10:39	7782-49-2	
Silver	<0.30	mg/kg	0.30	0.090	1	12/20/16 09:30	12/21/16 10:39	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.020	mg/kg	0.020	0.0061	1	12/20/16 13:17	12/21/16 16:44	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	15.3	%	0.10	0.10	1		12/21/16 16:14		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Acenaphthene	<1.5	ug/kg	1.5	0.46	1	12/13/16 06:57	12/19/16 21:42	83-32-9	
Acenaphthylene	<1.1	ug/kg	1.1	0.32	1	12/13/16 06:57	12/19/16 21:42	208-96-8	
Anthracene	<1.8	ug/kg	1.8	0.53	1	12/13/16 06:57	12/19/16 21:42	120-12-7	
Benzo(a)anthracene	<1.8	ug/kg	1.8	0.55	1	12/13/16 06:57	12/19/16 21:42	56-55-3	
Benzo(a)pyrene	<1.4	ug/kg	1.4	0.41	1	12/13/16 06:57	12/19/16 21:42	50-32-8	
Benzo(b)fluoranthene	<2.2	ug/kg	2.2	0.67	1	12/13/16 06:57	12/19/16 21:42	205-99-2	
Benzo(g,h,i)perylene	<1.8	ug/kg	1.8	0.54	1	12/13/16 06:57	12/19/16 21:42	191-24-2	
Benzo(k)fluoranthene	<1.9	ug/kg	1.9	0.58	1	12/13/16 06:57	12/19/16 21:42	207-08-9	
Chrysene	<2.2	ug/kg	2.2	0.65	1	12/13/16 06:57	12/19/16 21:42	218-01-9	
Dibenz(a,h)anthracene	<1.3	ug/kg	1.3	0.39	1	12/13/16 06:57	12/19/16 21:42	53-70-3	
Fluoranthene	<3.1	ug/kg	3.1	0.92	1	12/13/16 06:57	12/19/16 21:42	206-44-0	
Fluorene	<1.5	ug/kg	1.5	0.45	1	12/13/16 06:57	12/19/16 21:42	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.9	ug/kg	2.9	0.88	1	12/13/16 06:57	12/19/16 21:42	193-39-5	
Naphthalene	<1.4	ug/kg	1.4	0.42	1	12/13/16 06:57	12/19/16 21:42	91-20-3	
Phenanthrene	<1.6	ug/kg	1.6	0.47	1	12/13/16 06:57	12/19/16 21:42	85-01-8	
Pyrene	<3.3	ug/kg	3.3	0.98	1	12/13/16 06:57	12/19/16 21:42	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	82	%	41-125		1	12/13/16 06:57	12/19/16 21:42	321-60-8	
p-Terphenyl-d14 (S)	76	%	39-125		1	12/13/16 06:57	12/19/16 21:42	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<1560	ug/kg	1560	468	1	12/13/16 12:15	12/14/16 11:51	67-64-1	
Allyl chloride	<204	ug/kg	204	61.2	1	12/13/16 12:15	12/14/16 11:51	107-05-1	
Benzene	<20.5	ug/kg	20.5	6.2	1	12/13/16 12:15	12/14/16 11:51	71-43-2	
Bromobenzene	<60.8	ug/kg	60.8	18.3	1	12/13/16 12:15	12/14/16 11:51	108-86-1	
Bromochloromethane	<70.8	ug/kg	70.8	21.3	1	12/13/16 12:15	12/14/16 11:51	74-97-5	
Bromodichloromethane	<66.5	ug/kg	66.5	20.0	1	12/13/16 12:15	12/14/16 11:51	75-27-4	
Bromoform	<205	ug/kg	205	61.5	1	12/13/16 12:15	12/14/16 11:51	75-25-2	
Bromomethane	<241	ug/kg	241	72.3	1	12/13/16 12:15	12/14/16 11:51	74-83-9	
2-Butanone (MEK)	<313	ug/kg	313	94.1	1	12/13/16 12:15	12/14/16 11:51	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Sample: **S24\_20-20.5** Lab ID: **10372645012** Collected: 12/08/16 12:45 Received: 12/08/16 18:35 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<57.5	ug/kg	57.5	17.3	1	12/13/16 12:15	12/14/16 11:51	104-51-8	
sec-Butylbenzene	<56.0	ug/kg	56.0	16.8	1	12/13/16 12:15	12/14/16 11:51	135-98-8	
tert-Butylbenzene	<75.0	ug/kg	75.0	22.5	1	12/13/16 12:15	12/14/16 11:51	98-06-6	
Carbon tetrachloride	<74.6	ug/kg	74.6	22.4	1	12/13/16 12:15	12/14/16 11:51	56-23-5	
Chlorobenzene	<41.3	ug/kg	41.3	12.4	1	12/13/16 12:15	12/14/16 11:51	108-90-7	
Chloroethane	<375	ug/kg	375	113	1	12/13/16 12:15	12/14/16 11:51	75-00-3	
Chloroform	<115	ug/kg	115	34.7	1	12/13/16 12:15	12/14/16 11:51	67-66-3	
Chloromethane	<115	ug/kg	115	34.5	1	12/13/16 12:15	12/14/16 11:51	74-87-3	
2-Chlorotoluene	<65.5	ug/kg	65.5	19.7	1	12/13/16 12:15	12/14/16 11:51	95-49-8	
4-Chlorotoluene	<62.2	ug/kg	62.2	18.7	1	12/13/16 12:15	12/14/16 11:51	106-43-4	
1,2-Dibromo-3-chloropropane	<139	ug/kg	139	139	1	12/13/16 12:15	12/14/16 11:51	96-12-8	
Dibromochloromethane	<204	ug/kg	204	61.2	1	12/13/16 12:15	12/14/16 11:51	124-48-1	
1,2-Dibromoethane (EDB)	<26.8	ug/kg	26.8	26.8	1	12/13/16 12:15	12/14/16 11:51	106-93-4	
Dibromomethane	<92.6	ug/kg	92.6	27.8	1	12/13/16 12:15	12/14/16 11:51	74-95-3	
1,2-Dichlorobenzene	<13.8	ug/kg	13.8	13.8	1	12/13/16 12:15	12/14/16 11:51	95-50-1	
1,3-Dichlorobenzene	<21.0	ug/kg	21.0	21.0	1	12/13/16 12:15	12/14/16 11:51	541-73-1	
1,4-Dichlorobenzene	<68.9	ug/kg	68.9	20.7	1	12/13/16 12:15	12/14/16 11:51	106-46-7	
Dichlorodifluoromethane	<72.7	ug/kg	72.7	21.8	1	12/13/16 12:15	12/14/16 11:51	75-71-8	
1,1-Dichloroethane	<27.7	ug/kg	27.7	27.7	1	12/13/16 12:15	12/14/16 11:51	75-34-3	
1,2-Dichloroethane	<22.5	ug/kg	22.5	22.5	1	12/13/16 12:15	12/14/16 11:51	107-06-2	
1,1-Dichloroethene	<18.1	ug/kg	18.1	18.1	1	12/13/16 12:15	12/14/16 11:51	75-35-4	
cis-1,2-Dichloroethene	<88.3	ug/kg	88.3	26.5	1	12/13/16 12:15	12/14/16 11:51	156-59-2	
trans-1,2-Dichloroethene	<114	ug/kg	114	34.4	1	12/13/16 12:15	12/14/16 11:51	156-60-5	
Dichlorofluoromethane	<651	ug/kg	651	195	1	12/13/16 12:15	12/14/16 11:51	75-43-4	
1,2-Dichloropropane	<24.7	ug/kg	24.7	24.7	1	12/13/16 12:15	12/14/16 11:51	78-87-5	
1,3-Dichloropropane	<85.0	ug/kg	85.0	25.5	1	12/13/16 12:15	12/14/16 11:51	142-28-9	
2,2-Dichloropropane	<75.5	ug/kg	75.5	22.7	1	12/13/16 12:15	12/14/16 11:51	594-20-7	
1,1-Dichloropropene	<21.5	ug/kg	21.5	21.5	1	12/13/16 12:15	12/14/16 11:51	563-58-6	
cis-1,3-Dichloropropene	<108	ug/kg	108	32.5	1	12/13/16 12:15	12/14/16 11:51	10061-01-5	
trans-1,3-Dichloropropene	<80.7	ug/kg	80.7	24.2	1	12/13/16 12:15	12/14/16 11:51	10061-02-6	
Diethyl ether (Ethyl ether)	<97.8	ug/kg	97.8	29.4	1	12/13/16 12:15	12/14/16 11:51	60-29-7	
Ethylbenzene	<75.5	ug/kg	75.5	22.7	1	12/13/16 12:15	12/14/16 11:51	100-41-4	
Hexachloro-1,3-butadiene	<223	ug/kg	223	67.0	1	12/13/16 12:15	12/14/16 11:51	87-68-3	
Isopropylbenzene (Cumene)	<84.5	ug/kg	84.5	25.4	1	12/13/16 12:15	12/14/16 11:51	98-82-8	
p-Isopropyltoluene	<39.4	ug/kg	39.4	11.8	1	12/13/16 12:15	12/14/16 11:51	99-87-6	
Methylene Chloride	<440	ug/kg	440	132	1	12/13/16 12:15	12/14/16 11:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	<157	ug/kg	157	47.2	1	12/13/16 12:15	12/14/16 11:51	108-10-1	
Methyl-tert-butyl ether	<44.5	ug/kg	44.5	13.3	1	12/13/16 12:15	12/14/16 11:51	1634-04-4	
Naphthalene	<57.5	ug/kg	57.5	17.3	1	12/13/16 12:15	12/14/16 11:51	91-20-3	
n-Propylbenzene	<70.8	ug/kg	70.8	21.3	1	12/13/16 12:15	12/14/16 11:51	103-65-1	
Styrene	<61.7	ug/kg	61.7	18.5	1	12/13/16 12:15	12/14/16 11:51	100-42-5	
1,1,1,2-Tetrachloroethane	<28.2	ug/kg	28.2	28.2	1	12/13/16 12:15	12/14/16 11:51	630-20-6	
1,1,2,2-Tetrachloroethane	<15.8	ug/kg	15.8	15.8	1	12/13/16 12:15	12/14/16 11:51	79-34-5	
Tetrachloroethene	<90.7	ug/kg	90.7	27.2	1	12/13/16 12:15	12/14/16 11:51	127-18-4	
Tetrahydrofuran	<1180	ug/kg	1180	354	1	12/13/16 12:15	12/14/16 11:51	109-99-9	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S24\_20-20.5**      **Lab ID: 10372645012**      Collected: 12/08/16 12:45      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<75.5	ug/kg	75.5	22.7	1	12/13/16 12:15	12/14/16 11:51	108-88-3	
1,2,3-Trichlorobenzene	<20.5	ug/kg	20.5	20.5	1	12/13/16 12:15	12/14/16 11:51	87-61-6	
1,2,4-Trichlorobenzene	<22.0	ug/kg	22.0	22.0	1	12/13/16 12:15	12/14/16 11:51	120-82-1	
1,1,1-Trichloroethane	<29.8	ug/kg	29.8	29.8	1	12/13/16 12:15	12/14/16 11:51	71-55-6	
1,1,2-Trichloroethane	<15.4	ug/kg	15.4	15.4	1	12/13/16 12:15	12/14/16 11:51	79-00-5	
Trichloroethene	<67.9	ug/kg	67.9	20.4	1	12/13/16 12:15	12/14/16 11:51	79-01-6	
Trichlorofluoromethane	<238	ug/kg	238	71.6	1	12/13/16 12:15	12/14/16 11:51	75-69-4	
1,2,3-Trichloropropane	<73.9	ug/kg	73.9	73.9	1	12/13/16 12:15	12/14/16 11:51	96-18-4	
1,1,2-Trichlorotrifluoroethane	<171	ug/kg	171	51.3	1	12/13/16 12:15	12/14/16 11:51	76-13-1	
1,2,4-Trimethylbenzene	<15.7	ug/kg	15.7	15.7	1	12/13/16 12:15	12/14/16 11:51	95-63-6	
1,3,5-Trimethylbenzene	<54.6	ug/kg	54.6	16.4	1	12/13/16 12:15	12/14/16 11:51	108-67-8	
Vinyl chloride	<30.5	ug/kg	30.5	9.2	1	12/13/16 12:15	12/14/16 11:51	75-01-4	
Xylene (Total)	<190	ug/kg	190	57.0	1	12/13/16 12:15	12/14/16 11:51	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%	75-129		1	12/13/16 12:15	12/14/16 11:51	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/13/16 12:15	12/14/16 11:51	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/13/16 12:15	12/14/16 11:51	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S25\_13.5-14**      **Lab ID: 10372645013**      Collected: 12/08/16 13:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	2.5	mg/kg	0.89	0.27	1	12/20/16 09:30	12/21/16 10:48	7440-38-2	
Barium	40.5	mg/kg	0.071	0.021	1	12/20/16 09:30	12/21/16 10:48	7440-39-3	
Cadmium	0.23	mg/kg	0.042	0.013	1	12/20/16 09:30	12/21/16 10:48	7440-43-9	
Chromium	13.8	mg/kg	0.46	0.14	1	12/20/16 09:30	12/21/16 10:48	7440-47-3	
Lead	23.6	mg/kg	0.44	0.13	1	12/20/16 09:30	12/21/16 10:48	7439-92-1	
Selenium	<1.3	mg/kg	1.3	0.39	1	12/20/16 09:30	12/21/16 10:48	7782-49-2	
Silver	0.48	mg/kg	0.35	0.11	1	12/20/16 09:30	12/21/16 10:48	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.30	mg/kg	0.026	0.0078	1	12/20/16 13:17	12/21/16 16:50	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	37.3	%	0.10	0.10	1		12/21/16 16:14		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	41.6	ug/kg	2.1	0.62	1	12/13/16 06:57	12/19/16 22:04	83-32-9	
Acenaphthylene	32.8	ug/kg	1.4	0.43	1	12/13/16 06:57	12/19/16 22:04	208-96-8	
Anthracene	93.4	ug/kg	2.4	0.72	1	12/13/16 06:57	12/19/16 22:04	120-12-7	
Benzo(a)anthracene	200	ug/kg	2.5	0.75	1	12/13/16 06:57	12/19/16 22:04	56-55-3	
Benzo(a)pyrene	214	ug/kg	1.8	0.55	1	12/13/16 06:57	12/19/16 22:04	50-32-8	
Benzo(b)fluoranthene	215	ug/kg	3.0	0.91	1	12/13/16 06:57	12/19/16 22:04	205-99-2	
Benzo(g,h,i)perylene	134	ug/kg	2.4	0.73	1	12/13/16 06:57	12/19/16 22:04	191-24-2	
Benzo(k)fluoranthene	109	ug/kg	2.6	0.79	1	12/13/16 06:57	12/19/16 22:04	207-08-9	
Chrysene	179	ug/kg	2.9	0.89	1	12/13/16 06:57	12/19/16 22:04	218-01-9	
Dibenz(a,h)anthracene	38.3	ug/kg	1.7	0.52	1	12/13/16 06:57	12/19/16 22:04	53-70-3	
Fluoranthene	331	ug/kg	4.2	1.3	1	12/13/16 06:57	12/19/16 22:04	206-44-0	
Fluorene	40.0	ug/kg	2.0	0.61	1	12/13/16 06:57	12/19/16 22:04	86-73-7	
Indeno(1,2,3-cd)pyrene	113	ug/kg	4.0	1.2	1	12/13/16 06:57	12/19/16 22:04	193-39-5	
Naphthalene	38.3	ug/kg	1.9	0.57	1	12/13/16 06:57	12/19/16 22:04	91-20-3	
Phenanthrene	243	ug/kg	2.1	0.64	1	12/13/16 06:57	12/19/16 22:04	85-01-8	
Pyrene	300	ug/kg	4.4	1.3	1	12/13/16 06:57	12/19/16 22:04	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	83	%	41-125		1	12/13/16 06:57	12/19/16 22:04	321-60-8	
p-Terphenyl-d14 (S)	69	%	39-125		1	12/13/16 06:57	12/19/16 22:04	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1940	ug/kg	1940	582	1	12/13/16 12:15	12/14/16 12:09	67-64-1	
Allyl chloride	<254	ug/kg	254	76.2	1	12/13/16 12:15	12/14/16 12:09	107-05-1	
Benzene	<25.5	ug/kg	25.5	7.7	1	12/13/16 12:15	12/14/16 12:09	71-43-2	
Bromobenzene	<75.7	ug/kg	75.7	22.7	1	12/13/16 12:15	12/14/16 12:09	108-86-1	
Bromochloromethane	<88.1	ug/kg	88.1	26.5	1	12/13/16 12:15	12/14/16 12:09	74-97-5	
Bromodichloromethane	<82.8	ug/kg	82.8	24.9	1	12/13/16 12:15	12/14/16 12:09	75-27-4	
Bromoform	<255	ug/kg	255	76.5	1	12/13/16 12:15	12/14/16 12:09	75-25-2	
Bromomethane	<300	ug/kg	300	90.0	1	12/13/16 12:15	12/14/16 12:09	74-83-9	
2-Butanone (MEK)	<390	ug/kg	390	117	1	12/13/16 12:15	12/14/16 12:09	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Sample: **S25\_13.5-14** Lab ID: **10372645013** Collected: 12/08/16 13:00 Received: 12/08/16 18:35 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<71.5	ug/kg	71.5	21.5	1	12/13/16 12:15	12/14/16 12:09	104-51-8	
sec-Butylbenzene	<69.8	ug/kg	69.8	20.9	1	12/13/16 12:15	12/14/16 12:09	135-98-8	
tert-Butylbenzene	<93.4	ug/kg	93.4	28.0	1	12/13/16 12:15	12/14/16 12:09	98-06-6	
Carbon tetrachloride	<92.8	ug/kg	92.8	27.9	1	12/13/16 12:15	12/14/16 12:09	56-23-5	
Chlorobenzene	<51.4	ug/kg	51.4	15.4	1	12/13/16 12:15	12/14/16 12:09	108-90-7	
Chloroethane	<467	ug/kg	467	140	1	12/13/16 12:15	12/14/16 12:09	75-00-3	
Chloroform	<144	ug/kg	144	43.1	1	12/13/16 12:15	12/14/16 12:09	67-66-3	
Chloromethane	<143	ug/kg	143	43.0	1	12/13/16 12:15	12/14/16 12:09	74-87-3	
2-Chlorotoluene	<81.6	ug/kg	81.6	24.5	1	12/13/16 12:15	12/14/16 12:09	95-49-8	
4-Chlorotoluene	<77.4	ug/kg	77.4	23.3	1	12/13/16 12:15	12/14/16 12:09	106-43-4	
1,2-Dibromo-3-chloropropane	<173	ug/kg	173	173	1	12/13/16 12:15	12/14/16 12:09	96-12-8	
Dibromochloromethane	<254	ug/kg	254	76.2	1	12/13/16 12:15	12/14/16 12:09	124-48-1	
1,2-Dibromoethane (EDB)	<33.4	ug/kg	33.4	33.4	1	12/13/16 12:15	12/14/16 12:09	106-93-4	
Dibromomethane	<115	ug/kg	115	34.6	1	12/13/16 12:15	12/14/16 12:09	74-95-3	
1,2-Dichlorobenzene	<17.1	ug/kg	17.1	17.1	1	12/13/16 12:15	12/14/16 12:09	95-50-1	
1,3-Dichlorobenzene	<26.1	ug/kg	26.1	26.1	1	12/13/16 12:15	12/14/16 12:09	541-73-1	
1,4-Dichlorobenzene	<85.7	ug/kg	85.7	25.7	1	12/13/16 12:15	12/14/16 12:09	106-46-7	
Dichlorodifluoromethane	<90.4	ug/kg	90.4	27.2	1	12/13/16 12:15	12/14/16 12:09	75-71-8	
1,1-Dichloroethane	<34.4	ug/kg	34.4	34.4	1	12/13/16 12:15	12/14/16 12:09	75-34-3	
1,2-Dichloroethane	<28.0	ug/kg	28.0	28.0	1	12/13/16 12:15	12/14/16 12:09	107-06-2	
1,1-Dichloroethene	<22.5	ug/kg	22.5	22.5	1	12/13/16 12:15	12/14/16 12:09	75-35-4	
cis-1,2-Dichloroethene	<110	ug/kg	110	33.0	1	12/13/16 12:15	12/14/16 12:09	156-59-2	
trans-1,2-Dichloroethene	<142	ug/kg	142	42.8	1	12/13/16 12:15	12/14/16 12:09	156-60-5	
Dichlorofluoromethane	<810	ug/kg	810	243	1	12/13/16 12:15	12/14/16 12:09	75-43-4	
1,2-Dichloropropane	<30.7	ug/kg	30.7	30.7	1	12/13/16 12:15	12/14/16 12:09	78-87-5	
1,3-Dichloropropane	<106	ug/kg	106	31.8	1	12/13/16 12:15	12/14/16 12:09	142-28-9	
2,2-Dichloropropane	<94.0	ug/kg	94.0	28.2	1	12/13/16 12:15	12/14/16 12:09	594-20-7	
1,1-Dichloropropene	<26.8	ug/kg	26.8	26.8	1	12/13/16 12:15	12/14/16 12:09	563-58-6	
cis-1,3-Dichloropropene	<135	ug/kg	135	40.5	1	12/13/16 12:15	12/14/16 12:09	10061-01-5	
trans-1,3-Dichloropropene	<100	ug/kg	100	30.2	1	12/13/16 12:15	12/14/16 12:09	10061-02-6	
Diethyl ether (Ethyl ether)	<122	ug/kg	122	36.6	1	12/13/16 12:15	12/14/16 12:09	60-29-7	
Ethylbenzene	<94.0	ug/kg	94.0	28.2	1	12/13/16 12:15	12/14/16 12:09	100-41-4	
Hexachloro-1,3-butadiene	<278	ug/kg	278	83.4	1	12/13/16 12:15	12/14/16 12:09	87-68-3	
Isopropylbenzene (Cumene)	<105	ug/kg	105	31.6	1	12/13/16 12:15	12/14/16 12:09	98-82-8	
p-Isopropyltoluene	<49.1	ug/kg	49.1	14.7	1	12/13/16 12:15	12/14/16 12:09	99-87-6	
Methylene Chloride	<547	ug/kg	547	164	1	12/13/16 12:15	12/14/16 12:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	<196	ug/kg	196	58.8	1	12/13/16 12:15	12/14/16 12:09	108-10-1	
Methyl-tert-butyl ether	<55.3	ug/kg	55.3	16.6	1	12/13/16 12:15	12/14/16 12:09	1634-04-4	
Naphthalene	<71.5	ug/kg	71.5	21.5	1	12/13/16 12:15	12/14/16 12:09	91-20-3	
n-Propylbenzene	<88.1	ug/kg	88.1	26.5	1	12/13/16 12:15	12/14/16 12:09	103-65-1	
Styrene	<76.8	ug/kg	76.8	23.1	1	12/13/16 12:15	12/14/16 12:09	100-42-5	
1,1,1,2-Tetrachloroethane	<35.1	ug/kg	35.1	35.1	1	12/13/16 12:15	12/14/16 12:09	630-20-6	
1,1,2,2-Tetrachloroethane	<19.7	ug/kg	19.7	19.7	1	12/13/16 12:15	12/14/16 12:09	79-34-5	
Tetrachloroethene	<113	ug/kg	113	33.9	1	12/13/16 12:15	12/14/16 12:09	127-18-4	
Tetrahydrofuran	<1470	ug/kg	1470	440	1	12/13/16 12:15	12/14/16 12:09	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S25\_13.5-14**      **Lab ID: 10372645013**      Collected: 12/08/16 13:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<94.0	ug/kg	94.0	28.2	1	12/13/16 12:15	12/14/16 12:09	108-88-3	
1,2,3-Trichlorobenzene	<25.6	ug/kg	25.6	25.6	1	12/13/16 12:15	12/14/16 12:09	87-61-6	
1,2,4-Trichlorobenzene	<27.3	ug/kg	27.3	27.3	1	12/13/16 12:15	12/14/16 12:09	120-82-1	
1,1,1-Trichloroethane	<37.1	ug/kg	37.1	37.1	1	12/13/16 12:15	12/14/16 12:09	71-55-6	
1,1,2-Trichloroethane	<19.2	ug/kg	19.2	19.2	1	12/13/16 12:15	12/14/16 12:09	79-00-5	
Trichloroethene	<84.5	ug/kg	84.5	25.4	1	12/13/16 12:15	12/14/16 12:09	79-01-6	
Trichlorofluoromethane	<297	ug/kg	297	89.1	1	12/13/16 12:15	12/14/16 12:09	75-69-4	
1,2,3-Trichloropropane	<92.0	ug/kg	92.0	92.0	1	12/13/16 12:15	12/14/16 12:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	<213	ug/kg	213	63.9	1	12/13/16 12:15	12/14/16 12:09	76-13-1	
1,2,4-Trimethylbenzene	<19.5	ug/kg	19.5	19.5	1	12/13/16 12:15	12/14/16 12:09	95-63-6	
1,3,5-Trimethylbenzene	<68.0	ug/kg	68.0	20.4	1	12/13/16 12:15	12/14/16 12:09	108-67-8	
Vinyl chloride	<38.0	ug/kg	38.0	11.4	1	12/13/16 12:15	12/14/16 12:09	75-01-4	
Xylene (Total)	<236	ug/kg	236	71.0	1	12/13/16 12:15	12/14/16 12:09	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%	75-129		1	12/13/16 12:15	12/14/16 12:09	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/13/16 12:15	12/14/16 12:09	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/13/16 12:15	12/14/16 12:09	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S25\_14-22**      **Lab ID: 10372645014**      Collected: 12/08/16 13:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	3.1	mg/kg	0.93	0.28	1	12/20/16 09:30	12/21/16 10:51	7440-38-2	
Barium	49.5	mg/kg	0.074	0.022	1	12/20/16 09:30	12/21/16 10:51	7440-39-3	
Cadmium	0.32	mg/kg	0.044	0.013	1	12/20/16 09:30	12/21/16 10:51	7440-43-9	
Chromium	18.2	mg/kg	0.48	0.14	1	12/20/16 09:30	12/21/16 10:51	7440-47-3	
Lead	34.0	mg/kg	0.46	0.14	1	12/20/16 09:30	12/21/16 10:51	7439-92-1	
Selenium	<1.3	mg/kg	1.3	0.40	1	12/20/16 09:30	12/21/16 10:51	7782-49-2	
Silver	0.39	mg/kg	0.37	0.11	1	12/20/16 09:30	12/21/16 10:51	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.35	mg/kg	0.026	0.0078	1	12/20/16 13:17	12/21/16 16:52	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	37.4	%	0.10	0.10	1		12/21/16 16:14		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	158	ug/kg	2.1	0.62	1	12/13/16 06:57	12/19/16 22:25	83-32-9	
Acenaphthylene	32.6	ug/kg	1.4	0.43	1	12/13/16 06:57	12/19/16 22:25	208-96-8	
Anthracene	711	ug/kg	12.0	3.6	5	12/13/16 06:57	12/20/16 12:39	120-12-7	
Benzo(a)anthracene	748	ug/kg	12.4	3.7	5	12/13/16 06:57	12/20/16 12:39	56-55-3	
Benzo(a)pyrene	624	ug/kg	9.2	2.8	5	12/13/16 06:57	12/20/16 12:39	50-32-8	
Benzo(b)fluoranthene	742	ug/kg	15.2	4.6	5	12/13/16 06:57	12/20/16 12:39	205-99-2	
Benzo(g,h,i)perylene	283	ug/kg	2.4	0.73	1	12/13/16 06:57	12/19/16 22:25	191-24-2	
Benzo(k)fluoranthene	281	ug/kg	2.6	0.78	1	12/13/16 06:57	12/19/16 22:25	207-08-9	
Chrysene	626	ug/kg	14.7	4.4	5	12/13/16 06:57	12/20/16 12:39	218-01-9	
Dibenz(a,h)anthracene	96.4	ug/kg	1.7	0.52	1	12/13/16 06:57	12/19/16 22:25	53-70-3	
Fluoranthene	1620	ug/kg	20.8	6.2	5	12/13/16 06:57	12/20/16 12:39	206-44-0	
Fluorene	271	ug/kg	2.0	0.61	1	12/13/16 06:57	12/19/16 22:25	86-73-7	
Indeno(1,2,3-cd)pyrene	254	ug/kg	4.0	1.2	1	12/13/16 06:57	12/19/16 22:25	193-39-5	
Naphthalene	49.8	ug/kg	1.9	0.57	1	12/13/16 06:57	12/19/16 22:25	91-20-3	
Phenanthrene	1670	ug/kg	10.7	3.2	5	12/13/16 06:57	12/20/16 12:39	85-01-8	
Pyrene	1240	ug/kg	22.0	6.6	5	12/13/16 06:57	12/20/16 12:39	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	80	%	41-125		1	12/13/16 06:57	12/19/16 22:25	321-60-8	
p-Terphenyl-d14 (S)	74	%	39-125		1	12/13/16 06:57	12/19/16 22:25	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<1770	ug/kg	1770	530	1	12/13/16 12:15	12/14/16 12:26	67-64-1	
Allyl chloride	<231	ug/kg	231	69.3	1	12/13/16 12:15	12/14/16 12:26	107-05-1	
Benzene	<23.3	ug/kg	23.3	7.0	1	12/13/16 12:15	12/14/16 12:26	71-43-2	
Bromobenzene	<68.9	ug/kg	68.9	20.7	1	12/13/16 12:15	12/14/16 12:26	108-86-1	
Bromochloromethane	<80.2	ug/kg	80.2	24.1	1	12/13/16 12:15	12/14/16 12:26	74-97-5	
Bromodichloromethane	<75.3	ug/kg	75.3	22.6	1	12/13/16 12:15	12/14/16 12:26	75-27-4	
Bromoform	<232	ug/kg	232	69.7	1	12/13/16 12:15	12/14/16 12:26	75-25-2	
Bromomethane	<273	ug/kg	273	81.9	1	12/13/16 12:15	12/14/16 12:26	74-83-9	
2-Butanone (MEK)	<355	ug/kg	355	107	1	12/13/16 12:15	12/14/16 12:26	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S25\_14-22**      **Lab ID: 10372645014**      Collected: 12/08/16 13:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<65.1	ug/kg	65.1	19.6	1	12/13/16 12:15	12/14/16 12:26	104-51-8	
sec-Butylbenzene	<63.5	ug/kg	63.5	19.1	1	12/13/16 12:15	12/14/16 12:26	135-98-8	
tert-Butylbenzene	<85.0	ug/kg	85.0	25.5	1	12/13/16 12:15	12/14/16 12:26	98-06-6	
Carbon tetrachloride	<84.5	ug/kg	84.5	25.4	1	12/13/16 12:15	12/14/16 12:26	56-23-5	
Chlorobenzene	<46.8	ug/kg	46.8	14.1	1	12/13/16 12:15	12/14/16 12:26	108-90-7	
Chloroethane	<425	ug/kg	425	128	1	12/13/16 12:15	12/14/16 12:26	75-00-3	
Chloroform	<131	ug/kg	131	39.3	1	12/13/16 12:15	12/14/16 12:26	67-66-3	
Chloromethane	<130	ug/kg	130	39.1	1	12/13/16 12:15	12/14/16 12:26	74-87-3	
2-Chlorotoluene	<74.3	ug/kg	74.3	22.3	1	12/13/16 12:15	12/14/16 12:26	95-49-8	
4-Chlorotoluene	<70.5	ug/kg	70.5	21.2	1	12/13/16 12:15	12/14/16 12:26	106-43-4	
1,2-Dibromo-3-chloropropane	<158	ug/kg	158	158	1	12/13/16 12:15	12/14/16 12:26	96-12-8	
Dibromochloromethane	<231	ug/kg	231	69.3	1	12/13/16 12:15	12/14/16 12:26	124-48-1	
1,2-Dibromoethane (EDB)	<30.4	ug/kg	30.4	30.4	1	12/13/16 12:15	12/14/16 12:26	106-93-4	
Dibromomethane	<105	ug/kg	105	31.5	1	12/13/16 12:15	12/14/16 12:26	74-95-3	
1,2-Dichlorobenzene	<15.6	ug/kg	15.6	15.6	1	12/13/16 12:15	12/14/16 12:26	95-50-1	
1,3-Dichlorobenzene	<23.8	ug/kg	23.8	23.8	1	12/13/16 12:15	12/14/16 12:26	541-73-1	
1,4-Dichlorobenzene	<78.0	ug/kg	78.0	23.4	1	12/13/16 12:15	12/14/16 12:26	106-46-7	
Dichlorodifluoromethane	<82.3	ug/kg	82.3	24.7	1	12/13/16 12:15	12/14/16 12:26	75-71-8	
1,1-Dichloroethane	<31.4	ug/kg	31.4	31.4	1	12/13/16 12:15	12/14/16 12:26	75-34-3	
1,2-Dichloroethane	<25.5	ug/kg	25.5	25.5	1	12/13/16 12:15	12/14/16 12:26	107-06-2	
1,1-Dichloroethene	<20.5	ug/kg	20.5	20.5	1	12/13/16 12:15	12/14/16 12:26	75-35-4	
cis-1,2-Dichloroethene	<100	ug/kg	100	30.1	1	12/13/16 12:15	12/14/16 12:26	156-59-2	
trans-1,2-Dichloroethene	<130	ug/kg	130	39.0	1	12/13/16 12:15	12/14/16 12:26	156-60-5	
Dichlorofluoromethane	<737	ug/kg	737	221	1	12/13/16 12:15	12/14/16 12:26	75-43-4	
1,2-Dichloropropane	<28.0	ug/kg	28.0	28.0	1	12/13/16 12:15	12/14/16 12:26	78-87-5	
1,3-Dichloropropane	<96.3	ug/kg	96.3	28.9	1	12/13/16 12:15	12/14/16 12:26	142-28-9	
2,2-Dichloropropane	<85.6	ug/kg	85.6	25.7	1	12/13/16 12:15	12/14/16 12:26	594-20-7	
1,1-Dichloropropene	<24.4	ug/kg	24.4	24.4	1	12/13/16 12:15	12/14/16 12:26	563-58-6	
cis-1,3-Dichloropropene	<123	ug/kg	123	36.9	1	12/13/16 12:15	12/14/16 12:26	10061-01-5	
trans-1,3-Dichloropropene	<91.5	ug/kg	91.5	27.5	1	12/13/16 12:15	12/14/16 12:26	10061-02-6	
Diethyl ether (Ethyl ether)	<111	ug/kg	111	33.3	1	12/13/16 12:15	12/14/16 12:26	60-29-7	
Ethylbenzene	<85.6	ug/kg	85.6	25.7	1	12/13/16 12:15	12/14/16 12:26	100-41-4	
Hexachloro-1,3-butadiene	<253	ug/kg	253	76.0	1	12/13/16 12:15	12/14/16 12:26	87-68-3	
Isopropylbenzene (Cumene)	<95.8	ug/kg	95.8	28.8	1	12/13/16 12:15	12/14/16 12:26	98-82-8	
p-Isopropyltoluene	<44.7	ug/kg	44.7	13.4	1	12/13/16 12:15	12/14/16 12:26	99-87-6	
Methylene Chloride	<498	ug/kg	498	150	1	12/13/16 12:15	12/14/16 12:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	<178	ug/kg	178	53.5	1	12/13/16 12:15	12/14/16 12:26	108-10-1	
Methyl-tert-butyl ether	<50.4	ug/kg	50.4	15.1	1	12/13/16 12:15	12/14/16 12:26	1634-04-4	
Naphthalene	<65.1	ug/kg	65.1	19.6	1	12/13/16 12:15	12/14/16 12:26	91-20-3	
n-Propylbenzene	<80.2	ug/kg	80.2	24.1	1	12/13/16 12:15	12/14/16 12:26	103-65-1	
Styrene	<70.0	ug/kg	70.0	21.0	1	12/13/16 12:15	12/14/16 12:26	100-42-5	
1,1,1,2-Tetrachloroethane	<32.0	ug/kg	32.0	32.0	1	12/13/16 12:15	12/14/16 12:26	630-20-6	
1,1,2,2-Tetrachloroethane	<17.9	ug/kg	17.9	17.9	1	12/13/16 12:15	12/14/16 12:26	79-34-5	
Tetrachloroethene	<103	ug/kg	103	30.9	1	12/13/16 12:15	12/14/16 12:26	127-18-4	
Tetrahydrofuran	<1330	ug/kg	1330	401	1	12/13/16 12:15	12/14/16 12:26	109-99-9	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S25\_14-22**      **Lab ID: 10372645014**      Collected: 12/08/16 13:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<85.6	ug/kg	85.6	25.7	1	12/13/16 12:15	12/14/16 12:26	108-88-3	
1,2,3-Trichlorobenzene	<23.3	ug/kg	23.3	23.3	1	12/13/16 12:15	12/14/16 12:26	87-61-6	
1,2,4-Trichlorobenzene	<24.9	ug/kg	24.9	24.9	1	12/13/16 12:15	12/14/16 12:26	120-82-1	
1,1,1-Trichloroethane	<33.8	ug/kg	33.8	33.8	1	12/13/16 12:15	12/14/16 12:26	71-55-6	
1,1,2-Trichloroethane	<17.5	ug/kg	17.5	17.5	1	12/13/16 12:15	12/14/16 12:26	79-00-5	
Trichloroethene	<77.0	ug/kg	77.0	23.1	1	12/13/16 12:15	12/14/16 12:26	79-01-6	
Trichlorofluoromethane	<270	ug/kg	270	81.1	1	12/13/16 12:15	12/14/16 12:26	75-69-4	
1,2,3-Trichloropropane	<83.7	ug/kg	83.7	83.7	1	12/13/16 12:15	12/14/16 12:26	96-18-4	
1,1,2-Trichlorotrifluoroethane	<194	ug/kg	194	58.2	1	12/13/16 12:15	12/14/16 12:26	76-13-1	
1,2,4-Trimethylbenzene	<17.8	ug/kg	17.8	17.8	1	12/13/16 12:15	12/14/16 12:26	95-63-6	
1,3,5-Trimethylbenzene	<61.9	ug/kg	61.9	18.6	1	12/13/16 12:15	12/14/16 12:26	108-67-8	
Vinyl chloride	<34.6	ug/kg	34.6	10.4	1	12/13/16 12:15	12/14/16 12:26	75-01-4	
Xylene (Total)	<215	ug/kg	215	64.6	1	12/13/16 12:15	12/14/16 12:26	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-129		1	12/13/16 12:15	12/14/16 12:26	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/13/16 12:15	12/14/16 12:26	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/13/16 12:15	12/14/16 12:26	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S25\_14-22D**      **Lab ID: 10372645015**      Collected: 12/08/16 13:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	2.5	mg/kg	0.84	0.25	1	12/20/16 09:30	12/21/16 10:53	7440-38-2	
Barium	44.2	mg/kg	0.067	0.020	1	12/20/16 09:30	12/21/16 10:53	7440-39-3	
Cadmium	0.20	mg/kg	0.040	0.012	1	12/20/16 09:30	12/21/16 10:53	7440-43-9	
Chromium	14.8	mg/kg	0.44	0.13	1	12/20/16 09:30	12/21/16 10:53	7440-47-3	
Lead	33.1	mg/kg	0.42	0.13	1	12/20/16 09:30	12/21/16 10:53	7439-92-1	
Selenium	<1.2	mg/kg	1.2	0.37	1	12/20/16 09:30	12/21/16 10:53	7782-49-2	
Silver	0.55	mg/kg	0.34	0.10	1	12/20/16 09:30	12/21/16 10:53	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.35	mg/kg	0.023	0.0070	1	12/20/16 13:17	12/21/16 16:54	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	34.4	%	0.10	0.10	1		12/21/16 16:14		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	37.7	ug/kg	2.0	0.59	1	12/13/16 06:57	12/19/16 22:47	83-32-9	
Acenaphthylene	33.2	ug/kg	1.4	0.41	1	12/13/16 06:57	12/19/16 22:47	208-96-8	
Anthracene	60.8	ug/kg	2.3	0.69	1	12/13/16 06:57	12/19/16 22:47	120-12-7	
Benzo(a)anthracene	201	ug/kg	2.4	0.71	1	12/13/16 06:57	12/19/16 22:47	56-55-3	
Benzo(a)pyrene	205	ug/kg	1.8	0.53	1	12/13/16 06:57	12/19/16 22:47	50-32-8	
Benzo(b)fluoranthene	204	ug/kg	2.9	0.87	1	12/13/16 06:57	12/19/16 22:47	205-99-2	
Benzo(g,h,i)perylene	126	ug/kg	2.3	0.69	1	12/13/16 06:57	12/19/16 22:47	191-24-2	
Benzo(k)fluoranthene	96.9	ug/kg	2.5	0.75	1	12/13/16 06:57	12/19/16 22:47	207-08-9	
Chrysene	181	ug/kg	2.8	0.84	1	12/13/16 06:57	12/19/16 22:47	218-01-9	
Dibenz(a,h)anthracene	37.1	ug/kg	1.7	0.50	1	12/13/16 06:57	12/19/16 22:47	53-70-3	
Fluoranthene	347	ug/kg	4.0	1.2	1	12/13/16 06:57	12/19/16 22:47	206-44-0	
Fluorene	29.2	ug/kg	1.9	0.58	1	12/13/16 06:57	12/19/16 22:47	86-73-7	
Indeno(1,2,3-cd)pyrene	99.1	ug/kg	3.8	1.1	1	12/13/16 06:57	12/19/16 22:47	193-39-5	
Naphthalene	23.3	ug/kg	1.8	0.54	1	12/13/16 06:57	12/19/16 22:47	91-20-3	
Phenanthrene	226	ug/kg	2.0	0.61	1	12/13/16 06:57	12/19/16 22:47	85-01-8	
Pyrene	335	ug/kg	4.2	1.3	1	12/13/16 06:57	12/19/16 22:47	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	82	%	41-125		1	12/13/16 06:57	12/19/16 22:47	321-60-8	
p-Terphenyl-d14 (S)	70	%	39-125		1	12/13/16 06:57	12/19/16 22:47	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<2370	ug/kg	2370	712	1	12/13/16 12:15	12/14/16 14:29	67-64-1	
Allyl chloride	<310	ug/kg	310	93.1	1	12/13/16 12:15	12/14/16 14:29	107-05-1	
Benzene	52.7	ug/kg	31.2	9.4	1	12/13/16 12:15	12/14/16 14:29	71-43-2	
Bromobenzene	<92.5	ug/kg	92.5	27.8	1	12/13/16 12:15	12/14/16 14:29	108-86-1	
Bromochloromethane	<108	ug/kg	108	32.3	1	12/13/16 12:15	12/14/16 14:29	74-97-5	
Bromodichloromethane	<101	ug/kg	101	30.4	1	12/13/16 12:15	12/14/16 14:29	75-27-4	
Bromoform	<311	ug/kg	311	93.5	1	12/13/16 12:15	12/14/16 14:29	75-25-2	
Bromomethane	<366	ug/kg	366	110	1	12/13/16 12:15	12/14/16 14:29	74-83-9	
2-Butanone (MEK)	<477	ug/kg	477	143	1	12/13/16 12:15	12/14/16 14:29	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S25\_14-22D**      **Lab ID: 10372645015**      Collected: 12/08/16 13:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<87.4	ug/kg	87.4	26.2	1	12/13/16 12:15	12/14/16 14:29	104-51-8	
sec-Butylbenzene	<85.2	ug/kg	85.2	25.6	1	12/13/16 12:15	12/14/16 14:29	135-98-8	
tert-Butylbenzene	<114	ug/kg	114	34.3	1	12/13/16 12:15	12/14/16 14:29	98-06-6	
Carbon tetrachloride	<113	ug/kg	113	34.1	1	12/13/16 12:15	12/14/16 14:29	56-23-5	
Chlorobenzene	<62.8	ug/kg	62.8	18.9	1	12/13/16 12:15	12/14/16 14:29	108-90-7	
Chloroethane	<571	ug/kg	571	171	1	12/13/16 12:15	12/14/16 14:29	75-00-3	
Chloroform	<176	ug/kg	176	52.7	1	12/13/16 12:15	12/14/16 14:29	67-66-3	
Chloromethane	<175	ug/kg	175	52.5	1	12/13/16 12:15	12/14/16 14:29	74-87-3	
2-Chlorotoluene	<99.7	ug/kg	99.7	29.9	1	12/13/16 12:15	12/14/16 14:29	95-49-8	
4-Chlorotoluene	<94.6	ug/kg	94.6	28.4	1	12/13/16 12:15	12/14/16 14:29	106-43-4	
1,2-Dibromo-3-chloropropane	<211	ug/kg	211	211	1	12/13/16 12:15	12/14/16 14:29	96-12-8	
Dibromochloromethane	<310	ug/kg	310	93.1	1	12/13/16 12:15	12/14/16 14:29	124-48-1	
1,2-Dibromoethane (EDB)	<40.8	ug/kg	40.8	40.8	1	12/13/16 12:15	12/14/16 14:29	106-93-4	
Dibromomethane	<141	ug/kg	141	42.3	1	12/13/16 12:15	12/14/16 14:29	74-95-3	
1,2-Dichlorobenzene	<21.0	ug/kg	21.0	21.0	1	12/13/16 12:15	12/14/16 14:29	95-50-1	
1,3-Dichlorobenzene	<31.9	ug/kg	31.9	31.9	1	12/13/16 12:15	12/14/16 14:29	541-73-1	
1,4-Dichlorobenzene	<105	ug/kg	105	31.5	1	12/13/16 12:15	12/14/16 14:29	106-46-7	
Dichlorodifluoromethane	<111	ug/kg	111	33.2	1	12/13/16 12:15	12/14/16 14:29	75-71-8	
1,1-Dichloroethane	<42.1	ug/kg	42.1	42.1	1	12/13/16 12:15	12/14/16 14:29	75-34-3	
1,2-Dichloroethane	<34.3	ug/kg	34.3	34.3	1	12/13/16 12:15	12/14/16 14:29	107-06-2	
1,1-Dichloroethene	<27.5	ug/kg	27.5	27.5	1	12/13/16 12:15	12/14/16 14:29	75-35-4	
cis-1,2-Dichloroethene	<134	ug/kg	134	40.3	1	12/13/16 12:15	12/14/16 14:29	156-59-2	
trans-1,2-Dichloroethene	<174	ug/kg	174	52.3	1	12/13/16 12:15	12/14/16 14:29	156-60-5	
Dichlorofluoromethane	<990	ug/kg	990	297	1	12/13/16 12:15	12/14/16 14:29	75-43-4	
1,2-Dichloropropane	<37.5	ug/kg	37.5	37.5	1	12/13/16 12:15	12/14/16 14:29	78-87-5	
1,3-Dichloropropane	<129	ug/kg	129	38.8	1	12/13/16 12:15	12/14/16 14:29	142-28-9	
2,2-Dichloropropane	<115	ug/kg	115	34.5	1	12/13/16 12:15	12/14/16 14:29	594-20-7	
1,1-Dichloropropene	<32.8	ug/kg	32.8	32.8	1	12/13/16 12:15	12/14/16 14:29	563-58-6	
cis-1,3-Dichloropropene	<165	ug/kg	165	49.5	1	12/13/16 12:15	12/14/16 14:29	10061-01-5	
trans-1,3-Dichloropropene	<123	ug/kg	123	36.9	1	12/13/16 12:15	12/14/16 14:29	10061-02-6	
Diethyl ether (Ethyl ether)	<149	ug/kg	149	44.7	1	12/13/16 12:15	12/14/16 14:29	60-29-7	
Ethylbenzene	<115	ug/kg	115	34.5	1	12/13/16 12:15	12/14/16 14:29	100-41-4	
Hexachloro-1,3-butadiene	<340	ug/kg	340	102	1	12/13/16 12:15	12/14/16 14:29	87-68-3	
Isopropylbenzene (Cumene)	<129	ug/kg	129	38.6	1	12/13/16 12:15	12/14/16 14:29	98-82-8	
p-Isopropyltoluene	<60.0	ug/kg	60.0	18.0	1	12/13/16 12:15	12/14/16 14:29	99-87-6	
Methylene Chloride	<669	ug/kg	669	201	1	12/13/16 12:15	12/14/16 14:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	<239	ug/kg	239	71.8	1	12/13/16 12:15	12/14/16 14:29	108-10-1	
Methyl-tert-butyl ether	<67.6	ug/kg	67.6	20.3	1	12/13/16 12:15	12/14/16 14:29	1634-04-4	
Naphthalene	226	ug/kg	87.4	26.2	1	12/13/16 12:15	12/14/16 14:29	91-20-3	
n-Propylbenzene	<108	ug/kg	108	32.3	1	12/13/16 12:15	12/14/16 14:29	103-65-1	
Styrene	<93.9	ug/kg	93.9	28.2	1	12/13/16 12:15	12/14/16 14:29	100-42-5	
1,1,1,2-Tetrachloroethane	<43.0	ug/kg	43.0	43.0	1	12/13/16 12:15	12/14/16 14:29	630-20-6	
1,1,2,2-Tetrachloroethane	<24.1	ug/kg	24.1	24.1	1	12/13/16 12:15	12/14/16 14:29	79-34-5	
Tetrachloroethene	<138	ug/kg	138	41.4	1	12/13/16 12:15	12/14/16 14:29	127-18-4	
Tetrahydrofuran	<1790	ug/kg	1790	538	1	12/13/16 12:15	12/14/16 14:29	109-99-9	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S25\_14-22D**      **Lab ID: 10372645015**      Collected: 12/08/16 13:00      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<b>140</b>	ug/kg	115	34.5	1	12/13/16 12:15	12/14/16 14:29	108-88-3	
1,2,3-Trichlorobenzene	<b>&lt;31.2</b>	ug/kg	31.2	31.2	1	12/13/16 12:15	12/14/16 14:29	87-61-6	
1,2,4-Trichlorobenzene	<b>&lt;33.4</b>	ug/kg	33.4	33.4	1	12/13/16 12:15	12/14/16 14:29	120-82-1	
1,1,1-Trichloroethane	<b>&lt;45.3</b>	ug/kg	45.3	45.3	1	12/13/16 12:15	12/14/16 14:29	71-55-6	
1,1,2-Trichloroethane	<b>&lt;23.4</b>	ug/kg	23.4	23.4	1	12/13/16 12:15	12/14/16 14:29	79-00-5	
Trichloroethene	<b>&lt;103</b>	ug/kg	103	31.0	1	12/13/16 12:15	12/14/16 14:29	79-01-6	
Trichlorofluoromethane	<b>&lt;363</b>	ug/kg	363	109	1	12/13/16 12:15	12/14/16 14:29	75-69-4	
1,2,3-Trichloropropane	<b>&lt;112</b>	ug/kg	112	112	1	12/13/16 12:15	12/14/16 14:29	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;260</b>	ug/kg	260	78.1	1	12/13/16 12:15	12/14/16 14:29	76-13-1	
1,2,4-Trimethylbenzene	<b>&lt;23.9</b>	ug/kg	23.9	23.9	1	12/13/16 12:15	12/14/16 14:29	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;83.1</b>	ug/kg	83.1	24.9	1	12/13/16 12:15	12/14/16 14:29	108-67-8	
Vinyl chloride	<b>&lt;46.4</b>	ug/kg	46.4	13.9	1	12/13/16 12:15	12/14/16 14:29	75-01-4	
Xylene (Total)	<b>&lt;289</b>	ug/kg	289	86.8	1	12/13/16 12:15	12/14/16 14:29	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%	75-129		1	12/13/16 12:15	12/14/16 14:29	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/13/16 12:15	12/14/16 14:29	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/13/16 12:15	12/14/16 14:29	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S21\_26-31D**      **Lab ID: 10372645016**      Collected: 12/08/16 10:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010C MET ICP</b>									
Analytical Method: EPA 6010C    Preparation Method: EPA 3050									
Arsenic	<b>4.9</b>	mg/kg	0.87	0.26	1	12/20/16 09:30	12/21/16 10:56	7440-38-2	
Barium	<b>142</b>	mg/kg	0.069	0.021	1	12/20/16 09:30	12/21/16 10:56	7440-39-3	
Cadmium	<b>0.17</b>	mg/kg	0.041	0.012	1	12/20/16 09:30	12/21/16 10:56	7440-43-9	
Chromium	<b>31.0</b>	mg/kg	0.45	0.14	1	12/20/16 09:30	12/21/16 10:56	7440-47-3	
Lead	<b>8.7</b>	mg/kg	0.43	0.13	1	12/20/16 09:30	12/21/16 10:56	7439-92-1	
Selenium	<b>&lt;1.3</b>	mg/kg	1.3	0.38	1	12/20/16 09:30	12/21/16 10:56	7782-49-2	
Silver	<b>&lt;0.35</b>	mg/kg	0.35	0.10	1	12/20/16 09:30	12/21/16 10:56	7440-22-4	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<b>0.036</b>	mg/kg	0.021	0.0064	1	12/20/16 13:17	12/21/16 16:56	7439-97-6	
<b>Dry Weight</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>26.0</b>	%	0.10	0.10	1		12/21/16 16:15		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Acenaphthene	<b>&lt;1.8</b>	ug/kg	1.8	0.53	1	12/13/16 06:57	12/19/16 23:09	83-32-9	
Acenaphthylene	<b>&lt;1.2</b>	ug/kg	1.2	0.37	1	12/13/16 06:57	12/19/16 23:09	208-96-8	
Anthracene	<b>&lt;2.0</b>	ug/kg	2.0	0.61	1	12/13/16 06:57	12/19/16 23:09	120-12-7	
Benzo(a)anthracene	<b>&lt;2.1</b>	ug/kg	2.1	0.63	1	12/13/16 06:57	12/19/16 23:09	56-55-3	
Benzo(a)pyrene	<b>&lt;1.6</b>	ug/kg	1.6	0.47	1	12/13/16 06:57	12/19/16 23:09	50-32-8	
Benzo(b)fluoranthene	<b>&lt;2.6</b>	ug/kg	2.6	0.77	1	12/13/16 06:57	12/19/16 23:09	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;2.1</b>	ug/kg	2.1	0.62	1	12/13/16 06:57	12/19/16 23:09	191-24-2	
Benzo(k)fluoranthene	<b>&lt;2.2</b>	ug/kg	2.2	0.66	1	12/13/16 06:57	12/19/16 23:09	207-08-9	
Chrysene	<b>&lt;2.5</b>	ug/kg	2.5	0.75	1	12/13/16 06:57	12/19/16 23:09	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;1.5</b>	ug/kg	1.5	0.44	1	12/13/16 06:57	12/19/16 23:09	53-70-3	
Fluoranthene	<b>&lt;3.5</b>	ug/kg	3.5	1.1	1	12/13/16 06:57	12/19/16 23:09	206-44-0	
Fluorene	<b>&lt;1.7</b>	ug/kg	1.7	0.52	1	12/13/16 06:57	12/19/16 23:09	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;3.4</b>	ug/kg	3.4	1.0	1	12/13/16 06:57	12/19/16 23:09	193-39-5	
Naphthalene	<b>&lt;1.6</b>	ug/kg	1.6	0.48	1	12/13/16 06:57	12/19/16 23:09	91-20-3	
Phenanthrene	<b>&lt;1.8</b>	ug/kg	1.8	0.54	1	12/13/16 06:57	12/19/16 23:09	85-01-8	
Pyrene	<b>&lt;3.7</b>	ug/kg	3.7	1.1	1	12/13/16 06:57	12/19/16 23:09	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	87	%	41-125		1	12/13/16 06:57	12/19/16 23:09	321-60-8	
p-Terphenyl-d14 (S)	78	%	39-125		1	12/13/16 06:57	12/19/16 23:09	1718-51-0	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<b>&lt;1940</b>	ug/kg	1940	581	1	12/13/16 12:15	12/14/16 14:46	67-64-1	
Allyl chloride	<b>&lt;253</b>	ug/kg	253	76.0	1	12/13/16 12:15	12/14/16 14:46	107-05-1	
Benzene	<b>&lt;25.5</b>	ug/kg	25.5	7.7	1	12/13/16 12:15	12/14/16 14:46	71-43-2	
Bromobenzene	<b>&lt;75.6</b>	ug/kg	75.6	22.7	1	12/13/16 12:15	12/14/16 14:46	108-86-1	
Bromochloromethane	<b>&lt;88.0</b>	ug/kg	88.0	26.4	1	12/13/16 12:15	12/14/16 14:46	74-97-5	
Bromodichloromethane	<b>&lt;82.6</b>	ug/kg	82.6	24.8	1	12/13/16 12:15	12/14/16 14:46	75-27-4	
Bromoform	<b>&lt;254</b>	ug/kg	254	76.4	1	12/13/16 12:15	12/14/16 14:46	75-25-2	
Bromomethane	<b>&lt;299</b>	ug/kg	299	89.9	1	12/13/16 12:15	12/14/16 14:46	74-83-9	
2-Butanone (MEK)	<b>&lt;390</b>	ug/kg	390	117	1	12/13/16 12:15	12/14/16 14:46	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Sample: **S21\_26-31D** Lab ID: **10372645016** Collected: 12/08/16 10:30 Received: 12/08/16 18:35 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
n-Butylbenzene	<71.4	ug/kg	71.4	21.4	1	12/13/16 12:15	12/14/16 14:46	104-51-8	
sec-Butylbenzene	<69.7	ug/kg	69.7	20.9	1	12/13/16 12:15	12/14/16 14:46	135-98-8	
tert-Butylbenzene	<93.3	ug/kg	93.3	28.0	1	12/13/16 12:15	12/14/16 14:46	98-06-6	
Carbon tetrachloride	<92.7	ug/kg	92.7	27.8	1	12/13/16 12:15	12/14/16 14:46	56-23-5	
Chlorobenzene	<51.4	ug/kg	51.4	15.4	1	12/13/16 12:15	12/14/16 14:46	108-90-7	
Chloroethane	<466	ug/kg	466	140	1	12/13/16 12:15	12/14/16 14:46	75-00-3	
Chloroform	<143	ug/kg	143	43.1	1	12/13/16 12:15	12/14/16 14:46	67-66-3	
Chloromethane	<143	ug/kg	143	42.9	1	12/13/16 12:15	12/14/16 14:46	74-87-3	
2-Chlorotoluene	<81.5	ug/kg	81.5	24.5	1	12/13/16 12:15	12/14/16 14:46	95-49-8	
4-Chlorotoluene	<77.3	ug/kg	77.3	23.2	1	12/13/16 12:15	12/14/16 14:46	106-43-4	
1,2-Dibromo-3-chloropropane	<173	ug/kg	173	173	1	12/13/16 12:15	12/14/16 14:46	96-12-8	
Dibromochloromethane	<253	ug/kg	253	76.0	1	12/13/16 12:15	12/14/16 14:46	124-48-1	
1,2-Dibromoethane (EDB)	<33.3	ug/kg	33.3	33.3	1	12/13/16 12:15	12/14/16 14:46	106-93-4	
Dibromomethane	<115	ug/kg	115	34.6	1	12/13/16 12:15	12/14/16 14:46	74-95-3	
1,2-Dichlorobenzene	<17.1	ug/kg	17.1	17.1	1	12/13/16 12:15	12/14/16 14:46	95-50-1	
1,3-Dichlorobenzene	<26.1	ug/kg	26.1	26.1	1	12/13/16 12:15	12/14/16 14:46	541-73-1	
1,4-Dichlorobenzene	<85.6	ug/kg	85.6	25.7	1	12/13/16 12:15	12/14/16 14:46	106-46-7	
Dichlorodifluoromethane	<90.3	ug/kg	90.3	27.1	1	12/13/16 12:15	12/14/16 14:46	75-71-8	
1,1-Dichloroethane	<34.4	ug/kg	34.4	34.4	1	12/13/16 12:15	12/14/16 14:46	75-34-3	
1,2-Dichloroethane	<28.0	ug/kg	28.0	28.0	1	12/13/16 12:15	12/14/16 14:46	107-06-2	
1,1-Dichloroethene	<22.5	ug/kg	22.5	22.5	1	12/13/16 12:15	12/14/16 14:46	75-35-4	
cis-1,2-Dichloroethene	<110	ug/kg	110	33.0	1	12/13/16 12:15	12/14/16 14:46	156-59-2	
trans-1,2-Dichloroethene	<142	ug/kg	142	42.7	1	12/13/16 12:15	12/14/16 14:46	156-60-5	
Dichlorofluoromethane	<809	ug/kg	809	243	1	12/13/16 12:15	12/14/16 14:46	75-43-4	
1,2-Dichloropropane	<30.7	ug/kg	30.7	30.7	1	12/13/16 12:15	12/14/16 14:46	78-87-5	
1,3-Dichloropropane	<106	ug/kg	106	31.7	1	12/13/16 12:15	12/14/16 14:46	142-28-9	
2,2-Dichloropropane	<93.9	ug/kg	93.9	28.2	1	12/13/16 12:15	12/14/16 14:46	594-20-7	
1,1-Dichloropropene	<26.8	ug/kg	26.8	26.8	1	12/13/16 12:15	12/14/16 14:46	563-58-6	
cis-1,3-Dichloropropene	<135	ug/kg	135	40.4	1	12/13/16 12:15	12/14/16 14:46	10061-01-5	
trans-1,3-Dichloropropene	<100	ug/kg	100	30.1	1	12/13/16 12:15	12/14/16 14:46	10061-02-6	
Diethyl ether (Ethyl ether)	<122	ug/kg	122	36.5	1	12/13/16 12:15	12/14/16 14:46	60-29-7	
Ethylbenzene	<93.9	ug/kg	93.9	28.2	1	12/13/16 12:15	12/14/16 14:46	100-41-4	
Hexachloro-1,3-butadiene	<277	ug/kg	277	83.3	1	12/13/16 12:15	12/14/16 14:46	87-68-3	
Isopropylbenzene (Cumene)	<105	ug/kg	105	31.6	1	12/13/16 12:15	12/14/16 14:46	98-82-8	
p-Isopropyltoluene	<49.0	ug/kg	49.0	14.7	1	12/13/16 12:15	12/14/16 14:46	99-87-6	
Methylene Chloride	<547	ug/kg	547	164	1	12/13/16 12:15	12/14/16 14:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	<195	ug/kg	195	58.7	1	12/13/16 12:15	12/14/16 14:46	108-10-1	
Methyl-tert-butyl ether	<55.3	ug/kg	55.3	16.6	1	12/13/16 12:15	12/14/16 14:46	1634-04-4	
Naphthalene	<71.4	ug/kg	71.4	21.4	1	12/13/16 12:15	12/14/16 14:46	91-20-3	
n-Propylbenzene	<88.0	ug/kg	88.0	26.4	1	12/13/16 12:15	12/14/16 14:46	103-65-1	
Styrene	<76.7	ug/kg	76.7	23.0	1	12/13/16 12:15	12/14/16 14:46	100-42-5	
1,1,1,2-Tetrachloroethane	<35.1	ug/kg	35.1	35.1	1	12/13/16 12:15	12/14/16 14:46	630-20-6	
1,1,2,2-Tetrachloroethane	<19.7	ug/kg	19.7	19.7	1	12/13/16 12:15	12/14/16 14:46	79-34-5	
Tetrachloroethene	<113	ug/kg	113	33.9	1	12/13/16 12:15	12/14/16 14:46	127-18-4	
Tetrahydrofuran	<1460	ug/kg	1460	440	1	12/13/16 12:15	12/14/16 14:46	109-99-9	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

**Sample: S21\_26-31D**      **Lab ID: 10372645016**      Collected: 12/08/16 10:30      Received: 12/08/16 18:35      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Toluene	<93.9	ug/kg	93.9	28.2	1	12/13/16 12:15	12/14/16 14:46	108-88-3	
1,2,3-Trichlorobenzene	<25.5	ug/kg	25.5	25.5	1	12/13/16 12:15	12/14/16 14:46	87-61-6	
1,2,4-Trichlorobenzene	<27.3	ug/kg	27.3	27.3	1	12/13/16 12:15	12/14/16 14:46	120-82-1	
1,1,1-Trichloroethane	<37.0	ug/kg	37.0	37.0	1	12/13/16 12:15	12/14/16 14:46	71-55-6	
1,1,2-Trichloroethane	<19.1	ug/kg	19.1	19.1	1	12/13/16 12:15	12/14/16 14:46	79-00-5	
Trichloroethene	<84.4	ug/kg	84.4	25.3	1	12/13/16 12:15	12/14/16 14:46	79-01-6	
Trichlorofluoromethane	<296	ug/kg	296	89.0	1	12/13/16 12:15	12/14/16 14:46	75-69-4	
1,2,3-Trichloropropane	<91.8	ug/kg	91.8	91.8	1	12/13/16 12:15	12/14/16 14:46	96-18-4	
1,1,2-Trichlorotrifluoroethane	<213	ug/kg	213	63.8	1	12/13/16 12:15	12/14/16 14:46	76-13-1	
1,2,4-Trimethylbenzene	<19.5	ug/kg	19.5	19.5	1	12/13/16 12:15	12/14/16 14:46	95-63-6	
1,3,5-Trimethylbenzene	<67.9	ug/kg	67.9	20.4	1	12/13/16 12:15	12/14/16 14:46	108-67-8	
Vinyl chloride	<37.9	ug/kg	37.9	11.4	1	12/13/16 12:15	12/14/16 14:46	75-01-4	
Xylene (Total)	<236	ug/kg	236	70.9	1	12/13/16 12:15	12/14/16 14:46	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%	75-129		1	12/13/16 12:15	12/14/16 14:46	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/13/16 12:15	12/14/16 14:46	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/13/16 12:15	12/14/16 14:46	460-00-4	

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**QUALITY CONTROL DATA**

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

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QC Batch: 451149 Analysis Method: EPA 7471B  
 QC Batch Method: EPA 7471B Analysis Description: 7471B Mercury Solids  
 Associated Lab Samples: 10372645001, 10372645002, 10372645003, 10372645004, 10372645005, 10372645006, 10372645007,  
 10372645008, 10372645009, 10372645010, 10372645011, 10372645012, 10372645013, 10372645014,  
 10372645015, 10372645016

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METHOD BLANK: 2470232 Matrix: Solid  
 Associated Lab Samples: 10372645001, 10372645002, 10372645003, 10372645004, 10372645005, 10372645006, 10372645007,  
 10372645008, 10372645009, 10372645010, 10372645011, 10372645012, 10372645013, 10372645014,  
 10372645015, 10372645016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.017	0.017	12/21/16 16:09	

LABORATORY CONTROL SAMPLE: 2470233

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.43	0.39	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2470234 2470235

Parameter	Units	10372645001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.69	.82	.76	1.6	1.5	115	102	75-125	12	20	

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**QUALITY CONTROL DATA**

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

QC Batch: 451147 Analysis Method: EPA 6010C  
 QC Batch Method: EPA 3050 Analysis Description: 6010C Solids  
 Associated Lab Samples: 10372645001, 10372645002, 10372645003, 10372645004, 10372645005, 10372645006, 10372645007, 10372645008, 10372645009, 10372645010, 10372645011, 10372645012, 10372645013, 10372645014, 10372645015, 10372645016

METHOD BLANK: 2470223 Matrix: Solid  
 Associated Lab Samples: 10372645001, 10372645002, 10372645003, 10372645004, 10372645005, 10372645006, 10372645007, 10372645008, 10372645009, 10372645010, 10372645011, 10372645012, 10372645013, 10372645014, 10372645015, 10372645016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<0.57	0.57	12/21/16 09:48	
Barium	mg/kg	<0.046	0.046	12/21/16 09:48	
Cadmium	mg/kg	<0.027	0.027	12/21/16 09:48	
Chromium	mg/kg	<0.30	0.30	12/21/16 09:48	
Lead	mg/kg	<0.29	0.29	12/21/16 09:48	
Selenium	mg/kg	<0.83	0.83	12/21/16 09:48	
Silver	mg/kg	<0.23	0.23	12/21/16 09:48	

LABORATORY CONTROL SAMPLE: 2470224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	44.6	44.9	101	80-120	
Barium	mg/kg	44.6	46.6	104	80-120	
Cadmium	mg/kg	44.6	43.8	98	80-120	
Chromium	mg/kg	44.6	47.0	105	80-120	
Lead	mg/kg	44.6	43.9	98	80-120	
Selenium	mg/kg	44.6	41.0	92	80-120	
Silver	mg/kg	22.3	21.3	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2470225 2470226

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		10372645001 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Arsenic	mg/kg	3.7	68.7	68.2	60.6	59.9	83	82	75-125	1	20	
Barium	mg/kg	68.5	68.7	68.2	133	140	94	105	75-125	5	20	
Cadmium	mg/kg	0.41	68.7	68.2	57.4	56.5	83	82	75-125	1	20	
Chromium	mg/kg	18.3	68.7	68.2	79.6	78.1	89	88	75-125	2	20	
Lead	mg/kg	46.2	68.7	68.2	108	101	90	80	75-125	7	20	
Selenium	mg/kg	<1.5	68.7	68.2	52.8	52.2	77	77	75-125	1	20	
Silver	mg/kg	0.72	34.4	34	29.3	28.9	83	83	75-125	1	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

QC Batch: 451007

Analysis Method: EPA 8260B

QC Batch Method: EPA 5035/5030B

Analysis Description: 8260B MSV 5030 Med Level

Associated Lab Samples: 10372645001, 10372645002

METHOD BLANK: 2469610

Matrix: Solid

Associated Lab Samples: 10372645001, 10372645002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/09/16 18:33	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/09/16 18:33	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/09/16 18:33	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/09/16 18:33	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/09/16 18:33	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/09/16 18:33	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/09/16 18:33	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/09/16 18:33	
1,2,3-Trichlorobenzene	ug/kg	<14.4	14.4	12/09/16 18:33	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/09/16 18:33	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/09/16 18:33	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/09/16 18:33	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/09/16 18:33	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/09/16 18:33	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/09/16 18:33	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/09/16 18:33	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/09/16 18:33	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/09/16 18:33	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/09/16 18:33	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/09/16 18:33	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/09/16 18:33	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/09/16 18:33	
2-Butanone (MEK)	ug/kg	<220	220	12/09/16 18:33	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/09/16 18:33	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/09/16 18:33	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/09/16 18:33	
Acetone	ug/kg	<1090	1090	12/09/16 18:33	
Allyl chloride	ug/kg	<143	143	12/09/16 18:33	
Benzene	ug/kg	<14.4	14.4	12/09/16 18:33	
Bromobenzene	ug/kg	<42.6	42.6	12/09/16 18:33	
Bromochloromethane	ug/kg	<49.6	49.6	12/09/16 18:33	
Bromodichloromethane	ug/kg	<46.6	46.6	12/09/16 18:33	
Bromoform	ug/kg	<144	144	12/09/16 18:33	
Bromomethane	ug/kg	<169	169	12/09/16 18:33	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/09/16 18:33	
Chlorobenzene	ug/kg	<29.0	29.0	12/09/16 18:33	
Chloroethane	ug/kg	<263	263	12/09/16 18:33	
Chloroform	ug/kg	<80.9	80.9	12/09/16 18:33	
Chloromethane	ug/kg	<80.6	80.6	12/09/16 18:33	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/09/16 18:33	
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/09/16 18:33	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

METHOD BLANK: 2469610

Matrix: Solid

Associated Lab Samples: 10372645001, 10372645002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<143	143	12/09/16 18:33	
Dibromomethane	ug/kg	<64.9	64.9	12/09/16 18:33	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/09/16 18:33	
Dichlorofluoromethane	ug/kg	<456	456	12/09/16 18:33	
Diethyl ether (Ethyl ether)	ug/kg	<68.6	68.6	12/09/16 18:33	
Ethylbenzene	ug/kg	<52.9	52.9	12/09/16 18:33	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/09/16 18:33	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/09/16 18:33	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/09/16 18:33	
Methylene Chloride	ug/kg	<308	308	12/09/16 18:33	
n-Butylbenzene	ug/kg	<40.3	40.3	12/09/16 18:33	
n-Propylbenzene	ug/kg	<49.6	49.6	12/09/16 18:33	
Naphthalene	ug/kg	<40.3	40.3	12/09/16 18:33	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/09/16 18:33	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/09/16 18:33	
Styrene	ug/kg	<43.3	43.3	12/09/16 18:33	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/09/16 18:33	
Tetrachloroethene	ug/kg	<63.6	63.6	12/09/16 18:33	
Tetrahydrofuran	ug/kg	<826	826	12/09/16 18:33	
Toluene	ug/kg	<52.9	52.9	12/09/16 18:33	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/09/16 18:33	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/09/16 18:33	
Trichloroethene	ug/kg	<47.6	47.6	12/09/16 18:33	
Trichlorofluoromethane	ug/kg	<167	167	12/09/16 18:33	
Vinyl chloride	ug/kg	<21.4	21.4	12/09/16 18:33	
Xylene (Total)	ug/kg	<133	133	12/09/16 18:33	
1,2-Dichloroethane-d4 (S)	%	94	75-129	12/09/16 18:33	
4-Bromofluorobenzene (S)	%	96	75-125	12/09/16 18:33	
Toluene-d8 (S)	%	98	75-125	12/09/16 18:33	

LABORATORY CONTROL SAMPLE: 2469611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	938	94	71-127	
1,1,1-Trichloroethane	ug/kg	1000	949	95	64-132	
1,1,2,2-Tetrachloroethane	ug/kg	1000	887	89	50-138	
1,1,2-Trichloroethane	ug/kg	1000	881	88	69-126	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	907	91	53-144	
1,1-Dichloroethane	ug/kg	1000	911	91	61-134	
1,1-Dichloroethene	ug/kg	1000	918	92	57-135	
1,1-Dichloropropene	ug/kg	1000	991	99	59-133	
1,2,3-Trichlorobenzene	ug/kg	1000	897	90	32-150	
1,2,3-Trichloropropane	ug/kg	1000	889	89	62-130	
1,2,4-Trichlorobenzene	ug/kg	1000	966	97	38-138	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

LABORATORY CONTROL SAMPLE: 2469611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	942	94	70-127	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2000	80	40-141	
1,2-Dibromoethane (EDB)	ug/kg	1000	873	87	69-130	
1,2-Dichlorobenzene	ug/kg	1000	944	94	72-125	
1,2-Dichloroethane	ug/kg	1000	875	88	62-125	
1,2-Dichloropropane	ug/kg	1000	965	97	67-126	
1,3,5-Trimethylbenzene	ug/kg	1000	937	94	71-129	
1,3-Dichlorobenzene	ug/kg	1000	942	94	72-126	
1,3-Dichloropropane	ug/kg	1000	939	94	70-125	
1,4-Dichlorobenzene	ug/kg	1000	930	93	70-126	
2,2-Dichloropropane	ug/kg	1000	927	93	48-134	
2-Butanone (MEK)	ug/kg	5000	3990	80	38-149	
2-Chlorotoluene	ug/kg	1000	896	90	71-129	
4-Chlorotoluene	ug/kg	1000	971	97	72-128	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4310	86	52-145	
Acetone	ug/kg	5000	4900	98	65-142	
Allyl chloride	ug/kg	1000	886	89	54-125	
Benzene	ug/kg	1000	950	95	64-125	
Bromobenzene	ug/kg	1000	909	91	70-125	
Bromochloromethane	ug/kg	1000	951	95	68-125	
Bromodichloromethane	ug/kg	1000	975	98	67-125	
Bromoform	ug/kg	1000	801	80	56-127	
Bromomethane	ug/kg	1000	940	94	34-137	
Carbon tetrachloride	ug/kg	1000	924	92	58-138	
Chlorobenzene	ug/kg	1000	904	90	72-125	
Chloroethane	ug/kg	1000	805	80	39-148	
Chloroform	ug/kg	1000	854	85	67-125	
Chloromethane	ug/kg	1000	800	80	54-125	
cis-1,2-Dichloroethene	ug/kg	1000	911	91	67-125	
cis-1,3-Dichloropropene	ug/kg	1000	943	94	62-127	
Dibromochloromethane	ug/kg	1000	870	87	67-125	
Dibromomethane	ug/kg	1000	957	96	63-129	
Dichlorodifluoromethane	ug/kg	1000	594	59	34-139	
Dichlorofluoromethane	ug/kg	1000	744	74	36-144	
Diethyl ether (Ethyl ether)	ug/kg	1000	778	78	51-125	
Ethylbenzene	ug/kg	1000	936	94	70-129	
Hexachloro-1,3-butadiene	ug/kg	1000	1010	101	48-126	
Isopropylbenzene (Cumene)	ug/kg	1000	940	94	75-127	
Methyl-tert-butyl ether	ug/kg	1000	968	97	61-125	
Methylene Chloride	ug/kg	1000	965	97	60-126	
n-Butylbenzene	ug/kg	1000	985	98	67-125	
n-Propylbenzene	ug/kg	1000	963	96	72-133	
Naphthalene	ug/kg	1000	815	81	35-147	
p-Isopropyltoluene	ug/kg	1000	945	95	69-127	
sec-Butylbenzene	ug/kg	1000	994	99	70-127	
Styrene	ug/kg	1000	922	92	73-125	
tert-Butylbenzene	ug/kg	1000	1000	100	71-130	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

LABORATORY CONTROL SAMPLE: 2469611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	1050	105	66-135	
Tetrahydrofuran	ug/kg	10000	9140	91	66-145	
Toluene	ug/kg	1000	972	97	69-125	
trans-1,2-Dichloroethene	ug/kg	1000	981	98	55-135	
trans-1,3-Dichloropropene	ug/kg	1000	924	92	67-125	
Trichloroethene	ug/kg	1000	1030	103	62-141	
Trichlorofluoromethane	ug/kg	1000	825	83	38-150	
Vinyl chloride	ug/kg	1000	937	94	57-131	
Xylene (Total)	ug/kg	3000	2830	94	73-128	
1,2-Dichloroethane-d4 (S)	%			93	75-129	
4-Bromofluorobenzene (S)	%			97	75-125	
Toluene-d8 (S)	%			97	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2469612 2469613

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10372636019 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	ug/kg		1520	2110	1610	2290	106	108	59-135	35	30 R1
1,1,1-Trichloroethane	ug/kg		1520	2110	1580	2130	104	101	51-137	30	30
1,1,2,2-Tetrachloroethane	ug/kg		1520	2110	1610	2140	106	101	40-149	28	30
1,1,2-Trichloroethane	ug/kg		1520	2110	1500	2110	99	100	54-144	34	30 R1
1,1,2-Trichlorotrifluoroethane	ug/kg		1520	2110	1440	1830	95	87	41-150	23	30
1,1-Dichloroethane	ug/kg		1520	2110	1570	2050	103	97	53-131	27	30
1,1-Dichloroethene	ug/kg		1520	2110	1500	1890	99	90	41-133	23	30
1,1-Dichloropropene	ug/kg		1520	2110	1630	2350	107	111	50-139	36	30 R1
1,2,3-Trichlorobenzene	ug/kg		1520	2110	1660	2160	107	101	52-150	26	30
1,2,3-Trichloropropane	ug/kg		1520	2110	1590	2170	104	103	61-137	31	30 R1
1,2,4-Trichlorobenzene	ug/kg		1520	2110	1710	2130	111	100	52-142	22	30
1,2,4-Trimethylbenzene	ug/kg	23.7	1520	2110	1550	2110	100	99	56-142	30	30
1,2-Dibromo-3-chloropropane	ug/kg		3800	5270	4080	4850	108	92	47-143	17	30
1,2-Dibromoethane (EDB)	ug/kg		1520	2110	1530	2260	101	107	57-136	39	30 R1
1,2-Dichlorobenzene	ug/kg		1520	2110	1620	2210	107	105	59-136	31	30 R1
1,2-Dichloroethane	ug/kg		1520	2110	1420	1970	93	93	52-133	32	30 R1
1,2-Dichloropropane	ug/kg		1520	2110	1650	2300	108	109	62-129	33	30 R1
1,3,5-Trimethylbenzene	ug/kg	<15.1	1520	2110	1600	2120	105	100	54-143	28	30
1,3-Dichlorobenzene	ug/kg		1520	2110	1600	2150	105	102	60-137	29	30
1,3-Dichloropropane	ug/kg		1520	2110	1560	2330	102	110	57-138	40	30 R1
1,4-Dichlorobenzene	ug/kg		1520	2110	1520	2140	100	102	51-132	34	30 R1
2,2-Dichloropropane	ug/kg		1520	2110	1510	2120	100	100	50-134	33	30 R1
2-Butanone (MEK)	ug/kg		7600	10600	7030	10300	92	98	46-125	38	30 R1
2-Chlorotoluene	ug/kg		1520	2110	1500	2060	98	98	60-141	32	30 R1
4-Chlorotoluene	ug/kg		1520	2110	1580	2170	104	103	65-135	32	30 R1
4-Methyl-2-pentanone (MIBK)	ug/kg		7600	10600	7580	10400	100	99	47-146	32	30 R1
Acetone	ug/kg		7600	10600	9250	11300	122	107	45-148	20	30

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Parameter	Units	2469612		2469613		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Allyl chloride	ug/kg		1520	2110	1460	1860	96	88	50-135	24	30		
Benzene	ug/kg	11.0J	1520	2110	1650	2250	108	106	41-134	31	30	R1	
Bromobenzene	ug/kg		1520	2110	1530	2100	101	100	59-134	32	30	R1	
Bromochloromethane	ug/kg		1520	2110	1580	2230	104	106	56-127	34	30	R1	
Bromodichloromethane	ug/kg		1520	2110	1560	1960	103	93	55-136	23	30		
Bromoform	ug/kg		1520	2110	1430	2060	94	97	51-139	36	30	R1	
Bromomethane	ug/kg		1520	2110	1330	1770	88	84	35-148	28	30		
Carbon tetrachloride	ug/kg		1520	2110	1570	2140	103	101	50-140	31	30	R1	
Chlorobenzene	ug/kg		1520	2110	1530	2190	100	104	59-133	36	30	R1	
Chloroethane	ug/kg		1520	2110	1330	1620	87	77	30-150	20	30		
Chloroform	ug/kg		1520	2110	1460	2000	96	94	58-128	31	30	R1	
Chloromethane	ug/kg		1520	2110	1200	1590	79	75	38-125	27	30		
cis-1,2-Dichloroethene	ug/kg		1520	2110	1520	2240	100	106	59-125	38	30	R1	
cis-1,3-Dichloropropene	ug/kg		1520	2110	1410	1910	93	91	57-133	30	30		
Dibromochloromethane	ug/kg		1520	2110	1540	2170	101	103	54-141	34	30	R1	
Dibromomethane	ug/kg		1520	2110	1510	2110	100	100	53-134	33	30	R1	
Dichlorodifluoromethane	ug/kg		1520	2110	785	1070	52	51	30-125	31	30	R1	
Dichlorofluoromethane	ug/kg		1520	2110	1230	1620	81	77	30-150	27	30		
Diethyl ether (Ethyl ether)	ug/kg		1520	2110	1270	1680	84	80	46-137	28	30		
Ethylbenzene	ug/kg	<20.8	1520	2110	1610	2240	105	105	56-141	32	30	R1	
Hexachloro-1,3-butadiene	ug/kg		1520	2110	1730	2180	114	103	45-150	23	30		
Isopropylbenzene (Cumene)	ug/kg		1520	2110	1540	2240	102	106	48-141	37	30	R1	
Methyl-tert-butyl ether	ug/kg	<12.3	1520	2110	1720	2180	113	103	53-133	24	30		
Methylene Chloride	ug/kg		1520	2110	1580	2060	103	97	42-135	27	30		
n-Butylbenzene	ug/kg		1520	2110	1620	2220	107	105	52-140	31	30	R1	
n-Propylbenzene	ug/kg		1520	2110	1560	2140	102	101	57-142	31	30	R1	
Naphthalene	ug/kg	25.8J	1520	2110	1590	2150	103	100	41-150	30	30		
p-Isopropyltoluene	ug/kg		1520	2110	1530	2140	101	102	54-139	33	30	R1	
sec-Butylbenzene	ug/kg		1520	2110	1640	2250	108	106	30-150	31	30	R1	
Styrene	ug/kg		1520	2110	1510	2220	99	105	53-137	38	30	R1	
tert-Butylbenzene	ug/kg		1520	2110	1590	2200	104	104	59-138	32	30	R1	
Tetrachloroethene	ug/kg		1520	2110	1680	2350	111	111	53-138	33	30	R1	
Tetrahydrofuran	ug/kg		15200	21100	16700	24300	110	115	50-145	37	30	R1	
Toluene	ug/kg	28.7J	1520	2110	1580	2300	102	108	55-134	37	30	R1	
trans-1,2-Dichloroethene	ug/kg		1520	2110	1710	2110	112	100	44-135	21	30		
trans-1,3-Dichloropropene	ug/kg		1520	2110	1640	2240	108	106	59-139	31	30	R1	
Trichloroethene	ug/kg		1520	2110	1680	2200	110	104	52-143	27	30		
Trichlorofluoromethane	ug/kg		1520	2110	1370	1810	90	86	30-150	28	30		
Vinyl chloride	ug/kg		1520	2110	1370	1770	90	84	36-127	25	30		
Xylene (Total)	ug/kg	<52.4	4560	6330	4780	6660	105	105	56-137	33	30	RS	
1,2-Dichloroethane-d4 (S)	%						94	94	75-129				
4-Bromofluorobenzene (S)	%						96	97	75-125				
Toluene-d8 (S)	%						94	101	75-125				

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

QC Batch: 451488 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10372645003, 10372645004, 10372645005, 10372645006, 10372645007

METHOD BLANK: 2472076 Matrix: Solid  
Associated Lab Samples: 10372645003, 10372645004, 10372645005, 10372645006, 10372645007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/13/16 18:01	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/13/16 18:01	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/13/16 18:01	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/13/16 18:01	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/13/16 18:01	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/13/16 18:01	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/13/16 18:01	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/13/16 18:01	
1,2,3-Trichlorobenzene	ug/kg	15.5	14.4	12/13/16 18:01	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/13/16 18:01	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/13/16 18:01	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/13/16 18:01	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/13/16 18:01	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/13/16 18:01	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/13/16 18:01	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/13/16 18:01	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/13/16 18:01	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/13/16 18:01	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/13/16 18:01	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/13/16 18:01	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/13/16 18:01	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/13/16 18:01	
2-Butanone (MEK)	ug/kg	<220	220	12/13/16 18:01	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/13/16 18:01	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/13/16 18:01	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/13/16 18:01	
Acetone	ug/kg	<1090	1090	12/13/16 18:01	
Allyl chloride	ug/kg	<143	143	12/13/16 18:01	
Benzene	ug/kg	<14.4	14.4	12/13/16 18:01	
Bromobenzene	ug/kg	<42.6	42.6	12/13/16 18:01	
Bromochloromethane	ug/kg	<49.6	49.6	12/13/16 18:01	
Bromodichloromethane	ug/kg	<46.6	46.6	12/13/16 18:01	
Bromoform	ug/kg	<144	144	12/13/16 18:01	
Bromomethane	ug/kg	<169	169	12/13/16 18:01	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/13/16 18:01	
Chlorobenzene	ug/kg	<29.0	29.0	12/13/16 18:01	
Chloroethane	ug/kg	<263	263	12/13/16 18:01	
Chloroform	ug/kg	<80.9	80.9	12/13/16 18:01	
Chloromethane	ug/kg	<80.6	80.6	12/13/16 18:01	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/13/16 18:01	
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/13/16 18:01	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

METHOD BLANK: 2472076

Matrix: Solid

Associated Lab Samples: 10372645003, 10372645004, 10372645005, 10372645006, 10372645007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<143	143	12/13/16 18:01	
Dibromomethane	ug/kg	<64.9	64.9	12/13/16 18:01	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/13/16 18:01	
Dichlorofluoromethane	ug/kg	<456	456	12/13/16 18:01	
Diethyl ether (Ethyl ether)	ug/kg	<68.6	68.6	12/13/16 18:01	
Ethylbenzene	ug/kg	<52.9	52.9	12/13/16 18:01	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/13/16 18:01	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/13/16 18:01	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/13/16 18:01	
Methylene Chloride	ug/kg	<308	308	12/13/16 18:01	
n-Butylbenzene	ug/kg	<40.3	40.3	12/13/16 18:01	
n-Propylbenzene	ug/kg	<49.6	49.6	12/13/16 18:01	
Naphthalene	ug/kg	<40.3	40.3	12/13/16 18:01	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/13/16 18:01	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/13/16 18:01	
Styrene	ug/kg	<43.3	43.3	12/13/16 18:01	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/13/16 18:01	
Tetrachloroethene	ug/kg	<63.6	63.6	12/13/16 18:01	
Tetrahydrofuran	ug/kg	<826	826	12/13/16 18:01	
Toluene	ug/kg	<52.9	52.9	12/13/16 18:01	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/13/16 18:01	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/13/16 18:01	
Trichloroethene	ug/kg	<47.6	47.6	12/13/16 18:01	
Trichlorofluoromethane	ug/kg	<167	167	12/13/16 18:01	
Vinyl chloride	ug/kg	<21.4	21.4	12/13/16 18:01	
Xylene (Total)	ug/kg	<133	133	12/13/16 18:01	
1,2-Dichloroethane-d4 (S)	%	87	75-129	12/13/16 18:01	
4-Bromofluorobenzene (S)	%	99	75-125	12/13/16 18:01	
Toluene-d8 (S)	%	100	75-125	12/13/16 18:01	

LABORATORY CONTROL SAMPLE & LCSD: 2472077

2472078

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	784	979	78	98	71-127	22	20	R1
1,1,1-Trichloroethane	ug/kg	1000	792	986	79	99	64-132	22	20	R1
1,1,2,2-Tetrachloroethane	ug/kg	1000	819	919	82	92	50-138	12	20	
1,1,2-Trichloroethane	ug/kg	1000	813	982	81	98	69-126	19	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	824	1010	82	101	53-144	20	20	
1,1-Dichloroethane	ug/kg	1000	904	1060	90	106	61-134	16	20	
1,1-Dichloroethene	ug/kg	1000	827	994	83	99	57-135	18	20	
1,1-Dichloropropene	ug/kg	1000	909	1120	91	112	59-133	20	20	
1,2,3-Trichlorobenzene	ug/kg	1000	727	936	73	94	32-150	25	20	R1
1,2,3-Trichloropropane	ug/kg	1000	758	864	76	86	62-130	13	20	
1,2,4-Trichlorobenzene	ug/kg	1000	759	920	76	92	38-138	19	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

LABORATORY CONTROL SAMPLE & LCSD: 2472077

2472078

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	792	951	79	95	70-127	18	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1600	1850	64	74	40-141	15	20	
1,2-Dibromoethane (EDB)	ug/kg	1000	783	914	78	91	69-130	15	20	
1,2-Dichlorobenzene	ug/kg	1000	822	979	82	98	72-125	17	20	
1,2-Dichloroethane	ug/kg	1000	715	877	71	88	62-125	20	20	
1,2-Dichloropropane	ug/kg	1000	921	1120	92	112	67-126	19	20	
1,3,5-Trimethylbenzene	ug/kg	1000	808	981	81	98	71-129	19	20	
1,3-Dichlorobenzene	ug/kg	1000	824	971	82	97	72-126	16	20	
1,3-Dichloropropane	ug/kg	1000	818	1000	82	100	70-125	20	20	
1,4-Dichlorobenzene	ug/kg	1000	789	955	79	96	70-126	19	20	
2,2-Dichloropropane	ug/kg	1000	801	991	80	99	48-134	21	20	R1
2-Butanone (MEK)	ug/kg	5000	3670	4030	73	81	38-149	10	20	
2-Chlorotoluene	ug/kg	1000	754	937	75	94	71-129	22	20	R1
4-Chlorotoluene	ug/kg	1000	819	978	82	98	72-128	18	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	3740	4380	75	88	52-145	16	20	
Acetone	ug/kg	5000	4800	5790	96	116	65-142	19	20	
Allyl chloride	ug/kg	1000	788	986	79	99	54-125	22	20	R1
Benzene	ug/kg	1000	896	1080	90	108	64-125	19	20	
Bromobenzene	ug/kg	1000	774	962	77	96	70-125	22	20	R1
Bromochloromethane	ug/kg	1000	899	1050	90	105	68-125	15	20	
Bromodichloromethane	ug/kg	1000	795	937	79	94	67-125	16	20	
Bromoform	ug/kg	1000	615	748	61	75	56-127	20	20	
Bromomethane	ug/kg	1000	686	755	69	76	34-137	10	20	
Carbon tetrachloride	ug/kg	1000	782	927	78	93	58-138	17	20	
Chlorobenzene	ug/kg	1000	824	979	82	98	72-125	17	20	
Chloroethane	ug/kg	1000	765	698	77	70	39-148	9	20	
Chloroform	ug/kg	1000	790	945	79	95	67-125	18	20	
Chloromethane	ug/kg	1000	629	698	63	70	54-125	10	20	
cis-1,2-Dichloroethene	ug/kg	1000	875	1070	88	107	67-125	20	20	
cis-1,3-Dichloropropene	ug/kg	1000	820	1000	82	100	62-127	20	20	
Dibromochloromethane	ug/kg	1000	727	893	73	89	67-125	20	20	
Dibromomethane	ug/kg	1000	802	946	80	95	63-129	16	20	
Dichlorodifluoromethane	ug/kg	1000	461	497	46	50	34-139	7	20	
Dichlorofluoromethane	ug/kg	1000	662	677	66	68	36-144	2	20	
Diethyl ether (Ethyl ether)	ug/kg	1000	706	846	71	85	51-125	18	20	
Ethylbenzene	ug/kg	1000	823	997	82	100	70-129	19	20	
Hexachloro-1,3-butadiene	ug/kg	1000	813	1010	81	101	48-126	21	20	R1
Isopropylbenzene (Cumene)	ug/kg	1000	810	1010	81	101	75-127	22	20	R1
Methyl-tert-butyl ether	ug/kg	1000	809	954	81	95	61-125	16	20	
Methylene Chloride	ug/kg	1000	808	1010	81	101	60-126	22	20	R1
n-Butylbenzene	ug/kg	1000	801	995	80	99	67-125	22	20	R1
n-Propylbenzene	ug/kg	1000	812	991	81	99	72-133	20	20	
Naphthalene	ug/kg	1000	734	846	73	85	35-147	14	20	
p-Isopropyltoluene	ug/kg	1000	786	956	79	96	69-127	20	20	
sec-Butylbenzene	ug/kg	1000	809	1030	81	103	70-127	24	20	R1
Styrene	ug/kg	1000	796	987	80	99	73-125	21	20	R1
tert-Butylbenzene	ug/kg	1000	819	980	82	98	71-130	18	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

LABORATORY CONTROL SAMPLE & LCSD: 2472077		2472078								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/kg	1000	843	1070	84	107	66-135	23	20	R1
Tetrahydrofuran	ug/kg	10000	9510	11400	95	114	66-145	18	20	
Toluene	ug/kg	1000	882	1070	88	107	69-125	19	20	
trans-1,2-Dichloroethene	ug/kg	1000	873	1090	87	109	55-135	22	20	R1
trans-1,3-Dichloropropene	ug/kg	1000	782	984	78	98	67-125	23	20	R1
Trichloroethene	ug/kg	1000	900	1070	90	107	62-141	17	20	
Trichlorofluoromethane	ug/kg	1000	887	831	89	83	38-150	7	20	
Vinyl chloride	ug/kg	1000	776	834	78	83	57-131	7	20	
Xylene (Total)	ug/kg	3000	2470	3090	82	103	73-128	22	20	RS
1,2-Dichloroethane-d4 (S)	%				86	85	75-129			
4-Bromofluorobenzene (S)	%				98	99	75-125			
Toluene-d8 (S)	%				99	102	75-125			

MATRIX SPIKE SAMPLE: 2472079		10372957001		Spike		MS		% Rec		Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limit	Qualifiers			
1,1,1,2-Tetrachloroethane	ug/kg	ND	1040	1060	102	59-135				
1,1,1-Trichloroethane	ug/kg	ND	1040	1030	99	51-137				
1,1,2,2-Tetrachloroethane	ug/kg	ND	1040	1030	99	40-149				
1,1,2-Trichloroethane	ug/kg	ND	1040	1070	103	54-144				
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1040	1010	97	41-150				
1,1-Dichloroethane	ug/kg	ND	1040	1170	113	53-131				
1,1-Dichloroethene	ug/kg	ND	1040	1040	100	41-133				
1,1-Dichloropropene	ug/kg	ND	1040	1180	114	50-139				
1,2,3-Trichlorobenzene	ug/kg	ND	1040	1040	100	52-150				
1,2,3-Trichloropropane	ug/kg	ND	1040	1060	102	61-137				
1,2,4-Trichlorobenzene	ug/kg	ND	1040	1050	101	52-142				
1,2,4-Trimethylbenzene	ug/kg	ND	1040	1060	101	56-142				
1,2-Dibromo-3-chloropropane	ug/kg	ND	2600	2410	92	47-143				
1,2-Dibromoethane (EDB)	ug/kg	ND	1040	1070	103	57-136				
1,2-Dichlorobenzene	ug/kg	ND	1040	1090	105	59-136				
1,2-Dichloroethane	ug/kg	ND	1040	935	90	52-133				
1,2-Dichloropropane	ug/kg	ND	1040	1230	118	62-129				
1,3,5-Trimethylbenzene	ug/kg	ND	1040	1080	104	54-143				
1,3-Dichlorobenzene	ug/kg	ND	1040	1070	103	60-137				
1,3-Dichloropropane	ug/kg	ND	1040	1120	108	57-138				
1,4-Dichlorobenzene	ug/kg	ND	1040	1040	100	51-132				
2,2-Dichloropropane	ug/kg	ND	1040	1020	98	50-134				
2-Butanone (MEK)	ug/kg	ND	5200	5840	112	46-125				
2-Chlorotoluene	ug/kg	ND	1040	1020	98	60-141				
4-Chlorotoluene	ug/kg	ND	1040	1080	103	65-135				
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5200	5680	109	47-146				
Acetone	ug/kg	ND	5200	6250	120	45-148				
Allyl chloride	ug/kg	ND	1040	1060	102	50-135				
Benzene	ug/kg	ND	1040	1200	115	41-134				

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

MATRIX SPIKE SAMPLE: 2472079		10372957001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromobenzene	ug/kg	ND	1040	1050	101	59-134	
Bromochloromethane	ug/kg	ND	1040	1190	114	56-127	
Bromodichloromethane	ug/kg	ND	1040	1010	97	55-136	
Bromoform	ug/kg	ND	1040	881	85	51-139	
Bromomethane	ug/kg	ND	1040	765	74	35-148	
Carbon tetrachloride	ug/kg	ND	1040	987	95	50-140	
Chlorobenzene	ug/kg	ND	1040	1080	103	59-133	
Chloroethane	ug/kg	ND	1040	748	72	30-150	
Chloroform	ug/kg	ND	1040	1020	98	58-128	
Chloromethane	ug/kg	ND	1040	745	72	38-125	
cis-1,2-Dichloroethene	ug/kg	ND	1040	1180	113	59-125	
cis-1,3-Dichloropropene	ug/kg	ND	1040	1090	105	57-133	
Dibromochloromethane	ug/kg	ND	1040	1000	96	54-141	
Dibromomethane	ug/kg	ND	1040	1050	101	53-134	
Dichlorodifluoromethane	ug/kg	ND	1040	453	44	30-125	
Dichlorofluoromethane	ug/kg	ND	1040	735	71	30-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	1040	909	87	46-137	
Ethylbenzene	ug/kg	ND	1040	1080	104	56-141	
Hexachloro-1,3-butadiene	ug/kg	ND	1040	1180	114	45-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1040	1090	105	48-141	
Methyl-tert-butyl ether	ug/kg	ND	1040	1110	107	53-133	
Methylene Chloride	ug/kg	ND	1040	1060	100	42-135	
n-Butylbenzene	ug/kg	ND	1040	1110	107	52-140	
n-Propylbenzene	ug/kg	ND	1040	1090	105	57-142	
Naphthalene	ug/kg	ND	1040	1080	103	41-150	
p-Isopropyltoluene	ug/kg	ND	1040	1050	101	54-139	
sec-Butylbenzene	ug/kg	ND	1040	1150	110	30-150	
Styrene	ug/kg	ND	1040	1090	104	53-137	
tert-Butylbenzene	ug/kg	ND	1040	1090	105	59-138	
Tetrachloroethene	ug/kg	ND	1040	1150	111	53-138	
Tetrahydrofuran	ug/kg	ND	10400	12000	115	50-145	
Toluene	ug/kg	ND	1040	1180	113	55-134	
trans-1,2-Dichloroethene	ug/kg	ND	1040	1150	110	44-135	
trans-1,3-Dichloropropene	ug/kg	ND	1040	1060	102	59-139	
Trichloroethene	ug/kg	ND	1040	1240	119	52-143	
Trichlorofluoromethane	ug/kg	ND	1040	798	77	30-150	
Vinyl chloride	ug/kg	ND	1040	888	85	36-127	
Xylene (Total)	ug/kg	ND	3130	3360	108	56-137	
1,2-Dichloroethane-d4 (S)	%				88	75-129	
4-Bromofluorobenzene (S)	%				100	75-125	
Toluene-d8 (S)	%				99	75-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

SAMPLE DUPLICATE: 2472122

Parameter	Units	10372957003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	<21.3		30	
1,1,1-Trichloroethane	ug/kg	ND	<22.4		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	<11.9		30	
1,1,2-Trichloroethane	ug/kg	ND	<11.6		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	<129		30	
1,1-Dichloroethane	ug/kg	ND	<20.8		30	
1,1-Dichloroethene	ug/kg	ND	<13.6		30	
1,1-Dichloropropene	ug/kg	ND	<16.2		30	
1,2,3-Trichlorobenzene	ug/kg	ND	<15.5		30	
1,2,3-Trichloropropane	ug/kg	ND	<55.6		30	
1,2,4-Trichlorobenzene	ug/kg	ND	<16.5		30	
1,2,4-Trimethylbenzene	ug/kg	ND	<11.8		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	<105		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	<20.2		30	
1,2-Dichlorobenzene	ug/kg	ND	<10.4		30	
1,2-Dichloroethane	ug/kg	ND	<17.0		30	
1,2-Dichloropropane	ug/kg	ND	<18.6		30	
1,3,5-Trimethylbenzene	ug/kg	ND	<41.1		30	
1,3-Dichlorobenzene	ug/kg	ND	<15.8		30	
1,3-Dichloropropane	ug/kg	ND	<64.0		30	
1,4-Dichlorobenzene	ug/kg	ND	<51.9		30	
2,2-Dichloropropane	ug/kg	ND	<56.9		30	
2-Butanone (MEK)	ug/kg	ND	<236		30	
2-Chlorotoluene	ug/kg	ND	<49.4		30	
4-Chlorotoluene	ug/kg	ND	<46.9		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	<118		30	
Acetone	ug/kg	ND	<1170		30	
Allyl chloride	ug/kg	ND	<153		30	
Benzene	ug/kg	ND	<15.5		30	
Bromobenzene	ug/kg	ND	<45.8		30	
Bromochloromethane	ug/kg	ND	<53.3		30	
Bromodichloromethane	ug/kg	ND	<50.1		30	
Bromoform	ug/kg	ND	<154		30	
Bromomethane	ug/kg	ND	<181		30	
Carbon tetrachloride	ug/kg	ND	<56.2		30	
Chlorobenzene	ug/kg	ND	<31.1		30	
Chloroethane	ug/kg	ND	<283		30	
Chloroform	ug/kg	ND	<86.9		30	
Chloromethane	ug/kg	ND	<86.6		30	
cis-1,2-Dichloroethene	ug/kg	ND	<66.5		30	
cis-1,3-Dichloropropene	ug/kg	ND	<81.5		30	
Dibromochloromethane	ug/kg	ND	<153		30	
Dibromomethane	ug/kg	ND	<69.7		30	
Dichlorodifluoromethane	ug/kg	ND	<54.7		30	
Dichlorofluoromethane	ug/kg	ND	<490		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	<73.7		30	
Ethylbenzene	ug/kg	ND	<56.9		30	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

SAMPLE DUPLICATE: 2472122

Parameter	Units	10372957003 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	<168		30	
Isopropylbenzene (Cumene)	ug/kg	ND	<63.7		30	
Methyl-tert-butyl ether	ug/kg	ND	<33.5		30	
Methylene Chloride	ug/kg	ND	<331		30	
n-Butylbenzene	ug/kg	ND	<43.3		30	
n-Propylbenzene	ug/kg	ND	<53.3		30	
Naphthalene	ug/kg	ND	<43.3		30	
p-Isopropyltoluene	ug/kg	ND	<29.7		30	
sec-Butylbenzene	ug/kg	ND	<42.2		30	
Styrene	ug/kg	ND	<46.5		30	
tert-Butylbenzene	ug/kg	ND	<56.5		30	
Tetrachloroethene	ug/kg	ND	<68.3		30	
Tetrahydrofuran	ug/kg	ND	<887		30	
Toluene	ug/kg	ND	<56.9		30	
trans-1,2-Dichloroethene	ug/kg	ND	<86.2		30	
trans-1,3-Dichloropropene	ug/kg	ND	<60.8		30	
Trichloroethene	ug/kg	ND	<51.1		30	
Trichlorofluoromethane	ug/kg	ND	<180		30	
Vinyl chloride	ug/kg	ND	<23.0		30	
Xylene (Total)	ug/kg	ND	<143		30	
1,2-Dichloroethane-d4 (S)	%	91	87	3		
4-Bromofluorobenzene (S)	%	102	97	3		
Toluene-d8 (S)	%	98	100	4		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

QC Batch: 451524 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10372645008, 10372645009, 10372645010, 10372645011, 10372645012, 10372645013, 10372645014, 10372645015, 10372645016

METHOD BLANK: 2472191 Matrix: Solid  
Associated Lab Samples: 10372645008, 10372645009, 10372645010, 10372645011, 10372645012, 10372645013, 10372645014, 10372645015, 10372645016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<19.8	19.8	12/14/16 06:47	
1,1,1-Trichloroethane	ug/kg	<20.9	20.9	12/14/16 06:47	
1,1,2,2-Tetrachloroethane	ug/kg	<11.1	11.1	12/14/16 06:47	
1,1,2-Trichloroethane	ug/kg	<10.8	10.8	12/14/16 06:47	
1,1,2-Trichlorotrifluoroethane	ug/kg	<120	120	12/14/16 06:47	
1,1-Dichloroethane	ug/kg	<19.4	19.4	12/14/16 06:47	
1,1-Dichloroethene	ug/kg	<12.7	12.7	12/14/16 06:47	
1,1-Dichloropropene	ug/kg	<15.1	15.1	12/14/16 06:47	
1,2,3-Trichlorobenzene	ug/kg	<14.4	14.4	12/14/16 06:47	
1,2,3-Trichloropropane	ug/kg	<51.8	51.8	12/14/16 06:47	
1,2,4-Trichlorobenzene	ug/kg	<15.4	15.4	12/14/16 06:47	
1,2,4-Trimethylbenzene	ug/kg	<11.0	11.0	12/14/16 06:47	
1,2-Dibromo-3-chloropropane	ug/kg	<97.5	97.5	12/14/16 06:47	
1,2-Dibromoethane (EDB)	ug/kg	<18.8	18.8	12/14/16 06:47	
1,2-Dichlorobenzene	ug/kg	<9.7	9.7	12/14/16 06:47	
1,2-Dichloroethane	ug/kg	<15.8	15.8	12/14/16 06:47	
1,2-Dichloropropane	ug/kg	<17.3	17.3	12/14/16 06:47	
1,3,5-Trimethylbenzene	ug/kg	<38.3	38.3	12/14/16 06:47	
1,3-Dichlorobenzene	ug/kg	<14.7	14.7	12/14/16 06:47	
1,3-Dichloropropane	ug/kg	<59.6	59.6	12/14/16 06:47	
1,4-Dichlorobenzene	ug/kg	<48.3	48.3	12/14/16 06:47	
2,2-Dichloropropane	ug/kg	<52.9	52.9	12/14/16 06:47	
2-Butanone (MEK)	ug/kg	<220	220	12/14/16 06:47	
2-Chlorotoluene	ug/kg	<46.0	46.0	12/14/16 06:47	
4-Chlorotoluene	ug/kg	<43.6	43.6	12/14/16 06:47	
4-Methyl-2-pentanone (MIBK)	ug/kg	<110	110	12/14/16 06:47	
Acetone	ug/kg	<1090	1090	12/14/16 06:47	
Allyl chloride	ug/kg	<143	143	12/14/16 06:47	
Benzene	ug/kg	<14.4	14.4	12/14/16 06:47	
Bromobenzene	ug/kg	<42.6	42.6	12/14/16 06:47	
Bromochloromethane	ug/kg	<49.6	49.6	12/14/16 06:47	
Bromodichloromethane	ug/kg	<46.6	46.6	12/14/16 06:47	
Bromoform	ug/kg	<144	144	12/14/16 06:47	
Bromomethane	ug/kg	<169	169	12/14/16 06:47	
Carbon tetrachloride	ug/kg	<52.3	52.3	12/14/16 06:47	
Chlorobenzene	ug/kg	<29.0	29.0	12/14/16 06:47	
Chloroethane	ug/kg	<263	263	12/14/16 06:47	
Chloroform	ug/kg	<80.9	80.9	12/14/16 06:47	
Chloromethane	ug/kg	<80.6	80.6	12/14/16 06:47	
cis-1,2-Dichloroethene	ug/kg	<61.9	61.9	12/14/16 06:47	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

METHOD BLANK: 2472191

Matrix: Solid

Associated Lab Samples: 10372645008, 10372645009, 10372645010, 10372645011, 10372645012, 10372645013, 10372645014, 10372645015, 10372645016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	<75.9	75.9	12/14/16 06:47	
Dibromochloromethane	ug/kg	<143	143	12/14/16 06:47	
Dibromomethane	ug/kg	<64.9	64.9	12/14/16 06:47	
Dichlorodifluoromethane	ug/kg	<50.9	50.9	12/14/16 06:47	
Dichlorofluoromethane	ug/kg	<456	456	12/14/16 06:47	
Diethyl ether (Ethyl ether)	ug/kg	<68.6	68.6	12/14/16 06:47	
Ethylbenzene	ug/kg	<52.9	52.9	12/14/16 06:47	
Hexachloro-1,3-butadiene	ug/kg	<157	157	12/14/16 06:47	
Isopropylbenzene (Cumene)	ug/kg	<59.3	59.3	12/14/16 06:47	
Methyl-tert-butyl ether	ug/kg	<31.2	31.2	12/14/16 06:47	
Methylene Chloride	ug/kg	<308	308	12/14/16 06:47	
n-Butylbenzene	ug/kg	<40.3	40.3	12/14/16 06:47	
n-Propylbenzene	ug/kg	<49.6	49.6	12/14/16 06:47	
Naphthalene	ug/kg	<40.3	40.3	12/14/16 06:47	
p-Isopropyltoluene	ug/kg	<27.6	27.6	12/14/16 06:47	
sec-Butylbenzene	ug/kg	<39.3	39.3	12/14/16 06:47	
Styrene	ug/kg	<43.3	43.3	12/14/16 06:47	
tert-Butylbenzene	ug/kg	<52.6	52.6	12/14/16 06:47	
Tetrachloroethene	ug/kg	<63.6	63.6	12/14/16 06:47	
Tetrahydrofuran	ug/kg	<826	826	12/14/16 06:47	
Toluene	ug/kg	<52.9	52.9	12/14/16 06:47	
trans-1,2-Dichloroethene	ug/kg	<80.3	80.3	12/14/16 06:47	
trans-1,3-Dichloropropene	ug/kg	<56.6	56.6	12/14/16 06:47	
Trichloroethene	ug/kg	<47.6	47.6	12/14/16 06:47	
Trichlorofluoromethane	ug/kg	<167	167	12/14/16 06:47	
Vinyl chloride	ug/kg	<21.4	21.4	12/14/16 06:47	
Xylene (Total)	ug/kg	<133	133	12/14/16 06:47	
1,2-Dichloroethane-d4 (S)	%	104	75-129	12/14/16 06:47	
4-Bromofluorobenzene (S)	%	102	75-125	12/14/16 06:47	
Toluene-d8 (S)	%	102	75-125	12/14/16 06:47	

LABORATORY CONTROL SAMPLE & LCSD: 2472192

2472193

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	2000	2100	1950	105	97	71-127	8	20	
1,1,1-Trichloroethane	ug/kg	2000	2270	2090	114	105	64-132	8	20	
1,1,2,2-Tetrachloroethane	ug/kg	2000	2080	1840	104	92	50-138	12	20	
1,1,2-Trichloroethane	ug/kg	2000	2180	1950	109	98	69-126	11	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	2000	2070	1960	103	98	53-144	6	20	
1,1-Dichloroethane	ug/kg	2000	2200	2040	110	102	61-134	8	20	
1,1-Dichloroethene	ug/kg	2000	2180	2080	109	104	57-135	5	20	
1,1-Dichloropropene	ug/kg	2000	2380	2230	119	112	59-133	6	20	
1,2,3-Trichlorobenzene	ug/kg	2000	1950	1830	97	92	32-150	6	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

LABORATORY CONTROL SAMPLE & LCS:		2472192	2472193		LCS	LCS	% Rec		Max	
Parameter	Units	Spike Conc.	LCS Result	LCS Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2,3-Trichloropropane	ug/kg	2000	2140	1920	107	96	62-130	11	20	
1,2,4-Trichlorobenzene	ug/kg	2000	1930	1830	96	92	38-138	5	20	
1,2,4-Trimethylbenzene	ug/kg	2000	2140	2050	107	103	70-127	4	20	
1,2-Dibromo-3-chloropropane	ug/kg	5000	4910	4380	98	88	40-141	12	20	
1,2-Dibromoethane (EDB)	ug/kg	2000	2030	1840	101	92	69-130	10	20	
1,2-Dichlorobenzene	ug/kg	2000	2110	1990	106	99	72-125	6	20	
1,2-Dichloroethane	ug/kg	2000	2190	1960	110	98	62-125	11	20	
1,2-Dichloropropane	ug/kg	2000	2240	2080	112	104	67-126	7	20	
1,3,5-Trimethylbenzene	ug/kg	2000	2120	2070	106	103	71-129	2	20	
1,3-Dichlorobenzene	ug/kg	2000	2080	1960	104	98	72-126	5	20	
1,3-Dichloropropane	ug/kg	2000	2170	1950	108	97	70-125	10	20	
1,4-Dichlorobenzene	ug/kg	2000	2040	1950	102	98	70-126	4	20	
2,2-Dichloropropane	ug/kg	2000	1620	1470	81	74	48-134	10	20	
2-Butanone (MEK)	ug/kg	10000	11500	9600	115	96	38-149	18	20	
2-Chlorotoluene	ug/kg	2000	2150	2070	107	103	71-129	4	20	
4-Chlorotoluene	ug/kg	2000	2170	2100	109	105	72-128	4	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	10000	12600	10800	126	108	52-145	16	20	
Acetone	ug/kg	10000	10200	9290	102	93	65-142	9	20	
Allyl chloride	ug/kg	2000	2110	1970	105	99	54-125	7	20	
Benzene	ug/kg	2000	2230	2090	112	104	64-125	7	20	
Bromobenzene	ug/kg	2000	2130	2040	107	102	70-125	4	20	
Bromochloromethane	ug/kg	2000	2280	2090	114	104	68-125	9	20	
Bromodichloromethane	ug/kg	2000	2200	2080	110	104	67-125	6	20	
Bromoform	ug/kg	2000	1750	1580	87	79	56-127	10	20	
Bromomethane	ug/kg	2000	1670	1570	84	78	34-137	7	20	
Carbon tetrachloride	ug/kg	2000	2060	1920	103	96	58-138	7	20	
Chlorobenzene	ug/kg	2000	2130	2000	107	100	72-125	6	20	
Chloroethane	ug/kg	2000	2410	2330	121	116	39-148	4	20	
Chloroform	ug/kg	2000	2150	1970	107	98	67-125	9	20	
Chloromethane	ug/kg	2000	1770	1630	88	81	54-125	8	20	
cis-1,2-Dichloroethene	ug/kg	2000	2150	1990	107	99	67-125	8	20	
cis-1,3-Dichloropropene	ug/kg	2000	2140	2000	107	100	62-127	7	20	
Dibromochloromethane	ug/kg	2000	2190	2000	109	100	67-125	9	20	
Dibromomethane	ug/kg	2000	2080	1910	104	96	63-129	9	20	
Dichlorodifluoromethane	ug/kg	2000	1370	1250	68	63	34-139	9	20	
Dichlorofluoromethane	ug/kg	2000	2480	2280	124	114	36-144	9	20	
Diethyl ether (Ethyl ether)	ug/kg	2000	2040	1810	102	90	51-125	12	20	
Ethylbenzene	ug/kg	2000	2240	2100	112	105	70-129	7	20	
Hexachloro-1,3-butadiene	ug/kg	2000	1920	1900	96	95	48-126	1	20	
Isopropylbenzene (Cumene)	ug/kg	2000	2170	2080	109	104	75-127	5	20	
Methyl-tert-butyl ether	ug/kg	2000	2100	1870	105	94	61-125	11	20	
Methylene Chloride	ug/kg	2000	2260	1990	113	99	60-126	13	20	
n-Butylbenzene	ug/kg	2000	2040	2040	102	102	67-125	0	20	
n-Propylbenzene	ug/kg	2000	2200	2150	110	108	72-133	2	20	
Naphthalene	ug/kg	2000	2150	1910	107	96	35-147	12	20	
p-Isopropyltoluene	ug/kg	2000	2010	2000	101	100	69-127	1	20	
sec-Butylbenzene	ug/kg	2000	2180	2130	109	107	70-127	2	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

LABORATORY CONTROL SAMPLE & LCSD: 2472192		2472193									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Styrene	ug/kg	2000	2150	2000	107	100	73-125	7	20		
tert-Butylbenzene	ug/kg	2000	2110	2050	106	103	71-130	3	20		
Tetrachloroethene	ug/kg	2000	2100	1990	105	99	66-135	5	20		
Tetrahydrofuran	ug/kg	20000	18300	16800	91	84	66-145	8	20		
Toluene	ug/kg	2000	2190	2050	110	102	69-125	7	20		
trans-1,2-Dichloroethene	ug/kg	2000	2310	2110	115	105	55-135	9	20		
trans-1,3-Dichloropropene	ug/kg	2000	2110	1940	106	97	67-125	9	20		
Trichloroethene	ug/kg	2000	2180	2020	109	101	62-141	8	20		
Trichlorofluoromethane	ug/kg	2000	2220	2050	111	103	38-150	8	20		
Vinyl chloride	ug/kg	2000	2000	1860	100	93	57-131	7	20		
Xylene (Total)	ug/kg	6000	6480	6150	108	102	73-128	5	20		
1,2-Dichloroethane-d4 (S)	%				104	101	75-129				
4-Bromofluorobenzene (S)	%				100	100	75-125				
Toluene-d8 (S)	%				102	101	75-125				

MATRIX SPIKE SAMPLE: 2472194		10372983001	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<25.4	1210	1270	105	59-135	
1,1,1-Trichloroethane	ug/kg	<26.8	1210	1360	112	51-137	
1,1,2,2-Tetrachloroethane	ug/kg	<14.2	1210	1310	108	40-149	
1,1,2-Trichloroethane	ug/kg	<13.8	1210	1260	104	54-144	
1,1,2-Trichlorotrifluoroethane	ug/kg	<46.1	1210	1220	101	41-150	
1,1-Dichloroethane	ug/kg	<24.9	1210	1280	105	53-131	
1,1-Dichloroethene	ug/kg	<16.3	1210	1260	104	41-133	
1,1-Dichloropropene	ug/kg	<19.4	1210	1410	117	50-139	
1,2,3-Trichlorobenzene	ug/kg	<18.5	1210	1260	104	52-150	
1,2,3-Trichloropropane	ug/kg	<66.4	1210	1220	101	61-137	
1,2,4-Trichlorobenzene	ug/kg	<19.7	1210	1210	100	52-142	
1,2,4-Trimethylbenzene	ug/kg	<14.1	1210	1280	106	56-142	
1,2-Dibromo-3-chloropropane	ug/kg	<125	3020	2950	97	47-143	
1,2-Dibromoethane (EDB)	ug/kg	<24.1	1210	1210	100	57-136	
1,2-Dichlorobenzene	ug/kg	<12.4	1210	1280	106	59-136	
1,2-Dichloroethane	ug/kg	<20.3	1210	1280	106	52-133	
1,2-Dichloropropane	ug/kg	<22.2	1210	1300	108	62-129	
1,3,5-Trimethylbenzene	ug/kg	<14.7	1210	1280	106	54-143	
1,3-Dichlorobenzene	ug/kg	<18.8	1210	1220	101	60-137	
1,3-Dichloropropane	ug/kg	<22.9	1210	1280	106	57-138	
1,4-Dichlorobenzene	ug/kg	<18.6	1210	1230	102	51-132	
2,2-Dichloropropane	ug/kg	<20.4	1210	941	78	50-134	
2-Butanone (MEK)	ug/kg	<84.6	6060	6170	102	46-125	
2-Chlorotoluene	ug/kg	<17.7	1210	1300	107	60-141	
4-Chlorotoluene	ug/kg	<16.8	1210	1290	107	65-135	
4-Methyl-2-pentanone (MIBK)	ug/kg	<42.4	6060	7390	122	47-146	
Acetone	ug/kg	<420	6060	6240	103	45-148	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

MATRIX SPIKE SAMPLE: 2472194		10372983001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Allyl chloride	ug/kg	<55.0	1210	1230	101	50-135	
Benzene	ug/kg	20.0J	1210	1330	108	41-134	
Bromobenzene	ug/kg	<16.4	1210	1280	106	59-134	
Bromochloromethane	ug/kg	<19.1	1210	1310	108	56-127	
Bromodichloromethane	ug/kg	<17.9	1210	1270	105	55-136	
Bromoform	ug/kg	<55.2	1210	1040	86	51-139	
Bromomethane	ug/kg	<65.0	1210	1030	83	35-148	
Carbon tetrachloride	ug/kg	<20.1	1210	1270	105	50-140	
Chlorobenzene	ug/kg	<11.2	1210	1280	105	59-133	
Chloroethane	ug/kg	<101	1210	1450	120	30-150	
Chloroform	ug/kg	<31.1	1210	1270	105	58-128	
Chloromethane	ug/kg	<31.0	1210	989	82	38-125	
cis-1,2-Dichloroethene	ug/kg	<23.8	1210	1280	106	59-125	
cis-1,3-Dichloropropene	ug/kg	<29.2	1210	1220	101	57-133	
Dibromochloromethane	ug/kg	<55.0	1210	1290	107	54-141	
Dibromomethane	ug/kg	<25.0	1210	1210	100	53-134	
Dichlorodifluoromethane	ug/kg	<19.6	1210	590	49	30-125	
Dichlorofluoromethane	ug/kg	<176	1210	1500	124	30-150	
Diethyl ether (Ethyl ether)	ug/kg	<26.4	1210	1200	99	46-137	
Ethylbenzene	ug/kg	<20.4	1210	1340	111	56-141	
Hexachloro-1,3-butadiene	ug/kg	<60.2	1210	1370	113	45-150	
Isopropylbenzene (Cumene)	ug/kg	<22.8	1210	1340	110	48-141	
Methyl-tert-butyl ether	ug/kg	<12.0	1210	1270	105	53-133	
Methylene Chloride	ug/kg	<119	1210	1260	101	42-135	
n-Butylbenzene	ug/kg	<15.5	1210	1270	105	52-140	
n-Propylbenzene	ug/kg	<19.1	1210	1370	113	57-142	
Naphthalene	ug/kg	<15.5	1210	1300	107	41-150	
p-Isopropyltoluene	ug/kg	<10.6	1210	1280	106	54-139	
sec-Butylbenzene	ug/kg	<15.1	1210	1370	113	30-150	
Styrene	ug/kg	<16.7	1210	1260	104	53-137	
tert-Butylbenzene	ug/kg	<20.3	1210	1300	108	59-138	
Tetrachloroethene	ug/kg	<24.5	1210	1310	108	53-138	
Tetrahydrofuran	ug/kg	<318	12100	11300	93	50-145	
Toluene	ug/kg	<20.4	1210	1350	110	55-134	
trans-1,2-Dichloroethene	ug/kg	<30.9	1210	1340	111	44-135	
trans-1,3-Dichloropropene	ug/kg	<21.8	1210	1250	103	59-139	
Trichloroethene	ug/kg	<18.3	1210	1240	102	52-143	
Trichlorofluoromethane	ug/kg	<64.3	1210	1290	106	30-150	
Vinyl chloride	ug/kg	<8.2	1210	1090	90	36-127	
Xylene (Total)	ug/kg	<51.3	3630	3920	108	56-137	
1,2-Dichloroethane-d4 (S)	%				105	75-129	
4-Bromofluorobenzene (S)	%				99	75-125	
Toluene-d8 (S)	%				104	75-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

SAMPLE DUPLICATE: 2472195

Parameter	Units	10372983002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<24.5	<23.8		30	
1,1,1-Trichloroethane	ug/kg	<25.9	<25.2		30	
1,1,2,2-Tetrachloroethane	ug/kg	<13.8	<13.4		30	
1,1,2-Trichloroethane	ug/kg	<13.4	<13.0		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	<44.6	<144		30	
1,1-Dichloroethane	ug/kg	<24.1	<23.3		30	
1,1-Dichloroethene	ug/kg	<15.7	<15.3		30	
1,1-Dichloropropene	ug/kg	<18.7	<18.2		30	
1,2,3-Trichlorobenzene	ug/kg	<17.9	<17.3		30	
1,2,3-Trichloropropane	ug/kg	<64.2	<62.3		30	
1,2,4-Trichlorobenzene	ug/kg	<19.1	<18.5		30	
1,2,4-Trimethylbenzene	ug/kg	<13.6	<13.2		30	
1,2-Dibromo-3-chloropropane	ug/kg	<121	<117		30	
1,2-Dibromoethane (EDB)	ug/kg	<23.3	<22.6		30	
1,2-Dichlorobenzene	ug/kg	<12.0	<11.6		30	
1,2-Dichloroethane	ug/kg	<19.6	<19.0		30	
1,2-Dichloropropane	ug/kg	<21.4	<20.8		30	
1,3,5-Trimethylbenzene	ug/kg	<14.3	<46.1		30	
1,3-Dichlorobenzene	ug/kg	<18.2	<17.7		30	
1,3-Dichloropropane	ug/kg	<22.2	<71.7		30	
1,4-Dichlorobenzene	ug/kg	<18.0	<58.1		30	
2,2-Dichloropropane	ug/kg	<19.7	<63.7		30	
2-Butanone (MEK)	ug/kg	<81.8	<264		30	
2-Chlorotoluene	ug/kg	<17.1	<55.3		30	
4-Chlorotoluene	ug/kg	<16.2	<52.5		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	<41.0	<133		30	
Acetone	ug/kg	<407	<1310		30	
Allyl chloride	ug/kg	<53.2	<172		30	
Benzene	ug/kg	<5.4	<17.3		30	
Bromobenzene	ug/kg	<15.9	<51.3		30	
Bromochloromethane	ug/kg	<18.5	<59.7		30	
Bromodichloromethane	ug/kg	<17.4	<56.1		30	
Bromoform	ug/kg	<53.4	<173		30	
Bromomethane	ug/kg	<62.9	<203		30	
Carbon tetrachloride	ug/kg	<19.5	<62.9		30	
Chlorobenzene	ug/kg	<10.8	<34.9		30	
Chloroethane	ug/kg	<97.9	<317		30	
Chloroform	ug/kg	<30.1	<97.4		30	
Chloromethane	ug/kg	<30.0	<97.0		30	
cis-1,2-Dichloroethene	ug/kg	<23.1	<74.5		30	
cis-1,3-Dichloropropene	ug/kg	<28.3	<91.4		30	
Dibromochloromethane	ug/kg	<53.2	<172		30	
Dibromomethane	ug/kg	<24.2	<78.1		30	
Dichlorodifluoromethane	ug/kg	<19.0	<61.3		30	
Dichlorofluoromethane	ug/kg	<170	<549		30	
Diethyl ether (Ethyl ether)	ug/kg	<25.5	<82.6		30	
Ethylbenzene	ug/kg	<19.7	<63.7		30	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

SAMPLE DUPLICATE: 2472195

Parameter	Units	10372983002 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<58.3	<188		30	
Isopropylbenzene (Cumene)	ug/kg	<22.1	<71.3		30	
Methyl-tert-butyl ether	ug/kg	<11.6	<37.5		30	
Methylene Chloride	ug/kg	<115	<371		30	
n-Butylbenzene	ug/kg	<15.0	<48.5		30	
n-Propylbenzene	ug/kg	<18.5	<59.7		30	
Naphthalene	ug/kg	<15.0	<48.5		30	
p-Isopropyltoluene	ug/kg	<10.3	<33.3		30	
sec-Butylbenzene	ug/kg	<14.6	<47.3		30	
Styrene	ug/kg	<16.1	<52.1		30	
tert-Butylbenzene	ug/kg	<19.6	<63.3		30	
Tetrachloroethene	ug/kg	<23.7	<76.5		30	
Tetrahydrofuran	ug/kg	<307	<994		30	
Toluene	ug/kg	<19.7	<63.7		30	
trans-1,2-Dichloroethene	ug/kg	<29.9	<96.6		30	
trans-1,3-Dichloropropene	ug/kg	<21.1	<68.1		30	
Trichloroethene	ug/kg	<17.7	<57.3		30	
Trichlorofluoromethane	ug/kg	<62.2	<201		30	
Vinyl chloride	ug/kg	<8.0	<25.7		30	
Xylene (Total)	ug/kg	<49.6	<160		30	
1,2-Dichloroethane-d4 (S)	%	108	102	9		
4-Bromofluorobenzene (S)	%	100	101	2		
Toluene-d8 (S)	%	101	103	1		

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

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QC Batch: 451476 Analysis Method: EPA 8270D by SIM  
 QC Batch Method: EPA 3550 Analysis Description: 8270D Solid PAH by SIM MSSV  
 Associated Lab Samples: 10372645001, 10372645002, 10372645003, 10372645004, 10372645005, 10372645006, 10372645007,  
 10372645008, 10372645009, 10372645010, 10372645011, 10372645012, 10372645013, 10372645014,  
 10372645015, 10372645016

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METHOD BLANK: 2472041 Matrix: Solid  
 Associated Lab Samples: 10372645001, 10372645002, 10372645003, 10372645004, 10372645005, 10372645006, 10372645007,  
 10372645008, 10372645009, 10372645010, 10372645011, 10372645012, 10372645013, 10372645014,  
 10372645015, 10372645016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	<1.3	1.3	12/19/16 16:16	
Acenaphthylene	ug/kg	<0.91	0.91	12/19/16 16:16	
Anthracene	ug/kg	<1.5	1.5	12/19/16 16:16	
Benzo(a)anthracene	ug/kg	<1.6	1.6	12/19/16 16:16	
Benzo(a)pyrene	ug/kg	<1.2	1.2	12/19/16 16:16	
Benzo(b)fluoranthene	ug/kg	<1.9	1.9	12/19/16 16:16	
Benzo(g,h,i)perylene	ug/kg	<1.5	1.5	12/19/16 16:16	
Benzo(k)fluoranthene	ug/kg	<1.6	1.6	12/19/16 16:16	
Chrysene	ug/kg	<1.8	1.8	12/19/16 16:16	
Dibenz(a,h)anthracene	ug/kg	<1.1	1.1	12/19/16 16:16	
Fluoranthene	ug/kg	<2.6	2.6	12/19/16 16:16	
Fluorene	ug/kg	<1.3	1.3	12/19/16 16:16	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.5	2.5	12/19/16 16:16	
Naphthalene	ug/kg	<1.2	1.2	12/19/16 16:16	
Phenanthrene	ug/kg	<1.3	1.3	12/19/16 16:16	
Pyrene	ug/kg	<2.8	2.8	12/19/16 16:16	
2-Fluorobiphenyl (S)	%	89	41-125	12/19/16 16:16	
p-Terphenyl-d14 (S)	%	85	39-125	12/19/16 16:16	

LABORATORY CONTROL SAMPLE: 2472042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	33.3	28.0	84	53-125	
Acenaphthylene	ug/kg	33.3	27.0	81	50-125	
Anthracene	ug/kg	33.3	31.0	93	60-125	
Benzo(a)anthracene	ug/kg	33.3	21.1	63	63-125	
Benzo(a)pyrene	ug/kg	33.3	28.5	86	65-125	
Benzo(b)fluoranthene	ug/kg	33.3	26.9	81	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	27.5	83	62-125	
Benzo(k)fluoranthene	ug/kg	33.3	29.6	89	65-125	
Chrysene	ug/kg	33.3	32.5	97	62-125	
Dibenz(a,h)anthracene	ug/kg	33.3	27.5	82	61-125	
Fluoranthene	ug/kg	33.3	28.9	87	64-125	
Fluorene	ug/kg	33.3	27.4	82	57-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	28.2	85	61-125	
Naphthalene	ug/kg	33.3	31.1	93	52-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

LABORATORY CONTROL SAMPLE: 2472042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	33.3	27.2	82	58-125	
Pyrene	ug/kg	33.3	28.4	85	65-125	
2-Fluorobiphenyl (S)	%.			91	41-125	
p-Terphenyl-d14 (S)	%.			80	39-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2472127 2472128

Parameter	Units	2472127		2472128		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10372645006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Acenaphthene	ug/kg	7.5	49.9	49.8	62.1	57.6	110	101	53-125	7	30	
Acenaphthylene	ug/kg	8.2	49.9	49.8	55.7	51.7	95	87	50-125	7	30	
Anthracene	ug/kg	19.0	49.9	49.8	91.0	94.0	144	151	60-125	3	30	M1
Benzo(a)anthracene	ug/kg	60.1	49.9	49.8	141	138	161	156	63-125	2	30	M1
Benzo(a)pyrene	ug/kg	66.2	49.9	49.8	144	127	155	122	65-125	12	30	M1
Benzo(b)fluoranthene	ug/kg	74.2	49.9	49.8	166	142	185	137	61-125	15	30	M1
Benzo(g,h,i)perylene	ug/kg	40.0	49.9	49.8	109	93.7	138	108	62-125	15	30	M1
Benzo(k)fluoranthene	ug/kg	30.1	49.9	49.8	97.4	88.0	135	116	65-125	10	30	M1
Chrysene	ug/kg	62.1	49.9	49.8	139	128	155	132	62-125	8	30	M1
Dibenz(a,h)anthracene	ug/kg	11.7	49.9	49.8	59.8	53.6	96	84	61-125	11	30	
Fluoranthene	ug/kg	102	49.9	49.8	226	220	250	237	64-125	3	30	M1
Fluorene	ug/kg	7.7	49.9	49.8	62.6	64.3	110	114	57-125	3	30	
Indeno(1,2,3-cd)pyrene	ug/kg	34.5	49.9	49.8	100	87.6	132	107	61-125	14	30	M1
Naphthalene	ug/kg	7.2	49.9	49.8	63.7	55.6	113	97	52-125	14	30	
Phenanthrene	ug/kg	57.7	49.9	49.8	165	176	216	237	58-125	6	30	M1
Pyrene	ug/kg	89.0	49.9	49.8	200	190	222	202	65-125	5	30	M1
2-Fluorobiphenyl (S)	%.						85	82	41-125			
p-Terphenyl-d14 (S)	%.						74	74	39-125			

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## QUALIFIERS

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

RS The RPD value in one of the constituent analytes was outside the control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2118-0002 Superior MGP\_REV

Pace Project No.: 10372645

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10372645001	S18_20-22.5	EPA 3050	451147	EPA 6010C	452712
10372645002	S19_20.5-23	EPA 3050	451147	EPA 6010C	452712
10372645003	S20_22-24	EPA 3050	451147	EPA 6010C	452712
10372645004	S20_24-25	EPA 3050	451147	EPA 6010C	452712
10372645005	S21_26-31	EPA 3050	451147	EPA 6010C	452712
10372645006	S22_24-24.5	EPA 3050	451147	EPA 6010C	452712
10372645007	S22_24.5-28	EPA 3050	451147	EPA 6010C	452712
10372645008	S23_26.5-28.5	EPA 3050	451147	EPA 6010C	452712
10372645009	S24_12.5-13	EPA 3050	451147	EPA 6010C	452712
10372645010	S24_13-15.5	EPA 3050	451147	EPA 6010C	452712
10372645011	S24_18-19	EPA 3050	451147	EPA 6010C	452712
10372645012	S24_20-20.5	EPA 3050	451147	EPA 6010C	452712
10372645013	S25_13.5-14	EPA 3050	451147	EPA 6010C	452712
10372645014	S25_14-22	EPA 3050	451147	EPA 6010C	452712
10372645015	S25_14-22D	EPA 3050	451147	EPA 6010C	452712
10372645016	S21_26-31D	EPA 3050	451147	EPA 6010C	452712
10372645001	S18_20-22.5	EPA 7471B	451149	EPA 7471B	452658
10372645002	S19_20.5-23	EPA 7471B	451149	EPA 7471B	452658
10372645003	S20_22-24	EPA 7471B	451149	EPA 7471B	452658
10372645004	S20_24-25	EPA 7471B	451149	EPA 7471B	452658
10372645005	S21_26-31	EPA 7471B	451149	EPA 7471B	452658
10372645006	S22_24-24.5	EPA 7471B	451149	EPA 7471B	452658
10372645007	S22_24.5-28	EPA 7471B	451149	EPA 7471B	452658
10372645008	S23_26.5-28.5	EPA 7471B	451149	EPA 7471B	452658
10372645009	S24_12.5-13	EPA 7471B	451149	EPA 7471B	452658
10372645010	S24_13-15.5	EPA 7471B	451149	EPA 7471B	452658
10372645011	S24_18-19	EPA 7471B	451149	EPA 7471B	452658
10372645012	S24_20-20.5	EPA 7471B	451149	EPA 7471B	452658
10372645013	S25_13.5-14	EPA 7471B	451149	EPA 7471B	452658
10372645014	S25_14-22	EPA 7471B	451149	EPA 7471B	452658
10372645015	S25_14-22D	EPA 7471B	451149	EPA 7471B	452658
10372645016	S21_26-31D	EPA 7471B	451149	EPA 7471B	452658
10372645001	S18_20-22.5	ASTM D2974	452858		
10372645002	S19_20.5-23	ASTM D2974	452858		
10372645003	S20_22-24	ASTM D2974	452858		
10372645004	S20_24-25	ASTM D2974	452858		
10372645005	S21_26-31	ASTM D2974	452858		
10372645006	S22_24-24.5	ASTM D2974	452858		
10372645007	S22_24.5-28	ASTM D2974	452875		
10372645008	S23_26.5-28.5	ASTM D2974	452875		
10372645009	S24_12.5-13	ASTM D2974	452875		
10372645010	S24_13-15.5	ASTM D2974	452875		
10372645011	S24_18-19	ASTM D2974	452875		
10372645012	S24_20-20.5	ASTM D2974	452875		
10372645013	S25_13.5-14	ASTM D2974	452875		
10372645014	S25_14-22	ASTM D2974	452875		
10372645015	S25_14-22D	ASTM D2974	452875		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2118-0002 Superior MGP\_REV  
Pace Project No.: 10372645

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10372645016	S21_26-31D	ASTM D2974	452875		
10372645001	S18_20-22.5	EPA 3550	451476	EPA 8270D by SIM	452433
10372645002	S19_20.5-23	EPA 3550	451476	EPA 8270D by SIM	452433
10372645003	S20_22-24	EPA 3550	451476	EPA 8270D by SIM	452433
10372645004	S20_24-25	EPA 3550	451476	EPA 8270D by SIM	452433
10372645005	S21_26-31	EPA 3550	451476	EPA 8270D by SIM	452433
10372645006	S22_24-24.5	EPA 3550	451476	EPA 8270D by SIM	452433
10372645007	S22_24.5-28	EPA 3550	451476	EPA 8270D by SIM	452433
10372645008	S23_26.5-28.5	EPA 3550	451476	EPA 8270D by SIM	452433
10372645009	S24_12.5-13	EPA 3550	451476	EPA 8270D by SIM	452433
10372645010	S24_13-15.5	EPA 3550	451476	EPA 8270D by SIM	452433
10372645011	S24_18-19	EPA 3550	451476	EPA 8270D by SIM	452433
10372645012	S24_20-20.5	EPA 3550	451476	EPA 8270D by SIM	452433
10372645013	S25_13.5-14	EPA 3550	451476	EPA 8270D by SIM	452433
10372645014	S25_14-22	EPA 3550	451476	EPA 8270D by SIM	452433
10372645015	S25_14-22D	EPA 3550	451476	EPA 8270D by SIM	452433
10372645016	S21_26-31D	EPA 3550	451476	EPA 8270D by SIM	452433
10372645001	S18_20-22.5	EPA 5035/5030B	451007	EPA 8260B	451373
10372645002	S19_20.5-23	EPA 5035/5030B	451007	EPA 8260B	451373
10372645003	S20_22-24	EPA 5035/5030B	451488	EPA 8260B	451676
10372645004	S20_24-25	EPA 5035/5030B	451488	EPA 8260B	451676
10372645005	S21_26-31	EPA 5035/5030B	451488	EPA 8260B	451676
10372645006	S22_24-24.5	EPA 5035/5030B	451488	EPA 8260B	451676
10372645007	S22_24.5-28	EPA 5035/5030B	451488	EPA 8260B	451676
10372645008	S23_26.5-28.5	EPA 5035/5030B	451524	EPA 8260B	451782
10372645009	S24_12.5-13	EPA 5035/5030B	451524	EPA 8260B	451782
10372645010	S24_13-15.5	EPA 5035/5030B	451524	EPA 8260B	451782
10372645011	S24_18-19	EPA 5035/5030B	451524	EPA 8260B	451782
10372645012	S24_20-20.5	EPA 5035/5030B	451524	EPA 8260B	451782
10372645013	S25_13.5-14	EPA 5035/5030B	451524	EPA 8260B	451782
10372645014	S25_14-22	EPA 5035/5030B	451524	EPA 8260B	451782
10372645015	S25_14-22D	EPA 5035/5030B	451524	EPA 8260B	451782
10372645016	S21_26-31D	EPA 5035/5030B	451524	EPA 8260B	451782

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2  
10372645

**Section A**  
Required Client Information:  
Company: Summit Environmental  
Address: [Redacted]  
Report To: Bill Gregg  
Copy To: [Redacted]  
Purchase Order No.: [Redacted]  
Project Name: Superior MGP  
Project Number: 218-0002

**Section B**  
Required Project Information:  
Report To: Bill Gregg  
Copy To: [Redacted]  
Purchase Order No.: [Redacted]  
Project Name: Superior MGP  
Project Number: 218-0002

**Section C**  
Invoice Information:  
Attention: B. Gregg  
Company Name: [Redacted]  
Address: [Redacted]  
Pace Quote Reference: [Redacted]  
Pace Project Manager: [Redacted]  
Pace Profile #: 25777

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_  
 Site Location: \_\_\_\_\_ STATE: \_\_\_\_\_

ITEM #	Section D Required Client Information	Matrix Codes MATRIX J CODE	SAMPLE CODE (see valid codes to left)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test ↑	Y/N ↑	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB								
1	518-20-22.5	DW	1	DATE: 12/18/16	TIME: 0900	13.3	Unpreserved	H <sub>2</sub> SO <sub>4</sub>					001
2	519-20.5-23	WT	1	DATE: 12/18/16	TIME: 0945	13.3	Unpreserved	HCl					002
3	520-22-24	WP	1	DATE: 12/18/16	TIME: 1015	13.3	Unpreserved	HCl					003
4	520-24-25	WP	1	DATE: 12/18/16	TIME: 1030	13.3	Unpreserved	HCl					004
5	521-26-31	WP	1	DATE: 12/18/16	TIME: 1100	13.3	Unpreserved	HCl					005
6	522-24-24.5	WP	1	DATE: 12/18/16	TIME: 1115	13.3	Unpreserved	HCl					006
7	522-24.5-28	WP	1	DATE: 12/18/16	TIME: 1145	13.3	Unpreserved	HCl					007
8	523-26.5-28.5	WP	1	DATE: 12/18/16	TIME: 1200	13.3	Unpreserved	HCl					008
9	524-18.5-13	WP	1	DATE: 12/18/16	TIME: 1215	13.3	Unpreserved	HCl					009
10	524-13-15.5	WP	1	DATE: 12/18/16	TIME: 1230	13.3	Unpreserved	HCl					010
11	524-18-19.5	WP	1	DATE: 12/18/16	TIME: 1245	13.3	Unpreserved	HCl					011
12	524-20-20.5	WP	1	DATE: 12/18/16	TIME: 1245	13.3	Unpreserved	HCl					012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Kyle Roman/Summit	12/18/16	1330	Kristina Polson	12/18/16	1540	2.4 Y N Y
	Kristina Polson	12/18/16	1545	[Signature]	12/18/16	1545	
	[Signature]	12/18/16	1835	[Signature]	12/18/16	1835	2.6 Y Y Y

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Kyle Roman  
 SIGNATURE of SAMPLER: [Signature]

**DATE SIGNED (MM/DD/YYYY):** 12/18/16

Temp in °C: \_\_\_\_\_  
 Received on Ice (Y/N): \_\_\_\_\_  
 Custody Sealed Cooler (Y/N): \_\_\_\_\_  
 Samples Intact (Y/N): \_\_\_\_\_

ORIGINAL

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Page: 2 of 2  
 2106172

REGULATORY AGENCY  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER

Section A  
 Required Client Information:  
 Company: Summit Environmental  
 Address: 1217 Bowdoin Blvd  
S. Paul MN  
 Email To: Bill Gregg  
 Phone: 763 507 2091 Fax: 763 507 2091  
 Requested Due Date/TAT: \_\_\_\_\_

Section B  
 Required Project Information:  
 Report To: Bill Gregg  
 Copy To: \_\_\_\_\_  
 Purchase Order No.: \_\_\_\_\_  
 Project Name: SWLP  
 Project Number: 2118-0002

Section C  
 Invoice Information:  
 Attention: B. Gregg  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Pace Quote Reference: \_\_\_\_\_  
 Pace Project Manager: \_\_\_\_\_  
 Pace Profile #: 25777

Section D  
 Required Client Information  
 Matrix Codes MATRIX / CODE  
 Drinking Water DW  
 Waste Water WT  
 Product WW  
 Soil/Solid P  
 Oil SL  
 Wipe OL  
 Air WP  
 Tissue AR  
 Other TS  
 OT

SAMPLE ID (A-Z, 0-9 / -)  
 Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB						
1	S25-13.5-14			DATE	TIME						
2	S25-14-22			DATE	TIME						
3	S25-14-22D			DATE	TIME						
4	S21-26-31D			DATE	TIME						
5											
6											
7											
8											
9											
10											
11											
12											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Hyle Kersand Summit	12/8/16	1530	Christina Polson	12/8/16	1540	N Y
	Christina Polson	12/8/16	1545		12/8/16	1505	Y Y
		12/8/16	1830	EM Polson	12/8/16	1835	Y Y

Temp in °C \_\_\_\_\_  
 Received on \_\_\_\_\_  
 Sealed Cooler (Y/N) \_\_\_\_\_  
 Samples Intact (Y/N) \_\_\_\_\_


SAMPLER NAME AND SIGNATURE  
 PRINT Name of SAMPLER: Hyle Kersand  
 SIGNATURE of SAMPLER: [Signature]  
 DATE Signed (MM/DD/YY): \_\_\_\_\_

ORIGINAL

**Sample Condition Upon Receipt**

Client Name: Summit Project #: \_\_\_\_\_

**WO# : 10372645**



10372645

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  SpeedDee  Other: \_\_\_\_\_

Tracking Number: \_\_\_\_\_

Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No **Optional:** Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_ Temp Blank?  Yes  No

Thermometer  151401163  B88A912167504 Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun  
Used:  151401164  B88A0143310098

Cooler Temp Read (°C): 26 Cooler Temp Corrected (°C): 26 Biological Tissue Frozen?  Yes  No  N/A  
Temp should be above freezing to 6°C Correction Factor: True Date and Initials of Person Examining Contents: SLP 12/8/16

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No  
Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix: <u>SL</u>	
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH >9 Sulfide, NaOH >12 Cyanide) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
Exceptions: VOA Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____	

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Project Manager Review: \_\_\_\_\_ Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers).

## **Appendix H**

### **Groundwater Analytical Reports**



February 08, 2017

Bill Gregg  
Summit Envirosolutions  
1217 Bandana Blvd  
Saint Paul, MN 55108

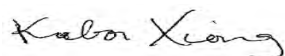
RE: Project: 2118-0002 Superior MGP  
Pace Project No.: 10377221

Dear Bill Gregg:

Enclosed are the analytical results for sample(s) received by the laboratory on January 25, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kabor Xiong  
kabor.xiong@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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## CERTIFICATIONS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

---

### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

Alaska Certification UST-107

525 N 8th Street, Salina, KS 67401

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN\_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10377221001	MW-7_20170124	Water	01/24/17 09:15	01/25/17 18:15
10377221002	MW-6_20170124	Water	01/24/17 10:05	01/25/17 18:15
10377221003	MW-5_20170124	Water	01/24/17 11:25	01/25/17 18:15
10377221004	MW-11_20170124	Water	01/24/17 13:00	01/25/17 18:15
10377221005	MW-23_20170124	Water	01/24/17 13:45	01/25/17 18:15
10377221006	MW-24_20170124	Water	01/24/17 15:15	01/25/17 18:15

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10377221001	MW-7_20170124	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	DJB	70	PASI-M
10377221002	MW-6_20170124	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	DJB	70	PASI-M
10377221003	MW-5_20170124	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	DJB	70	PASI-M
10377221004	MW-11_20170124	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	DJB	70	PASI-M
10377221005	MW-23_20170124	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	DJB	70	PASI-M
10377221006	MW-24_20170124	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	DJB	70	PASI-M

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

**Sample:** MW-7\_20170124      **Lab ID:** 10377221001      Collected: 01/24/17 09:15      Received: 01/25/17 18:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI      Preparation Method: EPA Mod. 3510C									
Acenaphthene	2.2	ug/L	0.032	0.0095	1	01/30/17 14:23	02/04/17 07:24	83-32-9	L2,N2
Acenaphthylene	0.77	ug/L	0.031	0.0092	1	01/30/17 14:23	02/04/17 07:24	208-96-8	N2
Anthracene	0.66	ug/L	0.027	0.0082	1	01/30/17 14:23	02/04/17 07:24	120-12-7	N2
Benzo(a)anthracene	0.049	ug/L	0.033	0.0098	1	01/30/17 14:23	02/04/17 07:24	56-55-3	L2,N2
Benzo(a)pyrene	0.10	ug/L	0.0083	0.0025	1	01/30/17 14:23	02/04/17 07:24	50-32-8	N2
Benzo(b)fluoranthene	0.082	ug/L	0.0057	0.0017	1	01/30/17 14:23	02/04/17 07:24	205-99-2	N2
Benzo(e)pyrene	0.063	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/04/17 07:24	192-97-2	N2
Benzo(g,h,i)perylene	0.098	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/04/17 07:24	191-24-2	N2
Benzo(k)fluoranthene	0.035	ug/L	0.033	0.0099	1	01/30/17 14:23	02/04/17 07:24	207-08-9	N2
2-Chloronaphthalene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:23	02/04/17 07:24	91-58-7	N2
Chrysene	0.060	ug/L	0.0080	0.0024	1	01/30/17 14:23	02/04/17 07:24	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:23	02/04/17 07:24	53-70-3	N2
Dibenzofuran	0.056	ug/L	0.032	0.0095	1	01/30/17 14:23	02/04/17 07:24	132-64-9	N2
Fluoranthene	0.43	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 07:24	206-44-0	N2
Fluorene	1.1	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 07:24	86-73-7	N2
Indeno(1,2,3-cd)pyrene	0.066	ug/L	0.0047	0.0014	1	01/30/17 14:23	02/04/17 07:24	193-39-5	N2
1-Methylnaphthalene	3.6	ug/L	1.1	0.34	50	01/30/17 14:23	02/04/17 07:48	90-12-0	N2
2-Methylnaphthalene	4.3	ug/L	1.8	0.55	50	01/30/17 14:23	02/04/17 07:48	91-57-6	N2
Naphthalene	216	ug/L	2.0	0.60	50	01/30/17 14:23	02/04/17 07:48	91-20-3	N2
Phenanthrene	1.9	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 07:24	85-01-8	N2
Pyrene	0.68	ug/L	0.0097	0.0029	1	01/30/17 14:23	02/04/17 07:24	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	57	%	48-125		1	01/30/17 14:23	02/04/17 07:24	321-60-8	H5,N2
p-Terphenyl-d14 (S)	56	%	51-125		1	01/30/17 14:23	02/04/17 07:24	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<5000	ug/L	5000	502	250		01/31/17 07:07	67-64-1	
Allyl chloride	<1000	ug/L	1000	62.5	250		01/31/17 07:07	107-05-1	
Benzene	59200	ug/L	250	38.8	250		01/31/17 07:07	71-43-2	
Bromobenzene	<250	ug/L	250	84.2	250		01/31/17 07:07	108-86-1	
Bromochloromethane	<250	ug/L	250	46.5	250		01/31/17 07:07	74-97-5	
Bromodichloromethane	<250	ug/L	250	60.0	250		01/31/17 07:07	75-27-4	
Bromoform	<1000	ug/L	1000	68.5	250		01/31/17 07:07	75-25-2	
Bromomethane	<1000	ug/L	1000	111	250		01/31/17 07:07	74-83-9	
2-Butanone (MEK)	<1250	ug/L	1250	275	250		01/31/17 07:07	78-93-3	
n-Butylbenzene	<250	ug/L	250	40.0	250		01/31/17 07:07	104-51-8	
sec-Butylbenzene	<250	ug/L	250	47.2	250		01/31/17 07:07	135-98-8	
tert-Butylbenzene	<250	ug/L	250	55.8	250		01/31/17 07:07	98-06-6	
Carbon tetrachloride	<250	ug/L	250	49.2	250		01/31/17 07:07	56-23-5	
Chlorobenzene	<250	ug/L	250	28.5	250		01/31/17 07:07	108-90-7	
Chloroethane	<250	ug/L	250	85.5	250		01/31/17 07:07	75-00-3	
Chloroform	<250	ug/L	250	52.5	250		01/31/17 07:07	67-66-3	
Chloromethane	<1000	ug/L	1000	61.5	250		01/31/17 07:07	74-87-3	
2-Chlorotoluene	<250	ug/L	250	73.8	250		01/31/17 07:07	95-49-8	
4-Chlorotoluene	<250	ug/L	250	63.8	250		01/31/17 07:07	106-43-4	
1,2-Dibromo-3-chloropropane	<1000	ug/L	1000	150	250		01/31/17 07:07	96-12-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

Sample: MW-7\_20170124 Lab ID: 10377221001 Collected: 01/24/17 09:15 Received: 01/25/17 18:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Dibromochloromethane	<250	ug/L	250	39.2	250		01/31/17 07:07	124-48-1	
1,2-Dibromoethane (EDB)	<250	ug/L	250	50.0	250		01/31/17 07:07	106-93-4	
Dibromomethane	<1000	ug/L	1000	48.5	250		01/31/17 07:07	74-95-3	
1,2-Dichlorobenzene	<250	ug/L	250	42.8	250		01/31/17 07:07	95-50-1	
1,3-Dichlorobenzene	<250	ug/L	250	28.8	250		01/31/17 07:07	541-73-1	
1,4-Dichlorobenzene	<250	ug/L	250	52.8	250		01/31/17 07:07	106-46-7	
Dichlorodifluoromethane	<250	ug/L	250	56.5	250		01/31/17 07:07	75-71-8	
1,1-Dichloroethane	<250	ug/L	250	42.8	250		01/31/17 07:07	75-34-3	
1,2-Dichloroethane	<250	ug/L	250	42.5	250		01/31/17 07:07	107-06-2	
1,1-Dichloroethene	<250	ug/L	250	69.2	250		01/31/17 07:07	75-35-4	
cis-1,2-Dichloroethene	<250	ug/L	250	30.0	250		01/31/17 07:07	156-59-2	
trans-1,2-Dichloroethene	<250	ug/L	250	40.5	250		01/31/17 07:07	156-60-5	
Dichlorofluoromethane	<250	ug/L	250	53.5	250		01/31/17 07:07	75-43-4	
1,2-Dichloropropane	<1000	ug/L	1000	55.5	250		01/31/17 07:07	78-87-5	
1,3-Dichloropropane	<250	ug/L	250	24.0	250		01/31/17 07:07	142-28-9	
2,2-Dichloropropane	<1000	ug/L	1000	32.0	250		01/31/17 07:07	594-20-7	
1,1-Dichloropropene	<250	ug/L	250	56.8	250		01/31/17 07:07	563-58-6	
cis-1,3-Dichloropropene	<1000	ug/L	1000	37.5	250		01/31/17 07:07	10061-01-5	
trans-1,3-Dichloropropene	<1000	ug/L	1000	36.8	250		01/31/17 07:07	10061-02-6	
Diethyl ether (Ethyl ether)	<1000	ug/L	1000	48.5	250		01/31/17 07:07	60-29-7	
Ethylbenzene	2970	ug/L	250	38.0	250		01/31/17 07:07	100-41-4	
Hexachloro-1,3-butadiene	<1000	ug/L	1000	44.5	250		01/31/17 07:07	87-68-3	
Isopropylbenzene (Cumene)	<250	ug/L	250	63.2	250		01/31/17 07:07	98-82-8	
p-Isopropyltoluene	<250	ug/L	250	48.5	250		01/31/17 07:07	99-87-6	
Methylene Chloride	<1000	ug/L	1000	73.2	250		01/31/17 07:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1250	ug/L	1250	108	250		01/31/17 07:07	108-10-1	
Methyl-tert-butyl ether	<250	ug/L	250	37.2	250		01/31/17 07:07	1634-04-4	
Naphthalene	<1000	ug/L	1000	51.0	250		01/31/17 07:07	91-20-3	
n-Propylbenzene	<250	ug/L	250	58.2	250		01/31/17 07:07	103-65-1	
Styrene	2290	ug/L	250	71.5	250		01/31/17 07:07	100-42-5	
1,1,1,2-Tetrachloroethane	<250	ug/L	250	41.5	250		01/31/17 07:07	630-20-6	
1,1,2,2-Tetrachloroethane	<250	ug/L	250	56.2	250		01/31/17 07:07	79-34-5	
Tetrachloroethene	<250	ug/L	250	63.2	250		01/31/17 07:07	127-18-4	
Tetrahydrofuran	<2500	ug/L	2500	375	250		01/31/17 07:07	109-99-9	
Toluene	58900	ug/L	250	36.2	250		01/31/17 07:07	108-88-3	
1,2,3-Trichlorobenzene	<250	ug/L	250	53.2	250		01/31/17 07:07	87-61-6	
1,2,4-Trichlorobenzene	<250	ug/L	250	53.2	250		01/31/17 07:07	120-82-1	
1,1,1-Trichloroethane	<250	ug/L	250	42.5	250		01/31/17 07:07	71-55-6	
1,1,2-Trichloroethane	<250	ug/L	250	38.0	250		01/31/17 07:07	79-00-5	
Trichloroethene	<100	ug/L	100	13.0	250		01/31/17 07:07	79-01-6	
Trichlorofluoromethane	<250	ug/L	250	81.5	250		01/31/17 07:07	75-69-4	L3
1,2,3-Trichloropropane	<1000	ug/L	1000	71.0	250		01/31/17 07:07	96-18-4	
1,1,2-Trichlorotrifluoroethane	<250	ug/L	250	80.0	250		01/31/17 07:07	76-13-1	L3
1,2,4-Trimethylbenzene	388	ug/L	250	44.5	250		01/31/17 07:07	95-63-6	
1,3,5-Trimethylbenzene	<250	ug/L	250	67.2	250		01/31/17 07:07	108-67-8	
Vinyl chloride	<50.0	ug/L	50.0	17.2	250		01/31/17 07:07	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

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**Sample: MW-7\_20170124**      **Lab ID: 10377221001**      Collected: 01/24/17 09:15      Received: 01/25/17 18:15      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<b>19600</b>	ug/L	750	78.8	250		01/31/17 07:07	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	96	%	75-125		250		01/31/17 07:07	17060-07-0	
Toluene-d8 (S)	93	%	75-125		250		01/31/17 07:07	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		250		01/31/17 07:07	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

Sample: MW-6\_20170124 Lab ID: 10377221002 Collected: 01/24/17 10:05 Received: 01/25/17 18:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI Preparation Method: EPA Mod. 3510C									
Acenaphthene	1.3	ug/L	0.032	0.0095	1	01/30/17 14:23	02/04/17 06:13	83-32-9	L2,N2
Acenaphthylene	0.057	ug/L	0.031	0.0092	1	01/30/17 14:23	02/04/17 06:13	208-96-8	N2
Anthracene	0.11	ug/L	0.027	0.0082	1	01/30/17 14:23	02/04/17 06:13	120-12-7	N2
Benzo(a)anthracene	<0.033	ug/L	0.033	0.0098	1	01/30/17 14:23	02/04/17 06:13	56-55-3	L2,N2
Benzo(a)pyrene	<0.0083	ug/L	0.0083	0.0025	1	01/30/17 14:23	02/04/17 06:13	50-32-8	N2
Benzo(b)fluoranthene	<0.0057	ug/L	0.0057	0.0017	1	01/30/17 14:23	02/04/17 06:13	205-99-2	N2
Benzo(e)pyrene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/04/17 06:13	192-97-2	N2
Benzo(g,h,i)perylene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/04/17 06:13	191-24-2	N2
Benzo(k)fluoranthene	<0.033	ug/L	0.033	0.0099	1	01/30/17 14:23	02/04/17 06:13	207-08-9	N2
2-Chloronaphthalene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:23	02/04/17 06:13	91-58-7	N2
Chrysene	<0.0080	ug/L	0.0080	0.0024	1	01/30/17 14:23	02/04/17 06:13	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:23	02/04/17 06:13	53-70-3	N2
Dibenzofuran	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:23	02/04/17 06:13	132-64-9	N2
Fluoranthene	0.26	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 06:13	206-44-0	N2
Fluorene	0.14	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 06:13	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.0047	0.0014	1	01/30/17 14:23	02/04/17 06:13	193-39-5	N2
1-Methylnaphthalene	0.92	ug/L	0.023	0.0069	1	01/30/17 14:23	02/04/17 06:13	90-12-0	N2
2-Methylnaphthalene	0.50	ug/L	0.037	0.011	1	01/30/17 14:23	02/04/17 06:13	91-57-6	N2
Naphthalene	2.1	ug/L	0.040	0.012	1	01/30/17 14:23	02/04/17 06:13	91-20-3	N2
Phenanthrene	0.58	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 06:13	85-01-8	N2
Pyrene	0.34	ug/L	0.0097	0.0029	1	01/30/17 14:23	02/04/17 06:13	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	60	%	48-125		1	01/30/17 14:23	02/04/17 06:13	321-60-8	H5,N2
p-Terphenyl-d14 (S)	63	%	51-125		1	01/30/17 14:23	02/04/17 06:13	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	28.4	ug/L	20.0	2.0	1		01/31/17 02:40	67-64-1	
Allyl chloride	<4.0	ug/L	4.0	0.25	1		01/31/17 02:40	107-05-1	
Benzene	1.5	ug/L	1.0	0.16	1		01/31/17 02:40	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		01/31/17 02:40	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		01/31/17 02:40	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		01/31/17 02:40	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		01/31/17 02:40	75-25-2	
Bromomethane	<4.0	ug/L	4.0	0.44	1		01/31/17 02:40	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		01/31/17 02:40	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		01/31/17 02:40	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.19	1		01/31/17 02:40	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		01/31/17 02:40	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		01/31/17 02:40	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		01/31/17 02:40	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.34	1		01/31/17 02:40	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		01/31/17 02:40	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		01/31/17 02:40	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		01/31/17 02:40	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		01/31/17 02:40	106-43-4	
1,2-Dibromo-3-chloropropane	<4.0	ug/L	4.0	0.60	1		01/31/17 02:40	96-12-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

Sample: MW-6\_20170124 Lab ID: 10377221002 Collected: 01/24/17 10:05 Received: 01/25/17 18:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<1.0	ug/L	1.0	0.16	1		01/31/17 02:40	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		01/31/17 02:40	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		01/31/17 02:40	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		01/31/17 02:40	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		01/31/17 02:40	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 02:40	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		01/31/17 02:40	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 02:40	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 02:40	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		01/31/17 02:40	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		01/31/17 02:40	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		01/31/17 02:40	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		01/31/17 02:40	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		01/31/17 02:40	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		01/31/17 02:40	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		01/31/17 02:40	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		01/31/17 02:40	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 02:40	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 02:40	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		01/31/17 02:40	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		01/31/17 02:40	100-41-4	
Hexachloro-1,3-butadiene	<4.0	ug/L	4.0	0.18	1		01/31/17 02:40	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		01/31/17 02:40	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.19	1		01/31/17 02:40	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		01/31/17 02:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		01/31/17 02:40	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		01/31/17 02:40	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		01/31/17 02:40	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		01/31/17 02:40	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		01/31/17 02:40	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 02:40	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		01/31/17 02:40	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		01/31/17 02:40	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		01/31/17 02:40	109-99-9	
Toluene	<1.0	ug/L	1.0	0.14	1		01/31/17 02:40	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 02:40	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 02:40	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 02:40	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		01/31/17 02:40	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		01/31/17 02:40	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		01/31/17 02:40	75-69-4	L3
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		01/31/17 02:40	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	0.32	1		01/31/17 02:40	76-13-1	L3
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		01/31/17 02:40	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		01/31/17 02:40	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		01/31/17 02:40	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

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**Sample: MW-6\_20170124**      **Lab ID: 10377221002**      Collected: 01/24/17 10:05      Received: 01/25/17 18:15      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<3.0	ug/L	3.0	0.32	1		01/31/17 02:40	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	97	%	75-125		1		01/31/17 02:40	17060-07-0	
Toluene-d8 (S)	93	%	75-125		1		01/31/17 02:40	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1		01/31/17 02:40	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

Sample: MW-5\_20170124 Lab ID: 10377221003 Collected: 01/24/17 11:25 Received: 01/25/17 18:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI Preparation Method: EPA Mod. 3510C									
Acenaphthene	0.46	ug/L	0.032	0.0095	1	01/30/17 14:23	02/04/17 08:11	83-32-9	L2,N2
Acenaphthylene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:23	02/04/17 08:11	208-96-8	N2
Anthracene	0.045	ug/L	0.027	0.0082	1	01/30/17 14:23	02/04/17 08:11	120-12-7	N2
Benzo(a)anthracene	<0.033	ug/L	0.033	0.0098	1	01/30/17 14:23	02/04/17 08:11	56-55-3	L2,N2
Benzo(a)pyrene	<0.0083	ug/L	0.0083	0.0025	1	01/30/17 14:23	02/04/17 08:11	50-32-8	N2
Benzo(b)fluoranthene	<0.0057	ug/L	0.0057	0.0017	1	01/30/17 14:23	02/04/17 08:11	205-99-2	N2
Benzo(e)pyrene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/04/17 08:11	192-97-2	N2
Benzo(g,h,i)perylene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/04/17 08:11	191-24-2	N2
Benzo(k)fluoranthene	<0.033	ug/L	0.033	0.0099	1	01/30/17 14:23	02/04/17 08:11	207-08-9	N2
2-Chloronaphthalene	0.069	ug/L	0.031	0.0092	1	01/30/17 14:23	02/04/17 08:11	91-58-7	N2
Chrysene	<0.0080	ug/L	0.0080	0.0024	1	01/30/17 14:23	02/04/17 08:11	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:23	02/04/17 08:11	53-70-3	N2
Dibenzofuran	0.15	ug/L	0.032	0.0095	1	01/30/17 14:23	02/04/17 08:11	132-64-9	N2
Fluoranthene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 08:11	206-44-0	N2
Fluorene	0.22	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 08:11	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.0047	0.0014	1	01/30/17 14:23	02/04/17 08:11	193-39-5	N2
1-Methylnaphthalene	0.21	ug/L	0.023	0.0069	1	01/30/17 14:23	02/04/17 08:11	90-12-0	N2
2-Methylnaphthalene	0.16	ug/L	0.037	0.011	1	01/30/17 14:23	02/04/17 08:11	91-57-6	N2
Naphthalene	1.3	ug/L	0.040	0.012	1	01/30/17 14:23	02/04/17 08:11	91-20-3	N2
Phenanthrene	0.12	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 08:11	85-01-8	N2
Pyrene	<0.0097	ug/L	0.0097	0.0029	1	01/30/17 14:23	02/04/17 08:11	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	69	%	48-125		1	01/30/17 14:23	02/04/17 08:11	321-60-8	H5,N2
p-Terphenyl-d14 (S)	72	%	51-125		1	01/30/17 14:23	02/04/17 08:11	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		01/31/17 03:03	67-64-1	
Allyl chloride	<4.0	ug/L	4.0	0.25	1		01/31/17 03:03	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		01/31/17 03:03	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		01/31/17 03:03	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		01/31/17 03:03	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		01/31/17 03:03	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		01/31/17 03:03	75-25-2	
Bromomethane	<4.0	ug/L	4.0	0.44	1		01/31/17 03:03	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		01/31/17 03:03	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		01/31/17 03:03	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.19	1		01/31/17 03:03	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		01/31/17 03:03	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		01/31/17 03:03	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		01/31/17 03:03	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.34	1		01/31/17 03:03	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		01/31/17 03:03	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		01/31/17 03:03	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		01/31/17 03:03	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		01/31/17 03:03	106-43-4	
1,2-Dibromo-3-chloropropane	<4.0	ug/L	4.0	0.60	1		01/31/17 03:03	96-12-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

Sample: MW-5\_20170124 Lab ID: 10377221003 Collected: 01/24/17 11:25 Received: 01/25/17 18:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Dibromochloromethane	<1.0	ug/L	1.0	0.16	1		01/31/17 03:03	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		01/31/17 03:03	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		01/31/17 03:03	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		01/31/17 03:03	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		01/31/17 03:03	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 03:03	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		01/31/17 03:03	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 03:03	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 03:03	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		01/31/17 03:03	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		01/31/17 03:03	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		01/31/17 03:03	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		01/31/17 03:03	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		01/31/17 03:03	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		01/31/17 03:03	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		01/31/17 03:03	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		01/31/17 03:03	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 03:03	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 03:03	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		01/31/17 03:03	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		01/31/17 03:03	100-41-4	
Hexachloro-1,3-butadiene	<4.0	ug/L	4.0	0.18	1		01/31/17 03:03	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		01/31/17 03:03	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.19	1		01/31/17 03:03	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		01/31/17 03:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		01/31/17 03:03	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		01/31/17 03:03	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		01/31/17 03:03	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		01/31/17 03:03	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		01/31/17 03:03	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 03:03	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		01/31/17 03:03	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		01/31/17 03:03	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		01/31/17 03:03	109-99-9	
Toluene	<1.0	ug/L	1.0	0.14	1		01/31/17 03:03	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 03:03	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 03:03	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 03:03	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		01/31/17 03:03	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		01/31/17 03:03	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		01/31/17 03:03	75-69-4	L3
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		01/31/17 03:03	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	0.32	1		01/31/17 03:03	76-13-1	L3
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		01/31/17 03:03	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		01/31/17 03:03	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		01/31/17 03:03	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

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**Sample: MW-5\_20170124**      **Lab ID: 10377221003**      Collected: 01/24/17 11:25      Received: 01/25/17 18:15      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<3.0	ug/L	3.0	0.32	1		01/31/17 03:03	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	98	%	75-125		1		01/31/17 03:03	17060-07-0	
Toluene-d8 (S)	92	%	75-125		1		01/31/17 03:03	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1		01/31/17 03:03	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

Sample: MW-11\_20170124 Lab ID: 10377221004 Collected: 01/24/17 13:00 Received: 01/25/17 18:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI Preparation Method: EPA Mod. 3510C									
Acenaphthene	6.1	ug/L	0.16	0.048	5	01/30/17 14:23	02/04/17 08:59	83-32-9	L2,N2
Acenaphthylene	0.046	ug/L	0.031	0.0092	1	01/30/17 14:23	02/04/17 08:35	208-96-8	N2
Anthracene	0.091	ug/L	0.027	0.0082	1	01/30/17 14:23	02/04/17 08:35	120-12-7	N2
Benzo(a)anthracene	<0.033	ug/L	0.033	0.0098	1	01/30/17 14:23	02/04/17 08:35	56-55-3	L2,N2
Benzo(a)pyrene	<0.0083	ug/L	0.0083	0.0025	1	01/30/17 14:23	02/04/17 08:35	50-32-8	N2
Benzo(b)fluoranthene	<0.0057	ug/L	0.0057	0.0017	1	01/30/17 14:23	02/04/17 08:35	205-99-2	N2
Benzo(e)pyrene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/04/17 08:35	192-97-2	N2
Benzo(g,h,i)perylene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/04/17 08:35	191-24-2	N2
Benzo(k)fluoranthene	<0.033	ug/L	0.033	0.0099	1	01/30/17 14:23	02/04/17 08:35	207-08-9	N2
2-Chloronaphthalene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:23	02/04/17 08:35	91-58-7	N2
Chrysene	<0.0080	ug/L	0.0080	0.0024	1	01/30/17 14:23	02/04/17 08:35	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:23	02/04/17 08:35	53-70-3	N2
Dibenzofuran	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:23	02/04/17 08:35	132-64-9	N2
Fluoranthene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 08:35	206-44-0	N2
Fluorene	1.2	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 08:35	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.0047	0.0014	1	01/30/17 14:23	02/04/17 08:35	193-39-5	N2
1-Methylnaphthalene	3.9	ug/L	0.023	0.0069	1	01/30/17 14:23	02/04/17 08:35	90-12-0	N2
2-Methylnaphthalene	0.18	ug/L	0.037	0.011	1	01/30/17 14:23	02/04/17 08:35	91-57-6	N2
Naphthalene	0.26	ug/L	0.040	0.012	1	01/30/17 14:23	02/04/17 08:35	91-20-3	N2
Phenanthrene	0.62	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 08:35	85-01-8	N2
Pyrene	<0.0097	ug/L	0.0097	0.0029	1	01/30/17 14:23	02/04/17 08:35	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	70	%	48-125		1	01/30/17 14:23	02/04/17 08:35	321-60-8	H5,N2
p-Terphenyl-d14 (S)	74	%	51-125		1	01/30/17 14:23	02/04/17 08:35	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		01/31/17 03:25	67-64-1	
Allyl chloride	<4.0	ug/L	4.0	0.25	1		01/31/17 03:25	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		01/31/17 03:25	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		01/31/17 03:25	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		01/31/17 03:25	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		01/31/17 03:25	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		01/31/17 03:25	75-25-2	
Bromomethane	<4.0	ug/L	4.0	0.44	1		01/31/17 03:25	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		01/31/17 03:25	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		01/31/17 03:25	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.19	1		01/31/17 03:25	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		01/31/17 03:25	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		01/31/17 03:25	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		01/31/17 03:25	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.34	1		01/31/17 03:25	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		01/31/17 03:25	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		01/31/17 03:25	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		01/31/17 03:25	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		01/31/17 03:25	106-43-4	
1,2-Dibromo-3-chloropropane	<4.0	ug/L	4.0	0.60	1		01/31/17 03:25	96-12-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

Sample: MW-11\_20170124 Lab ID: 10377221004 Collected: 01/24/17 13:00 Received: 01/25/17 18:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<1.0	ug/L	1.0	0.16	1		01/31/17 03:25	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		01/31/17 03:25	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		01/31/17 03:25	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		01/31/17 03:25	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		01/31/17 03:25	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 03:25	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		01/31/17 03:25	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 03:25	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 03:25	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		01/31/17 03:25	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		01/31/17 03:25	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		01/31/17 03:25	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		01/31/17 03:25	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		01/31/17 03:25	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		01/31/17 03:25	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		01/31/17 03:25	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		01/31/17 03:25	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 03:25	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 03:25	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		01/31/17 03:25	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		01/31/17 03:25	100-41-4	
Hexachloro-1,3-butadiene	<4.0	ug/L	4.0	0.18	1		01/31/17 03:25	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		01/31/17 03:25	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.19	1		01/31/17 03:25	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		01/31/17 03:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		01/31/17 03:25	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		01/31/17 03:25	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		01/31/17 03:25	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		01/31/17 03:25	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		01/31/17 03:25	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 03:25	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		01/31/17 03:25	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		01/31/17 03:25	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		01/31/17 03:25	109-99-9	
Toluene	<1.0	ug/L	1.0	0.14	1		01/31/17 03:25	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 03:25	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 03:25	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 03:25	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		01/31/17 03:25	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		01/31/17 03:25	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		01/31/17 03:25	75-69-4	L3
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		01/31/17 03:25	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	0.32	1		01/31/17 03:25	76-13-1	L3
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		01/31/17 03:25	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		01/31/17 03:25	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		01/31/17 03:25	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

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**Sample:** MW-11\_20170124      **Lab ID:** 10377221004      Collected: 01/24/17 13:00      Received: 01/25/17 18:15      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<3.0	ug/L	3.0	0.32	1		01/31/17 03:25	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	99	%	75-125		1		01/31/17 03:25	17060-07-0	
Toluene-d8 (S)	93	%	75-125		1		01/31/17 03:25	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1		01/31/17 03:25	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

Sample: MW-23\_20170124 Lab ID: 10377221005 Collected: 01/24/17 13:45 Received: 01/25/17 18:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI					Preparation Method: EPA Mod. 3510C				
Acenaphthene	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:23	02/04/17 09:23	83-32-9	L2,N2
Acenaphthylene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:23	02/04/17 09:23	208-96-8	N2
Anthracene	<0.027	ug/L	0.027	0.0082	1	01/30/17 14:23	02/04/17 09:23	120-12-7	N2
Benzo(a)anthracene	<0.033	ug/L	0.033	0.0098	1	01/30/17 14:23	02/04/17 09:23	56-55-3	L2,N2
Benzo(a)pyrene	<0.0083	ug/L	0.0083	0.0025	1	01/30/17 14:23	02/04/17 09:23	50-32-8	N2
Benzo(b)fluoranthene	<0.0057	ug/L	0.0057	0.0017	1	01/30/17 14:23	02/04/17 09:23	205-99-2	N2
Benzo(e)pyrene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/04/17 09:23	192-97-2	N2
Benzo(g,h,i)perylene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/04/17 09:23	191-24-2	N2
Benzo(k)fluoranthene	<0.033	ug/L	0.033	0.0099	1	01/30/17 14:23	02/04/17 09:23	207-08-9	N2
2-Chloronaphthalene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:23	02/04/17 09:23	91-58-7	N2
Chrysene	<0.0080	ug/L	0.0080	0.0024	1	01/30/17 14:23	02/04/17 09:23	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:23	02/04/17 09:23	53-70-3	N2
Dibenzofuran	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:23	02/04/17 09:23	132-64-9	N2
Fluoranthene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 09:23	206-44-0	N2
Fluorene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 09:23	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.0047	0.0014	1	01/30/17 14:23	02/04/17 09:23	193-39-5	N2
1-Methylnaphthalene	<0.023	ug/L	0.023	0.0069	1	01/30/17 14:23	02/04/17 09:23	90-12-0	N2
2-Methylnaphthalene	<0.037	ug/L	0.037	0.011	1	01/30/17 14:23	02/04/17 09:23	91-57-6	N2
Naphthalene	<0.040	ug/L	0.040	0.012	1	01/30/17 14:23	02/04/17 09:23	91-20-3	N2
Phenanthrene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 09:23	85-01-8	N2
Pyrene	0.043	ug/L	0.0097	0.0029	1	01/30/17 14:23	02/04/17 09:23	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	68	%	48-125		1	01/30/17 14:23	02/04/17 09:23	321-60-8	H5,N2
p-Terphenyl-d14 (S)	71	%	51-125		1	01/30/17 14:23	02/04/17 09:23	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		01/31/17 06:00	67-64-1	
Allyl chloride	<4.0	ug/L	4.0	0.25	1		01/31/17 06:00	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		01/31/17 06:00	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		01/31/17 06:00	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		01/31/17 06:00	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		01/31/17 06:00	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		01/31/17 06:00	75-25-2	
Bromomethane	<4.0	ug/L	4.0	0.44	1		01/31/17 06:00	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		01/31/17 06:00	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		01/31/17 06:00	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.19	1		01/31/17 06:00	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		01/31/17 06:00	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		01/31/17 06:00	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		01/31/17 06:00	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.34	1		01/31/17 06:00	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		01/31/17 06:00	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		01/31/17 06:00	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		01/31/17 06:00	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		01/31/17 06:00	106-43-4	
1,2-Dibromo-3-chloropropane	<4.0	ug/L	4.0	0.60	1		01/31/17 06:00	96-12-8	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

Sample: MW-23\_20170124 Lab ID: 10377221005 Collected: 01/24/17 13:45 Received: 01/25/17 18:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Dibromochloromethane	<1.0	ug/L	1.0	0.16	1		01/31/17 06:00	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		01/31/17 06:00	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		01/31/17 06:00	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		01/31/17 06:00	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		01/31/17 06:00	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 06:00	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		01/31/17 06:00	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 06:00	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 06:00	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		01/31/17 06:00	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		01/31/17 06:00	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		01/31/17 06:00	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		01/31/17 06:00	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		01/31/17 06:00	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		01/31/17 06:00	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		01/31/17 06:00	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		01/31/17 06:00	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 06:00	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 06:00	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		01/31/17 06:00	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		01/31/17 06:00	100-41-4	
Hexachloro-1,3-butadiene	<4.0	ug/L	4.0	0.18	1		01/31/17 06:00	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		01/31/17 06:00	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.19	1		01/31/17 06:00	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		01/31/17 06:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		01/31/17 06:00	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		01/31/17 06:00	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		01/31/17 06:00	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		01/31/17 06:00	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		01/31/17 06:00	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 06:00	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		01/31/17 06:00	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		01/31/17 06:00	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		01/31/17 06:00	109-99-9	
Toluene	<1.0	ug/L	1.0	0.14	1		01/31/17 06:00	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 06:00	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 06:00	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 06:00	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		01/31/17 06:00	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		01/31/17 06:00	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		01/31/17 06:00	75-69-4	L3
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		01/31/17 06:00	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	0.32	1		01/31/17 06:00	76-13-1	L3
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		01/31/17 06:00	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		01/31/17 06:00	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		01/31/17 06:00	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

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**Sample: MW-23\_20170124**      **Lab ID: 10377221005**      Collected: 01/24/17 13:45      Received: 01/25/17 18:15      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<3.0	ug/L	3.0	0.32	1		01/31/17 06:00	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	97	%	75-125		1		01/31/17 06:00	17060-07-0	
Toluene-d8 (S)	93	%	75-125		1		01/31/17 06:00	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		1		01/31/17 06:00	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

Sample: **MW-24\_20170124** Lab ID: **10377221006** Collected: 01/24/17 15:15 Received: 01/25/17 18:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI Preparation Method: EPA Mod. 3510C									
Acenaphthene	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:23	02/04/17 09:46	83-32-9	L2,N2
Acenaphthylene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:23	02/04/17 09:46	208-96-8	N2
Anthracene	<0.027	ug/L	0.027	0.0082	1	01/30/17 14:23	02/04/17 09:46	120-12-7	N2
Benzo(a)anthracene	<0.033	ug/L	0.033	0.0098	1	01/30/17 14:23	02/04/17 09:46	56-55-3	L2,N2
Benzo(a)pyrene	<0.0083	ug/L	0.0083	0.0025	1	01/30/17 14:23	02/04/17 09:46	50-32-8	N2
Benzo(b)fluoranthene	<0.0057	ug/L	0.0057	0.0017	1	01/30/17 14:23	02/04/17 09:46	205-99-2	N2
Benzo(e)pyrene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/04/17 09:46	192-97-2	N2
Benzo(g,h,i)perylene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/04/17 09:46	191-24-2	N2
Benzo(k)fluoranthene	<0.033	ug/L	0.033	0.0099	1	01/30/17 14:23	02/04/17 09:46	207-08-9	N2
2-Chloronaphthalene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:23	02/04/17 09:46	91-58-7	N2
Chrysene	<0.0080	ug/L	0.0080	0.0024	1	01/30/17 14:23	02/04/17 09:46	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:23	02/04/17 09:46	53-70-3	N2
Dibenzofuran	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:23	02/04/17 09:46	132-64-9	N2
Fluoranthene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 09:46	206-44-0	N2
Fluorene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 09:46	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.0047	0.0014	1	01/30/17 14:23	02/04/17 09:46	193-39-5	N2
1-Methylnaphthalene	<0.023	ug/L	0.023	0.0069	1	01/30/17 14:23	02/04/17 09:46	90-12-0	N2
2-Methylnaphthalene	<0.037	ug/L	0.037	0.011	1	01/30/17 14:23	02/04/17 09:46	91-57-6	N2
Naphthalene	<0.040	ug/L	0.040	0.012	1	01/30/17 14:23	02/04/17 09:46	91-20-3	N2
Phenanthrene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 09:46	85-01-8	N2
Pyrene	<0.0097	ug/L	0.0097	0.0029	1	01/30/17 14:23	02/04/17 09:46	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	71	%	48-125		1	01/30/17 14:23	02/04/17 09:46	321-60-8	H5,N2
p-Terphenyl-d14 (S)	70	%	51-125		1	01/30/17 14:23	02/04/17 09:46	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		01/31/17 05:38	67-64-1	
Allyl chloride	<4.0	ug/L	4.0	0.25	1		01/31/17 05:38	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		01/31/17 05:38	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		01/31/17 05:38	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		01/31/17 05:38	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		01/31/17 05:38	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		01/31/17 05:38	75-25-2	
Bromomethane	<4.0	ug/L	4.0	0.44	1		01/31/17 05:38	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		01/31/17 05:38	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		01/31/17 05:38	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.19	1		01/31/17 05:38	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		01/31/17 05:38	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		01/31/17 05:38	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		01/31/17 05:38	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.34	1		01/31/17 05:38	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		01/31/17 05:38	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		01/31/17 05:38	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		01/31/17 05:38	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		01/31/17 05:38	106-43-4	
1,2-Dibromo-3-chloropropane	<4.0	ug/L	4.0	0.60	1		01/31/17 05:38	96-12-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

Sample: **MW-24\_20170124** Lab ID: **10377221006** Collected: 01/24/17 15:15 Received: 01/25/17 18:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<1.0	ug/L	1.0	0.16	1		01/31/17 05:38	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		01/31/17 05:38	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		01/31/17 05:38	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		01/31/17 05:38	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		01/31/17 05:38	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 05:38	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		01/31/17 05:38	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 05:38	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 05:38	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		01/31/17 05:38	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		01/31/17 05:38	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		01/31/17 05:38	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		01/31/17 05:38	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		01/31/17 05:38	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		01/31/17 05:38	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		01/31/17 05:38	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		01/31/17 05:38	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 05:38	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 05:38	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		01/31/17 05:38	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		01/31/17 05:38	100-41-4	
Hexachloro-1,3-butadiene	<4.0	ug/L	4.0	0.18	1		01/31/17 05:38	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		01/31/17 05:38	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.19	1		01/31/17 05:38	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		01/31/17 05:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		01/31/17 05:38	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		01/31/17 05:38	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		01/31/17 05:38	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		01/31/17 05:38	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		01/31/17 05:38	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 05:38	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		01/31/17 05:38	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		01/31/17 05:38	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		01/31/17 05:38	109-99-9	
Toluene	2.8	ug/L	1.0	0.14	1		01/31/17 05:38	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 05:38	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 05:38	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 05:38	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		01/31/17 05:38	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		01/31/17 05:38	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		01/31/17 05:38	75-69-4	L3
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		01/31/17 05:38	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	0.32	1		01/31/17 05:38	76-13-1	L3
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		01/31/17 05:38	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		01/31/17 05:38	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		01/31/17 05:38	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

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**Sample: MW-24\_20170124**      **Lab ID: 10377221006**      Collected: 01/24/17 15:15      Received: 01/25/17 18:15      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<3.0	ug/L	3.0	0.32	1		01/31/17 05:38	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	96	%	75-125		1		01/31/17 05:38	17060-07-0	
Toluene-d8 (S)	92	%	75-125		1		01/31/17 05:38	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1		01/31/17 05:38	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

QC Batch: 457926

Analysis Method: EPA 8260B

QC Batch Method: EPA 8260B

Analysis Description: 8260B MSV 465 W

Associated Lab Samples: 10377221001, 10377221002, 10377221003, 10377221004, 10377221005, 10377221006

METHOD BLANK: 2506544

Matrix: Water

Associated Lab Samples: 10377221001, 10377221002, 10377221003, 10377221004, 10377221005, 10377221006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	01/30/17 23:21	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	01/30/17 23:21	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	01/30/17 23:21	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	01/30/17 23:21	
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	1.0	01/30/17 23:21	
1,1-Dichloroethane	ug/L	<1.0	1.0	01/30/17 23:21	
1,1-Dichloroethene	ug/L	<1.0	1.0	01/30/17 23:21	
1,1-Dichloropropene	ug/L	<1.0	1.0	01/30/17 23:21	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	01/30/17 23:21	
1,2,3-Trichloropropane	ug/L	<4.0	4.0	01/30/17 23:21	
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	01/30/17 23:21	
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	01/30/17 23:21	
1,2-Dibromo-3-chloropropane	ug/L	<4.0	4.0	01/30/17 23:21	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	01/30/17 23:21	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	01/30/17 23:21	
1,2-Dichloroethane	ug/L	<1.0	1.0	01/30/17 23:21	
1,2-Dichloropropane	ug/L	<4.0	4.0	01/30/17 23:21	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	01/30/17 23:21	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	01/30/17 23:21	
1,3-Dichloropropane	ug/L	<1.0	1.0	01/30/17 23:21	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	01/30/17 23:21	
2,2-Dichloropropane	ug/L	<4.0	4.0	01/30/17 23:21	
2-Butanone (MEK)	ug/L	<5.0	5.0	01/30/17 23:21	
2-Chlorotoluene	ug/L	<1.0	1.0	01/30/17 23:21	
4-Chlorotoluene	ug/L	<1.0	1.0	01/30/17 23:21	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	01/30/17 23:21	
Acetone	ug/L	<20.0	20.0	01/30/17 23:21	
Allyl chloride	ug/L	<4.0	4.0	01/30/17 23:21	
Benzene	ug/L	<1.0	1.0	01/30/17 23:21	
Bromobenzene	ug/L	<1.0	1.0	01/30/17 23:21	
Bromochloromethane	ug/L	<1.0	1.0	01/30/17 23:21	
Bromodichloromethane	ug/L	<1.0	1.0	01/30/17 23:21	
Bromoform	ug/L	<4.0	4.0	01/30/17 23:21	
Bromomethane	ug/L	<4.0	4.0	01/30/17 23:21	
Carbon tetrachloride	ug/L	<1.0	1.0	01/30/17 23:21	
Chlorobenzene	ug/L	<1.0	1.0	01/30/17 23:21	
Chloroethane	ug/L	<1.0	1.0	01/30/17 23:21	
Chloroform	ug/L	<1.0	1.0	01/30/17 23:21	
Chloromethane	ug/L	<4.0	4.0	01/30/17 23:21	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	01/30/17 23:21	
cis-1,3-Dichloropropene	ug/L	<4.0	4.0	01/30/17 23:21	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

METHOD BLANK: 2506544

Matrix: Water

Associated Lab Samples: 10377221001, 10377221002, 10377221003, 10377221004, 10377221005, 10377221006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<1.0	1.0	01/30/17 23:21	
Dibromomethane	ug/L	<4.0	4.0	01/30/17 23:21	
Dichlorodifluoromethane	ug/L	<1.0	1.0	01/30/17 23:21	
Dichlorofluoromethane	ug/L	<1.0	1.0	01/30/17 23:21	
Diethyl ether (Ethyl ether)	ug/L	<4.0	4.0	01/30/17 23:21	
Ethylbenzene	ug/L	<1.0	1.0	01/30/17 23:21	
Hexachloro-1,3-butadiene	ug/L	<4.0	4.0	01/30/17 23:21	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	01/30/17 23:21	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	01/30/17 23:21	
Methylene Chloride	ug/L	<4.0	4.0	01/30/17 23:21	
n-Butylbenzene	ug/L	<1.0	1.0	01/30/17 23:21	
n-Propylbenzene	ug/L	<1.0	1.0	01/30/17 23:21	
Naphthalene	ug/L	<4.0	4.0	01/30/17 23:21	
p-Isopropyltoluene	ug/L	<1.0	1.0	01/30/17 23:21	
sec-Butylbenzene	ug/L	<1.0	1.0	01/30/17 23:21	
Styrene	ug/L	<1.0	1.0	01/30/17 23:21	
tert-Butylbenzene	ug/L	<1.0	1.0	01/30/17 23:21	
Tetrachloroethene	ug/L	<1.0	1.0	01/30/17 23:21	
Tetrahydrofuran	ug/L	<10.0	10.0	01/30/17 23:21	
Toluene	ug/L	<1.0	1.0	01/30/17 23:21	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	01/30/17 23:21	
trans-1,3-Dichloropropene	ug/L	<4.0	4.0	01/30/17 23:21	
Trichloroethene	ug/L	<0.40	0.40	01/30/17 23:21	
Trichlorofluoromethane	ug/L	<1.0	1.0	01/30/17 23:21	
Vinyl chloride	ug/L	<0.20	0.20	01/30/17 23:21	
Xylene (Total)	ug/L	<3.0	3.0	01/30/17 23:21	
1,2-Dichloroethane-d4 (S)	%	95	75-125	01/30/17 23:21	
4-Bromofluorobenzene (S)	%	99	75-125	01/30/17 23:21	
Toluene-d8 (S)	%	92	75-125	01/30/17 23:21	

LABORATORY CONTROL SAMPLE & LCSD: 2506545

2506693

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.7	22.4	114	112	75-125	1	20	
1,1,1-Trichloroethane	ug/L	20	21.9	22.5	110	112	73-125	3	20	
1,1,2,2-Tetrachloroethane	ug/L	20	21.6	21.4	108	107	75-128	1	20	
1,1,2-Trichloroethane	ug/L	20	22.3	21.8	112	109	75-129	3	20	
1,1,2-Trichlorotrifluoroethane	ug/L	20	25.8	26.4	129	132	69-125	2	20	L0
1,1-Dichloroethane	ug/L	20	21.3	21.5	106	107	75-131	1	20	
1,1-Dichloroethene	ug/L	20	21.5	21.5	107	107	72-125	0	20	
1,1-Dichloropropene	ug/L	20	22.2	22.5	111	113	74-125	2	20	
1,2,3-Trichlorobenzene	ug/L	20	21.7	22.0	109	110	68-127	1	20	
1,2,3-Trichloropropane	ug/L	20	22.2	21.7	111	109	75-125	2	20	
1,2,4-Trichlorobenzene	ug/L	20	20.4	20.5	102	102	70-125	0	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

LABORATORY CONTROL SAMPLE & LCSD: 2506545		2506693									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1,2,4-Trimethylbenzene	ug/L	20	19.6	19.5	98	98	75-130	0	20		
1,2-Dibromo-3-chloropropane	ug/L	50	53.3	52.3	107	105	74-125	2	20		
1,2-Dibromoethane (EDB)	ug/L	20	22.3	21.8	112	109	75-125	2	20		
1,2-Dichlorobenzene	ug/L	20	21.9	21.6	110	108	75-125	1	20		
1,2-Dichloroethane	ug/L	20	20.7	20.8	103	104	72-129	1	20		
1,2-Dichloropropane	ug/L	20	21.8	21.7	109	109	71-129	1	20		
1,3,5-Trimethylbenzene	ug/L	20	20.0	19.9	100	99	75-127	0	20		
1,3-Dichlorobenzene	ug/L	20	21.4	21.4	107	107	75-125	0	20		
1,3-Dichloropropane	ug/L	20	21.0	21.3	105	107	75-125	1	20		
1,4-Dichlorobenzene	ug/L	20	21.6	21.5	108	107	75-125	0	20		
2,2-Dichloropropane	ug/L	20	19.5	19.7	97	98	71-125	1	20		
2-Butanone (MEK)	ug/L	100	97.2	96.9	97	97	58-150	0	20		
2-Chlorotoluene	ug/L	20	21.1	21.1	105	105	75-125	0	20		
4-Chlorotoluene	ug/L	20	20.2	20.3	101	102	75-130	0	20		
4-Methyl-2-pentanone (MIBK)	ug/L	100	93.2	90.7	93	91	72-140	3	20		
Acetone	ug/L	100	126	127	126	127	69-137	1	20		
Allyl chloride	ug/L	20	18.4	18.6	92	93	68-132	1	20		
Benzene	ug/L	20	20.6	20.7	103	104	75-125	1	20		
Bromobenzene	ug/L	20	22.6	22.5	113	113	75-125	1	20		
Bromochloromethane	ug/L	20	24.0	24.2	120	121	75-125	1	20		
Bromodichloromethane	ug/L	20	23.1	22.9	115	115	69-128	1	20		
Bromoform	ug/L	20	20.8	20.7	104	103	75-125	1	20		
Bromomethane	ug/L	20	23.7	24.8	119	124	30-150	4	20		
Carbon tetrachloride	ug/L	20	22.2	23.0	111	115	74-125	4	20		
Chlorobenzene	ug/L	20	21.1	21.0	105	105	75-125	0	20		
Chloroethane	ug/L	20	21.4	21.4	107	107	60-150	0	20		
Chloroform	ug/L	20	21.4	21.9	107	109	75-126	2	20		
Chloromethane	ug/L	20	20.3	20.2	102	101	46-150	1	20		
cis-1,2-Dichloroethene	ug/L	20	22.2	22.4	111	112	75-126	1	20		
cis-1,3-Dichloropropene	ug/L	20	20.9	20.6	105	103	75-125	2	20		
Dibromochloromethane	ug/L	20	23.0	22.9	115	114	75-125	0	20		
Dibromomethane	ug/L	20	23.3	23.1	117	116	72-127	1	20		
Dichlorodifluoromethane	ug/L	20	25.0	25.4	125	127	58-135	1	20		
Dichlorofluoromethane	ug/L	20	21.3	21.3	106	107	68-149	0	20		
Diethyl ether (Ethyl ether)	ug/L	20	21.9	22.1	110	110	66-144	1	20		
Ethylbenzene	ug/L	20	19.8	19.7	99	98	75-125	1	20		
Hexachloro-1,3-butadiene	ug/L	20	20.5	21.7	102	108	73-125	6	20		
Isopropylbenzene (Cumene)	ug/L	20	19.7	19.6	99	98	69-140	1	20		
Methyl-tert-butyl ether	ug/L	20	21.2	21.5	106	108	75-126	1	20		
Methylene Chloride	ug/L	20	22.3	22.7	111	113	71-130	2	20		
n-Butylbenzene	ug/L	20	18.6	19.1	93	95	71-129	2	20		
n-Propylbenzene	ug/L	20	19.7	19.8	99	99	71-133	0	20		
Naphthalene	ug/L	20	20.2	20.0	101	100	59-137	1	20		
p-Isopropyltoluene	ug/L	20	19.0	19.0	95	95	74-127	0	20		
sec-Butylbenzene	ug/L	20	19.8	19.7	99	99	66-140	0	20		
Styrene	ug/L	20	21.3	20.6	107	103	75-125	4	20		
tert-Butylbenzene	ug/L	20	19.7	19.3	99	97	73-129	2	20		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

LABORATORY CONTROL SAMPLE & LCSD: 2506545		2506693								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/L	20	22.3	22.1	111	110	75-125	1	20	
Tetrahydrofuran	ug/L	200	256	251	128	126	71-129	2	20	
Toluene	ug/L	20	20.4	20.3	102	101	75-125	1	20	
trans-1,2-Dichloroethene	ug/L	20	21.7	22.0	108	110	75-125	1	20	
trans-1,3-Dichloropropene	ug/L	20	20.8	20.3	104	101	75-125	3	20	
Trichloroethene	ug/L	20	23.0	22.8	115	114	75-125	1	20	
Trichlorofluoromethane	ug/L	20	26.1	26.2	131	131	74-128	0	20	LO
Vinyl chloride	ug/L	20	22.2	21.9	111	110	71-131	1	20	
Xylene (Total)	ug/L	60	61.0	60.6	102	101	75-125	1	20	
1,2-Dichloroethane-d4 (S)	%				94	97	75-125			
4-Bromofluorobenzene (S)	%				98	98	75-125			
Toluene-d8 (S)	%				94	93	75-125			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2506726		2506727									
Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10377633001 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	22.4	23.0	112	115	75-125	3	30
1,1,1-Trichloroethane	ug/L	ND	20	20	23.1	23.0	115	115	71-144	0	30
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.2	22.2	106	111	75-131	5	30
1,1,2-Trichloroethane	ug/L	ND	20	20	21.5	22.2	107	111	75-125	3	30
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	28.0	27.4	140	137	75-150	2	30
1,1-Dichloroethane	ug/L	ND	20	20	21.3	21.5	107	107	64-150	1	30
1,1-Dichloroethene	ug/L	ND	20	20	22.5	22.4	112	112	68-150	0	30
1,1-Dichloropropene	ug/L	ND	20	20	23.1	23.1	115	115	68-145	0	30
1,2,3-Trichlorobenzene	ug/L	ND	20	20	22.6	23.3	113	116	57-142	3	30
1,2,3-Trichloropropane	ug/L	ND	20	20	21.7	22.9	109	114	75-125	5	30
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.3	22.0	106	110	60-135	3	30
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.0	20.3	100	102	67-148	2	30
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	52.4	54.6	105	109	32-137	4	30
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.2	22.1	106	111	75-125	4	30
1,2-Dichlorobenzene	ug/L	ND	20	20	21.4	22.1	107	110	75-125	3	30
1,2-Dichloroethane	ug/L	ND	20	20	20.0	20.2	100	101	62-138	1	30
1,2-Dichloropropane	ug/L	ND	20	20	21.4	22.5	107	112	62-144	5	30
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.5	21.1	103	105	67-148	3	30
1,3-Dichlorobenzene	ug/L	ND	20	20	21.8	22.3	109	111	74-131	2	30
1,3-Dichloropropane	ug/L	ND	20	20	20.7	21.1	104	106	75-127	2	30
1,4-Dichlorobenzene	ug/L	ND	20	20	21.7	22.2	108	111	74-126	2	30
2,2-Dichloropropane	ug/L	ND	20	20	20.4	20.4	102	102	56-146	0	30
2-Butanone (MEK)	ug/L	ND	100	100	90.6	94.3	91	94	47-150	4	30
2-Chlorotoluene	ug/L	ND	20	20	21.8	22.5	109	112	74-137	3	30
4-Chlorotoluene	ug/L	ND	20	20	20.8	21.4	104	107	72-138	3	30
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	88.1	94.1	88	94	60-147	7	30
Acetone	ug/L	ND	100	100	123	124	123	124	61-150	1	30

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2506726												2506727											
Parameter	Units	10377633001		MS	MSD	MS		MSD		% Rec		Max		Qual									
		Result	Spike Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD											
Allyl chloride	ug/L	ND	20	20	20	18.8	18.7	94	93	53-150	1	30											
Benzene	ug/L	ND	20	20	20	20.8	21.0	104	105	52-147	1	30											
Bromobenzene	ug/L	ND	20	20	20	23.0	23.6	115	118	75-129	3	30											
Bromochloromethane	ug/L	ND	20	20	20	22.8	23.8	114	119	72-128	4	30											
Bromodichloromethane	ug/L	ND	20	20	20	23.2	23.9	116	120	65-137	3	30											
Bromoform	ug/L	ND	20	20	20	20.1	21.1	101	105	59-133	5	30											
Bromomethane	ug/L	ND	20	20	20	23.4	24.0	117	120	30-150	3	30											
Carbon tetrachloride	ug/L	ND	20	20	20	23.7	24.1	119	120	73-144	1	30											
Chlorobenzene	ug/L	ND	20	20	20	21.0	22.0	105	110	75-126	5	30											
Chloroethane	ug/L	ND	20	20	20	25.5	24.0	128	120	55-150	6	30											
Chloroform	ug/L	ND	20	20	20	21.0	21.4	105	107	66-143	2	30											
Chloromethane	ug/L	ND	20	20	20	19.5	19.3	97	97	42-150	1	30											
cis-1,2-Dichloroethene	ug/L	ND	20	20	20	22.4	22.1	112	110	65-143	1	30											
cis-1,3-Dichloropropene	ug/L	ND	20	20	20	20.1	20.8	100	104	75-125	4	30											
Dibromochloromethane	ug/L	ND	20	20	20	22.4	23.3	112	117	75-125	4	30											
Dibromomethane	ug/L	ND	20	20	20	22.8	23.2	114	116	66-133	2	30											
Dichlorodifluoromethane	ug/L	ND	20	20	20	26.3	26.8	132	134	74-150	2	30											
Dichlorofluoromethane	ug/L	ND	20	20	20	20.6	21.3	103	106	68-150	3	30											
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	20	20.6	20.8	103	104	57-148	1	30											
Ethylbenzene	ug/L	ND	20	20	20	20.1	20.7	101	103	67-149	3	30											
Hexachloro-1,3-butadiene	ug/L	ND	20	20	20	25.5	25.3	127	126	65-143	1	30											
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20	20.2	20.8	101	104	64-150	3	30											
Methyl-tert-butyl ether	ug/L	ND	20	20	20	19.9	20.7	100	103	71-130	4	30											
Methylene Chloride	ug/L	ND	20	20	20	21.5	21.8	108	109	67-137	1	30											
n-Butylbenzene	ug/L	ND	20	20	20	20.4	20.4	102	102	70-138	0	30											
n-Propylbenzene	ug/L	ND	20	20	20	20.8	21.2	104	106	70-148	2	30											
Naphthalene	ug/L	ND	20	20	20	19.7	20.8	98	104	39-150	5	30											
p-Isopropyltoluene	ug/L	ND	20	20	20	20.3	20.9	101	105	74-138	3	30											
sec-Butylbenzene	ug/L	ND	20	20	20	21.2	21.6	106	108	64-150	2	30											
Styrene	ug/L	ND	20	20	20	20.7	20.9	103	105	75-132	1	30											
tert-Butylbenzene	ug/L	ND	20	20	20	20.7	21.2	104	106	75-138	2	30											
Tetrachloroethene	ug/L	ND	20	20	20	23.1	23.6	115	118	73-136	2	30											
Tetrahydrofuran	ug/L	ND	200	200	200	248	253	124	127	68-142	2	30											
Toluene	ug/L	ND	20	20	20	20.9	21.3	104	106	69-139	2	30											
trans-1,2-Dichloroethene	ug/L	ND	20	20	20	22.4	22.2	112	111	75-135	1	30											
trans-1,3-Dichloropropene	ug/L	ND	20	20	20	20.0	20.9	100	105	66-136	4	30											
Trichloroethene	ug/L	ND	20	20	20	23.9	25.0	119	125	74-135	5	30											
Trichlorofluoromethane	ug/L	ND	20	20	20	26.7	26.8	134	134	75-150	0	30											
Vinyl chloride	ug/L	ND	20	20	20	22.7	22.9	114	115	69-150	1	30											
Xylene (Total)	ug/L	ND	60	60	60	60.9	62.5	102	104	70-147	3	30											
1,2-Dichloroethane-d4 (S)	%							94	92	75-125													
4-Bromofluorobenzene (S)	%							101	100	75-125													
Toluene-d8 (S)	%							94	94	75-125													

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP  
Pace Project No.: 10377221

QC Batch: 457876 Analysis Method: EPA 8270D by HVI  
QC Batch Method: EPA Mod. 3510C Analysis Description: 8270D Water PAH High Volume Injection  
Associated Lab Samples: 10377221001, 10377221002, 10377221003, 10377221004, 10377221005, 10377221006

METHOD BLANK: 2506348 Matrix: Water  
Associated Lab Samples: 10377221001, 10377221002, 10377221003, 10377221004, 10377221005, 10377221006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.023	0.023	02/04/17 01:29	N2
2-Chloronaphthalene	ug/L	<0.031	0.031	02/04/17 01:29	N2
2-Methylnaphthalene	ug/L	<0.037	0.037	02/04/17 01:29	N2
Acenaphthene	ug/L	<0.032	0.032	02/04/17 01:29	N2
Acenaphthylene	ug/L	<0.031	0.031	02/04/17 01:29	N2
Anthracene	ug/L	<0.027	0.027	02/04/17 01:29	N2
Benzo(a)anthracene	ug/L	<0.033	0.033	02/04/17 01:29	N2
Benzo(a)pyrene	ug/L	<0.0083	0.0083	02/04/17 01:29	N2
Benzo(b)fluoranthene	ug/L	<0.0057	0.0057	02/04/17 01:29	N2
Benzo(e)pyrene	ug/L	<0.0067	0.0067	02/04/17 01:29	N2
Benzo(g,h,i)perylene	ug/L	<0.0067	0.0067	02/04/17 01:29	N2
Benzo(k)fluoranthene	ug/L	<0.033	0.033	02/04/17 01:29	N2
Chrysene	ug/L	<0.0080	0.0080	02/04/17 01:29	N2
Dibenz(a,h)anthracene	ug/L	<0.026	0.026	02/04/17 01:29	N2
Dibenzofuran	ug/L	<0.032	0.032	02/04/17 01:29	N2
Fluoranthene	ug/L	<0.031	0.031	02/04/17 01:29	N2
Fluorene	ug/L	<0.031	0.031	02/04/17 01:29	N2
Indeno(1,2,3-cd)pyrene	ug/L	<0.0047	0.0047	02/04/17 01:29	N2
Naphthalene	ug/L	<0.040	0.040	02/04/17 01:29	N2
Phenanthrene	ug/L	<0.031	0.031	02/04/17 01:29	N2
Pyrene	ug/L	<0.0097	0.0097	02/04/17 01:29	N2
2-Fluorobiphenyl (S)	%	75	48-125	02/04/17 01:29	N2
p-Terphenyl-d14 (S)	%	76	51-125	02/04/17 01:29	N2

LABORATORY CONTROL SAMPLE & LCSD: 2506349

Parameter	Units	2506350								
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	1	0.57	0.65	57	65	46-125	13	20	N2
2-Chloronaphthalene	ug/L	1	0.58	0.68	58	68	46-125	17	20	N2
2-Methylnaphthalene	ug/L	1	0.56	0.64	56	64	43-125	13	20	N2
Acenaphthene	ug/L	1	0.54	0.63	54	63	57-125	15	20	L0,N2
Acenaphthylene	ug/L	1	0.55	0.64	55	64	52-125	15	20	N2
Anthracene	ug/L	1	0.59	0.70	59	70	58-125	18	20	N2
Benzo(a)anthracene	ug/L	1	0.56	0.67	56	67	58-125	18	20	L0,N2
Benzo(a)pyrene	ug/L	1	0.63	0.78	63	78	54-125	21	20	N2,R1
Benzo(b)fluoranthene	ug/L	1	0.61	0.81	61	81	49-125	28	20	N2,R1
Benzo(e)pyrene	ug/L	1	0.62	0.80	62	80	53-125	26	20	N2,R1
Benzo(g,h,i)perylene	ug/L	1	0.52	0.57	52	57	30-125	10	20	N2
Benzo(k)fluoranthene	ug/L	1	0.60	0.66	60	66	53-125	10	20	N2
Chrysene	ug/L	1	0.58	0.69	58	69	55-125	18	20	N2

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

Parameter	Units	Spike Conc.	2506349		2506350		% Rec Limits	RPD	Max RPD	Qualifiers
			LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
Dibenz(a,h)anthracene	ug/L	1	0.51	0.55	51	55	30-125	8	20	N2
Dibenzofuran	ug/L	1	0.60	0.70	60	70	52-125	15	20	N2
Fluoranthene	ug/L	1	0.56	0.66	56	66	49-125	18	20	N2
Fluorene	ug/L	1	0.55	0.65	55	65	49-125	15	20	N2
Indeno(1,2,3-cd)pyrene	ug/L	1	0.60	0.68	60	68	42-125	14	20	N2
Naphthalene	ug/L	1	0.56	0.65	56	65	49-125	14	20	N2
Phenanthrene	ug/L	1	0.59	0.69	59	69	51-125	16	20	N2
Pyrene	ug/L	1	0.56	0.67	56	67	45-125	17	20	N2
2-Fluorobiphenyl (S)	%.				61	72	48-125			N2
p-Terphenyl-d14 (S)	%.				60	72	51-125			N2

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## QUALIFIERS

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

### BATCH QUALIFIERS

Batch: 458504

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

### ANALYTE QUALIFIERS

H5 Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.

N2 The lab does not hold NELAC/TNI accreditation for this parameter.

R1 RPD value was outside control limits.

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 2118-0002 Superior MGP

Pace Project No.: 10377221

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10377221001	MW-7_20170124	EPA Mod. 3510C	457876	EPA 8270D by HVI	458504
10377221002	MW-6_20170124	EPA Mod. 3510C	457876	EPA 8270D by HVI	458504
10377221003	MW-5_20170124	EPA Mod. 3510C	457876	EPA 8270D by HVI	458504
10377221004	MW-11_20170124	EPA Mod. 3510C	457876	EPA 8270D by HVI	458504
10377221005	MW-23_20170124	EPA Mod. 3510C	457876	EPA 8270D by HVI	458504
10377221006	MW-24_20170124	EPA Mod. 3510C	457876	EPA 8270D by HVI	458504
10377221001	MW-7_20170124	EPA 8260B	457926		
10377221002	MW-6_20170124	EPA 8260B	457926		
10377221003	MW-5_20170124	EPA 8260B	457926		
10377221004	MW-11_20170124	EPA 8260B	457926		
10377221005	MW-23_20170124	EPA 8260B	457926		
10377221006	MW-24_20170124	EPA 8260B	457926		

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10377221

**Section A**  
 Required Client Information:  
 Company: Summit Environmental Solutions  
 Address: 1217 Broadway BLVD N  
 St. Paul, MN 55107  
 Email To: bgregg@summit.com  
 Phone: 763-507-0001 Fax:  
 Requested Due Date/TAT:

**Section B**  
 Required Project Information:  
 Report To: Bill Gregg  
 Copy To:  
 Purchase Order No.:  
 Project Name: Superior MGP  
 Project Number: 2118-0002

**Section C**  
 Invoice Information:  
 Attention: Bill Gregg  
 Company Name: Summit  
 Address:  
 Pace Quote Reference:  
 Pace Project Manager: Kuba Jimmy  
 Pace Profile #: 36995

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER

Site Location STATE:

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test ↑ Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB									
1	MW-7-20170124	Drinking Water											601
2	MW-6-20170124	Water											002
3	MW-5-20170124	Waste Water											003
4	MW-11-20170124	Product											004
5	MW-23-20170124	Soil/Solid											005
6	MW-24-20170124	Oil											006
7	MW-25-20170124	Wipe											
8		Air											
9		Other											
10													
11													
12													

**ADDITIONAL COMMENTS**

Kyle Roney/Summit 1/24/17 1610 Ryan Anderson/Summit 1/24/17 1610  
 Ryan Anderson/Summit 1/24/17 1630 Kristina Polson 1/24/17 1630  
 Kristina Polson 1/25/17 1530  
 1/25/17 1515

**RELINQUISHED BY / AFFILIATION** **DATE** **TIME** **ACCEPTED BY / AFFILIATION** **DATE** **TIME** **SAMPLE CONDITIONS**

Temp in °C Received on Ice (Y/N) Sealed Cooler (Y/N) Samples Intact (Y/N)

0.0 Y N Y  
 10.4 X Y Y

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Kyle Roney  
 SIGNATURE of SAMPLER: [Signature]  
 DATE Signed (MM/DD/YYYY): 1/24/17

**ORIGINAL**



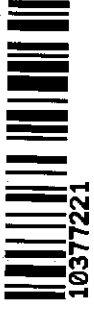
Document Name: Document Revised: 19Dec2016  
 Sample Condition Upon Receipt Form Page 1 of 2  
 Document No.: Issuing Authority:  
 F-MIN-L-213-rev.20 Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Project #:

Summit Environmental Solutions

WO#: 10377221



Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Speedee  Other:

Tracking Number:

Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No Optional: Proj. Due Date: \_\_\_\_\_ Temp Blank?  Yes  No

Packing Material:  Bubble Wrap  None  Other: \_\_\_\_\_

Thermometer  151401163  151401164 Type of Ice:  Wet  Blue  None  Samples on Ice, cooling process has begun

Cooler Temp Read (°C): 0.5 Cooler Temp Corrected (°C): 0.4 Biological Tissue Frozen?  Yes  No  N/A  
 Temp should be above freezing to 6°C Correction Factor: -0.1 Date and Initials of Person Examining Contents: BC 1-26-17

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No  Yes  No

If Yes to either question, fill out a Regulated Soil Checklist (F-MIN-Q-338) and include with SCUR/COC paperwork.

COMMENTS:	
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
-Includes: Date/Time/ID/Analysis Matrix: <u>WT</u>	
All containers needing acid/base preservation have been checked?	
All containers needing preservation are found to be in compliance with EPA recommendation?	
(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) Exceptions (VOA Colliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin.	
Headspace in VOA Vials (>6mm)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Pace Trip Blank Lot # (if purchased):	<u>89U MW 11-20170129</u>

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Field Data Required?  Yes  No

Comments/Resolution: \_\_\_\_\_

Project Manager Review:

Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

February 08, 2017

Bill Gregg  
Summit Envirosolutions  
1217 Bandana Blvd  
Saint Paul, MN 55108

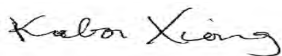
RE: Project: 2118-0002 Former MGP  
Pace Project No.: 10377225

Dear Bill Gregg:

Enclosed are the analytical results for sample(s) received by the laboratory on January 25, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kabor Xiong  
kabor.xiong@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

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### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

Alaska Certification UST-107

525 N 8th Street, Salina, KS 67401

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN\_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

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## SAMPLE SUMMARY

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10377225001	MW-16	Water	01/24/17 09:00	01/25/17 18:15
10377225002	MW-20	Water	01/24/17 10:15	01/25/17 18:15
10377225003	MW-15	Water	01/24/17 11:35	01/25/17 18:15
10377225004	MW-12	Water	01/24/17 12:45	01/25/17 18:15
10377225005	MW-17	Water	01/24/17 14:00	01/25/17 18:15
10377225006	MW-21	Water	01/24/17 15:45	01/25/17 18:15

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### SAMPLE ANALYTE COUNT

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10377225001	MW-16	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	DJB	70	PASI-M
10377225002	MW-20	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	DJB	70	PASI-M
10377225003	MW-15	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	DJB	70	PASI-M
10377225004	MW-12	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	DJB	70	PASI-M
10377225005	MW-17	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	DJB	70	PASI-M
10377225006	MW-21	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	DJB	70	PASI-M

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

**Sample: MW-16**      **Lab ID: 10377225001**      Collected: 01/24/17 09:00      Received: 01/25/17 18:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI					Preparation Method: EPA Mod. 3510C				
Acenaphthene	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:23	02/04/17 10:10	83-32-9	L2,N2
Acenaphthylene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:23	02/04/17 10:10	208-96-8	N2
Anthracene	<0.027	ug/L	0.027	0.0082	1	01/30/17 14:23	02/04/17 10:10	120-12-7	N2
Benzo(a)anthracene	<0.033	ug/L	0.033	0.0098	1	01/30/17 14:23	02/04/17 10:10	56-55-3	L2,N2
Benzo(a)pyrene	<0.0083	ug/L	0.0083	0.0025	1	01/30/17 14:23	02/04/17 10:10	50-32-8	N2
Benzo(b)fluoranthene	<0.0057	ug/L	0.0057	0.0017	1	01/30/17 14:23	02/04/17 10:10	205-99-2	N2
Benzo(e)pyrene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/04/17 10:10	192-97-2	N2
Benzo(g,h,i)perylene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/04/17 10:10	191-24-2	N2
Benzo(k)fluoranthene	<0.033	ug/L	0.033	0.0099	1	01/30/17 14:23	02/04/17 10:10	207-08-9	N2
2-Chloronaphthalene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:23	02/04/17 10:10	91-58-7	N2
Chrysene	<0.0080	ug/L	0.0080	0.0024	1	01/30/17 14:23	02/04/17 10:10	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:23	02/04/17 10:10	53-70-3	N2
Dibenzofuran	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:23	02/04/17 10:10	132-64-9	N2
Fluoranthene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 10:10	206-44-0	N2
Fluorene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 10:10	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.0047	0.0014	1	01/30/17 14:23	02/04/17 10:10	193-39-5	N2
1-Methylnaphthalene	<0.023	ug/L	0.023	0.0069	1	01/30/17 14:23	02/04/17 10:10	90-12-0	N2
2-Methylnaphthalene	<0.037	ug/L	0.037	0.011	1	01/30/17 14:23	02/04/17 10:10	91-57-6	N2
Naphthalene	<0.040	ug/L	0.040	0.012	1	01/30/17 14:23	02/04/17 10:10	91-20-3	N2
Phenanthrene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 10:10	85-01-8	N2
Pyrene	<0.0097	ug/L	0.0097	0.0029	1	01/30/17 14:23	02/04/17 10:10	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	72	%	48-125		1	01/30/17 14:23	02/04/17 10:10	321-60-8	H5,N2
p-Terphenyl-d14 (S)	76	%	51-125		1	01/30/17 14:23	02/04/17 10:10	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		01/31/17 03:47	67-64-1	
Allyl chloride	<4.0	ug/L	4.0	0.25	1		01/31/17 03:47	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		01/31/17 03:47	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		01/31/17 03:47	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		01/31/17 03:47	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		01/31/17 03:47	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		01/31/17 03:47	75-25-2	
Bromomethane	<4.0	ug/L	4.0	0.44	1		01/31/17 03:47	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		01/31/17 03:47	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		01/31/17 03:47	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.19	1		01/31/17 03:47	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		01/31/17 03:47	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		01/31/17 03:47	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		01/31/17 03:47	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.34	1		01/31/17 03:47	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		01/31/17 03:47	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		01/31/17 03:47	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		01/31/17 03:47	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		01/31/17 03:47	106-43-4	
1,2-Dibromo-3-chloropropane	<4.0	ug/L	4.0	0.60	1		01/31/17 03:47	96-12-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

**Sample: MW-16**      **Lab ID: 10377225001**      Collected: 01/24/17 09:00      Received: 01/25/17 18:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<1.0	ug/L	1.0	0.16	1		01/31/17 03:47	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		01/31/17 03:47	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		01/31/17 03:47	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		01/31/17 03:47	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		01/31/17 03:47	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 03:47	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		01/31/17 03:47	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 03:47	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 03:47	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		01/31/17 03:47	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		01/31/17 03:47	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		01/31/17 03:47	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		01/31/17 03:47	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		01/31/17 03:47	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		01/31/17 03:47	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		01/31/17 03:47	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		01/31/17 03:47	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 03:47	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 03:47	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		01/31/17 03:47	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		01/31/17 03:47	100-41-4	
Hexachloro-1,3-butadiene	<4.0	ug/L	4.0	0.18	1		01/31/17 03:47	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		01/31/17 03:47	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.19	1		01/31/17 03:47	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		01/31/17 03:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		01/31/17 03:47	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		01/31/17 03:47	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		01/31/17 03:47	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		01/31/17 03:47	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		01/31/17 03:47	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 03:47	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		01/31/17 03:47	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		01/31/17 03:47	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		01/31/17 03:47	109-99-9	
Toluene	<1.0	ug/L	1.0	0.14	1		01/31/17 03:47	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 03:47	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 03:47	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 03:47	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		01/31/17 03:47	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		01/31/17 03:47	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		01/31/17 03:47	75-69-4	L3
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		01/31/17 03:47	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	0.32	1		01/31/17 03:47	76-13-1	L3
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		01/31/17 03:47	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		01/31/17 03:47	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		01/31/17 03:47	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

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**Sample: MW-16**      **Lab ID: 10377225001**      Collected: 01/24/17 09:00      Received: 01/25/17 18:15      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<b>&lt;3.0</b>	ug/L	3.0	0.32	1		01/31/17 03:47	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	97	%	75-125		1		01/31/17 03:47	17060-07-0	
Toluene-d8 (S)	93	%	75-125		1		01/31/17 03:47	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1		01/31/17 03:47	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

**Sample: MW-20**      **Lab ID: 10377225002**      Collected: 01/24/17 10:15      Received: 01/25/17 18:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI      Preparation Method: EPA Mod. 3510C									
Acenaphthene	46.3	ug/L	0.32	0.095	10	01/30/17 14:23	02/04/17 10:58	83-32-9	L2,N2
Acenaphthylene	0.30	ug/L	0.031	0.0092	1	01/30/17 14:23	02/04/17 10:34	208-96-8	N2
Anthracene	0.090	ug/L	0.027	0.0082	1	01/30/17 14:23	02/04/17 10:34	120-12-7	N2
Benzo(a)anthracene	<0.033	ug/L	0.033	0.0098	1	01/30/17 14:23	02/04/17 10:34	56-55-3	L2,N2
Benzo(a)pyrene	<0.0083	ug/L	0.0083	0.0025	1	01/30/17 14:23	02/04/17 10:34	50-32-8	N2
Benzo(b)fluoranthene	<0.0057	ug/L	0.0057	0.0017	1	01/30/17 14:23	02/04/17 10:34	205-99-2	N2
Benzo(e)pyrene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/04/17 10:34	192-97-2	N2
Benzo(g,h,i)perylene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/04/17 10:34	191-24-2	N2
Benzo(k)fluoranthene	<0.033	ug/L	0.033	0.0099	1	01/30/17 14:23	02/04/17 10:34	207-08-9	N2
2-Chloronaphthalene	0.084	ug/L	0.031	0.0092	1	01/30/17 14:23	02/04/17 10:34	91-58-7	N2
Chrysene	<0.0080	ug/L	0.0080	0.0024	1	01/30/17 14:23	02/04/17 10:34	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:23	02/04/17 10:34	53-70-3	N2
Dibenzofuran	0.30	ug/L	0.032	0.0095	1	01/30/17 14:23	02/04/17 10:34	132-64-9	N2
Fluoranthene	0.12	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 10:34	206-44-0	N2
Fluorene	6.6	ug/L	0.31	0.094	10	01/30/17 14:23	02/04/17 10:58	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.0047	0.0014	1	01/30/17 14:23	02/04/17 10:34	193-39-5	N2
1-Methylnaphthalene	56.4	ug/L	2.3	0.69	100	01/30/17 14:23	02/04/17 11:22	90-12-0	N2
2-Methylnaphthalene	33.0	ug/L	0.37	0.11	10	01/30/17 14:23	02/04/17 10:58	91-57-6	N2
Naphthalene	317	ug/L	4.0	1.2	100	01/30/17 14:23	02/04/17 11:22	91-20-3	N2
Phenanthrene	0.29	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 10:34	85-01-8	N2
Pyrene	0.11	ug/L	0.0097	0.0029	1	01/30/17 14:23	02/04/17 10:34	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	70	%	48-125		1	01/30/17 14:23	02/04/17 10:34	321-60-8	H5,N2
p-Terphenyl-d14 (S)	77	%	51-125		1	01/30/17 14:23	02/04/17 10:34	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<2000	ug/L	2000	201	100		01/31/17 06:45	67-64-1	
Allyl chloride	<400	ug/L	400	25.0	100		01/31/17 06:45	107-05-1	
Benzene	13300	ug/L	100	15.5	100		01/31/17 06:45	71-43-2	
Bromobenzene	<100	ug/L	100	33.7	100		01/31/17 06:45	108-86-1	
Bromochloromethane	<100	ug/L	100	18.6	100		01/31/17 06:45	74-97-5	
Bromodichloromethane	<100	ug/L	100	24.0	100		01/31/17 06:45	75-27-4	
Bromoform	<400	ug/L	400	27.4	100		01/31/17 06:45	75-25-2	
Bromomethane	<400	ug/L	400	44.3	100		01/31/17 06:45	74-83-9	
2-Butanone (MEK)	<500	ug/L	500	110	100		01/31/17 06:45	78-93-3	
n-Butylbenzene	<100	ug/L	100	16.0	100		01/31/17 06:45	104-51-8	
sec-Butylbenzene	<100	ug/L	100	18.9	100		01/31/17 06:45	135-98-8	
tert-Butylbenzene	<100	ug/L	100	22.3	100		01/31/17 06:45	98-06-6	
Carbon tetrachloride	<100	ug/L	100	19.7	100		01/31/17 06:45	56-23-5	
Chlorobenzene	<100	ug/L	100	11.4	100		01/31/17 06:45	108-90-7	
Chloroethane	<100	ug/L	100	34.2	100		01/31/17 06:45	75-00-3	
Chloroform	<100	ug/L	100	21.0	100		01/31/17 06:45	67-66-3	
Chloromethane	<400	ug/L	400	24.6	100		01/31/17 06:45	74-87-3	
2-Chlorotoluene	<100	ug/L	100	29.5	100		01/31/17 06:45	95-49-8	
4-Chlorotoluene	<100	ug/L	100	25.5	100		01/31/17 06:45	106-43-4	
1,2-Dibromo-3-chloropropane	<400	ug/L	400	60.0	100		01/31/17 06:45	96-12-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

**Sample: MW-20**      **Lab ID: 10377225002**      Collected: 01/24/17 10:15      Received: 01/25/17 18:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<100	ug/L	100	15.7	100		01/31/17 06:45	124-48-1	
1,2-Dibromoethane (EDB)	<100	ug/L	100	20.0	100		01/31/17 06:45	106-93-4	
Dibromomethane	<400	ug/L	400	19.4	100		01/31/17 06:45	74-95-3	
1,2-Dichlorobenzene	<100	ug/L	100	17.1	100		01/31/17 06:45	95-50-1	
1,3-Dichlorobenzene	<100	ug/L	100	11.5	100		01/31/17 06:45	541-73-1	
1,4-Dichlorobenzene	<100	ug/L	100	21.1	100		01/31/17 06:45	106-46-7	
Dichlorodifluoromethane	<100	ug/L	100	22.6	100		01/31/17 06:45	75-71-8	
1,1-Dichloroethane	<100	ug/L	100	17.1	100		01/31/17 06:45	75-34-3	
1,2-Dichloroethane	<100	ug/L	100	17.0	100		01/31/17 06:45	107-06-2	
1,1-Dichloroethene	<100	ug/L	100	27.7	100		01/31/17 06:45	75-35-4	
cis-1,2-Dichloroethene	<100	ug/L	100	12.0	100		01/31/17 06:45	156-59-2	
trans-1,2-Dichloroethene	<100	ug/L	100	16.2	100		01/31/17 06:45	156-60-5	
Dichlorofluoromethane	<100	ug/L	100	21.4	100		01/31/17 06:45	75-43-4	
1,2-Dichloropropane	<400	ug/L	400	22.2	100		01/31/17 06:45	78-87-5	
1,3-Dichloropropane	<100	ug/L	100	9.6	100		01/31/17 06:45	142-28-9	
2,2-Dichloropropane	<400	ug/L	400	12.8	100		01/31/17 06:45	594-20-7	
1,1-Dichloropropene	<100	ug/L	100	22.7	100		01/31/17 06:45	563-58-6	
cis-1,3-Dichloropropene	<400	ug/L	400	15.0	100		01/31/17 06:45	10061-01-5	
trans-1,3-Dichloropropene	<400	ug/L	400	14.7	100		01/31/17 06:45	10061-02-6	
Diethyl ether (Ethyl ether)	<400	ug/L	400	19.4	100		01/31/17 06:45	60-29-7	
Ethylbenzene	123	ug/L	100	15.2	100		01/31/17 06:45	100-41-4	
Hexachloro-1,3-butadiene	<400	ug/L	400	17.8	100		01/31/17 06:45	87-68-3	
Isopropylbenzene (Cumene)	<100	ug/L	100	25.3	100		01/31/17 06:45	98-82-8	
p-Isopropyltoluene	<100	ug/L	100	19.4	100		01/31/17 06:45	99-87-6	
Methylene Chloride	<400	ug/L	400	29.3	100		01/31/17 06:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	<500	ug/L	500	43.2	100		01/31/17 06:45	108-10-1	
Methyl-tert-butyl ether	<100	ug/L	100	14.9	100		01/31/17 06:45	1634-04-4	
Naphthalene	440	ug/L	400	20.4	100		01/31/17 06:45	91-20-3	
n-Propylbenzene	<100	ug/L	100	23.3	100		01/31/17 06:45	103-65-1	
Styrene	<100	ug/L	100	28.6	100		01/31/17 06:45	100-42-5	
1,1,1,2-Tetrachloroethane	<100	ug/L	100	16.6	100		01/31/17 06:45	630-20-6	
1,1,2,2-Tetrachloroethane	<100	ug/L	100	22.5	100		01/31/17 06:45	79-34-5	
Tetrachloroethene	<100	ug/L	100	25.3	100		01/31/17 06:45	127-18-4	
Tetrahydrofuran	<1000	ug/L	1000	150	100		01/31/17 06:45	109-99-9	
Toluene	<100	ug/L	100	14.5	100		01/31/17 06:45	108-88-3	
1,2,3-Trichlorobenzene	<100	ug/L	100	21.3	100		01/31/17 06:45	87-61-6	
1,2,4-Trichlorobenzene	<100	ug/L	100	21.3	100		01/31/17 06:45	120-82-1	
1,1,1-Trichloroethane	<100	ug/L	100	17.0	100		01/31/17 06:45	71-55-6	
1,1,2-Trichloroethane	<100	ug/L	100	15.2	100		01/31/17 06:45	79-00-5	
Trichloroethene	<40.0	ug/L	40.0	5.2	100		01/31/17 06:45	79-01-6	
Trichlorofluoromethane	<100	ug/L	100	32.6	100		01/31/17 06:45	75-69-4	L3
1,2,3-Trichloropropane	<400	ug/L	400	28.4	100		01/31/17 06:45	96-18-4	
1,1,2-Trichlorotrifluoroethane	<100	ug/L	100	32.0	100		01/31/17 06:45	76-13-1	L3
1,2,4-Trimethylbenzene	<100	ug/L	100	17.8	100		01/31/17 06:45	95-63-6	
1,3,5-Trimethylbenzene	<100	ug/L	100	26.9	100		01/31/17 06:45	108-67-8	
Vinyl chloride	<20.0	ug/L	20.0	6.9	100		01/31/17 06:45	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

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**Sample: MW-20**      **Lab ID: 10377225002**    Collected: 01/24/17 10:15    Received: 01/25/17 18:15    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<300	ug/L	300	31.5	100		01/31/17 06:45	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	98	%	75-125		100		01/31/17 06:45	17060-07-0	
Toluene-d8 (S)	93	%	75-125		100		01/31/17 06:45	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		100		01/31/17 06:45	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

**Sample: MW-15**      **Lab ID: 10377225003**      Collected: 01/24/17 11:35      Received: 01/25/17 18:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI      Preparation Method: EPA Mod. 3510C									
Acenaphthene	23.6	ug/L	0.32	0.095	10	01/30/17 14:23	02/04/17 12:09	83-32-9	L2,N2
Acenaphthylene	0.42	ug/L	0.031	0.0092	1	01/30/17 14:23	02/04/17 11:45	208-96-8	N2
Anthracene	0.55	ug/L	0.027	0.0082	1	01/30/17 14:23	02/04/17 11:45	120-12-7	N2
Benzo(a)anthracene	0.51	ug/L	0.033	0.0098	1	01/30/17 14:23	02/04/17 11:45	56-55-3	L2,N2
Benzo(a)pyrene	0.37	ug/L	0.0083	0.0025	1	01/30/17 14:23	02/04/17 11:45	50-32-8	N2
Benzo(b)fluoranthene	0.29	ug/L	0.0057	0.0017	1	01/30/17 14:23	02/04/17 11:45	205-99-2	N2
Benzo(e)pyrene	0.19	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/04/17 11:45	192-97-2	N2
Benzo(g,h,i)perylene	0.13	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/04/17 11:45	191-24-2	N2
Benzo(k)fluoranthene	0.10	ug/L	0.033	0.0099	1	01/30/17 14:23	02/04/17 11:45	207-08-9	N2
2-Chloronaphthalene	0.097	ug/L	0.031	0.0092	1	01/30/17 14:23	02/04/17 11:45	91-58-7	N2
Chrysene	0.48	ug/L	0.0080	0.0024	1	01/30/17 14:23	02/04/17 11:45	218-01-9	N2
Dibenz(a,h)anthracene	0.032	ug/L	0.026	0.0079	1	01/30/17 14:23	02/04/17 11:45	53-70-3	N2
Dibenzofuran	0.49	ug/L	0.032	0.0095	1	01/30/17 14:23	02/04/17 11:45	132-64-9	N2
Fluoranthene	2.7	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 11:45	206-44-0	N2
Fluorene	6.7	ug/L	0.31	0.094	10	01/30/17 14:23	02/04/17 12:09	86-73-7	N2
Indeno(1,2,3-cd)pyrene	0.10	ug/L	0.0047	0.0014	1	01/30/17 14:23	02/04/17 11:45	193-39-5	N2
1-Methylnaphthalene	2.2	ug/L	0.023	0.0069	1	01/30/17 14:23	02/04/17 11:45	90-12-0	N2
2-Methylnaphthalene	<0.037	ug/L	0.037	0.011	1	01/30/17 14:23	02/04/17 11:45	91-57-6	N2
Naphthalene	0.12	ug/L	0.040	0.012	1	01/30/17 14:23	02/04/17 11:45	91-20-3	N2
Phenanthrene	2.8	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 11:45	85-01-8	N2
Pyrene	3.4	ug/L	0.0097	0.0029	1	01/30/17 14:23	02/04/17 11:45	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	63	%	48-125		1	01/30/17 14:23	02/04/17 11:45	321-60-8	1M,N2
p-Terphenyl-d14 (S)	70	%	51-125		1	01/30/17 14:23	02/04/17 11:45	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		01/31/17 04:09	67-64-1	
Allyl chloride	<4.0	ug/L	4.0	0.25	1		01/31/17 04:09	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		01/31/17 04:09	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		01/31/17 04:09	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		01/31/17 04:09	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		01/31/17 04:09	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		01/31/17 04:09	75-25-2	
Bromomethane	<4.0	ug/L	4.0	0.44	1		01/31/17 04:09	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		01/31/17 04:09	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		01/31/17 04:09	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.19	1		01/31/17 04:09	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		01/31/17 04:09	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		01/31/17 04:09	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		01/31/17 04:09	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.34	1		01/31/17 04:09	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		01/31/17 04:09	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		01/31/17 04:09	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		01/31/17 04:09	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		01/31/17 04:09	106-43-4	
1,2-Dibromo-3-chloropropane	<4.0	ug/L	4.0	0.60	1		01/31/17 04:09	96-12-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

**Sample: MW-15**      **Lab ID: 10377225003**      Collected: 01/24/17 11:35      Received: 01/25/17 18:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<1.0	ug/L	1.0	0.16	1		01/31/17 04:09	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		01/31/17 04:09	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		01/31/17 04:09	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		01/31/17 04:09	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		01/31/17 04:09	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 04:09	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		01/31/17 04:09	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 04:09	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 04:09	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		01/31/17 04:09	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		01/31/17 04:09	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		01/31/17 04:09	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		01/31/17 04:09	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		01/31/17 04:09	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		01/31/17 04:09	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		01/31/17 04:09	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		01/31/17 04:09	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 04:09	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 04:09	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		01/31/17 04:09	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		01/31/17 04:09	100-41-4	
Hexachloro-1,3-butadiene	<4.0	ug/L	4.0	0.18	1		01/31/17 04:09	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		01/31/17 04:09	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.19	1		01/31/17 04:09	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		01/31/17 04:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		01/31/17 04:09	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		01/31/17 04:09	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		01/31/17 04:09	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		01/31/17 04:09	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		01/31/17 04:09	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 04:09	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		01/31/17 04:09	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		01/31/17 04:09	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		01/31/17 04:09	109-99-9	
Toluene	<1.0	ug/L	1.0	0.14	1		01/31/17 04:09	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 04:09	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 04:09	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 04:09	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		01/31/17 04:09	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		01/31/17 04:09	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		01/31/17 04:09	75-69-4	L3
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		01/31/17 04:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	0.32	1		01/31/17 04:09	76-13-1	L3
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		01/31/17 04:09	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		01/31/17 04:09	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		01/31/17 04:09	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

**Sample: MW-15**      **Lab ID: 10377225003**      Collected: 01/24/17 11:35      Received: 01/25/17 18:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<3.0	ug/L	3.0	0.32	1		01/31/17 04:09	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	98	%	75-125		1		01/31/17 04:09	17060-07-0	
Toluene-d8 (S)	93	%	75-125		1		01/31/17 04:09	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1		01/31/17 04:09	460-00-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

**Sample: MW-12**      **Lab ID: 10377225004**      Collected: 01/24/17 12:45      Received: 01/25/17 18:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI      Preparation Method: EPA Mod. 3510C									
Acenaphthene	24.9	ug/L	0.32	0.095	10	01/30/17 14:23	02/06/17 12:00	83-32-9	L2,N2
Acenaphthylene	0.17	ug/L	0.031	0.0092	1	01/30/17 14:23	02/04/17 12:33	208-96-8	N2
Anthracene	1.2	ug/L	0.027	0.0082	1	01/30/17 14:23	02/04/17 12:33	120-12-7	N2
Benzo(a)anthracene	0.066	ug/L	0.033	0.0098	1	01/30/17 14:23	02/04/17 12:33	56-55-3	L2,N2
Benzo(a)pyrene	<0.0083	ug/L	0.0083	0.0025	1	01/30/17 14:23	02/04/17 12:33	50-32-8	N2
Benzo(b)fluoranthene	<0.0057	ug/L	0.0057	0.0017	1	01/30/17 14:23	02/04/17 12:33	205-99-2	N2
Benzo(e)pyrene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/04/17 12:33	192-97-2	N2
Benzo(g,h,i)perylene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/04/17 12:33	191-24-2	N2
Benzo(k)fluoranthene	<0.033	ug/L	0.033	0.0099	1	01/30/17 14:23	02/04/17 12:33	207-08-9	N2
2-Chloronaphthalene	0.042	ug/L	0.031	0.0092	1	01/30/17 14:23	02/04/17 12:33	91-58-7	N2
Chrysene	0.067	ug/L	0.0080	0.0024	1	01/30/17 14:23	02/04/17 12:33	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:23	02/04/17 12:33	53-70-3	N2
Dibenzofuran	0.44	ug/L	0.032	0.0095	1	01/30/17 14:23	02/04/17 12:33	132-64-9	N2
Fluoranthene	0.88	ug/L	0.031	0.0094	1	01/30/17 14:23	02/04/17 12:33	206-44-0	N2
Fluorene	6.0	ug/L	0.31	0.094	10	01/30/17 14:23	02/06/17 12:00	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.0047	0.0014	1	01/30/17 14:23	02/04/17 12:33	193-39-5	N2
1-Methylnaphthalene	11.2	ug/L	0.23	0.069	10	01/30/17 14:23	02/06/17 12:00	90-12-0	N2
2-Methylnaphthalene	0.047	ug/L	0.037	0.011	1	01/30/17 14:23	02/04/17 12:33	91-57-6	N2
Naphthalene	0.59	ug/L	0.040	0.012	1	01/30/17 14:23	02/04/17 12:33	91-20-3	N2
Phenanthrene	5.7	ug/L	0.31	0.094	10	01/30/17 14:23	02/06/17 12:00	85-01-8	N2
Pyrene	1.1	ug/L	0.0097	0.0029	1	01/30/17 14:23	02/04/17 12:33	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	69	%	48-125		1	01/30/17 14:23	02/04/17 12:33	321-60-8	H5,N2
p-Terphenyl-d14 (S)	72	%	51-125		1	01/30/17 14:23	02/04/17 12:33	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		01/31/17 04:31	67-64-1	
Allyl chloride	<4.0	ug/L	4.0	0.25	1		01/31/17 04:31	107-05-1	
Benzene	255	ug/L	5.0	0.78	5		01/31/17 16:13	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		01/31/17 04:31	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		01/31/17 04:31	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		01/31/17 04:31	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		01/31/17 04:31	75-25-2	
Bromomethane	<4.0	ug/L	4.0	0.44	1		01/31/17 04:31	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		01/31/17 04:31	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		01/31/17 04:31	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.19	1		01/31/17 04:31	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		01/31/17 04:31	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		01/31/17 04:31	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		01/31/17 04:31	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.34	1		01/31/17 04:31	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		01/31/17 04:31	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		01/31/17 04:31	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		01/31/17 04:31	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		01/31/17 04:31	106-43-4	
1,2-Dibromo-3-chloropropane	<4.0	ug/L	4.0	0.60	1		01/31/17 04:31	96-12-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

**Sample: MW-12**      **Lab ID: 10377225004**      Collected: 01/24/17 12:45      Received: 01/25/17 18:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<1.0	ug/L	1.0	0.16	1		01/31/17 04:31	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		01/31/17 04:31	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		01/31/17 04:31	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		01/31/17 04:31	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		01/31/17 04:31	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 04:31	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		01/31/17 04:31	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 04:31	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 04:31	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		01/31/17 04:31	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		01/31/17 04:31	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		01/31/17 04:31	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		01/31/17 04:31	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		01/31/17 04:31	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		01/31/17 04:31	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		01/31/17 04:31	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		01/31/17 04:31	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 04:31	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 04:31	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		01/31/17 04:31	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		01/31/17 04:31	100-41-4	
Hexachloro-1,3-butadiene	<4.0	ug/L	4.0	0.18	1		01/31/17 04:31	87-68-3	
Isopropylbenzene (Cumene)	1.8	ug/L	1.0	0.25	1		01/31/17 04:31	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.19	1		01/31/17 04:31	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		01/31/17 04:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		01/31/17 04:31	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		01/31/17 04:31	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		01/31/17 04:31	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		01/31/17 04:31	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		01/31/17 04:31	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 04:31	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		01/31/17 04:31	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		01/31/17 04:31	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		01/31/17 04:31	109-99-9	
Toluene	<1.0	ug/L	1.0	0.14	1		01/31/17 04:31	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 04:31	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 04:31	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 04:31	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		01/31/17 04:31	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		01/31/17 04:31	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		01/31/17 04:31	75-69-4	L3
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		01/31/17 04:31	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	0.32	1		01/31/17 04:31	76-13-1	L3
1,2,4-Trimethylbenzene	2.4	ug/L	1.0	0.18	1		01/31/17 04:31	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		01/31/17 04:31	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		01/31/17 04:31	75-01-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

**Sample: MW-12**      **Lab ID: 10377225004**      Collected: 01/24/17 12:45      Received: 01/25/17 18:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<3.0	ug/L	3.0	0.32	1		01/31/17 04:31	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	97	%	75-125		1		01/31/17 04:31	17060-07-0	
Toluene-d8 (S)	94	%	75-125		1		01/31/17 04:31	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1		01/31/17 04:31	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

**Sample: MW-17**      **Lab ID: 10377225005**      Collected: 01/24/17 14:00      Received: 01/25/17 18:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI					Preparation Method: EPA Mod. 3510C				
Acenaphthene	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:23	02/06/17 12:24	83-32-9	L2,N2
Acenaphthylene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:23	02/06/17 12:24	208-96-8	N2
Anthracene	<0.027	ug/L	0.027	0.0082	1	01/30/17 14:23	02/06/17 12:24	120-12-7	N2
Benzo(a)anthracene	<0.033	ug/L	0.033	0.0098	1	01/30/17 14:23	02/06/17 12:24	56-55-3	L2,N2
Benzo(a)pyrene	<0.0083	ug/L	0.0083	0.0025	1	01/30/17 14:23	02/06/17 12:24	50-32-8	N2
Benzo(b)fluoranthene	<0.0057	ug/L	0.0057	0.0017	1	01/30/17 14:23	02/06/17 12:24	205-99-2	N2
Benzo(e)pyrene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/06/17 12:24	192-97-2	N2
Benzo(g,h,i)perylene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/06/17 12:24	191-24-2	N2
Benzo(k)fluoranthene	<0.033	ug/L	0.033	0.0099	1	01/30/17 14:23	02/06/17 12:24	207-08-9	N2
2-Chloronaphthalene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:23	02/06/17 12:24	91-58-7	N2
Chrysene	<0.0080	ug/L	0.0080	0.0024	1	01/30/17 14:23	02/06/17 12:24	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:23	02/06/17 12:24	53-70-3	N2
Dibenzofuran	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:23	02/06/17 12:24	132-64-9	N2
Fluoranthene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:23	02/06/17 12:24	206-44-0	N2
Fluorene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:23	02/06/17 12:24	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.0047	0.0014	1	01/30/17 14:23	02/06/17 12:24	193-39-5	N2
1-Methylnaphthalene	<0.023	ug/L	0.023	0.0069	1	01/30/17 14:23	02/06/17 12:24	90-12-0	N2
2-Methylnaphthalene	<0.037	ug/L	0.037	0.011	1	01/30/17 14:23	02/06/17 12:24	91-57-6	N2
Naphthalene	<0.040	ug/L	0.040	0.012	1	01/30/17 14:23	02/06/17 12:24	91-20-3	N2
Phenanthrene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:23	02/06/17 12:24	85-01-8	N2
Pyrene	<0.0097	ug/L	0.0097	0.0029	1	01/30/17 14:23	02/06/17 12:24	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	61	%	48-125		1	01/30/17 14:23	02/06/17 12:24	321-60-8	H5,N2
p-Terphenyl-d14 (S)	66	%	51-125		1	01/30/17 14:23	02/06/17 12:24	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		01/31/17 04:54	67-64-1	
Allyl chloride	<4.0	ug/L	4.0	0.25	1		01/31/17 04:54	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		01/31/17 04:54	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		01/31/17 04:54	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		01/31/17 04:54	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		01/31/17 04:54	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		01/31/17 04:54	75-25-2	
Bromomethane	<4.0	ug/L	4.0	0.44	1		01/31/17 04:54	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		01/31/17 04:54	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		01/31/17 04:54	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.19	1		01/31/17 04:54	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		01/31/17 04:54	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		01/31/17 04:54	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		01/31/17 04:54	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.34	1		01/31/17 04:54	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		01/31/17 04:54	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		01/31/17 04:54	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		01/31/17 04:54	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		01/31/17 04:54	106-43-4	
1,2-Dibromo-3-chloropropane	<4.0	ug/L	4.0	0.60	1		01/31/17 04:54	96-12-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

**Sample: MW-17**      **Lab ID: 10377225005**      Collected: 01/24/17 14:00      Received: 01/25/17 18:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<1.0	ug/L	1.0	0.16	1		01/31/17 04:54	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		01/31/17 04:54	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		01/31/17 04:54	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		01/31/17 04:54	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		01/31/17 04:54	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 04:54	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		01/31/17 04:54	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 04:54	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 04:54	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		01/31/17 04:54	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		01/31/17 04:54	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		01/31/17 04:54	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		01/31/17 04:54	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		01/31/17 04:54	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		01/31/17 04:54	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		01/31/17 04:54	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		01/31/17 04:54	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 04:54	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 04:54	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		01/31/17 04:54	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		01/31/17 04:54	100-41-4	
Hexachloro-1,3-butadiene	<4.0	ug/L	4.0	0.18	1		01/31/17 04:54	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		01/31/17 04:54	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.19	1		01/31/17 04:54	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		01/31/17 04:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		01/31/17 04:54	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		01/31/17 04:54	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		01/31/17 04:54	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		01/31/17 04:54	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		01/31/17 04:54	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 04:54	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		01/31/17 04:54	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		01/31/17 04:54	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		01/31/17 04:54	109-99-9	
Toluene	<1.0	ug/L	1.0	0.14	1		01/31/17 04:54	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 04:54	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 04:54	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 04:54	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		01/31/17 04:54	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		01/31/17 04:54	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		01/31/17 04:54	75-69-4	L3
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		01/31/17 04:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	0.32	1		01/31/17 04:54	76-13-1	L3
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		01/31/17 04:54	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		01/31/17 04:54	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		01/31/17 04:54	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

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**Sample: MW-17**      **Lab ID: 10377225005**      Collected: 01/24/17 14:00      Received: 01/25/17 18:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<b>&lt;3.0</b>	ug/L	3.0	0.32	1		01/31/17 04:54	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	99	%	75-125		1		01/31/17 04:54	17060-07-0	
Toluene-d8 (S)	93	%	75-125		1		01/31/17 04:54	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1		01/31/17 04:54	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

Sample: MW-21 Lab ID: 10377225006 Collected: 01/24/17 15:45 Received: 01/25/17 18:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI					Preparation Method: EPA Mod. 3510C				
Acenaphthene	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:23	02/06/17 12:48	83-32-9	L2,N2
Acenaphthylene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:23	02/06/17 12:48	208-96-8	N2
Anthracene	<0.027	ug/L	0.027	0.0082	1	01/30/17 14:23	02/06/17 12:48	120-12-7	N2
Benzo(a)anthracene	<0.033	ug/L	0.033	0.0098	1	01/30/17 14:23	02/06/17 12:48	56-55-3	L2,N2
Benzo(a)pyrene	<0.0083	ug/L	0.0083	0.0025	1	01/30/17 14:23	02/06/17 12:48	50-32-8	N2
Benzo(b)fluoranthene	<0.0057	ug/L	0.0057	0.0017	1	01/30/17 14:23	02/06/17 12:48	205-99-2	N2
Benzo(e)pyrene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/06/17 12:48	192-97-2	N2
Benzo(g,h,i)perylene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:23	02/06/17 12:48	191-24-2	N2
Benzo(k)fluoranthene	<0.033	ug/L	0.033	0.0099	1	01/30/17 14:23	02/06/17 12:48	207-08-9	N2
2-Chloronaphthalene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:23	02/06/17 12:48	91-58-7	N2
Chrysene	<0.0080	ug/L	0.0080	0.0024	1	01/30/17 14:23	02/06/17 12:48	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:23	02/06/17 12:48	53-70-3	N2
Dibenzofuran	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:23	02/06/17 12:48	132-64-9	N2
Fluoranthene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:23	02/06/17 12:48	206-44-0	N2
Fluorene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:23	02/06/17 12:48	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.0047	0.0014	1	01/30/17 14:23	02/06/17 12:48	193-39-5	N2
1-Methylnaphthalene	<0.023	ug/L	0.023	0.0069	1	01/30/17 14:23	02/06/17 12:48	90-12-0	N2
2-Methylnaphthalene	<0.037	ug/L	0.037	0.011	1	01/30/17 14:23	02/06/17 12:48	91-57-6	N2
Naphthalene	<0.040	ug/L	0.040	0.012	1	01/30/17 14:23	02/06/17 12:48	91-20-3	N2
Phenanthrene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:23	02/06/17 12:48	85-01-8	N2
Pyrene	<0.0097	ug/L	0.0097	0.0029	1	01/30/17 14:23	02/06/17 12:48	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	60	%	48-125		1	01/30/17 14:23	02/06/17 12:48	321-60-8	H5,N2
p-Terphenyl-d14 (S)	67	%	51-125		1	01/30/17 14:23	02/06/17 12:48	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		01/31/17 05:16	67-64-1	
Allyl chloride	<4.0	ug/L	4.0	0.25	1		01/31/17 05:16	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		01/31/17 05:16	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		01/31/17 05:16	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		01/31/17 05:16	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		01/31/17 05:16	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		01/31/17 05:16	75-25-2	
Bromomethane	<4.0	ug/L	4.0	0.44	1		01/31/17 05:16	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		01/31/17 05:16	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		01/31/17 05:16	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.19	1		01/31/17 05:16	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		01/31/17 05:16	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		01/31/17 05:16	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		01/31/17 05:16	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.34	1		01/31/17 05:16	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		01/31/17 05:16	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		01/31/17 05:16	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		01/31/17 05:16	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		01/31/17 05:16	106-43-4	
1,2-Dibromo-3-chloropropane	<4.0	ug/L	4.0	0.60	1		01/31/17 05:16	96-12-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

**Sample: MW-21**      **Lab ID: 10377225006**      Collected: 01/24/17 15:45      Received: 01/25/17 18:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<1.0	ug/L	1.0	0.16	1		01/31/17 05:16	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		01/31/17 05:16	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		01/31/17 05:16	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		01/31/17 05:16	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		01/31/17 05:16	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 05:16	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		01/31/17 05:16	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 05:16	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 05:16	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		01/31/17 05:16	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		01/31/17 05:16	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		01/31/17 05:16	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		01/31/17 05:16	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		01/31/17 05:16	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		01/31/17 05:16	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		01/31/17 05:16	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		01/31/17 05:16	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 05:16	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 05:16	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		01/31/17 05:16	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		01/31/17 05:16	100-41-4	
Hexachloro-1,3-butadiene	<4.0	ug/L	4.0	0.18	1		01/31/17 05:16	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		01/31/17 05:16	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.19	1		01/31/17 05:16	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		01/31/17 05:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		01/31/17 05:16	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		01/31/17 05:16	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		01/31/17 05:16	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		01/31/17 05:16	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		01/31/17 05:16	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 05:16	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		01/31/17 05:16	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		01/31/17 05:16	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		01/31/17 05:16	109-99-9	
Toluene	1.5	ug/L	1.0	0.14	1		01/31/17 05:16	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 05:16	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 05:16	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 05:16	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		01/31/17 05:16	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		01/31/17 05:16	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		01/31/17 05:16	75-69-4	L3
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		01/31/17 05:16	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	0.32	1		01/31/17 05:16	76-13-1	L3
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		01/31/17 05:16	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		01/31/17 05:16	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		01/31/17 05:16	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

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**Sample: MW-21**      **Lab ID: 10377225006**    Collected: 01/24/17 15:45    Received: 01/25/17 18:15    Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>	Analytical Method: EPA 8260B								
Xylene (Total)	<3.0	ug/L	3.0	0.32	1		01/31/17 05:16	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	97	%	75-125		1		01/31/17 05:16	17060-07-0	
Toluene-d8 (S)	93	%	75-125		1		01/31/17 05:16	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1		01/31/17 05:16	460-00-4	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

QC Batch: 457926

Analysis Method: EPA 8260B

QC Batch Method: EPA 8260B

Analysis Description: 8260B MSV 465 W

Associated Lab Samples: 10377225001, 10377225002, 10377225003, 10377225004, 10377225005, 10377225006

METHOD BLANK: 2506544

Matrix: Water

Associated Lab Samples: 10377225001, 10377225002, 10377225003, 10377225004, 10377225005, 10377225006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	01/30/17 23:21	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	01/30/17 23:21	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	01/30/17 23:21	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	01/30/17 23:21	
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	1.0	01/30/17 23:21	
1,1-Dichloroethane	ug/L	<1.0	1.0	01/30/17 23:21	
1,1-Dichloroethene	ug/L	<1.0	1.0	01/30/17 23:21	
1,1-Dichloropropene	ug/L	<1.0	1.0	01/30/17 23:21	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	01/30/17 23:21	
1,2,3-Trichloropropane	ug/L	<4.0	4.0	01/30/17 23:21	
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	01/30/17 23:21	
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	01/30/17 23:21	
1,2-Dibromo-3-chloropropane	ug/L	<4.0	4.0	01/30/17 23:21	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	01/30/17 23:21	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	01/30/17 23:21	
1,2-Dichloroethane	ug/L	<1.0	1.0	01/30/17 23:21	
1,2-Dichloropropane	ug/L	<4.0	4.0	01/30/17 23:21	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	01/30/17 23:21	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	01/30/17 23:21	
1,3-Dichloropropane	ug/L	<1.0	1.0	01/30/17 23:21	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	01/30/17 23:21	
2,2-Dichloropropane	ug/L	<4.0	4.0	01/30/17 23:21	
2-Butanone (MEK)	ug/L	<5.0	5.0	01/30/17 23:21	
2-Chlorotoluene	ug/L	<1.0	1.0	01/30/17 23:21	
4-Chlorotoluene	ug/L	<1.0	1.0	01/30/17 23:21	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	01/30/17 23:21	
Acetone	ug/L	<20.0	20.0	01/30/17 23:21	
Allyl chloride	ug/L	<4.0	4.0	01/30/17 23:21	
Benzene	ug/L	<1.0	1.0	01/30/17 23:21	
Bromobenzene	ug/L	<1.0	1.0	01/30/17 23:21	
Bromochloromethane	ug/L	<1.0	1.0	01/30/17 23:21	
Bromodichloromethane	ug/L	<1.0	1.0	01/30/17 23:21	
Bromoform	ug/L	<4.0	4.0	01/30/17 23:21	
Bromomethane	ug/L	<4.0	4.0	01/30/17 23:21	
Carbon tetrachloride	ug/L	<1.0	1.0	01/30/17 23:21	
Chlorobenzene	ug/L	<1.0	1.0	01/30/17 23:21	
Chloroethane	ug/L	<1.0	1.0	01/30/17 23:21	
Chloroform	ug/L	<1.0	1.0	01/30/17 23:21	
Chloromethane	ug/L	<4.0	4.0	01/30/17 23:21	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	01/30/17 23:21	
cis-1,3-Dichloropropene	ug/L	<4.0	4.0	01/30/17 23:21	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

METHOD BLANK: 2506544

Matrix: Water

Associated Lab Samples: 10377225001, 10377225002, 10377225003, 10377225004, 10377225005, 10377225006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<1.0	1.0	01/30/17 23:21	
Dibromomethane	ug/L	<4.0	4.0	01/30/17 23:21	
Dichlorodifluoromethane	ug/L	<1.0	1.0	01/30/17 23:21	
Dichlorofluoromethane	ug/L	<1.0	1.0	01/30/17 23:21	
Diethyl ether (Ethyl ether)	ug/L	<4.0	4.0	01/30/17 23:21	
Ethylbenzene	ug/L	<1.0	1.0	01/30/17 23:21	
Hexachloro-1,3-butadiene	ug/L	<4.0	4.0	01/30/17 23:21	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	01/30/17 23:21	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	01/30/17 23:21	
Methylene Chloride	ug/L	<4.0	4.0	01/30/17 23:21	
n-Butylbenzene	ug/L	<1.0	1.0	01/30/17 23:21	
n-Propylbenzene	ug/L	<1.0	1.0	01/30/17 23:21	
Naphthalene	ug/L	<4.0	4.0	01/30/17 23:21	
p-Isopropyltoluene	ug/L	<1.0	1.0	01/30/17 23:21	
sec-Butylbenzene	ug/L	<1.0	1.0	01/30/17 23:21	
Styrene	ug/L	<1.0	1.0	01/30/17 23:21	
tert-Butylbenzene	ug/L	<1.0	1.0	01/30/17 23:21	
Tetrachloroethene	ug/L	<1.0	1.0	01/30/17 23:21	
Tetrahydrofuran	ug/L	<10.0	10.0	01/30/17 23:21	
Toluene	ug/L	<1.0	1.0	01/30/17 23:21	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	01/30/17 23:21	
trans-1,3-Dichloropropene	ug/L	<4.0	4.0	01/30/17 23:21	
Trichloroethene	ug/L	<0.40	0.40	01/30/17 23:21	
Trichlorofluoromethane	ug/L	<1.0	1.0	01/30/17 23:21	
Vinyl chloride	ug/L	<0.20	0.20	01/30/17 23:21	
Xylene (Total)	ug/L	<3.0	3.0	01/30/17 23:21	
1,2-Dichloroethane-d4 (S)	%	95	75-125	01/30/17 23:21	
4-Bromofluorobenzene (S)	%	99	75-125	01/30/17 23:21	
Toluene-d8 (S)	%	92	75-125	01/30/17 23:21	

LABORATORY CONTROL SAMPLE & LCSD: 2506545

2506693

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.7	22.4	114	112	75-125	1	20	
1,1,1-Trichloroethane	ug/L	20	21.9	22.5	110	112	73-125	3	20	
1,1,2,2-Tetrachloroethane	ug/L	20	21.6	21.4	108	107	75-128	1	20	
1,1,2-Trichloroethane	ug/L	20	22.3	21.8	112	109	75-129	3	20	
1,1,2-Trichlorotrifluoroethane	ug/L	20	25.8	26.4	129	132	69-125	2	20	L0
1,1-Dichloroethane	ug/L	20	21.3	21.5	106	107	75-131	1	20	
1,1-Dichloroethene	ug/L	20	21.5	21.5	107	107	72-125	0	20	
1,1-Dichloropropene	ug/L	20	22.2	22.5	111	113	74-125	2	20	
1,2,3-Trichlorobenzene	ug/L	20	21.7	22.0	109	110	68-127	1	20	
1,2,3-Trichloropropane	ug/L	20	22.2	21.7	111	109	75-125	2	20	
1,2,4-Trichlorobenzene	ug/L	20	20.4	20.5	102	102	70-125	0	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

LABORATORY CONTROL SAMPLE & LCSD: 2506545		2506693									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1,2,4-Trimethylbenzene	ug/L	20	19.6	19.5	98	98	75-130	0	20		
1,2-Dibromo-3-chloropropane	ug/L	50	53.3	52.3	107	105	74-125	2	20		
1,2-Dibromoethane (EDB)	ug/L	20	22.3	21.8	112	109	75-125	2	20		
1,2-Dichlorobenzene	ug/L	20	21.9	21.6	110	108	75-125	1	20		
1,2-Dichloroethane	ug/L	20	20.7	20.8	103	104	72-129	1	20		
1,2-Dichloropropane	ug/L	20	21.8	21.7	109	109	71-129	1	20		
1,3,5-Trimethylbenzene	ug/L	20	20.0	19.9	100	99	75-127	0	20		
1,3-Dichlorobenzene	ug/L	20	21.4	21.4	107	107	75-125	0	20		
1,3-Dichloropropane	ug/L	20	21.0	21.3	105	107	75-125	1	20		
1,4-Dichlorobenzene	ug/L	20	21.6	21.5	108	107	75-125	0	20		
2,2-Dichloropropane	ug/L	20	19.5	19.7	97	98	71-125	1	20		
2-Butanone (MEK)	ug/L	100	97.2	96.9	97	97	58-150	0	20		
2-Chlorotoluene	ug/L	20	21.1	21.1	105	105	75-125	0	20		
4-Chlorotoluene	ug/L	20	20.2	20.3	101	102	75-130	0	20		
4-Methyl-2-pentanone (MIBK)	ug/L	100	93.2	90.7	93	91	72-140	3	20		
Acetone	ug/L	100	126	127	126	127	69-137	1	20		
Allyl chloride	ug/L	20	18.4	18.6	92	93	68-132	1	20		
Benzene	ug/L	20	20.6	20.7	103	104	75-125	1	20		
Bromobenzene	ug/L	20	22.6	22.5	113	113	75-125	1	20		
Bromochloromethane	ug/L	20	24.0	24.2	120	121	75-125	1	20		
Bromodichloromethane	ug/L	20	23.1	22.9	115	115	69-128	1	20		
Bromoform	ug/L	20	20.8	20.7	104	103	75-125	1	20		
Bromomethane	ug/L	20	23.7	24.8	119	124	30-150	4	20		
Carbon tetrachloride	ug/L	20	22.2	23.0	111	115	74-125	4	20		
Chlorobenzene	ug/L	20	21.1	21.0	105	105	75-125	0	20		
Chloroethane	ug/L	20	21.4	21.4	107	107	60-150	0	20		
Chloroform	ug/L	20	21.4	21.9	107	109	75-126	2	20		
Chloromethane	ug/L	20	20.3	20.2	102	101	46-150	1	20		
cis-1,2-Dichloroethene	ug/L	20	22.2	22.4	111	112	75-126	1	20		
cis-1,3-Dichloropropene	ug/L	20	20.9	20.6	105	103	75-125	2	20		
Dibromochloromethane	ug/L	20	23.0	22.9	115	114	75-125	0	20		
Dibromomethane	ug/L	20	23.3	23.1	117	116	72-127	1	20		
Dichlorodifluoromethane	ug/L	20	25.0	25.4	125	127	58-135	1	20		
Dichlorofluoromethane	ug/L	20	21.3	21.3	106	107	68-149	0	20		
Diethyl ether (Ethyl ether)	ug/L	20	21.9	22.1	110	110	66-144	1	20		
Ethylbenzene	ug/L	20	19.8	19.7	99	98	75-125	1	20		
Hexachloro-1,3-butadiene	ug/L	20	20.5	21.7	102	108	73-125	6	20		
Isopropylbenzene (Cumene)	ug/L	20	19.7	19.6	99	98	69-140	1	20		
Methyl-tert-butyl ether	ug/L	20	21.2	21.5	106	108	75-126	1	20		
Methylene Chloride	ug/L	20	22.3	22.7	111	113	71-130	2	20		
n-Butylbenzene	ug/L	20	18.6	19.1	93	95	71-129	2	20		
n-Propylbenzene	ug/L	20	19.7	19.8	99	99	71-133	0	20		
Naphthalene	ug/L	20	20.2	20.0	101	100	59-137	1	20		
p-Isopropyltoluene	ug/L	20	19.0	19.0	95	95	74-127	0	20		
sec-Butylbenzene	ug/L	20	19.8	19.7	99	99	66-140	0	20		
Styrene	ug/L	20	21.3	20.6	107	103	75-125	4	20		
tert-Butylbenzene	ug/L	20	19.7	19.3	99	97	73-129	2	20		

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### QUALITY CONTROL DATA

Project: 2118-0002 Former MGP  
Pace Project No.: 10377225

LABORATORY CONTROL SAMPLE & LCSD: 2506545		2506693								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/L	20	22.3	22.1	111	110	75-125	1	20	
Tetrahydrofuran	ug/L	200	256	251	128	126	71-129	2	20	
Toluene	ug/L	20	20.4	20.3	102	101	75-125	1	20	
trans-1,2-Dichloroethene	ug/L	20	21.7	22.0	108	110	75-125	1	20	
trans-1,3-Dichloropropene	ug/L	20	20.8	20.3	104	101	75-125	3	20	
Trichloroethene	ug/L	20	23.0	22.8	115	114	75-125	1	20	
Trichlorofluoromethane	ug/L	20	26.1	26.2	131	131	74-128	0	20	LO
Vinyl chloride	ug/L	20	22.2	21.9	111	110	71-131	1	20	
Xylene (Total)	ug/L	60	61.0	60.6	102	101	75-125	1	20	
1,2-Dichloroethane-d4 (S)	%				94	97	75-125			
4-Bromofluorobenzene (S)	%				98	98	75-125			
Toluene-d8 (S)	%				94	93	75-125			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2506726		2506727										
Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10377633001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	22.4	23.0	112	115	75-125	3	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	23.1	23.0	115	115	71-144	0	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.2	22.2	106	111	75-131	5	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	21.5	22.2	107	111	75-125	3	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	28.0	27.4	140	137	75-150	2	30	
1,1-Dichloroethane	ug/L	ND	20	20	21.3	21.5	107	107	64-150	1	30	
1,1-Dichloroethene	ug/L	ND	20	20	22.5	22.4	112	112	68-150	0	30	
1,1-Dichloropropene	ug/L	ND	20	20	23.1	23.1	115	115	68-145	0	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	22.6	23.3	113	116	57-142	3	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	21.7	22.9	109	114	75-125	5	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.3	22.0	106	110	60-135	3	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.0	20.3	100	102	67-148	2	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	52.4	54.6	105	109	32-137	4	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.2	22.1	106	111	75-125	4	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	21.4	22.1	107	110	75-125	3	30	
1,2-Dichloroethane	ug/L	ND	20	20	20.0	20.2	100	101	62-138	1	30	
1,2-Dichloropropane	ug/L	ND	20	20	21.4	22.5	107	112	62-144	5	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.5	21.1	103	105	67-148	3	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	21.8	22.3	109	111	74-131	2	30	
1,3-Dichloropropane	ug/L	ND	20	20	20.7	21.1	104	106	75-127	2	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	21.7	22.2	108	111	74-126	2	30	
2,2-Dichloropropane	ug/L	ND	20	20	20.4	20.4	102	102	56-146	0	30	
2-Butanone (MEK)	ug/L	ND	100	100	90.6	94.3	91	94	47-150	4	30	
2-Chlorotoluene	ug/L	ND	20	20	21.8	22.5	109	112	74-137	3	30	
4-Chlorotoluene	ug/L	ND	20	20	20.8	21.4	104	107	72-138	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	88.1	94.1	88	94	60-147	7	30	
Acetone	ug/L	ND	100	100	123	124	123	124	61-150	1	30	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2506726												2506727	
Parameter	Units	10377633001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD			
Allyl chloride	ug/L	ND	20	20	18.8	18.7	94	93	53-150	1	30		
Benzene	ug/L	ND	20	20	20.8	21.0	104	105	52-147	1	30		
Bromobenzene	ug/L	ND	20	20	23.0	23.6	115	118	75-129	3	30		
Bromochloromethane	ug/L	ND	20	20	22.8	23.8	114	119	72-128	4	30		
Bromodichloromethane	ug/L	ND	20	20	23.2	23.9	116	120	65-137	3	30		
Bromoform	ug/L	ND	20	20	20.1	21.1	101	105	59-133	5	30		
Bromomethane	ug/L	ND	20	20	23.4	24.0	117	120	30-150	3	30		
Carbon tetrachloride	ug/L	ND	20	20	23.7	24.1	119	120	73-144	1	30		
Chlorobenzene	ug/L	ND	20	20	21.0	22.0	105	110	75-126	5	30		
Chloroethane	ug/L	ND	20	20	25.5	24.0	128	120	55-150	6	30		
Chloroform	ug/L	ND	20	20	21.0	21.4	105	107	66-143	2	30		
Chloromethane	ug/L	ND	20	20	19.5	19.3	97	97	42-150	1	30		
cis-1,2-Dichloroethene	ug/L	ND	20	20	22.4	22.1	112	110	65-143	1	30		
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.1	20.8	100	104	75-125	4	30		
Dibromochloromethane	ug/L	ND	20	20	22.4	23.3	112	117	75-125	4	30		
Dibromomethane	ug/L	ND	20	20	22.8	23.2	114	116	66-133	2	30		
Dichlorodifluoromethane	ug/L	ND	20	20	26.3	26.8	132	134	74-150	2	30		
Dichlorofluoromethane	ug/L	ND	20	20	20.6	21.3	103	106	68-150	3	30		
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	20.6	20.8	103	104	57-148	1	30		
Ethylbenzene	ug/L	ND	20	20	20.1	20.7	101	103	67-149	3	30		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	25.5	25.3	127	126	65-143	1	30		
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.2	20.8	101	104	64-150	3	30		
Methyl-tert-butyl ether	ug/L	ND	20	20	19.9	20.7	100	103	71-130	4	30		
Methylene Chloride	ug/L	ND	20	20	21.5	21.8	108	109	67-137	1	30		
n-Butylbenzene	ug/L	ND	20	20	20.4	20.4	102	102	70-138	0	30		
n-Propylbenzene	ug/L	ND	20	20	20.8	21.2	104	106	70-148	2	30		
Naphthalene	ug/L	ND	20	20	19.7	20.8	98	104	39-150	5	30		
p-Isopropyltoluene	ug/L	ND	20	20	20.3	20.9	101	105	74-138	3	30		
sec-Butylbenzene	ug/L	ND	20	20	21.2	21.6	106	108	64-150	2	30		
Styrene	ug/L	ND	20	20	20.7	20.9	103	105	75-132	1	30		
tert-Butylbenzene	ug/L	ND	20	20	20.7	21.2	104	106	75-138	2	30		
Tetrachloroethene	ug/L	ND	20	20	23.1	23.6	115	118	73-136	2	30		
Tetrahydrofuran	ug/L	ND	200	200	248	253	124	127	68-142	2	30		
Toluene	ug/L	ND	20	20	20.9	21.3	104	106	69-139	2	30		
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.4	22.2	112	111	75-135	1	30		
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.0	20.9	100	105	66-136	4	30		
Trichloroethene	ug/L	ND	20	20	23.9	25.0	119	125	74-135	5	30		
Trichlorofluoromethane	ug/L	ND	20	20	26.7	26.8	134	134	75-150	0	30		
Vinyl chloride	ug/L	ND	20	20	22.7	22.9	114	115	69-150	1	30		
Xylene (Total)	ug/L	ND	60	60	60.9	62.5	102	104	70-147	3	30		
1,2-Dichloroethane-d4 (S)	%						94	92	75-125				
4-Bromofluorobenzene (S)	%						101	100	75-125				
Toluene-d8 (S)	%						94	94	75-125				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Former MGP  
Pace Project No.: 10377225

QC Batch: 457876 Analysis Method: EPA 8270D by HVI  
QC Batch Method: EPA Mod. 3510C Analysis Description: 8270D Water PAH High Volume Injection  
Associated Lab Samples: 10377225001, 10377225002, 10377225003, 10377225004, 10377225005, 10377225006

METHOD BLANK: 2506348 Matrix: Water  
Associated Lab Samples: 10377225001, 10377225002, 10377225003, 10377225004, 10377225005, 10377225006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.023	0.023	02/04/17 01:29	N2
2-Chloronaphthalene	ug/L	<0.031	0.031	02/04/17 01:29	N2
2-Methylnaphthalene	ug/L	<0.037	0.037	02/04/17 01:29	N2
Acenaphthene	ug/L	<0.032	0.032	02/04/17 01:29	N2
Acenaphthylene	ug/L	<0.031	0.031	02/04/17 01:29	N2
Anthracene	ug/L	<0.027	0.027	02/04/17 01:29	N2
Benzo(a)anthracene	ug/L	<0.033	0.033	02/04/17 01:29	N2
Benzo(a)pyrene	ug/L	<0.0083	0.0083	02/04/17 01:29	N2
Benzo(b)fluoranthene	ug/L	<0.0057	0.0057	02/04/17 01:29	N2
Benzo(e)pyrene	ug/L	<0.0067	0.0067	02/04/17 01:29	N2
Benzo(g,h,i)perylene	ug/L	<0.0067	0.0067	02/04/17 01:29	N2
Benzo(k)fluoranthene	ug/L	<0.033	0.033	02/04/17 01:29	N2
Chrysene	ug/L	<0.0080	0.0080	02/04/17 01:29	N2
Dibenz(a,h)anthracene	ug/L	<0.026	0.026	02/04/17 01:29	N2
Dibenzofuran	ug/L	<0.032	0.032	02/04/17 01:29	N2
Fluoranthene	ug/L	<0.031	0.031	02/04/17 01:29	N2
Fluorene	ug/L	<0.031	0.031	02/04/17 01:29	N2
Indeno(1,2,3-cd)pyrene	ug/L	<0.0047	0.0047	02/04/17 01:29	N2
Naphthalene	ug/L	<0.040	0.040	02/04/17 01:29	N2
Phenanthrene	ug/L	<0.031	0.031	02/04/17 01:29	N2
Pyrene	ug/L	<0.0097	0.0097	02/04/17 01:29	N2
2-Fluorobiphenyl (S)	%	75	48-125	02/04/17 01:29	N2
p-Terphenyl-d14 (S)	%	76	51-125	02/04/17 01:29	N2

LABORATORY CONTROL SAMPLE & LCSD: 2506349

Parameter	Units	2506350								
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	1	0.57	0.65	57	65	46-125	13	20	N2
2-Chloronaphthalene	ug/L	1	0.58	0.68	58	68	46-125	17	20	N2
2-Methylnaphthalene	ug/L	1	0.56	0.64	56	64	43-125	13	20	N2
Acenaphthene	ug/L	1	0.54	0.63	54	63	57-125	15	20	L0,N2
Acenaphthylene	ug/L	1	0.55	0.64	55	64	52-125	15	20	N2
Anthracene	ug/L	1	0.59	0.70	59	70	58-125	18	20	N2
Benzo(a)anthracene	ug/L	1	0.56	0.67	56	67	58-125	18	20	L0,N2
Benzo(a)pyrene	ug/L	1	0.63	0.78	63	78	54-125	21	20	N2,R1
Benzo(b)fluoranthene	ug/L	1	0.61	0.81	61	81	49-125	28	20	N2,R1
Benzo(e)pyrene	ug/L	1	0.62	0.80	62	80	53-125	26	20	N2,R1
Benzo(g,h,i)perylene	ug/L	1	0.52	0.57	52	57	30-125	10	20	N2
Benzo(k)fluoranthene	ug/L	1	0.60	0.66	60	66	53-125	10	20	N2
Chrysene	ug/L	1	0.58	0.69	58	69	55-125	18	20	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

Parameter	Units	Spike Conc.	2506349		2506350		% Rec Limits	RPD	Max RPD	Qualifiers
			LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
Dibenz(a,h)anthracene	ug/L	1	0.51	0.55	51	55	30-125	8	20	N2
Dibenzofuran	ug/L	1	0.60	0.70	60	70	52-125	15	20	N2
Fluoranthene	ug/L	1	0.56	0.66	56	66	49-125	18	20	N2
Fluorene	ug/L	1	0.55	0.65	55	65	49-125	15	20	N2
Indeno(1,2,3-cd)pyrene	ug/L	1	0.60	0.68	60	68	42-125	14	20	N2
Naphthalene	ug/L	1	0.56	0.65	56	65	49-125	14	20	N2
Phenanthrene	ug/L	1	0.59	0.69	59	69	51-125	16	20	N2
Pyrene	ug/L	1	0.56	0.67	56	67	45-125	17	20	N2
2-Fluorobiphenyl (S)	%.				61	72	48-125			N2
p-Terphenyl-d14 (S)	%.				60	72	51-125			N2

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**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

### BATCH QUALIFIERS

Batch: 458504

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

### ANALYTE QUALIFIERS

1M Reanalysis conducted in excess of EPA method holding time. Results do not confirm original analysis performed in hold time for Acenaphthene.

H5 Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.

N2 The lab does not hold NELAC/TNI accreditation for this parameter.

R1 RPD value was outside control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2118-0002 Former MGP

Pace Project No.: 10377225

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10377225001	MW-16	EPA Mod. 3510C	457876	EPA 8270D by HVI	458504
10377225002	MW-20	EPA Mod. 3510C	457876	EPA 8270D by HVI	458504
10377225003	MW-15	EPA Mod. 3510C	457876	EPA 8270D by HVI	458504
10377225004	MW-12	EPA Mod. 3510C	457876	EPA 8270D by HVI	458504
10377225005	MW-17	EPA Mod. 3510C	457876	EPA 8270D by HVI	458504
10377225006	MW-21	EPA Mod. 3510C	457876	EPA 8270D by HVI	458504
10377225001	MW-16	EPA 8260B	457926		
10377225002	MW-20	EPA 8260B	457926		
10377225003	MW-15	EPA 8260B	457926		
10377225004	MW-12	EPA 8260B	457926		
10377225005	MW-17	EPA 8260B	457926		
10377225006	MW-21	EPA 8260B	457926		

### REPORT OF LABORATORY ANALYSIS

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**CHAIN-OF-CUSTODY / Analytical Request Document**

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1037 7225

**Section A**  
Required Client Information:  
Company: Summit Environmental Solutions  
Address: 1217 Bandana Blvd N  
St. Paul, MN 55108  
Email To: bgregg@summitc.com  
Phone: 651-262-4130 Fax:  
Requested Due Date/TAT:

**Section B**  
Required Project Information:  
Report To: Bill Gregg  
Copy To:  
Purchase Order No.: 2118-0002  
Project Name: Former MGP  
Project Number: 2118-0002

**Section C**  
Invoice Information:  
Attention: Same  
Company Name:  
Address:  
Face Quote Reference:  
Face Project Manager: Kabar Xiong  
Face Profile #: 36995

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER  
 Site Location: WI  
 STATE:

ITEM #	Section D Required Client Information <b>SAMPLE ID</b> (A-Z, 0-9 / - / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	COLLECTED		SAMPLE TEMP AT COLLECTION °C	# OF CONTAINERS	Preservatives							Analysis Test ↑	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB			DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH				
1	MW-16				1/24/17	900	10	5	X								001
2	MW-20				1/15/17	1015	7	1									002
3	MW-15				1/13/17	1135	8	1									003
4	MW-17				12-15-16		6	1									004
5	MW-17				1400		8	1									005
6	MW-21				1515		9.5	1									006

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	RECEIVED ON	Temp in °C	Sealed Caddy	Custody	Samples Intact
	Ryan Anderson / Summit	1/24/17	1030	Kristina Polson	1/24/17	1630	0.0	0.0	Y	N	Y
	Kristina Polson	1/25/17	1550	Ryan Anderson	1/25/17	1550			Y		
		1/25/17	1815	Ryan Anderson	1-25-17	1815	0.1	0.1	Y	Y	Y

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007



Document Name: Document Revised: 19Dec2016  
 Sample Condition Upon Receipt Form Page 1 of 2  
 Document No.: Issuing Authority:  
 F-MN-L-213-rev.20 Pace Minnesota Quality Office

**Sample Condition Upon Receipt**

Client Name: **SUMMIT ENVIRONMENTAL SOLUTIONS** Project #: **W0# : 10377225**

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Speedee  Other:



10377225

Tracking Number:

Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No Optional: Proj. Due Date: Proj. Name: Temp Blank?  Yes  No

Packing Material:  Bubble Wrap  None  Other: Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun

Thermometer  151401163  151401164

Cooler Temp Read (°C): 0.5 Cooler Temp Corrected (°C): 0.4 Biological Tissue Frozen?  Yes  No  N/A  
 Temp should be above freezing to 6°C Correction Factor: -0.1 Date and Initials of Person Examining Contents: BC 1-25-17

**USDA Regulated Soil** ( M/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No  No  Yes  No  Yes  No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

COMMENTS:	
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	
All containers needing acid/base preservation have been checked?	
All containers needing preservation are found to be in compliance with EPA recommendation?	
(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) Exceptions: <u>VOA</u> Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin.	
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Pace Trip Blank Lot # (if purchased):	
Sample #	Initial when completed: Lot # of added preservative:
13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH	Positive for Res. Chlorine? Y N

**CLIENT NOTIFICATION/RESOLUTION**

Person Contacted:

Date/Time:

Field Data Required?  Yes  No

Comments/Resolution:

**Project Manager Review:**

Date:

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHMR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).



February 08, 2017

Bill Gregg  
Summit Envirosolutions  
1217 Bandana Blvd  
Saint Paul, MN 55108

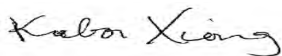
RE: Project: 2118-0002 Former MGP  
Pace Project No.: 10377374

Dear Bill Gregg:

Enclosed are the analytical results for sample(s) received by the laboratory on January 26, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kabor Xiong  
kabor.xiong@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

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### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

Alaska Certification UST-107

525 N 8th Street, Salina, KS 67401

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN\_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10377374001	MW-8	Water	01/25/17 09:00	01/26/17 15:00
10377374002	MW-22	Water	01/25/17 12:20	01/26/17 15:00
10377374003	MW-14	Water	01/25/17 14:00	01/26/17 15:00
10377374004	MW-14D	Water	01/25/17 14:00	01/26/17 15:00
10377374005	MW-9	Water	01/25/17 15:40	01/26/17 15:00
10377374006	MW-25-20170124	Water	01/24/17 16:35	01/26/17 15:00
10377374007	MW-26-20170125	Water	01/25/17 07:35	01/26/17 15:00
10377374008	MW-26D-20170125	Water	01/25/17 07:35	01/26/17 15:00
10377374009	MW-13-20170125	Water	01/25/17 09:10	01/26/17 15:00
10377374010	MW-4-20170125	Water	01/25/17 09:45	01/26/17 15:00
10377374011	MW-2-20170125	Water	01/25/17 11:45	01/26/17 15:00
10377374012	MW-1-20170125	Water	01/25/17 13:00	01/26/17 15:00
10377374013	MW-10-20170125	Water	01/25/17 15:00	01/26/17 15:00
10377374014	Trip Blank	Water		01/26/17 15:00

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10377374001	MW-8	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10377374002	MW-22	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10377374003	MW-14	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10377374004	MW-14D	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10377374005	MW-9	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10377374006	MW-25-20170124	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	DJB	70	PASI-M
10377374007	MW-26-20170125	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10377374008	MW-26D-20170125	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10377374009	MW-13-20170125	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10377374010	MW-4-20170125	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10377374011	MW-2-20170125	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10377374012	MW-1-20170125	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10377374013	MW-10-20170125	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10377374014	Trip Blank	EPA 8260B	PRD	70	PASI-M

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

**Sample: MW-8**      **Lab ID: 10377374001**      Collected: 01/25/17 09:00      Received: 01/26/17 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI      Preparation Method: EPA Mod. 3510C									
Acenaphthene	44.7	ug/L	0.32	0.095	10	01/30/17 14:20	02/07/17 21:53	83-32-9	N2
Acenaphthylene	6.7	ug/L	0.31	0.092	10	01/30/17 14:20	02/07/17 21:53	208-96-8	N2
Anthracene	4.2	ug/L	0.027	0.0082	1	01/30/17 14:20	02/06/17 13:11	120-12-7	N2
Benzo(a)anthracene	0.15	ug/L	0.033	0.0098	1	01/30/17 14:20	02/06/17 13:11	56-55-3	N2
Benzo(a)pyrene	<0.0083	ug/L	0.0083	0.0025	1	01/30/17 14:20	02/06/17 13:11	50-32-8	N2
Benzo(b)fluoranthene	0.048	ug/L	0.0057	0.0017	1	01/30/17 14:20	02/06/17 13:11	205-99-2	N2
Benzo(e)pyrene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 13:11	192-97-2	N2
Benzo(g,h,i)perylene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 13:11	191-24-2	N2
Benzo(k)fluoranthene	<0.033	ug/L	0.033	0.0099	1	01/30/17 14:20	02/06/17 13:11	207-08-9	N2
2-Chloronaphthalene	0.13	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 13:11	91-58-7	N2
Chrysene	0.15	ug/L	0.0080	0.0024	1	01/30/17 14:20	02/06/17 13:11	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:20	02/06/17 13:11	53-70-3	N2
Dibenzofuran	0.64	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 13:11	132-64-9	N2
Fluoranthene	2.2	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 13:11	206-44-0	N2
Fluorene	11.9	ug/L	0.31	0.094	10	01/30/17 14:20	02/07/17 21:53	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.0047	0.0014	1	01/30/17 14:20	02/06/17 13:11	193-39-5	N2
1-Methylnaphthalene	56.5	ug/L	2.3	0.69	100	01/30/17 14:20	02/07/17 22:17	90-12-0	N2
2-Methylnaphthalene	63.8	ug/L	3.7	1.1	100	01/30/17 14:20	02/07/17 22:17	91-57-6	N2
Naphthalene	439	ug/L	4.0	1.2	100	01/30/17 14:20	02/07/17 22:17	91-20-3	N2
Phenanthrene	19.0	ug/L	0.31	0.094	10	01/30/17 14:20	02/07/17 21:53	85-01-8	N2
Pyrene	3.4	ug/L	0.0097	0.0029	1	01/30/17 14:20	02/06/17 13:11	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	68	%	48-125		1	01/30/17 14:20	02/06/17 13:11	321-60-8	N2
p-Terphenyl-d14 (S)	79	%	51-125		1	01/30/17 14:20	02/06/17 13:11	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<10000	ug/L	10000	1000	500		02/02/17 05:17	67-64-1	
Allyl chloride	<2000	ug/L	2000	125	500		02/02/17 05:17	107-05-1	
Benzene	63800	ug/L	500	77.5	500		02/02/17 05:17	71-43-2	
Bromobenzene	<500	ug/L	500	168	500		02/02/17 05:17	108-86-1	
Bromochloromethane	<500	ug/L	500	93.0	500		02/02/17 05:17	74-97-5	
Bromodichloromethane	<500	ug/L	500	120	500		02/02/17 05:17	75-27-4	
Bromoform	<2000	ug/L	2000	137	500		02/02/17 05:17	75-25-2	
Bromomethane	<5000	ug/L	5000	222	500		02/02/17 05:17	74-83-9	
2-Butanone (MEK)	<2500	ug/L	2500	550	500		02/02/17 05:17	78-93-3	
n-Butylbenzene	<500	ug/L	500	80.0	500		02/02/17 05:17	104-51-8	
sec-Butylbenzene	<500	ug/L	500	94.5	500		02/02/17 05:17	135-98-8	
tert-Butylbenzene	<500	ug/L	500	112	500		02/02/17 05:17	98-06-6	
Carbon tetrachloride	<500	ug/L	500	98.5	500		02/02/17 05:17	56-23-5	
Chlorobenzene	<500	ug/L	500	57.0	500		02/02/17 05:17	108-90-7	
Chloroethane	<2000	ug/L	2000	171	500		02/02/17 05:17	75-00-3	
Chloroform	<500	ug/L	500	105	500		02/02/17 05:17	67-66-3	
Chloromethane	<2000	ug/L	2000	123	500		02/02/17 05:17	74-87-3	
2-Chlorotoluene	<500	ug/L	500	148	500		02/02/17 05:17	95-49-8	
4-Chlorotoluene	<500	ug/L	500	128	500		02/02/17 05:17	106-43-4	
1,2-Dibromo-3-chloropropane	<5000	ug/L	5000	300	500		02/02/17 05:17	96-12-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

**Sample: MW-8**      **Lab ID: 10377374001**      Collected: 01/25/17 09:00      Received: 01/26/17 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<2000	ug/L	2000	78.5	500		02/02/17 05:17	124-48-1	
1,2-Dibromoethane (EDB)	<500	ug/L	500	100	500		02/02/17 05:17	106-93-4	
Dibromomethane	<2000	ug/L	2000	97.0	500		02/02/17 05:17	74-95-3	
1,2-Dichlorobenzene	<500	ug/L	500	85.5	500		02/02/17 05:17	95-50-1	
1,3-Dichlorobenzene	<500	ug/L	500	57.5	500		02/02/17 05:17	541-73-1	
1,4-Dichlorobenzene	<500	ug/L	500	106	500		02/02/17 05:17	106-46-7	
Dichlorodifluoromethane	<500	ug/L	500	113	500		02/02/17 05:17	75-71-8	
1,1-Dichloroethane	<500	ug/L	500	85.5	500		02/02/17 05:17	75-34-3	
1,2-Dichloroethane	<500	ug/L	500	85.0	500		02/02/17 05:17	107-06-2	
1,1-Dichloroethene	<500	ug/L	500	138	500		02/02/17 05:17	75-35-4	
cis-1,2-Dichloroethene	<500	ug/L	500	60.0	500		02/02/17 05:17	156-59-2	
trans-1,2-Dichloroethene	<500	ug/L	500	81.0	500		02/02/17 05:17	156-60-5	
Dichlorofluoromethane	<500	ug/L	500	107	500		02/02/17 05:17	75-43-4	
1,2-Dichloropropane	<2000	ug/L	2000	111	500		02/02/17 05:17	78-87-5	
1,3-Dichloropropane	<500	ug/L	500	48.0	500		02/02/17 05:17	142-28-9	
2,2-Dichloropropane	<2000	ug/L	2000	64.0	500		02/02/17 05:17	594-20-7	
1,1-Dichloropropene	<500	ug/L	500	114	500		02/02/17 05:17	563-58-6	
cis-1,3-Dichloropropene	<2000	ug/L	2000	75.0	500		02/02/17 05:17	10061-01-5	
trans-1,3-Dichloropropene	<2000	ug/L	2000	73.5	500		02/02/17 05:17	10061-02-6	
Diethyl ether (Ethyl ether)	<2000	ug/L	2000	97.0	500		02/02/17 05:17	60-29-7	
Ethylbenzene	1060	ug/L	500	76.0	500		02/02/17 05:17	100-41-4	
Hexachloro-1,3-butadiene	<500	ug/L	500	89.0	500		02/02/17 05:17	87-68-3	L2
Isopropylbenzene (Cumene)	<500	ug/L	500	126	500		02/02/17 05:17	98-82-8	
p-Isopropyltoluene	<500	ug/L	500	97.0	500		02/02/17 05:17	99-87-6	
Methylene Chloride	<2000	ug/L	2000	146	500		02/02/17 05:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	<2500	ug/L	2500	216	500		02/02/17 05:17	108-10-1	
Methyl-tert-butyl ether	<500	ug/L	500	74.5	500		02/02/17 05:17	1634-04-4	
Naphthalene	<2000	ug/L	2000	102	500		02/02/17 05:17	91-20-3	
n-Propylbenzene	<500	ug/L	500	116	500		02/02/17 05:17	103-65-1	
Styrene	4490	ug/L	500	143	500		02/02/17 05:17	100-42-5	
1,1,1,2-Tetrachloroethane	<500	ug/L	500	83.0	500		02/02/17 05:17	630-20-6	
1,1,2,2-Tetrachloroethane	<500	ug/L	500	112	500		02/02/17 05:17	79-34-5	
Tetrachloroethene	<500	ug/L	500	126	500		02/02/17 05:17	127-18-4	
Tetrahydrofuran	<5000	ug/L	5000	750	500		02/02/17 05:17	109-99-9	
Toluene	58500	ug/L	500	72.5	500		02/02/17 05:17	108-88-3	
1,2,3-Trichlorobenzene	<500	ug/L	500	106	500		02/02/17 05:17	87-61-6	
1,2,4-Trichlorobenzene	<500	ug/L	500	106	500		02/02/17 05:17	120-82-1	
1,1,1-Trichloroethane	<500	ug/L	500	85.0	500		02/02/17 05:17	71-55-6	
1,1,2-Trichloroethane	<500	ug/L	500	76.0	500		02/02/17 05:17	79-00-5	
Trichloroethene	<200	ug/L	200	26.0	500		02/02/17 05:17	79-01-6	
Trichlorofluoromethane	<500	ug/L	500	163	500		02/02/17 05:17	75-69-4	
1,2,3-Trichloropropane	<2000	ug/L	2000	142	500		02/02/17 05:17	96-18-4	
1,1,2-Trichlorotrifluoroethane	<500	ug/L	500	160	500		02/02/17 05:17	76-13-1	
1,2,4-Trimethylbenzene	657	ug/L	500	89.0	500		02/02/17 05:17	95-63-6	
1,3,5-Trimethylbenzene	<500	ug/L	500	134	500		02/02/17 05:17	108-67-8	
Vinyl chloride	<100	ug/L	100	34.5	500		02/02/17 05:17	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

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**Sample: MW-8**      **Lab ID: 10377374001**      Collected: 01/25/17 09:00      Received: 01/26/17 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<b>17800</b>	ug/L	1500	158	500		02/02/17 05:17	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-125		500		02/02/17 05:17	17060-07-0	
Toluene-d8 (S)	102	%	75-125		500		02/02/17 05:17	2037-26-5	
4-Bromofluorobenzene (S)	109	%	75-125		500		02/02/17 05:17	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Sample: MW-22 Lab ID: 10377374002 Collected: 01/25/17 12:20 Received: 01/26/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI Preparation Method: EPA Mod. 3510C									
Acenaphthene	0.079	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 13:35	83-32-9	N2
Acenaphthylene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 13:35	208-96-8	N2
Anthracene	0.10	ug/L	0.027	0.0082	1	01/30/17 14:20	02/06/17 13:35	120-12-7	N2
Benzo(a)anthracene	<0.033	ug/L	0.033	0.0098	1	01/30/17 14:20	02/06/17 13:35	56-55-3	N2
Benzo(a)pyrene	<0.0083	ug/L	0.0083	0.0025	1	01/30/17 14:20	02/06/17 13:35	50-32-8	N2
Benzo(b)fluoranthene	<0.0057	ug/L	0.0057	0.0017	1	01/30/17 14:20	02/06/17 13:35	205-99-2	N2
Benzo(e)pyrene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 13:35	192-97-2	N2
Benzo(g,h,i)perylene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 13:35	191-24-2	N2
Benzo(k)fluoranthene	<0.033	ug/L	0.033	0.0099	1	01/30/17 14:20	02/06/17 13:35	207-08-9	N2
2-Chloronaphthalene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 13:35	91-58-7	N2
Chrysene	<0.0080	ug/L	0.0080	0.0024	1	01/30/17 14:20	02/06/17 13:35	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:20	02/06/17 13:35	53-70-3	N2
Dibenzofuran	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 13:35	132-64-9	N2
Fluoranthene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 13:35	206-44-0	N2
Fluorene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 13:35	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.0047	0.0014	1	01/30/17 14:20	02/06/17 13:35	193-39-5	N2
1-Methylnaphthalene	0.19	ug/L	0.023	0.0069	1	01/30/17 14:20	02/06/17 13:35	90-12-0	N2
2-Methylnaphthalene	0.13	ug/L	0.037	0.011	1	01/30/17 14:20	02/06/17 13:35	91-57-6	N2
Naphthalene	0.44	ug/L	0.040	0.012	1	01/30/17 14:20	02/06/17 13:35	91-20-3	N2
Phenanthrene	0.042	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 13:35	85-01-8	N2
Pyrene	<0.0097	ug/L	0.0097	0.0029	1	01/30/17 14:20	02/06/17 13:35	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	67	%	48-125		1	01/30/17 14:20	02/06/17 13:35	321-60-8	N2
p-Terphenyl-d14 (S)	75	%	51-125		1	01/30/17 14:20	02/06/17 13:35	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	150	ug/L	20.0	2.0	1		02/02/17 00:34	67-64-1	
Allyl chloride	<4.0	ug/L	4.0	0.25	1		02/02/17 00:34	107-05-1	
Benzene	4.6	ug/L	1.0	0.16	1		02/02/17 00:34	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		02/02/17 00:34	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		02/02/17 00:34	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		02/02/17 00:34	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		02/02/17 00:34	75-25-2	
Bromomethane	<10.0	ug/L	10.0	0.44	1		02/02/17 00:34	74-83-9	
2-Butanone (MEK)	13.9	ug/L	5.0	1.1	1		02/02/17 00:34	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		02/02/17 00:34	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.19	1		02/02/17 00:34	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		02/02/17 00:34	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		02/02/17 00:34	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		02/02/17 00:34	108-90-7	
Chloroethane	<4.0	ug/L	4.0	0.34	1		02/02/17 00:34	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		02/02/17 00:34	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		02/02/17 00:34	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		02/02/17 00:34	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		02/02/17 00:34	106-43-4	
1,2-Dibromo-3-chloropropane	<10.0	ug/L	10.0	0.60	1		02/02/17 00:34	96-12-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

**Sample: MW-22**      **Lab ID: 10377374002**      Collected: 01/25/17 12:20      Received: 01/26/17 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<4.0	ug/L	4.0	0.16	1		02/02/17 00:34	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		02/02/17 00:34	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		02/02/17 00:34	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		02/02/17 00:34	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		02/02/17 00:34	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 00:34	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		02/02/17 00:34	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 00:34	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 00:34	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		02/02/17 00:34	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		02/02/17 00:34	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		02/02/17 00:34	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		02/02/17 00:34	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		02/02/17 00:34	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		02/02/17 00:34	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		02/02/17 00:34	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		02/02/17 00:34	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		02/02/17 00:34	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		02/02/17 00:34	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		02/02/17 00:34	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		02/02/17 00:34	100-41-4	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	0.18	1		02/02/17 00:34	87-68-3	L2
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		02/02/17 00:34	98-82-8	
p-Isopropyltoluene	2.2	ug/L	1.0	0.19	1		02/02/17 00:34	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		02/02/17 00:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		02/02/17 00:34	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		02/02/17 00:34	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		02/02/17 00:34	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		02/02/17 00:34	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		02/02/17 00:34	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 00:34	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		02/02/17 00:34	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		02/02/17 00:34	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		02/02/17 00:34	109-99-9	
Toluene	2.0	ug/L	1.0	0.14	1		02/02/17 00:34	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 00:34	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 00:34	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 00:34	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		02/02/17 00:34	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		02/02/17 00:34	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		02/02/17 00:34	75-69-4	
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		02/02/17 00:34	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	0.32	1		02/02/17 00:34	76-13-1	
1,2,4-Trimethylbenzene	4.4	ug/L	1.0	0.18	1		02/02/17 00:34	95-63-6	
1,3,5-Trimethylbenzene	2.6	ug/L	1.0	0.27	1		02/02/17 00:34	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		02/02/17 00:34	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

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**Sample: MW-22**      **Lab ID: 10377374002**      Collected: 01/25/17 12:20      Received: 01/26/17 15:00      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<3.0	ug/L	3.0	0.32	1		02/02/17 00:34	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%	75-125		1		02/02/17 00:34	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1		02/02/17 00:34	2037-26-5	
4-Bromofluorobenzene (S)	108	%	75-125		1		02/02/17 00:34	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

**Sample: MW-14**      **Lab ID: 10377374003**      Collected: 01/25/17 14:00      Received: 01/26/17 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI      Preparation Method: EPA Mod. 3510C									
Acenaphthene	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 13:59	83-32-9	N2
Acenaphthylene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 13:59	208-96-8	N2
Anthracene	<0.027	ug/L	0.027	0.0082	1	01/30/17 14:20	02/06/17 13:59	120-12-7	N2
Benzo(a)anthracene	<0.033	ug/L	0.033	0.0098	1	01/30/17 14:20	02/06/17 13:59	56-55-3	N2
Benzo(a)pyrene	<0.0083	ug/L	0.0083	0.0025	1	01/30/17 14:20	02/06/17 13:59	50-32-8	N2
Benzo(b)fluoranthene	<0.0057	ug/L	0.0057	0.0017	1	01/30/17 14:20	02/06/17 13:59	205-99-2	N2
Benzo(e)pyrene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 13:59	192-97-2	N2
Benzo(g,h,i)perylene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 13:59	191-24-2	N2
Benzo(k)fluoranthene	<0.033	ug/L	0.033	0.0099	1	01/30/17 14:20	02/06/17 13:59	207-08-9	N2
2-Chloronaphthalene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 13:59	91-58-7	N2
Chrysene	<0.0080	ug/L	0.0080	0.0024	1	01/30/17 14:20	02/06/17 13:59	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:20	02/06/17 13:59	53-70-3	N2
Dibenzofuran	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 13:59	132-64-9	N2
Fluoranthene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 13:59	206-44-0	N2
Fluorene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 13:59	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.0047	0.0014	1	01/30/17 14:20	02/06/17 13:59	193-39-5	N2
1-Methylnaphthalene	<0.023	ug/L	0.023	0.0069	1	01/30/17 14:20	02/06/17 13:59	90-12-0	N2
2-Methylnaphthalene	<0.037	ug/L	0.037	0.011	1	01/30/17 14:20	02/06/17 13:59	91-57-6	N2
Naphthalene	<0.040	ug/L	0.040	0.012	1	01/30/17 14:20	02/06/17 13:59	91-20-3	N2
Phenanthrene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 13:59	85-01-8	N2
Pyrene	<0.0097	ug/L	0.0097	0.0029	1	01/30/17 14:20	02/06/17 13:59	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	75	%	48-125		1	01/30/17 14:20	02/06/17 13:59	321-60-8	N2
p-Terphenyl-d14 (S)	76	%	51-125		1	01/30/17 14:20	02/06/17 13:59	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		02/02/17 00:50	67-64-1	
Allyl chloride	<4.0	ug/L	4.0	0.25	1		02/02/17 00:50	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		02/02/17 00:50	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		02/02/17 00:50	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		02/02/17 00:50	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		02/02/17 00:50	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		02/02/17 00:50	75-25-2	
Bromomethane	<10.0	ug/L	10.0	0.44	1		02/02/17 00:50	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		02/02/17 00:50	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		02/02/17 00:50	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.19	1		02/02/17 00:50	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		02/02/17 00:50	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		02/02/17 00:50	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		02/02/17 00:50	108-90-7	
Chloroethane	<4.0	ug/L	4.0	0.34	1		02/02/17 00:50	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		02/02/17 00:50	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		02/02/17 00:50	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		02/02/17 00:50	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		02/02/17 00:50	106-43-4	
1,2-Dibromo-3-chloropropane	<10.0	ug/L	10.0	0.60	1		02/02/17 00:50	96-12-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

**Sample: MW-14**      **Lab ID: 10377374003**      Collected: 01/25/17 14:00      Received: 01/26/17 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<4.0	ug/L	4.0	0.16	1		02/02/17 00:50	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		02/02/17 00:50	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		02/02/17 00:50	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		02/02/17 00:50	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		02/02/17 00:50	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 00:50	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		02/02/17 00:50	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 00:50	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 00:50	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		02/02/17 00:50	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		02/02/17 00:50	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		02/02/17 00:50	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		02/02/17 00:50	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		02/02/17 00:50	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		02/02/17 00:50	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		02/02/17 00:50	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		02/02/17 00:50	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		02/02/17 00:50	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		02/02/17 00:50	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		02/02/17 00:50	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		02/02/17 00:50	100-41-4	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	0.18	1		02/02/17 00:50	87-68-3	L2
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		02/02/17 00:50	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.19	1		02/02/17 00:50	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		02/02/17 00:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		02/02/17 00:50	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		02/02/17 00:50	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		02/02/17 00:50	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		02/02/17 00:50	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		02/02/17 00:50	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 00:50	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		02/02/17 00:50	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		02/02/17 00:50	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		02/02/17 00:50	109-99-9	
Toluene	<1.0	ug/L	1.0	0.14	1		02/02/17 00:50	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 00:50	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 00:50	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 00:50	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		02/02/17 00:50	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		02/02/17 00:50	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		02/02/17 00:50	75-69-4	
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		02/02/17 00:50	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	0.32	1		02/02/17 00:50	76-13-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		02/02/17 00:50	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		02/02/17 00:50	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		02/02/17 00:50	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

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**Sample: MW-14**      **Lab ID: 10377374003**      Collected: 01/25/17 14:00      Received: 01/26/17 15:00      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Xylene (Total)	<3.0	ug/L	3.0	0.32	1		02/02/17 00:50	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	110	%	75-125		1		02/02/17 00:50	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1		02/02/17 00:50	2037-26-5	
4-Bromofluorobenzene (S)	108	%	75-125		1		02/02/17 00:50	460-00-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Sample: MW-14D Lab ID: 10377374004 Collected: 01/25/17 14:00 Received: 01/26/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI Preparation Method: EPA Mod. 3510C									
Acenaphthene	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 14:23	83-32-9	N2
Acenaphthylene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 14:23	208-96-8	N2
Anthracene	<0.027	ug/L	0.027	0.0082	1	01/30/17 14:20	02/06/17 14:23	120-12-7	N2
Benzo(a)anthracene	<0.033	ug/L	0.033	0.0098	1	01/30/17 14:20	02/06/17 14:23	56-55-3	N2
Benzo(a)pyrene	<0.0083	ug/L	0.0083	0.0025	1	01/30/17 14:20	02/06/17 14:23	50-32-8	N2
Benzo(b)fluoranthene	<0.0057	ug/L	0.0057	0.0017	1	01/30/17 14:20	02/06/17 14:23	205-99-2	N2
Benzo(e)pyrene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 14:23	192-97-2	N2
Benzo(g,h,i)perylene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 14:23	191-24-2	N2
Benzo(k)fluoranthene	<0.033	ug/L	0.033	0.0099	1	01/30/17 14:20	02/06/17 14:23	207-08-9	N2
2-Chloronaphthalene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 14:23	91-58-7	N2
Chrysene	<0.0080	ug/L	0.0080	0.0024	1	01/30/17 14:20	02/06/17 14:23	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:20	02/06/17 14:23	53-70-3	N2
Dibenzofuran	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 14:23	132-64-9	N2
Fluoranthene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 14:23	206-44-0	N2
Fluorene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 14:23	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.0047	0.0014	1	01/30/17 14:20	02/06/17 14:23	193-39-5	N2
1-Methylnaphthalene	<0.023	ug/L	0.023	0.0069	1	01/30/17 14:20	02/06/17 14:23	90-12-0	N2
2-Methylnaphthalene	<0.037	ug/L	0.037	0.011	1	01/30/17 14:20	02/06/17 14:23	91-57-6	N2
Naphthalene	<0.040	ug/L	0.040	0.012	1	01/30/17 14:20	02/06/17 14:23	91-20-3	N2
Phenanthrene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 14:23	85-01-8	N2
Pyrene	<0.0097	ug/L	0.0097	0.0029	1	01/30/17 14:20	02/06/17 14:23	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	72	%	48-125		1	01/30/17 14:20	02/06/17 14:23	321-60-8	N2
p-Terphenyl-d14 (S)	74	%	51-125		1	01/30/17 14:20	02/06/17 14:23	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		02/02/17 01:05	67-64-1	
Allyl chloride	<4.0	ug/L	4.0	0.25	1		02/02/17 01:05	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		02/02/17 01:05	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		02/02/17 01:05	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		02/02/17 01:05	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		02/02/17 01:05	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		02/02/17 01:05	75-25-2	
Bromomethane	<10.0	ug/L	10.0	0.44	1		02/02/17 01:05	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		02/02/17 01:05	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		02/02/17 01:05	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.19	1		02/02/17 01:05	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		02/02/17 01:05	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		02/02/17 01:05	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		02/02/17 01:05	108-90-7	
Chloroethane	<4.0	ug/L	4.0	0.34	1		02/02/17 01:05	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		02/02/17 01:05	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		02/02/17 01:05	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		02/02/17 01:05	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		02/02/17 01:05	106-43-4	
1,2-Dibromo-3-chloropropane	<10.0	ug/L	10.0	0.60	1		02/02/17 01:05	96-12-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

**Sample: MW-14D**      **Lab ID: 10377374004**      Collected: 01/25/17 14:00      Received: 01/26/17 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<4.0	ug/L	4.0	0.16	1		02/02/17 01:05	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		02/02/17 01:05	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		02/02/17 01:05	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		02/02/17 01:05	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		02/02/17 01:05	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 01:05	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		02/02/17 01:05	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 01:05	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 01:05	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		02/02/17 01:05	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		02/02/17 01:05	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		02/02/17 01:05	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		02/02/17 01:05	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		02/02/17 01:05	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		02/02/17 01:05	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		02/02/17 01:05	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		02/02/17 01:05	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		02/02/17 01:05	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		02/02/17 01:05	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		02/02/17 01:05	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		02/02/17 01:05	100-41-4	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	0.18	1		02/02/17 01:05	87-68-3	L2
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		02/02/17 01:05	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.19	1		02/02/17 01:05	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		02/02/17 01:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		02/02/17 01:05	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		02/02/17 01:05	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		02/02/17 01:05	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		02/02/17 01:05	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		02/02/17 01:05	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 01:05	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		02/02/17 01:05	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		02/02/17 01:05	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		02/02/17 01:05	109-99-9	
Toluene	<1.0	ug/L	1.0	0.14	1		02/02/17 01:05	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 01:05	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 01:05	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 01:05	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		02/02/17 01:05	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		02/02/17 01:05	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		02/02/17 01:05	75-69-4	
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		02/02/17 01:05	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	0.32	1		02/02/17 01:05	76-13-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		02/02/17 01:05	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		02/02/17 01:05	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		02/02/17 01:05	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

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**Sample: MW-14D**      **Lab ID: 10377374004**      Collected: 01/25/17 14:00      Received: 01/26/17 15:00      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<3.0	ug/L	3.0	0.32	1		02/02/17 01:05	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-125		1		02/02/17 01:05	17060-07-0	
Toluene-d8 (S)	104	%	75-125		1		02/02/17 01:05	2037-26-5	
4-Bromofluorobenzene (S)	105	%	75-125		1		02/02/17 01:05	460-00-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Sample: MW-9 Lab ID: 10377374005 Collected: 01/25/17 15:40 Received: 01/26/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI Preparation Method: EPA Mod. 3510C									
Acenaphthene	93.4	ug/L	3.2	0.95	100	01/30/17 14:20	02/07/17 23:04	83-32-9	N2
Acenaphthylene	2.6	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 14:47	208-96-8	N2
Anthracene	8.7	ug/L	0.27	0.082	10	01/30/17 14:20	02/07/17 22:40	120-12-7	N2
Benzo(a)anthracene	0.90	ug/L	0.033	0.0098	1	01/30/17 14:20	02/06/17 14:47	56-55-3	N2
Benzo(a)pyrene	0.51	ug/L	0.0083	0.0025	1	01/30/17 14:20	02/06/17 14:47	50-32-8	N2
Benzo(b)fluoranthene	0.44	ug/L	0.0057	0.0017	1	01/30/17 14:20	02/06/17 14:47	205-99-2	N2
Benzo(e)pyrene	0.31	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 14:47	192-97-2	N2
Benzo(g,h,i)perylene	0.17	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 14:47	191-24-2	N2
Benzo(k)fluoranthene	0.13	ug/L	0.033	0.0099	1	01/30/17 14:20	02/06/17 14:47	207-08-9	N2
2-Chloronaphthalene	0.20	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 14:47	91-58-7	N2
Chrysene	0.95	ug/L	0.0080	0.0024	1	01/30/17 14:20	02/06/17 14:47	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:20	02/06/17 14:47	53-70-3	N2
Dibenzofuran	1.2	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 14:47	132-64-9	N2
Fluoranthene	4.2	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 14:47	206-44-0	N2
Fluorene	23.7	ug/L	0.31	0.094	10	01/30/17 14:20	02/07/17 22:40	86-73-7	N2
Indeno(1,2,3-cd)pyrene	0.12	ug/L	0.0047	0.0014	1	01/30/17 14:20	02/06/17 14:47	193-39-5	N2
1-Methylnaphthalene	118	ug/L	2.3	0.69	100	01/30/17 14:20	02/07/17 23:04	90-12-0	N2
2-Methylnaphthalene	142	ug/L	3.7	1.1	100	01/30/17 14:20	02/07/17 23:04	91-57-6	N2
Naphthalene	594	ug/L	8.0	2.4	200	01/30/17 14:20	02/08/17 15:12	91-20-3	N2
Phenanthrene	39.4	ug/L	0.31	0.094	10	01/30/17 14:20	02/07/17 22:40	85-01-8	N2
Pyrene	7.1	ug/L	0.097	0.029	10	01/30/17 14:20	02/07/17 22:40	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	53	%	48-125		1	01/30/17 14:20	02/06/17 14:47	321-60-8	N2
p-Terphenyl-d14 (S)	40	%	51-125		1	01/30/17 14:20	02/06/17 14:47	1718-51-0	N2,S5
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<2000	ug/L	2000	201	100		02/02/17 05:01	67-64-1	
Allyl chloride	<400	ug/L	400	25.0	100		02/02/17 05:01	107-05-1	
Benzene	15100	ug/L	100	15.5	100		02/02/17 05:01	71-43-2	
Bromobenzene	<100	ug/L	100	33.7	100		02/02/17 05:01	108-86-1	
Bromochloromethane	<100	ug/L	100	18.6	100		02/02/17 05:01	74-97-5	
Bromodichloromethane	<100	ug/L	100	24.0	100		02/02/17 05:01	75-27-4	
Bromoform	<400	ug/L	400	27.4	100		02/02/17 05:01	75-25-2	
Bromomethane	<1000	ug/L	1000	44.3	100		02/02/17 05:01	74-83-9	
2-Butanone (MEK)	<500	ug/L	500	110	100		02/02/17 05:01	78-93-3	
n-Butylbenzene	<100	ug/L	100	16.0	100		02/02/17 05:01	104-51-8	
sec-Butylbenzene	<100	ug/L	100	18.9	100		02/02/17 05:01	135-98-8	
tert-Butylbenzene	<100	ug/L	100	22.3	100		02/02/17 05:01	98-06-6	
Carbon tetrachloride	<100	ug/L	100	19.7	100		02/02/17 05:01	56-23-5	
Chlorobenzene	<100	ug/L	100	11.4	100		02/02/17 05:01	108-90-7	
Chloroethane	<400	ug/L	400	34.2	100		02/02/17 05:01	75-00-3	
Chloroform	<100	ug/L	100	21.0	100		02/02/17 05:01	67-66-3	
Chloromethane	<400	ug/L	400	24.6	100		02/02/17 05:01	74-87-3	
2-Chlorotoluene	<100	ug/L	100	29.5	100		02/02/17 05:01	95-49-8	
4-Chlorotoluene	<100	ug/L	100	25.5	100		02/02/17 05:01	106-43-4	
1,2-Dibromo-3-chloropropane	<1000	ug/L	1000	60.0	100		02/02/17 05:01	96-12-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Sample: MW-9 Lab ID: 10377374005 Collected: 01/25/17 15:40 Received: 01/26/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<400	ug/L	400	15.7	100		02/02/17 05:01	124-48-1	
1,2-Dibromoethane (EDB)	<100	ug/L	100	20.0	100		02/02/17 05:01	106-93-4	
Dibromomethane	<400	ug/L	400	19.4	100		02/02/17 05:01	74-95-3	
1,2-Dichlorobenzene	<100	ug/L	100	17.1	100		02/02/17 05:01	95-50-1	
1,3-Dichlorobenzene	<100	ug/L	100	11.5	100		02/02/17 05:01	541-73-1	
1,4-Dichlorobenzene	<100	ug/L	100	21.1	100		02/02/17 05:01	106-46-7	
Dichlorodifluoromethane	<100	ug/L	100	22.6	100		02/02/17 05:01	75-71-8	
1,1-Dichloroethane	<100	ug/L	100	17.1	100		02/02/17 05:01	75-34-3	
1,2-Dichloroethane	<100	ug/L	100	17.0	100		02/02/17 05:01	107-06-2	
1,1-Dichloroethene	<100	ug/L	100	27.7	100		02/02/17 05:01	75-35-4	
cis-1,2-Dichloroethene	<100	ug/L	100	12.0	100		02/02/17 05:01	156-59-2	
trans-1,2-Dichloroethene	<100	ug/L	100	16.2	100		02/02/17 05:01	156-60-5	
Dichlorofluoromethane	<100	ug/L	100	21.4	100		02/02/17 05:01	75-43-4	
1,2-Dichloropropane	<400	ug/L	400	22.2	100		02/02/17 05:01	78-87-5	
1,3-Dichloropropane	<100	ug/L	100	9.6	100		02/02/17 05:01	142-28-9	
2,2-Dichloropropane	<400	ug/L	400	12.8	100		02/02/17 05:01	594-20-7	
1,1-Dichloropropene	<100	ug/L	100	22.7	100		02/02/17 05:01	563-58-6	
cis-1,3-Dichloropropene	<400	ug/L	400	15.0	100		02/02/17 05:01	10061-01-5	
trans-1,3-Dichloropropene	<400	ug/L	400	14.7	100		02/02/17 05:01	10061-02-6	
Diethyl ether (Ethyl ether)	<400	ug/L	400	19.4	100		02/02/17 05:01	60-29-7	
Ethylbenzene	874	ug/L	100	15.2	100		02/02/17 05:01	100-41-4	
Hexachloro-1,3-butadiene	<100	ug/L	100	17.8	100		02/02/17 05:01	87-68-3	L2
Isopropylbenzene (Cumene)	<100	ug/L	100	25.3	100		02/02/17 05:01	98-82-8	
p-Isopropyltoluene	<100	ug/L	100	19.4	100		02/02/17 05:01	99-87-6	
Methylene Chloride	<400	ug/L	400	29.3	100		02/02/17 05:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	<500	ug/L	500	43.2	100		02/02/17 05:01	108-10-1	
Methyl-tert-butyl ether	<100	ug/L	100	14.9	100		02/02/17 05:01	1634-04-4	
Naphthalene	948	ug/L	400	20.4	100		02/02/17 05:01	91-20-3	
n-Propylbenzene	<100	ug/L	100	23.3	100		02/02/17 05:01	103-65-1	
Styrene	286	ug/L	100	28.6	100		02/02/17 05:01	100-42-5	
1,1,1,2-Tetrachloroethane	<100	ug/L	100	16.6	100		02/02/17 05:01	630-20-6	
1,1,2,2-Tetrachloroethane	<100	ug/L	100	22.5	100		02/02/17 05:01	79-34-5	
Tetrachloroethene	<100	ug/L	100	25.3	100		02/02/17 05:01	127-18-4	
Tetrahydrofuran	<1000	ug/L	1000	150	100		02/02/17 05:01	109-99-9	
Toluene	12200	ug/L	100	14.5	100		02/02/17 05:01	108-88-3	
1,2,3-Trichlorobenzene	<100	ug/L	100	21.3	100		02/02/17 05:01	87-61-6	
1,2,4-Trichlorobenzene	<100	ug/L	100	21.3	100		02/02/17 05:01	120-82-1	
1,1,1-Trichloroethane	<100	ug/L	100	17.0	100		02/02/17 05:01	71-55-6	
1,1,2-Trichloroethane	<100	ug/L	100	15.2	100		02/02/17 05:01	79-00-5	
Trichloroethene	<40.0	ug/L	40.0	5.2	100		02/02/17 05:01	79-01-6	
Trichlorofluoromethane	<100	ug/L	100	32.6	100		02/02/17 05:01	75-69-4	
1,2,3-Trichloropropane	<400	ug/L	400	28.4	100		02/02/17 05:01	96-18-4	
1,1,2-Trichlorotrifluoroethane	<100	ug/L	100	32.0	100		02/02/17 05:01	76-13-1	
1,2,4-Trimethylbenzene	135	ug/L	100	17.8	100		02/02/17 05:01	95-63-6	
1,3,5-Trimethylbenzene	<100	ug/L	100	26.9	100		02/02/17 05:01	108-67-8	
Vinyl chloride	<20.0	ug/L	20.0	6.9	100		02/02/17 05:01	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

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**Sample: MW-9**      **Lab ID: 10377374005**      Collected: 01/25/17 15:40      Received: 01/26/17 15:00      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<b>3070</b>	ug/L	300	31.5	100		02/02/17 05:01	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-125		100		02/02/17 05:01	17060-07-0	
Toluene-d8 (S)	102	%	75-125		100		02/02/17 05:01	2037-26-5	
4-Bromofluorobenzene (S)	110	%	75-125		100		02/02/17 05:01	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Sample: MW-25-20170124 Lab ID: 10377374006 Collected: 01/24/17 16:35 Received: 01/26/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI Preparation Method: EPA Mod. 3510C									
Acenaphthene	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 15:10	83-32-9	N2
Acenaphthylene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 15:10	208-96-8	N2
Anthracene	<0.027	ug/L	0.027	0.0082	1	01/30/17 14:20	02/06/17 15:10	120-12-7	N2
Benzo(a)anthracene	<0.033	ug/L	0.033	0.0098	1	01/30/17 14:20	02/06/17 15:10	56-55-3	N2
Benzo(a)pyrene	<0.0083	ug/L	0.0083	0.0025	1	01/30/17 14:20	02/06/17 15:10	50-32-8	N2
Benzo(b)fluoranthene	<0.0057	ug/L	0.0057	0.0017	1	01/30/17 14:20	02/06/17 15:10	205-99-2	N2
Benzo(e)pyrene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 15:10	192-97-2	N2
Benzo(g,h,i)perylene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 15:10	191-24-2	N2
Benzo(k)fluoranthene	<0.033	ug/L	0.033	0.0099	1	01/30/17 14:20	02/06/17 15:10	207-08-9	N2
2-Chloronaphthalene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 15:10	91-58-7	N2
Chrysene	<0.0080	ug/L	0.0080	0.0024	1	01/30/17 14:20	02/06/17 15:10	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:20	02/06/17 15:10	53-70-3	N2
Dibenzofuran	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 15:10	132-64-9	N2
Fluoranthene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 15:10	206-44-0	N2
Fluorene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 15:10	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.0047	0.0014	1	01/30/17 14:20	02/06/17 15:10	193-39-5	N2
1-Methylnaphthalene	<0.023	ug/L	0.023	0.0069	1	01/30/17 14:20	02/06/17 15:10	90-12-0	N2
2-Methylnaphthalene	<0.037	ug/L	0.037	0.011	1	01/30/17 14:20	02/06/17 15:10	91-57-6	N2
Naphthalene	<0.040	ug/L	0.040	0.012	1	01/30/17 14:20	02/06/17 15:10	91-20-3	N2
Phenanthrene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 15:10	85-01-8	N2
Pyrene	0.076	ug/L	0.0097	0.0029	1	01/30/17 14:20	02/06/17 15:10	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	71	%	48-125		1	01/30/17 14:20	02/06/17 15:10	321-60-8	N2
p-Terphenyl-d14 (S)	76	%	51-125		1	01/30/17 14:20	02/06/17 15:10	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		01/31/17 06:23	67-64-1	
Allyl chloride	<4.0	ug/L	4.0	0.25	1		01/31/17 06:23	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		01/31/17 06:23	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		01/31/17 06:23	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		01/31/17 06:23	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		01/31/17 06:23	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		01/31/17 06:23	75-25-2	
Bromomethane	<4.0	ug/L	4.0	0.44	1		01/31/17 06:23	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		01/31/17 06:23	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		01/31/17 06:23	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.19	1		01/31/17 06:23	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		01/31/17 06:23	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		01/31/17 06:23	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		01/31/17 06:23	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.34	1		01/31/17 06:23	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		01/31/17 06:23	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		01/31/17 06:23	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		01/31/17 06:23	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		01/31/17 06:23	106-43-4	
1,2-Dibromo-3-chloropropane	<4.0	ug/L	4.0	0.60	1		01/31/17 06:23	96-12-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Sample: MW-25-20170124 Lab ID: 10377374006 Collected: 01/24/17 16:35 Received: 01/26/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<1.0	ug/L	1.0	0.16	1		01/31/17 06:23	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		01/31/17 06:23	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		01/31/17 06:23	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		01/31/17 06:23	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		01/31/17 06:23	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 06:23	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		01/31/17 06:23	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 06:23	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 06:23	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		01/31/17 06:23	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		01/31/17 06:23	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		01/31/17 06:23	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		01/31/17 06:23	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		01/31/17 06:23	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		01/31/17 06:23	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		01/31/17 06:23	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		01/31/17 06:23	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 06:23	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		01/31/17 06:23	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		01/31/17 06:23	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		01/31/17 06:23	100-41-4	
Hexachloro-1,3-butadiene	<4.0	ug/L	4.0	0.18	1		01/31/17 06:23	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		01/31/17 06:23	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.19	1		01/31/17 06:23	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		01/31/17 06:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		01/31/17 06:23	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		01/31/17 06:23	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		01/31/17 06:23	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		01/31/17 06:23	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		01/31/17 06:23	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 06:23	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		01/31/17 06:23	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		01/31/17 06:23	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		01/31/17 06:23	109-99-9	
Toluene	15.6	ug/L	1.0	0.14	1		01/31/17 06:23	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 06:23	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		01/31/17 06:23	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.17	1		01/31/17 06:23	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		01/31/17 06:23	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		01/31/17 06:23	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		01/31/17 06:23	75-69-4	L3
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		01/31/17 06:23	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	0.32	1		01/31/17 06:23	76-13-1	L3
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		01/31/17 06:23	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		01/31/17 06:23	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		01/31/17 06:23	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

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**Sample: MW-25-20170124**      **Lab ID: 10377374006**      Collected: 01/24/17 16:35      Received: 01/26/17 15:00      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<3.0	ug/L	3.0	0.32	1		01/31/17 06:23	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	96	%	75-125		1		01/31/17 06:23	17060-07-0	
Toluene-d8 (S)	93	%	75-125		1		01/31/17 06:23	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1		01/31/17 06:23	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Sample: **MW-26-20170125** Lab ID: **10377374007** Collected: 01/25/17 07:35 Received: 01/26/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI					Preparation Method: EPA Mod. 3510C				
Acenaphthene	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 15:34	83-32-9	N2
Acenaphthylene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 15:34	208-96-8	N2
Anthracene	<0.027	ug/L	0.027	0.0082	1	01/30/17 14:20	02/06/17 15:34	120-12-7	N2
Benzo(a)anthracene	<0.033	ug/L	0.033	0.0098	1	01/30/17 14:20	02/06/17 15:34	56-55-3	N2
Benzo(a)pyrene	<0.0083	ug/L	0.0083	0.0025	1	01/30/17 14:20	02/06/17 15:34	50-32-8	N2
Benzo(b)fluoranthene	<0.0057	ug/L	0.0057	0.0017	1	01/30/17 14:20	02/06/17 15:34	205-99-2	N2
Benzo(e)pyrene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 15:34	192-97-2	N2
Benzo(g,h,i)perylene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 15:34	191-24-2	N2
Benzo(k)fluoranthene	<0.033	ug/L	0.033	0.0099	1	01/30/17 14:20	02/06/17 15:34	207-08-9	N2
2-Chloronaphthalene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 15:34	91-58-7	N2
Chrysene	<0.0080	ug/L	0.0080	0.0024	1	01/30/17 14:20	02/06/17 15:34	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:20	02/06/17 15:34	53-70-3	N2
Dibenzofuran	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 15:34	132-64-9	N2
Fluoranthene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 15:34	206-44-0	N2
Fluorene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 15:34	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.0047	0.0014	1	01/30/17 14:20	02/06/17 15:34	193-39-5	N2
1-Methylnaphthalene	<0.023	ug/L	0.023	0.0069	1	01/30/17 14:20	02/06/17 15:34	90-12-0	N2
2-Methylnaphthalene	<0.037	ug/L	0.037	0.011	1	01/30/17 14:20	02/06/17 15:34	91-57-6	N2
Naphthalene	<0.040	ug/L	0.040	0.012	1	01/30/17 14:20	02/06/17 15:34	91-20-3	N2
Phenanthrene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 15:34	85-01-8	N2
Pyrene	<0.0097	ug/L	0.0097	0.0029	1	01/30/17 14:20	02/06/17 15:34	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	74	%	48-125		1	01/30/17 14:20	02/06/17 15:34	321-60-8	N2
p-Terphenyl-d14 (S)	74	%	51-125		1	01/30/17 14:20	02/06/17 15:34	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		02/02/17 02:40	67-64-1	B
Allyl chloride	<4.0	ug/L	4.0	0.25	1		02/02/17 02:40	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		02/02/17 02:40	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		02/02/17 02:40	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		02/02/17 02:40	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		02/02/17 02:40	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		02/02/17 02:40	75-25-2	
Bromomethane	<10.0	ug/L	10.0	0.44	1		02/02/17 02:40	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		02/02/17 02:40	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		02/02/17 02:40	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.19	1		02/02/17 02:40	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		02/02/17 02:40	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		02/02/17 02:40	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		02/02/17 02:40	108-90-7	
Chloroethane	<4.0	ug/L	4.0	0.34	1		02/02/17 02:40	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		02/02/17 02:40	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		02/02/17 02:40	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		02/02/17 02:40	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		02/02/17 02:40	106-43-4	
1,2-Dibromo-3-chloropropane	<10.0	ug/L	10.0	0.60	1		02/02/17 02:40	96-12-8	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Sample: MW-26-20170125 Lab ID: 10377374007 Collected: 01/25/17 07:35 Received: 01/26/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Dibromochloromethane	<4.0	ug/L	4.0	0.16	1		02/02/17 02:40	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		02/02/17 02:40	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		02/02/17 02:40	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		02/02/17 02:40	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		02/02/17 02:40	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 02:40	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		02/02/17 02:40	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 02:40	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 02:40	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		02/02/17 02:40	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		02/02/17 02:40	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		02/02/17 02:40	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		02/02/17 02:40	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		02/02/17 02:40	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		02/02/17 02:40	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		02/02/17 02:40	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		02/02/17 02:40	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		02/02/17 02:40	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		02/02/17 02:40	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		02/02/17 02:40	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		02/02/17 02:40	100-41-4	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	0.18	1		02/02/17 02:40	87-68-3	L2
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		02/02/17 02:40	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.19	1		02/02/17 02:40	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		02/02/17 02:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		02/02/17 02:40	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		02/02/17 02:40	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		02/02/17 02:40	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		02/02/17 02:40	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		02/02/17 02:40	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 02:40	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		02/02/17 02:40	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		02/02/17 02:40	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		02/02/17 02:40	109-99-9	
Toluene	1.2	ug/L	1.0	0.14	1		02/02/17 02:40	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 02:40	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 02:40	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 02:40	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		02/02/17 02:40	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		02/02/17 02:40	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		02/02/17 02:40	75-69-4	
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		02/02/17 02:40	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	0.32	1		02/02/17 02:40	76-13-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		02/02/17 02:40	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		02/02/17 02:40	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		02/02/17 02:40	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

**Sample: MW-26-20170125**      **Lab ID: 10377374007**      Collected: 01/25/17 07:35      Received: 01/26/17 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<3.0	ug/L	3.0	0.32	1		02/02/17 02:40	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%	75-125		1		02/02/17 02:40	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1		02/02/17 02:40	2037-26-5	
4-Bromofluorobenzene (S)	108	%	75-125		1		02/02/17 02:40	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Sample: MW-26D-20170125 Lab ID: 10377374008 Collected: 01/25/17 07:35 Received: 01/26/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI Preparation Method: EPA Mod. 3510C									
Acenaphthene	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 15:58	83-32-9	N2
Acenaphthylene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 15:58	208-96-8	N2
Anthracene	<0.027	ug/L	0.027	0.0082	1	01/30/17 14:20	02/06/17 15:58	120-12-7	N2
Benzo(a)anthracene	<0.033	ug/L	0.033	0.0098	1	01/30/17 14:20	02/06/17 15:58	56-55-3	N2
Benzo(a)pyrene	<0.0083	ug/L	0.0083	0.0025	1	01/30/17 14:20	02/06/17 15:58	50-32-8	N2
Benzo(b)fluoranthene	<0.0057	ug/L	0.0057	0.0017	1	01/30/17 14:20	02/06/17 15:58	205-99-2	N2
Benzo(e)pyrene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 15:58	192-97-2	N2
Benzo(g,h,i)perylene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 15:58	191-24-2	N2
Benzo(k)fluoranthene	<0.033	ug/L	0.033	0.0099	1	01/30/17 14:20	02/06/17 15:58	207-08-9	N2
2-Chloronaphthalene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 15:58	91-58-7	N2
Chrysene	<0.0080	ug/L	0.0080	0.0024	1	01/30/17 14:20	02/06/17 15:58	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:20	02/06/17 15:58	53-70-3	N2
Dibenzofuran	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 15:58	132-64-9	N2
Fluoranthene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 15:58	206-44-0	N2
Fluorene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 15:58	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.0047	0.0014	1	01/30/17 14:20	02/06/17 15:58	193-39-5	N2
1-Methylnaphthalene	<0.023	ug/L	0.023	0.0069	1	01/30/17 14:20	02/06/17 15:58	90-12-0	N2
2-Methylnaphthalene	<0.037	ug/L	0.037	0.011	1	01/30/17 14:20	02/06/17 15:58	91-57-6	N2
Naphthalene	<0.040	ug/L	0.040	0.012	1	01/30/17 14:20	02/06/17 15:58	91-20-3	N2
Phenanthrene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 15:58	85-01-8	N2
Pyrene	<0.0097	ug/L	0.0097	0.0029	1	01/30/17 14:20	02/06/17 15:58	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	70	%	48-125		1	01/30/17 14:20	02/06/17 15:58	321-60-8	N2
p-Terphenyl-d14 (S)	72	%	51-125		1	01/30/17 14:20	02/06/17 15:58	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		02/02/17 02:56	67-64-1	
Allyl chloride	<4.0	ug/L	4.0	0.25	1		02/02/17 02:56	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		02/02/17 02:56	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		02/02/17 02:56	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		02/02/17 02:56	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		02/02/17 02:56	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		02/02/17 02:56	75-25-2	
Bromomethane	<10.0	ug/L	10.0	0.44	1		02/02/17 02:56	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		02/02/17 02:56	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		02/02/17 02:56	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.19	1		02/02/17 02:56	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		02/02/17 02:56	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		02/02/17 02:56	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		02/02/17 02:56	108-90-7	
Chloroethane	<4.0	ug/L	4.0	0.34	1		02/02/17 02:56	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		02/02/17 02:56	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		02/02/17 02:56	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		02/02/17 02:56	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		02/02/17 02:56	106-43-4	
1,2-Dibromo-3-chloropropane	<10.0	ug/L	10.0	0.60	1		02/02/17 02:56	96-12-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Sample: MW-26D-20170125 Lab ID: 10377374008 Collected: 01/25/17 07:35 Received: 01/26/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Dibromochloromethane	<4.0	ug/L	4.0	0.16	1		02/02/17 02:56	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		02/02/17 02:56	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		02/02/17 02:56	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		02/02/17 02:56	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		02/02/17 02:56	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 02:56	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		02/02/17 02:56	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 02:56	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 02:56	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		02/02/17 02:56	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		02/02/17 02:56	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		02/02/17 02:56	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		02/02/17 02:56	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		02/02/17 02:56	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		02/02/17 02:56	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		02/02/17 02:56	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		02/02/17 02:56	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		02/02/17 02:56	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		02/02/17 02:56	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		02/02/17 02:56	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		02/02/17 02:56	100-41-4	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	0.18	1		02/02/17 02:56	87-68-3	L2
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		02/02/17 02:56	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.19	1		02/02/17 02:56	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		02/02/17 02:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		02/02/17 02:56	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		02/02/17 02:56	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		02/02/17 02:56	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		02/02/17 02:56	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		02/02/17 02:56	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 02:56	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		02/02/17 02:56	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		02/02/17 02:56	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		02/02/17 02:56	109-99-9	
Toluene	1.2	ug/L	1.0	0.14	1		02/02/17 02:56	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 02:56	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 02:56	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 02:56	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		02/02/17 02:56	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		02/02/17 02:56	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		02/02/17 02:56	75-69-4	
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		02/02/17 02:56	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	0.32	1		02/02/17 02:56	76-13-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		02/02/17 02:56	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		02/02/17 02:56	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		02/02/17 02:56	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

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**Sample: MW-26D-20170125**      **Lab ID: 10377374008**      Collected: 01/25/17 07:35      Received: 01/26/17 15:00      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>	Analytical Method: EPA 8260B								
Xylene (Total)	<b>&lt;3.0</b>	ug/L	3.0	0.32	1		02/02/17 02:56	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	107	%	75-125		1		02/02/17 02:56	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1		02/02/17 02:56	2037-26-5	
4-Bromofluorobenzene (S)	109	%	75-125		1		02/02/17 02:56	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Sample: MW-13-20170125 Lab ID: 10377374009 Collected: 01/25/17 09:10 Received: 01/26/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI Preparation Method: EPA Mod. 3510C									
Acenaphthene	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 16:22	83-32-9	N2
Acenaphthylene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 16:22	208-96-8	N2
Anthracene	<0.027	ug/L	0.027	0.0082	1	01/30/17 14:20	02/06/17 16:22	120-12-7	N2
Benzo(a)anthracene	<0.033	ug/L	0.033	0.0098	1	01/30/17 14:20	02/06/17 16:22	56-55-3	N2
Benzo(a)pyrene	<0.0083	ug/L	0.0083	0.0025	1	01/30/17 14:20	02/06/17 16:22	50-32-8	N2
Benzo(b)fluoranthene	<0.0057	ug/L	0.0057	0.0017	1	01/30/17 14:20	02/06/17 16:22	205-99-2	N2
Benzo(e)pyrene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 16:22	192-97-2	N2
Benzo(g,h,i)perylene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 16:22	191-24-2	N2
Benzo(k)fluoranthene	<0.033	ug/L	0.033	0.0099	1	01/30/17 14:20	02/06/17 16:22	207-08-9	N2
2-Chloronaphthalene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 16:22	91-58-7	N2
Chrysene	<0.0080	ug/L	0.0080	0.0024	1	01/30/17 14:20	02/06/17 16:22	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:20	02/06/17 16:22	53-70-3	N2
Dibenzofuran	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 16:22	132-64-9	N2
Fluoranthene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 16:22	206-44-0	N2
Fluorene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 16:22	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.0047	0.0014	1	01/30/17 14:20	02/06/17 16:22	193-39-5	N2
1-Methylnaphthalene	<0.023	ug/L	0.023	0.0069	1	01/30/17 14:20	02/06/17 16:22	90-12-0	N2
2-Methylnaphthalene	<0.037	ug/L	0.037	0.011	1	01/30/17 14:20	02/06/17 16:22	91-57-6	N2
Naphthalene	<0.040	ug/L	0.040	0.012	1	01/30/17 14:20	02/06/17 16:22	91-20-3	N2
Phenanthrene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 16:22	85-01-8	N2
Pyrene	<0.0097	ug/L	0.0097	0.0029	1	01/30/17 14:20	02/06/17 16:22	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	80	%	48-125		1	01/30/17 14:20	02/06/17 16:22	321-60-8	N2
p-Terphenyl-d14 (S)	67	%	51-125		1	01/30/17 14:20	02/06/17 16:22	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		02/02/17 01:21	67-64-1	
Allyl chloride	<4.0	ug/L	4.0	0.25	1		02/02/17 01:21	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		02/02/17 01:21	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		02/02/17 01:21	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		02/02/17 01:21	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		02/02/17 01:21	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		02/02/17 01:21	75-25-2	
Bromomethane	<10.0	ug/L	10.0	0.44	1		02/02/17 01:21	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		02/02/17 01:21	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		02/02/17 01:21	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.19	1		02/02/17 01:21	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		02/02/17 01:21	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		02/02/17 01:21	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		02/02/17 01:21	108-90-7	
Chloroethane	<4.0	ug/L	4.0	0.34	1		02/02/17 01:21	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		02/02/17 01:21	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		02/02/17 01:21	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		02/02/17 01:21	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		02/02/17 01:21	106-43-4	
1,2-Dibromo-3-chloropropane	<10.0	ug/L	10.0	0.60	1		02/02/17 01:21	96-12-8	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Sample: MW-13-20170125 Lab ID: 10377374009 Collected: 01/25/17 09:10 Received: 01/26/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Dibromochloromethane	<4.0	ug/L	4.0	0.16	1		02/02/17 01:21	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		02/02/17 01:21	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		02/02/17 01:21	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		02/02/17 01:21	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		02/02/17 01:21	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 01:21	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		02/02/17 01:21	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 01:21	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 01:21	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		02/02/17 01:21	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		02/02/17 01:21	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		02/02/17 01:21	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		02/02/17 01:21	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		02/02/17 01:21	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		02/02/17 01:21	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		02/02/17 01:21	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		02/02/17 01:21	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		02/02/17 01:21	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		02/02/17 01:21	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		02/02/17 01:21	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		02/02/17 01:21	100-41-4	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	0.18	1		02/02/17 01:21	87-68-3	L2
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		02/02/17 01:21	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.19	1		02/02/17 01:21	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		02/02/17 01:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		02/02/17 01:21	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		02/02/17 01:21	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		02/02/17 01:21	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		02/02/17 01:21	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		02/02/17 01:21	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 01:21	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		02/02/17 01:21	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		02/02/17 01:21	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		02/02/17 01:21	109-99-9	
Toluene	6.4	ug/L	1.0	0.14	1		02/02/17 01:21	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 01:21	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 01:21	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 01:21	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		02/02/17 01:21	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		02/02/17 01:21	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		02/02/17 01:21	75-69-4	
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		02/02/17 01:21	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	0.32	1		02/02/17 01:21	76-13-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		02/02/17 01:21	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		02/02/17 01:21	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		02/02/17 01:21	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

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**Sample: MW-13-20170125**      **Lab ID: 10377374009**      Collected: 01/25/17 09:10      Received: 01/26/17 15:00      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>	Analytical Method: EPA 8260B								
Xylene (Total)	<b>&lt;3.0</b>	ug/L	3.0	0.32	1		02/02/17 01:21	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	101	%	75-125		1		02/02/17 01:21	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1		02/02/17 01:21	2037-26-5	
4-Bromofluorobenzene (S)	109	%	75-125		1		02/02/17 01:21	460-00-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Sample: MW-4-20170125 Lab ID: 10377374010 Collected: 01/25/17 09:45 Received: 01/26/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI					Preparation Method: EPA Mod. 3510C				
Acenaphthene	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 16:46	83-32-9	N2
Acenaphthylene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 16:46	208-96-8	N2
Anthracene	<0.027	ug/L	0.027	0.0082	1	01/30/17 14:20	02/06/17 16:46	120-12-7	N2
Benzo(a)anthracene	<0.033	ug/L	0.033	0.0098	1	01/30/17 14:20	02/06/17 16:46	56-55-3	N2
Benzo(a)pyrene	<0.0083	ug/L	0.0083	0.0025	1	01/30/17 14:20	02/06/17 16:46	50-32-8	N2
Benzo(b)fluoranthene	<0.0057	ug/L	0.0057	0.0017	1	01/30/17 14:20	02/06/17 16:46	205-99-2	N2
Benzo(e)pyrene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 16:46	192-97-2	N2
Benzo(g,h,i)perylene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 16:46	191-24-2	N2
Benzo(k)fluoranthene	<0.033	ug/L	0.033	0.0099	1	01/30/17 14:20	02/06/17 16:46	207-08-9	N2
2-Chloronaphthalene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 16:46	91-58-7	N2
Chrysene	<0.0080	ug/L	0.0080	0.0024	1	01/30/17 14:20	02/06/17 16:46	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:20	02/06/17 16:46	53-70-3	N2
Dibenzofuran	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 16:46	132-64-9	N2
Fluoranthene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 16:46	206-44-0	N2
Fluorene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 16:46	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.0047	0.0014	1	01/30/17 14:20	02/06/17 16:46	193-39-5	N2
1-Methylnaphthalene	0.073	ug/L	0.023	0.0069	1	01/30/17 14:20	02/06/17 16:46	90-12-0	N2
2-Methylnaphthalene	0.14	ug/L	0.037	0.011	1	01/30/17 14:20	02/06/17 16:46	91-57-6	N2
Naphthalene	4.7	ug/L	0.040	0.012	1	01/30/17 14:20	02/06/17 16:46	91-20-3	N2
Phenanthrene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 16:46	85-01-8	N2
Pyrene	<0.0097	ug/L	0.0097	0.0029	1	01/30/17 14:20	02/06/17 16:46	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	70	%	48-125		1	01/30/17 14:20	02/06/17 16:46	321-60-8	N2
p-Terphenyl-d14 (S)	63	%	51-125		1	01/30/17 14:20	02/06/17 16:46	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<100000	ug/L	100000	10000	5000		02/02/17 05:33	67-64-1	
Allyl chloride	<20000	ug/L	20000	1250	5000		02/02/17 05:33	107-05-1	
Benzene	418000	ug/L	5000	775	5000		02/02/17 05:33	71-43-2	
Bromobenzene	<5000	ug/L	5000	1680	5000		02/02/17 05:33	108-86-1	
Bromochloromethane	<5000	ug/L	5000	930	5000		02/02/17 05:33	74-97-5	
Bromodichloromethane	<5000	ug/L	5000	1200	5000		02/02/17 05:33	75-27-4	
Bromoform	<20000	ug/L	20000	1370	5000		02/02/17 05:33	75-25-2	
Bromomethane	<50000	ug/L	50000	2220	5000		02/02/17 05:33	74-83-9	
2-Butanone (MEK)	<25000	ug/L	25000	5500	5000		02/02/17 05:33	78-93-3	
n-Butylbenzene	<5000	ug/L	5000	800	5000		02/02/17 05:33	104-51-8	
sec-Butylbenzene	<5000	ug/L	5000	945	5000		02/02/17 05:33	135-98-8	
tert-Butylbenzene	<5000	ug/L	5000	1120	5000		02/02/17 05:33	98-06-6	
Carbon tetrachloride	<5000	ug/L	5000	985	5000		02/02/17 05:33	56-23-5	
Chlorobenzene	<5000	ug/L	5000	570	5000		02/02/17 05:33	108-90-7	
Chloroethane	<20000	ug/L	20000	1710	5000		02/02/17 05:33	75-00-3	
Chloroform	<5000	ug/L	5000	1050	5000		02/02/17 05:33	67-66-3	
Chloromethane	<20000	ug/L	20000	1230	5000		02/02/17 05:33	74-87-3	
2-Chlorotoluene	<5000	ug/L	5000	1480	5000		02/02/17 05:33	95-49-8	
4-Chlorotoluene	<5000	ug/L	5000	1280	5000		02/02/17 05:33	106-43-4	
1,2-Dibromo-3-chloropropane	<50000	ug/L	50000	3000	5000		02/02/17 05:33	96-12-8	

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### ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Sample: MW-4-20170125 Lab ID: 10377374010 Collected: 01/25/17 09:45 Received: 01/26/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<20000	ug/L	20000	785	5000		02/02/17 05:33	124-48-1	
1,2-Dibromoethane (EDB)	<5000	ug/L	5000	1000	5000		02/02/17 05:33	106-93-4	
Dibromomethane	<20000	ug/L	20000	970	5000		02/02/17 05:33	74-95-3	
1,2-Dichlorobenzene	<5000	ug/L	5000	855	5000		02/02/17 05:33	95-50-1	
1,3-Dichlorobenzene	<5000	ug/L	5000	575	5000		02/02/17 05:33	541-73-1	
1,4-Dichlorobenzene	<5000	ug/L	5000	1060	5000		02/02/17 05:33	106-46-7	
Dichlorodifluoromethane	<5000	ug/L	5000	1130	5000		02/02/17 05:33	75-71-8	
1,1-Dichloroethane	<5000	ug/L	5000	855	5000		02/02/17 05:33	75-34-3	
1,2-Dichloroethane	<5000	ug/L	5000	850	5000		02/02/17 05:33	107-06-2	
1,1-Dichloroethene	<5000	ug/L	5000	1380	5000		02/02/17 05:33	75-35-4	
cis-1,2-Dichloroethene	<5000	ug/L	5000	600	5000		02/02/17 05:33	156-59-2	
trans-1,2-Dichloroethene	<5000	ug/L	5000	810	5000		02/02/17 05:33	156-60-5	
Dichlorofluoromethane	<5000	ug/L	5000	1070	5000		02/02/17 05:33	75-43-4	
1,2-Dichloropropane	<20000	ug/L	20000	1110	5000		02/02/17 05:33	78-87-5	
1,3-Dichloropropane	<5000	ug/L	5000	480	5000		02/02/17 05:33	142-28-9	
2,2-Dichloropropane	<20000	ug/L	20000	640	5000		02/02/17 05:33	594-20-7	
1,1-Dichloropropene	<5000	ug/L	5000	1140	5000		02/02/17 05:33	563-58-6	
cis-1,3-Dichloropropene	<20000	ug/L	20000	750	5000		02/02/17 05:33	10061-01-5	
trans-1,3-Dichloropropene	<20000	ug/L	20000	735	5000		02/02/17 05:33	10061-02-6	
Diethyl ether (Ethyl ether)	<20000	ug/L	20000	970	5000		02/02/17 05:33	60-29-7	
Ethylbenzene	<5000	ug/L	5000	760	5000		02/02/17 05:33	100-41-4	
Hexachloro-1,3-butadiene	<5000	ug/L	5000	890	5000		02/02/17 05:33	87-68-3	L2
Isopropylbenzene (Cumene)	<5000	ug/L	5000	1260	5000		02/02/17 05:33	98-82-8	
p-Isopropyltoluene	<5000	ug/L	5000	970	5000		02/02/17 05:33	99-87-6	
Methylene Chloride	<20000	ug/L	20000	1460	5000		02/02/17 05:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	<25000	ug/L	25000	2160	5000		02/02/17 05:33	108-10-1	
Methyl-tert-butyl ether	<5000	ug/L	5000	745	5000		02/02/17 05:33	1634-04-4	
Naphthalene	<20000	ug/L	20000	1020	5000		02/02/17 05:33	91-20-3	
n-Propylbenzene	<5000	ug/L	5000	1160	5000		02/02/17 05:33	103-65-1	
Styrene	<5000	ug/L	5000	1430	5000		02/02/17 05:33	100-42-5	
1,1,1,2-Tetrachloroethane	<5000	ug/L	5000	830	5000		02/02/17 05:33	630-20-6	
1,1,2,2-Tetrachloroethane	<5000	ug/L	5000	1120	5000		02/02/17 05:33	79-34-5	
Tetrachloroethene	<5000	ug/L	5000	1260	5000		02/02/17 05:33	127-18-4	
Tetrahydrofuran	<50000	ug/L	50000	7500	5000		02/02/17 05:33	109-99-9	
Toluene	32100	ug/L	5000	725	5000		02/02/17 05:33	108-88-3	
1,2,3-Trichlorobenzene	<5000	ug/L	5000	1060	5000		02/02/17 05:33	87-61-6	
1,2,4-Trichlorobenzene	<5000	ug/L	5000	1060	5000		02/02/17 05:33	120-82-1	
1,1,1-Trichloroethane	<5000	ug/L	5000	850	5000		02/02/17 05:33	71-55-6	
1,1,2-Trichloroethane	<5000	ug/L	5000	760	5000		02/02/17 05:33	79-00-5	
Trichloroethene	<2000	ug/L	2000	260	5000		02/02/17 05:33	79-01-6	
Trichlorofluoromethane	<5000	ug/L	5000	1630	5000		02/02/17 05:33	75-69-4	
1,2,3-Trichloropropane	<20000	ug/L	20000	1420	5000		02/02/17 05:33	96-18-4	
1,1,2-Trichlorotrifluoroethane	<5000	ug/L	5000	1600	5000		02/02/17 05:33	76-13-1	
1,2,4-Trimethylbenzene	<5000	ug/L	5000	890	5000		02/02/17 05:33	95-63-6	
1,3,5-Trimethylbenzene	<5000	ug/L	5000	1340	5000		02/02/17 05:33	108-67-8	
Vinyl chloride	<1000	ug/L	1000	345	5000		02/02/17 05:33	75-01-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

**Sample: MW-4-20170125**      **Lab ID: 10377374010**      Collected: 01/25/17 09:45      Received: 01/26/17 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>	Analytical Method: EPA 8260B								
Xylene (Total)	<15000	ug/L	15000	1580	5000		02/02/17 05:33	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-125		5000		02/02/17 05:33	17060-07-0	
Toluene-d8 (S)	104	%	75-125		5000		02/02/17 05:33	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		5000		02/02/17 05:33	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Sample: MW-2-20170125 Lab ID: 10377374011 Collected: 01/25/17 11:45 Received: 01/26/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI Preparation Method: EPA Mod. 3510C									
Acenaphthene	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 17:09	83-32-9	N2
Acenaphthylene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 17:09	208-96-8	N2
Anthracene	<0.027	ug/L	0.027	0.0082	1	01/30/17 14:20	02/06/17 17:09	120-12-7	N2
Benzo(a)anthracene	<0.033	ug/L	0.033	0.0098	1	01/30/17 14:20	02/06/17 17:09	56-55-3	N2
Benzo(a)pyrene	<0.0083	ug/L	0.0083	0.0025	1	01/30/17 14:20	02/06/17 17:09	50-32-8	N2
Benzo(b)fluoranthene	<0.0057	ug/L	0.0057	0.0017	1	01/30/17 14:20	02/06/17 17:09	205-99-2	N2
Benzo(e)pyrene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 17:09	192-97-2	N2
Benzo(g,h,i)perylene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 17:09	191-24-2	N2
Benzo(k)fluoranthene	<0.033	ug/L	0.033	0.0099	1	01/30/17 14:20	02/06/17 17:09	207-08-9	N2
2-Chloronaphthalene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 17:09	91-58-7	N2
Chrysene	<0.0080	ug/L	0.0080	0.0024	1	01/30/17 14:20	02/06/17 17:09	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:20	02/06/17 17:09	53-70-3	N2
Dibenzofuran	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 17:09	132-64-9	N2
Fluoranthene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 17:09	206-44-0	N2
Fluorene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 17:09	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.0047	0.0014	1	01/30/17 14:20	02/06/17 17:09	193-39-5	N2
1-Methylnaphthalene	<0.023	ug/L	0.023	0.0069	1	01/30/17 14:20	02/06/17 17:09	90-12-0	N2
2-Methylnaphthalene	<0.037	ug/L	0.037	0.011	1	01/30/17 14:20	02/06/17 17:09	91-57-6	N2
Naphthalene	<0.040	ug/L	0.040	0.012	1	01/30/17 14:20	02/06/17 17:09	91-20-3	N2
Phenanthrene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 17:09	85-01-8	N2
Pyrene	<0.0097	ug/L	0.0097	0.0029	1	01/30/17 14:20	02/06/17 17:09	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	74	%	48-125		1	01/30/17 14:20	02/06/17 17:09	321-60-8	N2
p-Terphenyl-d14 (S)	76	%	51-125		1	01/30/17 14:20	02/06/17 17:09	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		02/02/17 01:37	67-64-1	
Allyl chloride	<4.0	ug/L	4.0	0.25	1		02/02/17 01:37	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		02/02/17 01:37	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		02/02/17 01:37	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		02/02/17 01:37	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		02/02/17 01:37	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		02/02/17 01:37	75-25-2	
Bromomethane	<10.0	ug/L	10.0	0.44	1		02/02/17 01:37	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		02/02/17 01:37	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		02/02/17 01:37	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.19	1		02/02/17 01:37	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		02/02/17 01:37	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		02/02/17 01:37	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		02/02/17 01:37	108-90-7	
Chloroethane	<4.0	ug/L	4.0	0.34	1		02/02/17 01:37	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		02/02/17 01:37	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		02/02/17 01:37	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		02/02/17 01:37	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		02/02/17 01:37	106-43-4	
1,2-Dibromo-3-chloropropane	<10.0	ug/L	10.0	0.60	1		02/02/17 01:37	96-12-8	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Sample: MW-2-20170125 Lab ID: 10377374011 Collected: 01/25/17 11:45 Received: 01/26/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<4.0	ug/L	4.0	0.16	1		02/02/17 01:37	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		02/02/17 01:37	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		02/02/17 01:37	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		02/02/17 01:37	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		02/02/17 01:37	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 01:37	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		02/02/17 01:37	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 01:37	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 01:37	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		02/02/17 01:37	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		02/02/17 01:37	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		02/02/17 01:37	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		02/02/17 01:37	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		02/02/17 01:37	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		02/02/17 01:37	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		02/02/17 01:37	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		02/02/17 01:37	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		02/02/17 01:37	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		02/02/17 01:37	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		02/02/17 01:37	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		02/02/17 01:37	100-41-4	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	0.18	1		02/02/17 01:37	87-68-3	L2
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		02/02/17 01:37	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.19	1		02/02/17 01:37	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		02/02/17 01:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		02/02/17 01:37	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		02/02/17 01:37	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		02/02/17 01:37	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		02/02/17 01:37	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		02/02/17 01:37	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 01:37	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		02/02/17 01:37	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		02/02/17 01:37	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		02/02/17 01:37	109-99-9	
Toluene	<1.0	ug/L	1.0	0.14	1		02/02/17 01:37	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 01:37	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 01:37	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 01:37	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		02/02/17 01:37	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		02/02/17 01:37	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		02/02/17 01:37	75-69-4	
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		02/02/17 01:37	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	0.32	1		02/02/17 01:37	76-13-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		02/02/17 01:37	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		02/02/17 01:37	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		02/02/17 01:37	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

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**Sample: MW-2-20170125**      **Lab ID: 10377374011**      Collected: 01/25/17 11:45      Received: 01/26/17 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<b>&lt;3.0</b>	ug/L	3.0	0.32	1		02/02/17 01:37	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-125		1		02/02/17 01:37	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1		02/02/17 01:37	2037-26-5	
4-Bromofluorobenzene (S)	109	%	75-125		1		02/02/17 01:37	460-00-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Sample: **MW-1-20170125** Lab ID: **10377374012** Collected: 01/25/17 13:00 Received: 01/26/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI					Preparation Method: EPA Mod. 3510C				
Acenaphthene	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 17:33	83-32-9	N2
Acenaphthylene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 17:33	208-96-8	N2
Anthracene	<0.027	ug/L	0.027	0.0082	1	01/30/17 14:20	02/06/17 17:33	120-12-7	N2
Benzo(a)anthracene	<0.033	ug/L	0.033	0.0098	1	01/30/17 14:20	02/06/17 17:33	56-55-3	N2
Benzo(a)pyrene	<0.0083	ug/L	0.0083	0.0025	1	01/30/17 14:20	02/06/17 17:33	50-32-8	N2
Benzo(b)fluoranthene	<0.0057	ug/L	0.0057	0.0017	1	01/30/17 14:20	02/06/17 17:33	205-99-2	N2
Benzo(e)pyrene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 17:33	192-97-2	N2
Benzo(g,h,i)perylene	<0.0067	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 17:33	191-24-2	N2
Benzo(k)fluoranthene	<0.033	ug/L	0.033	0.0099	1	01/30/17 14:20	02/06/17 17:33	207-08-9	N2
2-Chloronaphthalene	<0.031	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 17:33	91-58-7	N2
Chrysene	<0.0080	ug/L	0.0080	0.0024	1	01/30/17 14:20	02/06/17 17:33	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:20	02/06/17 17:33	53-70-3	N2
Dibenzofuran	<0.032	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 17:33	132-64-9	N2
Fluoranthene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 17:33	206-44-0	N2
Fluorene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 17:33	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.0047	0.0014	1	01/30/17 14:20	02/06/17 17:33	193-39-5	N2
1-Methylnaphthalene	<0.023	ug/L	0.023	0.0069	1	01/30/17 14:20	02/06/17 17:33	90-12-0	N2
2-Methylnaphthalene	<0.037	ug/L	0.037	0.011	1	01/30/17 14:20	02/06/17 17:33	91-57-6	N2
Naphthalene	<0.040	ug/L	0.040	0.012	1	01/30/17 14:20	02/06/17 17:33	91-20-3	N2
Phenanthrene	<0.031	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 17:33	85-01-8	N2
Pyrene	<0.0097	ug/L	0.0097	0.0029	1	01/30/17 14:20	02/06/17 17:33	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	74	%	48-125		1	01/30/17 14:20	02/06/17 17:33	321-60-8	N2
p-Terphenyl-d14 (S)	76	%	51-125		1	01/30/17 14:20	02/06/17 17:33	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		02/02/17 01:53	67-64-1	
Allyl chloride	<4.0	ug/L	4.0	0.25	1		02/02/17 01:53	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		02/02/17 01:53	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		02/02/17 01:53	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		02/02/17 01:53	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		02/02/17 01:53	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		02/02/17 01:53	75-25-2	
Bromomethane	<10.0	ug/L	10.0	0.44	1		02/02/17 01:53	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		02/02/17 01:53	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		02/02/17 01:53	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.19	1		02/02/17 01:53	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		02/02/17 01:53	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		02/02/17 01:53	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		02/02/17 01:53	108-90-7	
Chloroethane	<4.0	ug/L	4.0	0.34	1		02/02/17 01:53	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		02/02/17 01:53	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		02/02/17 01:53	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		02/02/17 01:53	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		02/02/17 01:53	106-43-4	
1,2-Dibromo-3-chloropropane	<10.0	ug/L	10.0	0.60	1		02/02/17 01:53	96-12-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Sample: MW-1-20170125 Lab ID: 10377374012 Collected: 01/25/17 13:00 Received: 01/26/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Dibromochloromethane	<4.0	ug/L	4.0	0.16	1		02/02/17 01:53	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		02/02/17 01:53	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		02/02/17 01:53	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		02/02/17 01:53	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		02/02/17 01:53	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 01:53	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		02/02/17 01:53	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 01:53	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 01:53	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		02/02/17 01:53	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		02/02/17 01:53	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		02/02/17 01:53	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		02/02/17 01:53	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		02/02/17 01:53	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		02/02/17 01:53	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		02/02/17 01:53	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		02/02/17 01:53	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		02/02/17 01:53	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		02/02/17 01:53	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		02/02/17 01:53	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		02/02/17 01:53	100-41-4	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	0.18	1		02/02/17 01:53	87-68-3	L2
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		02/02/17 01:53	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.19	1		02/02/17 01:53	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		02/02/17 01:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		02/02/17 01:53	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		02/02/17 01:53	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		02/02/17 01:53	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		02/02/17 01:53	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		02/02/17 01:53	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 01:53	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		02/02/17 01:53	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		02/02/17 01:53	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		02/02/17 01:53	109-99-9	
Toluene	<1.0	ug/L	1.0	0.14	1		02/02/17 01:53	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 01:53	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		02/02/17 01:53	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.17	1		02/02/17 01:53	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		02/02/17 01:53	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		02/02/17 01:53	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		02/02/17 01:53	75-69-4	
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		02/02/17 01:53	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	0.32	1		02/02/17 01:53	76-13-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		02/02/17 01:53	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		02/02/17 01:53	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		02/02/17 01:53	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

**Sample: MW-1-20170125**      **Lab ID: 10377374012**      Collected: 01/25/17 13:00      Received: 01/26/17 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<3.0	ug/L	3.0	0.32	1		02/02/17 01:53	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-125		1		02/02/17 01:53	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1		02/02/17 01:53	2037-26-5	
4-Bromofluorobenzene (S)	106	%	75-125		1		02/02/17 01:53	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Sample: **MW-10-20170125** Lab ID: **10377374013** Collected: 01/25/17 15:00 Received: 01/26/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI Preparation Method: EPA Mod. 3510C									
Acenaphthene	29.2	ug/L	0.32	0.095	10	01/30/17 14:20	02/07/17 23:28	83-32-9	N2
Acenaphthylene	0.43	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 17:57	208-96-8	N2
Anthracene	1.5	ug/L	0.027	0.0082	1	01/30/17 14:20	02/06/17 17:57	120-12-7	N2
Benzo(a)anthracene	0.15	ug/L	0.033	0.0098	1	01/30/17 14:20	02/06/17 17:57	56-55-3	N2
Benzo(a)pyrene	0.16	ug/L	0.0083	0.0025	1	01/30/17 14:20	02/06/17 17:57	50-32-8	N2
Benzo(b)fluoranthene	0.13	ug/L	0.0057	0.0017	1	01/30/17 14:20	02/06/17 17:57	205-99-2	N2
Benzo(e)pyrene	0.095	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 17:57	192-97-2	N2
Benzo(g,h,i)perylene	0.081	ug/L	0.0067	0.0020	1	01/30/17 14:20	02/06/17 17:57	191-24-2	N2
Benzo(k)fluoranthene	0.038	ug/L	0.033	0.0099	1	01/30/17 14:20	02/06/17 17:57	207-08-9	N2
2-Chloronaphthalene	0.067	ug/L	0.031	0.0092	1	01/30/17 14:20	02/06/17 17:57	91-58-7	N2
Chrysene	0.18	ug/L	0.0080	0.0024	1	01/30/17 14:20	02/06/17 17:57	218-01-9	N2
Dibenz(a,h)anthracene	<0.026	ug/L	0.026	0.0079	1	01/30/17 14:20	02/06/17 17:57	53-70-3	N2
Dibenzofuran	0.27	ug/L	0.032	0.0095	1	01/30/17 14:20	02/06/17 17:57	132-64-9	N2
Fluoranthene	0.75	ug/L	0.031	0.0094	1	01/30/17 14:20	02/06/17 17:57	206-44-0	N2
Fluorene	6.0	ug/L	0.31	0.094	10	01/30/17 14:20	02/07/17 23:28	86-73-7	N2
Indeno(1,2,3-cd)pyrene	0.060	ug/L	0.0047	0.0014	1	01/30/17 14:20	02/06/17 17:57	193-39-5	N2
1-Methylnaphthalene	35.9	ug/L	0.23	0.069	10	01/30/17 14:20	02/07/17 23:28	90-12-0	N2
2-Methylnaphthalene	6.2	ug/L	0.37	0.11	10	01/30/17 14:20	02/07/17 23:28	91-57-6	N2
Naphthalene	90.6	ug/L	4.0	1.2	100	01/30/17 14:20	02/07/17 23:51	91-20-3	N2
Phenanthrene	5.9	ug/L	0.31	0.094	10	01/30/17 14:20	02/07/17 23:28	85-01-8	N2
Pyrene	1.2	ug/L	0.0097	0.0029	1	01/30/17 14:20	02/06/17 17:57	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	69	%	48-125		1	01/30/17 14:20	02/06/17 17:57	321-60-8	N2
p-Terphenyl-d14 (S)	76	%	51-125		1	01/30/17 14:20	02/06/17 17:57	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<1000	ug/L	1000	100	50		02/02/17 04:30	67-64-1	
Allyl chloride	<200	ug/L	200	12.5	50		02/02/17 04:30	107-05-1	
Benzene	12000	ug/L	50.0	7.8	50		02/02/17 04:30	71-43-2	M1
Bromobenzene	<50.0	ug/L	50.0	16.8	50		02/02/17 04:30	108-86-1	
Bromochloromethane	<50.0	ug/L	50.0	9.3	50		02/02/17 04:30	74-97-5	
Bromodichloromethane	<50.0	ug/L	50.0	12.0	50		02/02/17 04:30	75-27-4	
Bromoform	<200	ug/L	200	13.7	50		02/02/17 04:30	75-25-2	
Bromomethane	<500	ug/L	500	22.2	50		02/02/17 04:30	74-83-9	
2-Butanone (MEK)	<250	ug/L	250	55.0	50		02/02/17 04:30	78-93-3	
n-Butylbenzene	<50.0	ug/L	50.0	8.0	50		02/02/17 04:30	104-51-8	
sec-Butylbenzene	<50.0	ug/L	50.0	9.4	50		02/02/17 04:30	135-98-8	
tert-Butylbenzene	<50.0	ug/L	50.0	11.2	50		02/02/17 04:30	98-06-6	
Carbon tetrachloride	<50.0	ug/L	50.0	9.8	50		02/02/17 04:30	56-23-5	
Chlorobenzene	<50.0	ug/L	50.0	5.7	50		02/02/17 04:30	108-90-7	
Chloroethane	<200	ug/L	200	17.1	50		02/02/17 04:30	75-00-3	
Chloroform	<50.0	ug/L	50.0	10.5	50		02/02/17 04:30	67-66-3	
Chloromethane	<200	ug/L	200	12.3	50		02/02/17 04:30	74-87-3	
2-Chlorotoluene	<50.0	ug/L	50.0	14.8	50		02/02/17 04:30	95-49-8	
4-Chlorotoluene	<50.0	ug/L	50.0	12.8	50		02/02/17 04:30	106-43-4	
1,2-Dibromo-3-chloropropane	<500	ug/L	500	30.0	50		02/02/17 04:30	96-12-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Sample: **MW-10-20170125** Lab ID: **10377374013** Collected: 01/25/17 15:00 Received: 01/26/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<200	ug/L	200	7.8	50		02/02/17 04:30	124-48-1	
1,2-Dibromoethane (EDB)	<50.0	ug/L	50.0	10.0	50		02/02/17 04:30	106-93-4	
Dibromomethane	<200	ug/L	200	9.7	50		02/02/17 04:30	74-95-3	
1,2-Dichlorobenzene	<50.0	ug/L	50.0	8.6	50		02/02/17 04:30	95-50-1	
1,3-Dichlorobenzene	<50.0	ug/L	50.0	5.8	50		02/02/17 04:30	541-73-1	
1,4-Dichlorobenzene	<50.0	ug/L	50.0	10.6	50		02/02/17 04:30	106-46-7	
Dichlorodifluoromethane	<50.0	ug/L	50.0	11.3	50		02/02/17 04:30	75-71-8	
1,1-Dichloroethane	<50.0	ug/L	50.0	8.6	50		02/02/17 04:30	75-34-3	
1,2-Dichloroethane	<50.0	ug/L	50.0	8.5	50		02/02/17 04:30	107-06-2	
1,1-Dichloroethene	<50.0	ug/L	50.0	13.8	50		02/02/17 04:30	75-35-4	
cis-1,2-Dichloroethene	<50.0	ug/L	50.0	6.0	50		02/02/17 04:30	156-59-2	
trans-1,2-Dichloroethene	<50.0	ug/L	50.0	8.1	50		02/02/17 04:30	156-60-5	
Dichlorofluoromethane	<50.0	ug/L	50.0	10.7	50		02/02/17 04:30	75-43-4	
1,2-Dichloropropane	<200	ug/L	200	11.1	50		02/02/17 04:30	78-87-5	
1,3-Dichloropropane	<50.0	ug/L	50.0	4.8	50		02/02/17 04:30	142-28-9	
2,2-Dichloropropane	<200	ug/L	200	6.4	50		02/02/17 04:30	594-20-7	
1,1-Dichloropropene	<50.0	ug/L	50.0	11.4	50		02/02/17 04:30	563-58-6	
cis-1,3-Dichloropropene	<200	ug/L	200	7.5	50		02/02/17 04:30	10061-01-5	
trans-1,3-Dichloropropene	<200	ug/L	200	7.4	50		02/02/17 04:30	10061-02-6	
Diethyl ether (Ethyl ether)	<200	ug/L	200	9.7	50		02/02/17 04:30	60-29-7	
Ethylbenzene	101	ug/L	50.0	7.6	50		02/02/17 04:30	100-41-4	
Hexachloro-1,3-butadiene	<50.0	ug/L	50.0	8.9	50		02/02/17 04:30	87-68-3	L2
Isopropylbenzene (Cumene)	<50.0	ug/L	50.0	12.6	50		02/02/17 04:30	98-82-8	
p-Isopropyltoluene	<50.0	ug/L	50.0	9.7	50		02/02/17 04:30	99-87-6	
Methylene Chloride	<200	ug/L	200	14.6	50		02/02/17 04:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	<250	ug/L	250	21.6	50		02/02/17 04:30	108-10-1	
Methyl-tert-butyl ether	<50.0	ug/L	50.0	7.4	50		02/02/17 04:30	1634-04-4	
Naphthalene	<200	ug/L	200	10.2	50		02/02/17 04:30	91-20-3	
n-Propylbenzene	<50.0	ug/L	50.0	11.6	50		02/02/17 04:30	103-65-1	
Styrene	105	ug/L	50.0	14.3	50		02/02/17 04:30	100-42-5	
1,1,1,2-Tetrachloroethane	<50.0	ug/L	50.0	8.3	50		02/02/17 04:30	630-20-6	
1,1,2,2-Tetrachloroethane	<50.0	ug/L	50.0	11.2	50		02/02/17 04:30	79-34-5	
Tetrachloroethene	<50.0	ug/L	50.0	12.6	50		02/02/17 04:30	127-18-4	
Tetrahydrofuran	<500	ug/L	500	75.0	50		02/02/17 04:30	109-99-9	
Toluene	3120	ug/L	50.0	7.2	50		02/02/17 04:30	108-88-3	
1,2,3-Trichlorobenzene	<50.0	ug/L	50.0	10.6	50		02/02/17 04:30	87-61-6	
1,2,4-Trichlorobenzene	<50.0	ug/L	50.0	10.6	50		02/02/17 04:30	120-82-1	
1,1,1-Trichloroethane	<50.0	ug/L	50.0	8.5	50		02/02/17 04:30	71-55-6	
1,1,2-Trichloroethane	<50.0	ug/L	50.0	7.6	50		02/02/17 04:30	79-00-5	
Trichloroethene	<20.0	ug/L	20.0	2.6	50		02/02/17 04:30	79-01-6	
Trichlorofluoromethane	<50.0	ug/L	50.0	16.3	50		02/02/17 04:30	75-69-4	
1,2,3-Trichloropropane	<200	ug/L	200	14.2	50		02/02/17 04:30	96-18-4	
1,1,2-Trichlorotrifluoroethane	<50.0	ug/L	50.0	16.0	50		02/02/17 04:30	76-13-1	
1,2,4-Trimethylbenzene	<50.0	ug/L	50.0	8.9	50		02/02/17 04:30	95-63-6	
1,3,5-Trimethylbenzene	<50.0	ug/L	50.0	13.4	50		02/02/17 04:30	108-67-8	
Vinyl chloride	<10.0	ug/L	10.0	3.4	50		02/02/17 04:30	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

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**Sample: MW-10-20170125**      **Lab ID: 10377374013**      Collected: 01/25/17 15:00      Received: 01/26/17 15:00      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<b>557</b>	ug/L	150	15.8	50		02/02/17 04:30	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-125		50		02/02/17 04:30	17060-07-0	
Toluene-d8 (S)	103	%	75-125		50		02/02/17 04:30	2037-26-5	
4-Bromofluorobenzene (S)	107	%	75-125		50		02/02/17 04:30	460-00-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

**Sample: Trip Blank**      **Lab ID: 10377374014**      Collected:      Received: 01/26/17 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Acetone	20.05	ug/L	20.0	2.0	1		02/02/17 00:18	67-64-1	
Allyl chloride	4.05	ug/L	4.0	0.25	1		02/02/17 00:18	107-05-1	
Benzene	1.05	ug/L	1.0	0.16	1		02/02/17 00:18	71-43-2	
Bromobenzene	1.05	ug/L	1.0	0.34	1		02/02/17 00:18	108-86-1	
Bromochloromethane	1.05	ug/L	1.0	0.19	1		02/02/17 00:18	74-97-5	
Bromodichloromethane	1.05	ug/L	1.0	0.24	1		02/02/17 00:18	75-27-4	
Bromoform	4.05	ug/L	4.0	0.27	1		02/02/17 00:18	75-25-2	
Bromomethane	10.05	ug/L	10.0	0.44	1		02/02/17 00:18	74-83-9	
2-Butanone (MEK)	5.05	ug/L	5.0	1.1	1		02/02/17 00:18	78-93-3	
n-Butylbenzene	1.05	ug/L	1.0	0.16	1		02/02/17 00:18	104-51-8	
sec-Butylbenzene	1.05	ug/L	1.0	0.19	1		02/02/17 00:18	135-98-8	
tert-Butylbenzene	1.05	ug/L	1.0	0.22	1		02/02/17 00:18	98-06-6	
Carbon tetrachloride	1.05	ug/L	1.0	0.20	1		02/02/17 00:18	56-23-5	
Chlorobenzene	1.05	ug/L	1.0	0.11	1		02/02/17 00:18	108-90-7	
Chloroethane	4.05	ug/L	4.0	0.34	1		02/02/17 00:18	75-00-3	
Chloroform	1.05	ug/L	1.0	0.21	1		02/02/17 00:18	67-66-3	
Chloromethane	4.05	ug/L	4.0	0.25	1		02/02/17 00:18	74-87-3	
2-Chlorotoluene	1.05	ug/L	1.0	0.30	1		02/02/17 00:18	95-49-8	
4-Chlorotoluene	1.05	ug/L	1.0	0.26	1		02/02/17 00:18	106-43-4	
1,2-Dibromo-3-chloropropane	10.05	ug/L	10.0	0.60	1		02/02/17 00:18	96-12-8	
Dibromochloromethane	4.05	ug/L	4.0	0.16	1		02/02/17 00:18	124-48-1	
1,2-Dibromoethane (EDB)	1.05	ug/L	1.0	0.20	1		02/02/17 00:18	106-93-4	
Dibromomethane	4.05	ug/L	4.0	0.19	1		02/02/17 00:18	74-95-3	
1,2-Dichlorobenzene	1.05	ug/L	1.0	0.17	1		02/02/17 00:18	95-50-1	
1,3-Dichlorobenzene	1.05	ug/L	1.0	0.12	1		02/02/17 00:18	541-73-1	
1,4-Dichlorobenzene	1.05	ug/L	1.0	0.21	1		02/02/17 00:18	106-46-7	
Dichlorodifluoromethane	1.05	ug/L	1.0	0.23	1		02/02/17 00:18	75-71-8	
1,1-Dichloroethane	1.05	ug/L	1.0	0.17	1		02/02/17 00:18	75-34-3	
1,2-Dichloroethane	1.05	ug/L	1.0	0.17	1		02/02/17 00:18	107-06-2	
1,1-Dichloroethene	1.05	ug/L	1.0	0.28	1		02/02/17 00:18	75-35-4	
cis-1,2-Dichloroethene	1.05	ug/L	1.0	0.12	1		02/02/17 00:18	156-59-2	
trans-1,2-Dichloroethene	1.05	ug/L	1.0	0.16	1		02/02/17 00:18	156-60-5	
Dichlorofluoromethane	1.05	ug/L	1.0	0.21	1		02/02/17 00:18	75-43-4	
1,2-Dichloropropane	4.05	ug/L	4.0	0.22	1		02/02/17 00:18	78-87-5	
1,3-Dichloropropane	1.05	ug/L	1.0	0.096	1		02/02/17 00:18	142-28-9	
2,2-Dichloropropane	4.05	ug/L	4.0	0.13	1		02/02/17 00:18	594-20-7	
1,1-Dichloropropene	1.05	ug/L	1.0	0.23	1		02/02/17 00:18	563-58-6	
cis-1,3-Dichloropropene	4.05	ug/L	4.0	0.15	1		02/02/17 00:18	10061-01-5	
trans-1,3-Dichloropropene	4.05	ug/L	4.0	0.15	1		02/02/17 00:18	10061-02-6	
Diethyl ether (Ethyl ether)	4.05	ug/L	4.0	0.19	1		02/02/17 00:18	60-29-7	
Ethylbenzene	1.05	ug/L	1.0	0.15	1		02/02/17 00:18	100-41-4	
Hexachloro-1,3-butadiene	1.05	ug/L	1.0	0.18	1		02/02/17 00:18	87-68-3	L2
Isopropylbenzene (Cumene)	1.05	ug/L	1.0	0.25	1		02/02/17 00:18	98-82-8	
p-Isopropyltoluene	1.05	ug/L	1.0	0.19	1		02/02/17 00:18	99-87-6	
Methylene Chloride	4.05	ug/L	4.0	0.29	1		02/02/17 00:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.05	ug/L	5.0	0.43	1		02/02/17 00:18	108-10-1	

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### ANALYTICAL RESULTS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

**Sample: Trip Blank**      **Lab ID: 10377374014**      Collected:      Received: 01/26/17 15:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Methyl-tert-butyl ether	1.05	ug/L	1.0	0.15	1		02/02/17 00:18	1634-04-4	
Naphthalene	4.05	ug/L	4.0	0.20	1		02/02/17 00:18	91-20-3	
n-Propylbenzene	1.05	ug/L	1.0	0.23	1		02/02/17 00:18	103-65-1	
Styrene	1.05	ug/L	1.0	0.29	1		02/02/17 00:18	100-42-5	
1,1,1,2-Tetrachloroethane	1.05	ug/L	1.0	0.17	1		02/02/17 00:18	630-20-6	
1,1,2,2-Tetrachloroethane	1.05	ug/L	1.0	0.22	1		02/02/17 00:18	79-34-5	
Tetrachloroethene	1.05	ug/L	1.0	0.25	1		02/02/17 00:18	127-18-4	
Tetrahydrofuran	10.05	ug/L	10.0	1.5	1		02/02/17 00:18	109-99-9	
Toluene	1.05	ug/L	1.0	0.14	1		02/02/17 00:18	108-88-3	
1,2,3-Trichlorobenzene	1.05	ug/L	1.0	0.21	1		02/02/17 00:18	87-61-6	
1,2,4-Trichlorobenzene	1.05	ug/L	1.0	0.21	1		02/02/17 00:18	120-82-1	
1,1,1-Trichloroethane	1.05	ug/L	1.0	0.17	1		02/02/17 00:18	71-55-6	
1,1,2-Trichloroethane	1.05	ug/L	1.0	0.15	1		02/02/17 00:18	79-00-5	
Trichloroethene	0.405	ug/L	0.40	0.052	1		02/02/17 00:18	79-01-6	
Trichlorofluoromethane	1.05	ug/L	1.0	0.33	1		02/02/17 00:18	75-69-4	
1,2,3-Trichloropropane	4.05	ug/L	4.0	0.28	1		02/02/17 00:18	96-18-4	
1,1,2-Trichlorotrifluoroethane	1.05	ug/L	1.0	0.32	1		02/02/17 00:18	76-13-1	
1,2,4-Trimethylbenzene	1.05	ug/L	1.0	0.18	1		02/02/17 00:18	95-63-6	
1,3,5-Trimethylbenzene	1.05	ug/L	1.0	0.27	1		02/02/17 00:18	108-67-8	
Vinyl chloride	0.205	ug/L	0.20	0.069	1		02/02/17 00:18	75-01-4	
Xylene (Total)	3.05	ug/L	3.0	0.32	1		02/02/17 00:18	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-125		1		02/02/17 00:18	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1		02/02/17 00:18	2037-26-5	
4-Bromofluorobenzene (S)	110	%	75-125		1		02/02/17 00:18	460-00-4	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former MGP  
Pace Project No.: 10377374

QC Batch: 457926 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV 465 W  
Associated Lab Samples: 10377374006

METHOD BLANK: 2506544 Matrix: Water  
Associated Lab Samples: 10377374006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	01/30/17 23:21	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	01/30/17 23:21	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	01/30/17 23:21	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	01/30/17 23:21	
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	1.0	01/30/17 23:21	
1,1-Dichloroethane	ug/L	<1.0	1.0	01/30/17 23:21	
1,1-Dichloroethene	ug/L	<1.0	1.0	01/30/17 23:21	
1,1-Dichloropropene	ug/L	<1.0	1.0	01/30/17 23:21	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	01/30/17 23:21	
1,2,3-Trichloropropane	ug/L	<4.0	4.0	01/30/17 23:21	
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	01/30/17 23:21	
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	01/30/17 23:21	
1,2-Dibromo-3-chloropropane	ug/L	<4.0	4.0	01/30/17 23:21	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	01/30/17 23:21	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	01/30/17 23:21	
1,2-Dichloroethane	ug/L	<1.0	1.0	01/30/17 23:21	
1,2-Dichloropropane	ug/L	<4.0	4.0	01/30/17 23:21	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	01/30/17 23:21	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	01/30/17 23:21	
1,3-Dichloropropane	ug/L	<1.0	1.0	01/30/17 23:21	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	01/30/17 23:21	
2,2-Dichloropropane	ug/L	<4.0	4.0	01/30/17 23:21	
2-Butanone (MEK)	ug/L	<5.0	5.0	01/30/17 23:21	
2-Chlorotoluene	ug/L	<1.0	1.0	01/30/17 23:21	
4-Chlorotoluene	ug/L	<1.0	1.0	01/30/17 23:21	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	01/30/17 23:21	
Acetone	ug/L	<20.0	20.0	01/30/17 23:21	
Allyl chloride	ug/L	<4.0	4.0	01/30/17 23:21	
Benzene	ug/L	<1.0	1.0	01/30/17 23:21	
Bromobenzene	ug/L	<1.0	1.0	01/30/17 23:21	
Bromochloromethane	ug/L	<1.0	1.0	01/30/17 23:21	
Bromodichloromethane	ug/L	<1.0	1.0	01/30/17 23:21	
Bromoform	ug/L	<4.0	4.0	01/30/17 23:21	
Bromomethane	ug/L	<4.0	4.0	01/30/17 23:21	
Carbon tetrachloride	ug/L	<1.0	1.0	01/30/17 23:21	
Chlorobenzene	ug/L	<1.0	1.0	01/30/17 23:21	
Chloroethane	ug/L	<1.0	1.0	01/30/17 23:21	
Chloroform	ug/L	<1.0	1.0	01/30/17 23:21	
Chloromethane	ug/L	<4.0	4.0	01/30/17 23:21	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	01/30/17 23:21	
cis-1,3-Dichloropropene	ug/L	<4.0	4.0	01/30/17 23:21	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former MGP  
Pace Project No.: 10377374

METHOD BLANK: 2506544 Matrix: Water  
Associated Lab Samples: 10377374006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<1.0	1.0	01/30/17 23:21	
Dibromomethane	ug/L	<4.0	4.0	01/30/17 23:21	
Dichlorodifluoromethane	ug/L	<1.0	1.0	01/30/17 23:21	
Dichlorofluoromethane	ug/L	<1.0	1.0	01/30/17 23:21	
Diethyl ether (Ethyl ether)	ug/L	<4.0	4.0	01/30/17 23:21	
Ethylbenzene	ug/L	<1.0	1.0	01/30/17 23:21	
Hexachloro-1,3-butadiene	ug/L	<4.0	4.0	01/30/17 23:21	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	01/30/17 23:21	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	01/30/17 23:21	
Methylene Chloride	ug/L	<4.0	4.0	01/30/17 23:21	
n-Butylbenzene	ug/L	<1.0	1.0	01/30/17 23:21	
n-Propylbenzene	ug/L	<1.0	1.0	01/30/17 23:21	
Naphthalene	ug/L	<4.0	4.0	01/30/17 23:21	
p-Isopropyltoluene	ug/L	<1.0	1.0	01/30/17 23:21	
sec-Butylbenzene	ug/L	<1.0	1.0	01/30/17 23:21	
Styrene	ug/L	<1.0	1.0	01/30/17 23:21	
tert-Butylbenzene	ug/L	<1.0	1.0	01/30/17 23:21	
Tetrachloroethene	ug/L	<1.0	1.0	01/30/17 23:21	
Tetrahydrofuran	ug/L	<10.0	10.0	01/30/17 23:21	
Toluene	ug/L	<1.0	1.0	01/30/17 23:21	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	01/30/17 23:21	
trans-1,3-Dichloropropene	ug/L	<4.0	4.0	01/30/17 23:21	
Trichloroethene	ug/L	<0.40	0.40	01/30/17 23:21	
Trichlorofluoromethane	ug/L	<1.0	1.0	01/30/17 23:21	
Vinyl chloride	ug/L	<0.20	0.20	01/30/17 23:21	
Xylene (Total)	ug/L	<3.0	3.0	01/30/17 23:21	
1,2-Dichloroethane-d4 (S)	%	95	75-125	01/30/17 23:21	
4-Bromofluorobenzene (S)	%	99	75-125	01/30/17 23:21	
Toluene-d8 (S)	%	92	75-125	01/30/17 23:21	

LABORATORY CONTROL SAMPLE & LCSD: 2506545

2506693

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.7	22.4	114	112	75-125	1	20	
1,1,1-Trichloroethane	ug/L	20	21.9	22.5	110	112	73-125	3	20	
1,1,2,2-Tetrachloroethane	ug/L	20	21.6	21.4	108	107	75-128	1	20	
1,1,2-Trichloroethane	ug/L	20	22.3	21.8	112	109	75-129	3	20	
1,1,2-Trichlorotrifluoroethane	ug/L	20	25.8	26.4	129	132	69-125	2	20	LO
1,1-Dichloroethane	ug/L	20	21.3	21.5	106	107	75-131	1	20	
1,1-Dichloroethene	ug/L	20	21.5	21.5	107	107	72-125	0	20	
1,1-Dichloropropene	ug/L	20	22.2	22.5	111	113	74-125	2	20	
1,2,3-Trichlorobenzene	ug/L	20	21.7	22.0	109	110	68-127	1	20	
1,2,3-Trichloropropane	ug/L	20	22.2	21.7	111	109	75-125	2	20	
1,2,4-Trichlorobenzene	ug/L	20	20.4	20.5	102	102	70-125	0	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

LABORATORY CONTROL SAMPLE & LCSD: 2506545		2506693									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1,2,4-Trimethylbenzene	ug/L	20	19.6	19.5	98	98	75-130	0	20		
1,2-Dibromo-3-chloropropane	ug/L	50	53.3	52.3	107	105	74-125	2	20		
1,2-Dibromoethane (EDB)	ug/L	20	22.3	21.8	112	109	75-125	2	20		
1,2-Dichlorobenzene	ug/L	20	21.9	21.6	110	108	75-125	1	20		
1,2-Dichloroethane	ug/L	20	20.7	20.8	103	104	72-129	1	20		
1,2-Dichloropropane	ug/L	20	21.8	21.7	109	109	71-129	1	20		
1,3,5-Trimethylbenzene	ug/L	20	20.0	19.9	100	99	75-127	0	20		
1,3-Dichlorobenzene	ug/L	20	21.4	21.4	107	107	75-125	0	20		
1,3-Dichloropropane	ug/L	20	21.0	21.3	105	107	75-125	1	20		
1,4-Dichlorobenzene	ug/L	20	21.6	21.5	108	107	75-125	0	20		
2,2-Dichloropropane	ug/L	20	19.5	19.7	97	98	71-125	1	20		
2-Butanone (MEK)	ug/L	100	97.2	96.9	97	97	58-150	0	20		
2-Chlorotoluene	ug/L	20	21.1	21.1	105	105	75-125	0	20		
4-Chlorotoluene	ug/L	20	20.2	20.3	101	102	75-130	0	20		
4-Methyl-2-pentanone (MIBK)	ug/L	100	93.2	90.7	93	91	72-140	3	20		
Acetone	ug/L	100	126	127	126	127	69-137	1	20		
Allyl chloride	ug/L	20	18.4	18.6	92	93	68-132	1	20		
Benzene	ug/L	20	20.6	20.7	103	104	75-125	1	20		
Bromobenzene	ug/L	20	22.6	22.5	113	113	75-125	1	20		
Bromochloromethane	ug/L	20	24.0	24.2	120	121	75-125	1	20		
Bromodichloromethane	ug/L	20	23.1	22.9	115	115	69-128	1	20		
Bromoform	ug/L	20	20.8	20.7	104	103	75-125	1	20		
Bromomethane	ug/L	20	23.7	24.8	119	124	30-150	4	20		
Carbon tetrachloride	ug/L	20	22.2	23.0	111	115	74-125	4	20		
Chlorobenzene	ug/L	20	21.1	21.0	105	105	75-125	0	20		
Chloroethane	ug/L	20	21.4	21.4	107	107	60-150	0	20		
Chloroform	ug/L	20	21.4	21.9	107	109	75-126	2	20		
Chloromethane	ug/L	20	20.3	20.2	102	101	46-150	1	20		
cis-1,2-Dichloroethene	ug/L	20	22.2	22.4	111	112	75-126	1	20		
cis-1,3-Dichloropropene	ug/L	20	20.9	20.6	105	103	75-125	2	20		
Dibromochloromethane	ug/L	20	23.0	22.9	115	114	75-125	0	20		
Dibromomethane	ug/L	20	23.3	23.1	117	116	72-127	1	20		
Dichlorodifluoromethane	ug/L	20	25.0	25.4	125	127	58-135	1	20		
Dichlorofluoromethane	ug/L	20	21.3	21.3	106	107	68-149	0	20		
Diethyl ether (Ethyl ether)	ug/L	20	21.9	22.1	110	110	66-144	1	20		
Ethylbenzene	ug/L	20	19.8	19.7	99	98	75-125	1	20		
Hexachloro-1,3-butadiene	ug/L	20	20.5	21.7	102	108	73-125	6	20		
Isopropylbenzene (Cumene)	ug/L	20	19.7	19.6	99	98	69-140	1	20		
Methyl-tert-butyl ether	ug/L	20	21.2	21.5	106	108	75-126	1	20		
Methylene Chloride	ug/L	20	22.3	22.7	111	113	71-130	2	20		
n-Butylbenzene	ug/L	20	18.6	19.1	93	95	71-129	2	20		
n-Propylbenzene	ug/L	20	19.7	19.8	99	99	71-133	0	20		
Naphthalene	ug/L	20	20.2	20.0	101	100	59-137	1	20		
p-Isopropyltoluene	ug/L	20	19.0	19.0	95	95	74-127	0	20		
sec-Butylbenzene	ug/L	20	19.8	19.7	99	99	66-140	0	20		
Styrene	ug/L	20	21.3	20.6	107	103	75-125	4	20		
tert-Butylbenzene	ug/L	20	19.7	19.3	99	97	73-129	2	20		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

LABORATORY CONTROL SAMPLE & LCSD:		2506545		2506693							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Tetrachloroethene	ug/L	20	22.3	22.1	111	110	75-125	1	20		
Tetrahydrofuran	ug/L	200	256	251	128	126	71-129	2	20		
Toluene	ug/L	20	20.4	20.3	102	101	75-125	1	20		
trans-1,2-Dichloroethene	ug/L	20	21.7	22.0	108	110	75-125	1	20		
trans-1,3-Dichloropropene	ug/L	20	20.8	20.3	104	101	75-125	3	20		
Trichloroethene	ug/L	20	23.0	22.8	115	114	75-125	1	20		
Trichlorofluoromethane	ug/L	20	26.1	26.2	131	131	74-128	0	20	LO	
Vinyl chloride	ug/L	20	22.2	21.9	111	110	71-131	1	20		
Xylene (Total)	ug/L	60	61.0	60.6	102	101	75-125	1	20		
1,2-Dichloroethane-d4 (S)	%				94	97	75-125				
4-Bromofluorobenzene (S)	%				98	98	75-125				
Toluene-d8 (S)	%				94	93	75-125				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2506726		2506727								
Parameter	Units	10377633001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	22.4	23.0	112	115	75-125	3	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	23.1	23.0	115	115	71-144	0	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.2	22.2	106	111	75-131	5	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	21.5	22.2	107	111	75-125	3	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	28.0	27.4	140	137	75-150	2	30	
1,1-Dichloroethane	ug/L	ND	20	20	21.3	21.5	107	107	64-150	1	30	
1,1-Dichloroethene	ug/L	ND	20	20	22.5	22.4	112	112	68-150	0	30	
1,1-Dichloropropene	ug/L	ND	20	20	23.1	23.1	115	115	68-145	0	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	22.6	23.3	113	116	57-142	3	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	21.7	22.9	109	114	75-125	5	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.3	22.0	106	110	60-135	3	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.0	20.3	100	102	67-148	2	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	52.4	54.6	105	109	32-137	4	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.2	22.1	106	111	75-125	4	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	21.4	22.1	107	110	75-125	3	30	
1,2-Dichloroethane	ug/L	ND	20	20	20.0	20.2	100	101	62-138	1	30	
1,2-Dichloropropane	ug/L	ND	20	20	21.4	22.5	107	112	62-144	5	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.5	21.1	103	105	67-148	3	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	21.8	22.3	109	111	74-131	2	30	
1,3-Dichloropropane	ug/L	ND	20	20	20.7	21.1	104	106	75-127	2	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	21.7	22.2	108	111	74-126	2	30	
2,2-Dichloropropane	ug/L	ND	20	20	20.4	20.4	102	102	56-146	0	30	
2-Butanone (MEK)	ug/L	ND	100	100	90.6	94.3	91	94	47-150	4	30	
2-Chlorotoluene	ug/L	ND	20	20	21.8	22.5	109	112	74-137	3	30	
4-Chlorotoluene	ug/L	ND	20	20	20.8	21.4	104	107	72-138	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	88.1	94.1	88	94	60-147	7	30	
Acetone	ug/L	ND	100	100	123	124	123	124	61-150	1	30	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2506726												2506727											
Parameter	Units	10377633001		MS	MSD	MS		MSD		% Rec		Max		Qual									
		Result	Spike Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD											
Allyl chloride	ug/L	ND	20	20	20	18.8	18.7	94	93	53-150	1	30											
Benzene	ug/L	ND	20	20	20	20.8	21.0	104	105	52-147	1	30											
Bromobenzene	ug/L	ND	20	20	20	23.0	23.6	115	118	75-129	3	30											
Bromochloromethane	ug/L	ND	20	20	20	22.8	23.8	114	119	72-128	4	30											
Bromodichloromethane	ug/L	ND	20	20	20	23.2	23.9	116	120	65-137	3	30											
Bromoform	ug/L	ND	20	20	20	20.1	21.1	101	105	59-133	5	30											
Bromomethane	ug/L	ND	20	20	20	23.4	24.0	117	120	30-150	3	30											
Carbon tetrachloride	ug/L	ND	20	20	20	23.7	24.1	119	120	73-144	1	30											
Chlorobenzene	ug/L	ND	20	20	20	21.0	22.0	105	110	75-126	5	30											
Chloroethane	ug/L	ND	20	20	20	25.5	24.0	128	120	55-150	6	30											
Chloroform	ug/L	ND	20	20	20	21.0	21.4	105	107	66-143	2	30											
Chloromethane	ug/L	ND	20	20	20	19.5	19.3	97	97	42-150	1	30											
cis-1,2-Dichloroethene	ug/L	ND	20	20	20	22.4	22.1	112	110	65-143	1	30											
cis-1,3-Dichloropropene	ug/L	ND	20	20	20	20.1	20.8	100	104	75-125	4	30											
Dibromochloromethane	ug/L	ND	20	20	20	22.4	23.3	112	117	75-125	4	30											
Dibromomethane	ug/L	ND	20	20	20	22.8	23.2	114	116	66-133	2	30											
Dichlorodifluoromethane	ug/L	ND	20	20	20	26.3	26.8	132	134	74-150	2	30											
Dichlorofluoromethane	ug/L	ND	20	20	20	20.6	21.3	103	106	68-150	3	30											
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	20	20.6	20.8	103	104	57-148	1	30											
Ethylbenzene	ug/L	ND	20	20	20	20.1	20.7	101	103	67-149	3	30											
Hexachloro-1,3-butadiene	ug/L	ND	20	20	20	25.5	25.3	127	126	65-143	1	30											
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20	20.2	20.8	101	104	64-150	3	30											
Methyl-tert-butyl ether	ug/L	ND	20	20	20	19.9	20.7	100	103	71-130	4	30											
Methylene Chloride	ug/L	ND	20	20	20	21.5	21.8	108	109	67-137	1	30											
n-Butylbenzene	ug/L	ND	20	20	20	20.4	20.4	102	102	70-138	0	30											
n-Propylbenzene	ug/L	ND	20	20	20	20.8	21.2	104	106	70-148	2	30											
Naphthalene	ug/L	ND	20	20	20	19.7	20.8	98	104	39-150	5	30											
p-Isopropyltoluene	ug/L	ND	20	20	20	20.3	20.9	101	105	74-138	3	30											
sec-Butylbenzene	ug/L	ND	20	20	20	21.2	21.6	106	108	64-150	2	30											
Styrene	ug/L	ND	20	20	20	20.7	20.9	103	105	75-132	1	30											
tert-Butylbenzene	ug/L	ND	20	20	20	20.7	21.2	104	106	75-138	2	30											
Tetrachloroethene	ug/L	ND	20	20	20	23.1	23.6	115	118	73-136	2	30											
Tetrahydrofuran	ug/L	ND	200	200	200	248	253	124	127	68-142	2	30											
Toluene	ug/L	ND	20	20	20	20.9	21.3	104	106	69-139	2	30											
trans-1,2-Dichloroethene	ug/L	ND	20	20	20	22.4	22.2	112	111	75-135	1	30											
trans-1,3-Dichloropropene	ug/L	ND	20	20	20	20.0	20.9	100	105	66-136	4	30											
Trichloroethene	ug/L	ND	20	20	20	23.9	25.0	119	125	74-135	5	30											
Trichlorofluoromethane	ug/L	ND	20	20	20	26.7	26.8	134	134	75-150	0	30											
Vinyl chloride	ug/L	ND	20	20	20	22.7	22.9	114	115	69-150	1	30											
Xylene (Total)	ug/L	ND	60	60	60	60.9	62.5	102	104	70-147	3	30											
1,2-Dichloroethane-d4 (S)	%							94	92	75-125													
4-Bromofluorobenzene (S)	%							101	100	75-125													
Toluene-d8 (S)	%							94	94	75-125													

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Former MGP  
Pace Project No.: 10377374

QC Batch: 458264 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV 465 W  
Associated Lab Samples: 10377374001, 10377374002, 10377374003, 10377374004, 10377374005, 10377374007, 10377374008, 10377374009, 10377374010, 10377374011, 10377374012, 10377374013, 10377374014

METHOD BLANK: 2508084 Matrix: Water  
Associated Lab Samples: 10377374001, 10377374002, 10377374003, 10377374004, 10377374005, 10377374007, 10377374008, 10377374009, 10377374010, 10377374011, 10377374012, 10377374013, 10377374014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.05	1.0	02/02/17 00:02	
1,1,1-Trichloroethane	ug/L	1.05	1.0	02/02/17 00:02	
1,1,2,2-Tetrachloroethane	ug/L	1.05	1.0	02/02/17 00:02	
1,1,2-Trichloroethane	ug/L	1.05	1.0	02/02/17 00:02	
1,1,2-Trichlorotrifluoroethane	ug/L	1.05	1.0	02/02/17 00:02	
1,1-Dichloroethane	ug/L	1.05	1.0	02/02/17 00:02	
1,1-Dichloroethene	ug/L	1.05	1.0	02/02/17 00:02	
1,1-Dichloropropene	ug/L	1.05	1.0	02/02/17 00:02	
1,2,3-Trichlorobenzene	ug/L	1.05	1.0	02/02/17 00:02	
1,2,3-Trichloropropane	ug/L	4.05	4.0	02/02/17 00:02	
1,2,4-Trichlorobenzene	ug/L	1.05	1.0	02/02/17 00:02	
1,2,4-Trimethylbenzene	ug/L	1.05	1.0	02/02/17 00:02	
1,2-Dibromo-3-chloropropane	ug/L	10.05	10.0	02/02/17 00:02	
1,2-Dibromoethane (EDB)	ug/L	1.05	1.0	02/02/17 00:02	
1,2-Dichlorobenzene	ug/L	1.05	1.0	02/02/17 00:02	
1,2-Dichloroethane	ug/L	1.05	1.0	02/02/17 00:02	
1,2-Dichloropropane	ug/L	4.05	4.0	02/02/17 00:02	
1,3,5-Trimethylbenzene	ug/L	1.05	1.0	02/02/17 00:02	
1,3-Dichlorobenzene	ug/L	1.05	1.0	02/02/17 00:02	
1,3-Dichloropropane	ug/L	1.05	1.0	02/02/17 00:02	
1,4-Dichlorobenzene	ug/L	1.05	1.0	02/02/17 00:02	
2,2-Dichloropropane	ug/L	4.05	4.0	02/02/17 00:02	
2-Butanone (MEK)	ug/L	5.05	5.0	02/02/17 00:02	
2-Chlorotoluene	ug/L	1.05	1.0	02/02/17 00:02	
4-Chlorotoluene	ug/L	1.05	1.0	02/02/17 00:02	
4-Methyl-2-pentanone (MIBK)	ug/L	5.05	5.0	02/02/17 00:02	
Acetone	ug/L	20.05	20.0	02/02/17 00:02	
Allyl chloride	ug/L	4.05	4.0	02/02/17 00:02	
Benzene	ug/L	1.05	1.0	02/02/17 00:02	
Bromobenzene	ug/L	1.05	1.0	02/02/17 00:02	
Bromochloromethane	ug/L	1.05	1.0	02/02/17 00:02	
Bromodichloromethane	ug/L	1.05	1.0	02/02/17 00:02	
Bromoform	ug/L	4.05	4.0	02/02/17 00:02	
Bromomethane	ug/L	10.05	10.0	02/02/17 00:02	
Carbon tetrachloride	ug/L	1.05	1.0	02/02/17 00:02	
Chlorobenzene	ug/L	1.05	1.0	02/02/17 00:02	
Chloroethane	ug/L	4.05	4.0	02/02/17 00:02	
Chloroform	ug/L	1.05	1.0	02/02/17 00:02	
Chloromethane	ug/L	4.05	4.0	02/02/17 00:02	
cis-1,2-Dichloroethene	ug/L	1.05	1.0	02/02/17 00:02	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

METHOD BLANK: 2508084

Matrix: Water

Associated Lab Samples: 10377374001, 10377374002, 10377374003, 10377374004, 10377374005, 10377374007, 10377374008, 10377374009, 10377374010, 10377374011, 10377374012, 10377374013, 10377374014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	4.05	4.0	02/02/17 00:02	
Dibromochloromethane	ug/L	4.05	4.0	02/02/17 00:02	
Dibromomethane	ug/L	4.05	4.0	02/02/17 00:02	
Dichlorodifluoromethane	ug/L	1.05	1.0	02/02/17 00:02	
Dichlorofluoromethane	ug/L	1.05	1.0	02/02/17 00:02	
Diethyl ether (Ethyl ether)	ug/L	4.05	4.0	02/02/17 00:02	
Ethylbenzene	ug/L	1.05	1.0	02/02/17 00:02	
Hexachloro-1,3-butadiene	ug/L	1.05	1.0	02/02/17 00:02	
Isopropylbenzene (Cumene)	ug/L	1.05	1.0	02/02/17 00:02	
Methyl-tert-butyl ether	ug/L	1.05	1.0	02/02/17 00:02	
Methylene Chloride	ug/L	4.05	4.0	02/02/17 00:02	
n-Butylbenzene	ug/L	1.05	1.0	02/02/17 00:02	
n-Propylbenzene	ug/L	1.05	1.0	02/02/17 00:02	
Naphthalene	ug/L	4.05	4.0	02/02/17 00:02	
p-Isopropyltoluene	ug/L	1.05	1.0	02/02/17 00:02	
sec-Butylbenzene	ug/L	1.05	1.0	02/02/17 00:02	
Styrene	ug/L	1.05	1.0	02/02/17 00:02	
tert-Butylbenzene	ug/L	1.05	1.0	02/02/17 00:02	
Tetrachloroethene	ug/L	1.05	1.0	02/02/17 00:02	
Tetrahydrofuran	ug/L	10.05	10.0	02/02/17 00:02	
Toluene	ug/L	1.05	1.0	02/02/17 00:02	
trans-1,2-Dichloroethene	ug/L	1.05	1.0	02/02/17 00:02	
trans-1,3-Dichloropropene	ug/L	4.05	4.0	02/02/17 00:02	
Trichloroethene	ug/L	0.405	0.40	02/02/17 00:02	
Trichlorofluoromethane	ug/L	1.05	1.0	02/02/17 00:02	
Vinyl chloride	ug/L	0.205	0.20	02/02/17 00:02	
Xylene (Total)	ug/L	3.05	3.0	02/02/17 00:02	
1,2-Dichloroethane-d4 (S)	%	106	75-125	02/02/17 00:02	
4-Bromofluorobenzene (S)	%	107	75-125	02/02/17 00:02	
Toluene-d8 (S)	%	103	75-125	02/02/17 00:02	

LABORATORY CONTROL SAMPLE & LCSD: 2508085

2508207

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.5	51.4	105	103	75-125	2	20	
1,1,1-Trichloroethane	ug/L	50	50.1	47.6	100	95	73-125	5	20	
1,1,2,2-Tetrachloroethane	ug/L	50	51.4	53.8	103	108	75-128	5	20	
1,1,2-Trichloroethane	ug/L	50	51.2	48.9	102	98	75-129	5	20	
1,1,2-Trichlorotrifluoroethane	ug/L	50	51.0	48.8	102	98	69-125	4	20	
1,1-Dichloroethane	ug/L	50	48.2	46.5	96	93	75-131	4	20	
1,1-Dichloroethene	ug/L	50	54.0	49.5	108	99	72-125	9	20	
1,1-Dichloropropene	ug/L	50	51.1	48.2	102	96	74-125	6	20	
1,2,3-Trichlorobenzene	ug/L	50	37.2	40.5	74	81	68-127	9	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

LABORATORY CONTROL SAMPLE & LCSD: 2508085		2508207		LCS	LCSD	% Rec	LCSD	% Rec	Max	
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2,3-Trichloropropane	ug/L	50	49.6	55.5	99	111	75-125	11	20	
1,2,4-Trichlorobenzene	ug/L	50	40.1	43.0	80	86	70-125	7	20	
1,2,4-Trimethylbenzene	ug/L	50	49.4	49.7	99	99	75-130	1	20	
1,2-Dibromo-3-chloropropane	ug/L	125	103	115	82	92	74-125	11	20	
1,2-Dibromoethane (EDB)	ug/L	50	48.1	47.2	96	94	75-125	2	20	
1,2-Dichlorobenzene	ug/L	50	48.8	49.8	98	100	75-125	2	20	
1,2-Dichloroethane	ug/L	50	46.5	45.0	93	90	72-129	3	20	
1,2-Dichloropropane	ug/L	50	48.6	48.7	97	97	71-129	0	20	
1,3,5-Trimethylbenzene	ug/L	50	45.8	47.0	92	94	75-127	3	20	
1,3-Dichlorobenzene	ug/L	50	46.6	47.7	93	95	75-125	2	20	
1,3-Dichloropropane	ug/L	50	48.9	47.9	98	96	75-125	2	20	
1,4-Dichlorobenzene	ug/L	50	45.2	46.7	90	93	75-125	3	20	
2,2-Dichloropropane	ug/L	50	44.7	42.9	89	86	71-125	4	20	
2-Butanone (MEK)	ug/L	250	238	243	95	97	58-150	2	20	
2-Chlorotoluene	ug/L	50	49.4	50.7	99	101	75-125	3	20	
4-Chlorotoluene	ug/L	50	50.8	51.6	102	103	75-130	2	20	
4-Methyl-2-pentanone (MIBK)	ug/L	250	252	261	101	104	72-140	4	20	
Acetone	ug/L	250	240	243	96	97	69-137	1	20	
Allyl chloride	ug/L	50	46.8	45.3	94	91	68-132	3	20	
Benzene	ug/L	50	47.2	44.1	94	88	75-125	7	20	
Bromobenzene	ug/L	50	46.3	47.2	93	94	75-125	2	20	
Bromochloromethane	ug/L	50	48.9	46.9	98	94	75-125	4	20	
Bromodichloromethane	ug/L	50	53.3	52.4	107	105	69-128	2	20	
Bromoform	ug/L	50	44.5	46.9	89	94	75-125	5	20	
Bromomethane	ug/L	50	45.9	47.4	92	95	30-150	3	20	
Carbon tetrachloride	ug/L	50	53.4	52.6	107	105	74-125	1	20	
Chlorobenzene	ug/L	50	46.0	44.8	92	90	75-125	3	20	
Chloroethane	ug/L	50	63.1	58.8	126	118	60-150	7	20	
Chloroform	ug/L	50	48.7	47.2	97	94	75-126	3	20	
Chloromethane	ug/L	50	51.3	47.5	103	95	46-150	8	20	
cis-1,2-Dichloroethene	ug/L	50	46.3	46.5	93	93	75-126	0	20	
cis-1,3-Dichloropropene	ug/L	50	49.8	50.6	100	101	75-125	2	20	
Dibromochloromethane	ug/L	50	45.4	45.7	91	91	75-125	1	20	
Dibromomethane	ug/L	50	49.5	49.0	99	98	72-127	1	20	
Dichlorodifluoromethane	ug/L	50	51.6	48.8	103	98	58-135	6	20	
Dichlorofluoromethane	ug/L	50	54.1	53.2	108	106	68-149	2	20	
Diethyl ether (Ethyl ether)	ug/L	50	49.1	48.4	98	97	66-144	1	20	
Ethylbenzene	ug/L	50	47.3	45.4	95	91	75-125	4	20	
Hexachloro-1,3-butadiene	ug/L	50	34.7	37.3	69	75	73-125	7	20	LO
Isopropylbenzene (Cumene)	ug/L	50	46.6	45.8	93	92	69-140	2	20	
Methyl-tert-butyl ether	ug/L	50	50.1	48.6	100	97	75-126	3	20	
Methylene Chloride	ug/L	50	52.1	49.3	104	99	71-130	5	20	
n-Butylbenzene	ug/L	50	50.7	51.9	101	104	71-129	2	20	
n-Propylbenzene	ug/L	50	48.2	49.7	96	99	71-133	3	20	
Naphthalene	ug/L	50	38.5	43.1	77	86	59-137	11	20	
p-Isopropyltoluene	ug/L	50	45.2	46.6	90	93	74-127	3	20	
sec-Butylbenzene	ug/L	50	49.1	50.7	98	101	66-140	3	20	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

LABORATORY CONTROL SAMPLE & LCSD:		2508085		2508207							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Styrene	ug/L	50	50.2	48.7	100	97	75-125	3	20		
tert-Butylbenzene	ug/L	50	46.4	46.6	93	93	73-129	0	20		
Tetrachloroethene	ug/L	50	43.0	42.1	86	84	75-125	2	20		
Tetrahydrofuran	ug/L	500	455	446	91	89	71-129	2	20		
Toluene	ug/L	50	47.5	45.0	95	90	75-125	6	20		
trans-1,2-Dichloroethene	ug/L	50	49.8	45.1	100	90	75-125	10	20		
trans-1,3-Dichloropropene	ug/L	50	50.0	51.2	100	102	75-125	2	20		
Trichloroethene	ug/L	50	46.1	44.6	92	89	75-125	3	20		
Trichlorofluoromethane	ug/L	50	58.2	55.6	116	111	74-128	5	20		
Vinyl chloride	ug/L	50	57.8	54.4	116	109	71-131	6	20		
Xylene (Total)	ug/L	150	140	133	93	89	75-125	5	20		
1,2-Dichloroethane-d4 (S)	%				104	102	75-125				
4-Bromofluorobenzene (S)	%				102	107	75-125				
Toluene-d8 (S)	%				101	102	75-125				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2508208		2508209								
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		10377374013 Result	Spike Conc.	Spike Conc.	Result							
1,1,1,2-Tetrachloroethane	ug/L	<50.0	1000	1000	1040	1040	104	104	75-125	0	30	
1,1,1-Trichloroethane	ug/L	<50.0	1000	1000	985	986	99	99	71-144	0	30	
1,1,2,2-Tetrachloroethane	ug/L	<50.0	1000	1000	1070	1110	107	111	75-131	4	30	
1,1,2-Trichloroethane	ug/L	<50.0	1000	1000	1030	1070	103	107	75-125	4	30	
1,1,2-Trichlorotrifluoroethane	ug/L	<50.0	1000	1000	1040	954	104	95	75-150	8	30	
1,1-Dichloroethane	ug/L	<50.0	1000	1000	963	968	96	97	64-150	1	30	
1,1-Dichloroethene	ug/L	<50.0	1000	1000	1050	1020	105	102	68-150	3	30	
1,1-Dichloropropene	ug/L	<50.0	1000	1000	1050	1030	105	103	68-145	2	30	
1,2,3-Trichlorobenzene	ug/L	<50.0	1000	1000	808	811	81	81	57-142	0	30	
1,2,3-Trichloropropane	ug/L	<200	1000	1000	1080	1150	108	115	75-125	6	30	
1,2,4-Trichlorobenzene	ug/L	<50.0	1000	1000	875	848	88	85	60-135	3	30	
1,2,4-Trimethylbenzene	ug/L	<50.0	1000	1000	1070	1050	105	103	67-148	2	30	
1,2-Dibromo-3-chloropropane	ug/L	<500	2500	2500	2190	2310	87	92	32-137	5	30	
1,2-Dibromoethane (EDB)	ug/L	<50.0	1000	1000	971	985	97	99	75-125	1	30	
1,2-Dichlorobenzene	ug/L	<50.0	1000	1000	1040	1020	104	102	75-125	2	30	
1,2-Dichloroethane	ug/L	<50.0	1000	1000	943	959	94	96	62-138	2	30	
1,2-Dichloropropane	ug/L	<200	1000	1000	1030	1010	103	101	62-144	2	30	
1,3,5-Trimethylbenzene	ug/L	<50.0	1000	1000	983	977	98	97	67-148	1	30	
1,3-Dichlorobenzene	ug/L	<50.0	1000	1000	1000	1000	100	100	74-131	0	30	
1,3-Dichloropropane	ug/L	<50.0	1000	1000	1030	1020	103	102	75-127	1	30	
1,4-Dichlorobenzene	ug/L	<50.0	1000	1000	986	972	99	97	74-126	1	30	
2,2-Dichloropropane	ug/L	<200	1000	1000	862	825	86	83	56-146	4	30	
2-Butanone (MEK)	ug/L	<250	5000	5000	4690	5000	94	100	47-150	6	30	
2-Chlorotoluene	ug/L	<50.0	1000	1000	1060	1030	106	103	74-137	2	30	
4-Chlorotoluene	ug/L	<50.0	1000	1000	1070	1050	107	105	72-138	2	30	

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### QUALITY CONTROL DATA

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Parameter	Units	2508208		2508209		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		10377374013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
4-Methyl-2-pentanone (MIBK)	ug/L	<250	5000	5000	5240	5540	105	111	60-147	6	30		
Acetone	ug/L	<1000	5000	5000	5150	5210	103	104	61-150	1	30		
Allyl chloride	ug/L	<200	1000	1000	927	918	93	92	53-150	1	30		
Benzene	ug/L	12000	1000	1000	12700	12400	75	48	52-147	2	30	E,M1	
Bromobenzene	ug/L	<50.0	1000	1000	990	1000	99	100	75-129	1	30		
Bromochloromethane	ug/L	<50.0	1000	1000	1000	1040	100	104	72-128	4	30		
Bromodichloromethane	ug/L	<50.0	1000	1000	1030	1010	103	101	65-137	2	30		
Bromoform	ug/L	<200	1000	1000	894	847	89	85	59-133	5	30		
Bromomethane	ug/L	<500	1000	1000	1240	1060	124	106	30-150	15	30		
Carbon tetrachloride	ug/L	<50.0	1000	1000	1080	1040	108	104	73-144	4	30		
Chlorobenzene	ug/L	<50.0	1000	1000	981	954	98	95	75-126	3	30		
Chloroethane	ug/L	<200	1000	1000	1000	1090	100	109	55-150	8	30		
Chloroform	ug/L	<50.0	1000	1000	1020	982	102	98	66-143	4	30		
Chloromethane	ug/L	<200	1000	1000	1020	950	102	95	42-150	7	30		
cis-1,2-Dichloroethene	ug/L	<50.0	1000	1000	984	950	98	95	65-143	4	30		
cis-1,3-Dichloropropene	ug/L	<200	1000	1000	988	946	99	95	75-125	4	30		
Dibromochloromethane	ug/L	<200	1000	1000	941	934	94	93	75-125	1	30		
Dibromomethane	ug/L	<200	1000	1000	1040	970	104	97	66-133	7	30		
Dichlorodifluoromethane	ug/L	<50.0	1000	1000	1080	972	108	97	74-150	10	30		
Dichlorofluoromethane	ug/L	<50.0	1000	1000	1100	1080	110	108	68-150	2	30		
Diethyl ether (Ethyl ether)	ug/L	<200	1000	1000	986	1000	99	100	57-148	2	30		
Ethylbenzene	ug/L	101	1000	1000	1100	1080	100	98	67-149	2	30		
Hexachloro-1,3-butadiene	ug/L	<50.0	1000	1000	796	733	80	73	65-143	8	30		
Isopropylbenzene (Cumene)	ug/L	<50.0	1000	1000	989	959	99	96	64-150	3	30		
Methyl-tert-butyl ether	ug/L	<50.0	1000	1000	1030	1010	103	101	71-130	2	30		
Methylene Chloride	ug/L	<200	1000	1000	1060	1080	106	108	67-137	1	30		
n-Butylbenzene	ug/L	<50.0	1000	1000	1090	1050	109	105	70-138	4	30		
n-Propylbenzene	ug/L	<50.0	1000	1000	1020	1010	102	101	70-148	1	30		
Naphthalene	ug/L	<200	1000	1000	878	910	82	85	39-150	4	30		
p-Isopropyltoluene	ug/L	<50.0	1000	1000	958	945	96	95	74-138	1	30		
sec-Butylbenzene	ug/L	<50.0	1000	1000	1040	1020	104	102	64-150	2	30		
Styrene	ug/L	105	1000	1000	1160	1140	106	104	75-132	1	30		
tert-Butylbenzene	ug/L	<50.0	1000	1000	987	972	99	97	75-138	2	30		
Tetrachloroethene	ug/L	<50.0	1000	1000	889	895	89	89	73-136	1	30		
Tetrahydrofuran	ug/L	<500	10000	10000	10000	9750	100	98	68-142	2	30		
Toluene	ug/L	3120	1000	1000	3970	3890	85	76	69-139	2	30		
trans-1,2-Dichloroethene	ug/L	<50.0	1000	1000	1020	942	102	94	75-135	8	30		
trans-1,3-Dichloropropene	ug/L	<200	1000	1000	980	973	98	97	66-136	1	30		
Trichloroethene	ug/L	<20.0	1000	1000	910	938	91	94	74-135	3	30		
Trichlorofluoromethane	ug/L	<50.0	1000	1000	1150	1120	115	112	75-150	3	30		
Vinyl chloride	ug/L	<10.0	1000	1000	1190	1130	119	113	69-150	5	30		
Xylene (Total)	ug/L	557	3000	3000	3570	3390	101	94	70-147	5	30		
1,2-Dichloroethane-d4 (S)	%						101	103	75-125				
4-Bromofluorobenzene (S)	%						106	107	75-125				
Toluene-d8 (S)	%						103	102	75-125				

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**QUALITY CONTROL DATA**

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

QC Batch: 457878 Analysis Method: EPA 8270D by HVI  
 QC Batch Method: EPA Mod. 3510C Analysis Description: 8270D Water PAH High Volume Injection  
 Associated Lab Samples: 10377374001, 10377374002, 10377374003, 10377374004, 10377374005, 10377374006, 10377374007, 10377374008, 10377374009, 10377374010, 10377374011, 10377374012, 10377374013

METHOD BLANK: 2506354 Matrix: Water  
 Associated Lab Samples: 10377374001, 10377374002, 10377374003, 10377374004, 10377374005, 10377374006, 10377374007, 10377374008, 10377374009, 10377374010, 10377374011, 10377374012, 10377374013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.023	0.023	02/06/17 10:01	N2
2-Chloronaphthalene	ug/L	<0.031	0.031	02/06/17 10:01	N2
2-Methylnaphthalene	ug/L	<0.037	0.037	02/06/17 10:01	N2
Acenaphthene	ug/L	<0.032	0.032	02/06/17 10:01	N2
Acenaphthylene	ug/L	<0.031	0.031	02/06/17 10:01	N2
Anthracene	ug/L	<0.027	0.027	02/06/17 10:01	N2
Benzo(a)anthracene	ug/L	<0.033	0.033	02/06/17 10:01	N2
Benzo(a)pyrene	ug/L	<0.0083	0.0083	02/06/17 10:01	N2
Benzo(b)fluoranthene	ug/L	<0.0057	0.0057	02/06/17 10:01	N2
Benzo(e)pyrene	ug/L	<0.0067	0.0067	02/06/17 10:01	N2
Benzo(g,h,i)perylene	ug/L	<0.0067	0.0067	02/06/17 10:01	N2
Benzo(k)fluoranthene	ug/L	<0.033	0.033	02/06/17 10:01	N2
Chrysene	ug/L	<0.0080	0.0080	02/06/17 10:01	N2
Dibenz(a,h)anthracene	ug/L	<0.026	0.026	02/06/17 10:01	N2
Dibenzofuran	ug/L	<0.032	0.032	02/06/17 10:01	N2
Fluoranthene	ug/L	<0.031	0.031	02/06/17 10:01	N2
Fluorene	ug/L	<0.031	0.031	02/06/17 10:01	N2
Indeno(1,2,3-cd)pyrene	ug/L	<0.0047	0.0047	02/06/17 10:01	N2
Naphthalene	ug/L	<0.040	0.040	02/06/17 10:01	N2
Phenanthrene	ug/L	<0.031	0.031	02/06/17 10:01	N2
Pyrene	ug/L	<0.0097	0.0097	02/06/17 10:01	N2
2-Fluorobiphenyl (S)	%	83	48-125	02/06/17 10:01	N2
p-Terphenyl-d14 (S)	%	79	51-125	02/06/17 10:01	N2

Parameter	Units	2506355		2506356		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	LCS % Rec				
1-Methylnaphthalene	ug/L	1	0.67	0.71	67	71	46-125	6	20 N2
2-Chloronaphthalene	ug/L	1	0.68	0.73	68	73	46-125	7	20 N2
2-Methylnaphthalene	ug/L	1	0.66	0.69	66	69	43-125	4	20 N2
Acenaphthene	ug/L	1	0.62	0.67	62	67	57-125	8	20 N2
Acenaphthylene	ug/L	1	0.64	0.68	64	68	52-125	7	20 N2
Anthracene	ug/L	1	0.68	0.72	68	72	58-125	5	20 N2
Benzo(a)anthracene	ug/L	1	0.67	0.68	67	68	58-125	2	20 N2
Benzo(a)pyrene	ug/L	1	0.68	0.76	68	76	54-125	11	20 N2
Benzo(b)fluoranthene	ug/L	1	0.79	0.83	79	83	49-125	5	20 N2
Benzo(e)pyrene	ug/L	1	0.71	0.78	71	78	53-125	9	20 N2
Benzo(g,h,i)perylene	ug/L	1	0.58	0.65	58	65	30-125	10	20 N2

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### QUALITY CONTROL DATA

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Parameter	Units	Spike Conc.	2506355		2506356		% Rec Limits	RPD	Max RPD	Qualifiers
			LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
Benzo(k)fluoranthene	ug/L	1	0.70	0.71	70	71	53-125	3	20	N2
Chrysene	ug/L	1	0.69	0.71	69	71	55-125	3	20	N2
Dibenz(a,h)anthracene	ug/L	1	0.53	0.61	53	61	30-125	15	20	N2
Dibenzofuran	ug/L	1	0.70	0.73	70	73	52-125	5	20	N2
Fluoranthene	ug/L	1	0.68	0.67	68	67	49-125	2	20	N2
Fluorene	ug/L	1	0.64	0.67	64	67	49-125	4	20	N2
Indeno(1,2,3-cd)pyrene	ug/L	1	0.66	0.71	66	71	42-125	7	20	N2
Naphthalene	ug/L	1	0.65	0.69	65	69	49-125	6	20	N2
Phenanthrene	ug/L	1	0.67	0.71	67	71	51-125	5	20	N2
Pyrene	ug/L	1	0.65	0.68	65	68	45-125	5	20	N2
2-Fluorobiphenyl (S)	%				69	75	48-125			N2
p-Terphenyl-d14 (S)	%				68	71	51-125			N2

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## QUALIFIERS

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

### BATCH QUALIFIERS

Batch: 458821

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold NELAC/TNI accreditation for this parameter.

S5 Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2118-0002 Former MGP

Pace Project No.: 10377374

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10377374001	MW-8	EPA Mod. 3510C	457878	EPA 8270D by HVI	458821
10377374002	MW-22	EPA Mod. 3510C	457878	EPA 8270D by HVI	458821
10377374003	MW-14	EPA Mod. 3510C	457878	EPA 8270D by HVI	458821
10377374004	MW-14D	EPA Mod. 3510C	457878	EPA 8270D by HVI	458821
10377374005	MW-9	EPA Mod. 3510C	457878	EPA 8270D by HVI	458821
10377374006	MW-25-20170124	EPA Mod. 3510C	457878	EPA 8270D by HVI	458821
10377374007	MW-26-20170125	EPA Mod. 3510C	457878	EPA 8270D by HVI	458821
10377374008	MW-26D-20170125	EPA Mod. 3510C	457878	EPA 8270D by HVI	458821
10377374009	MW-13-20170125	EPA Mod. 3510C	457878	EPA 8270D by HVI	458821
10377374010	MW-4-20170125	EPA Mod. 3510C	457878	EPA 8270D by HVI	458821
10377374011	MW-2-20170125	EPA Mod. 3510C	457878	EPA 8270D by HVI	458821
10377374012	MW-1-20170125	EPA Mod. 3510C	457878	EPA 8270D by HVI	458821
10377374013	MW-10-20170125	EPA Mod. 3510C	457878	EPA 8270D by HVI	458821
10377374001	MW-8	EPA 8260B	458264		
10377374002	MW-22	EPA 8260B	458264		
10377374003	MW-14	EPA 8260B	458264		
10377374004	MW-14D	EPA 8260B	458264		
10377374005	MW-9	EPA 8260B	458264		
10377374006	MW-25-20170124	EPA 8260B	457926		
10377374007	MW-26-20170125	EPA 8260B	458264		
10377374008	MW-26D-20170125	EPA 8260B	458264		
10377374009	MW-13-20170125	EPA 8260B	458264		
10377374010	MW-4-20170125	EPA 8260B	458264		
10377374011	MW-2-20170125	EPA 8260B	458264		
10377374012	MW-1-20170125	EPA 8260B	458264		
10377374013	MW-10-20170125	EPA 8260B	458264		
10377374014	Trip Blank	EPA 8260B	458264		

### REPORT OF LABORATORY ANALYSIS

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**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10377374

*Lee*

Section A  
Required Client Information:  
Company: Summit Enviro solutions  
Address: 1217 Bandana Blvd N  
St. Paul, MN 55108  
Email To: dgregg@summitc.com  
Phone: (651) 262-4234  
Requested Due Date/TAT: \_\_\_\_\_

Section B  
Required Project Information:  
Report To: Bill Gregg  
Copy To: \_\_\_\_\_  
Purchase Order No.: 2118-0002  
Project Name: Former MGP  
Project Number: 2118-0002

Section C  
Invoice Information:  
Attention: Same  
Company Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Pace Quote Reference: \_\_\_\_\_  
Pace Project Manager: \_\_\_\_\_  
Pace Profile #: 36995

REGULATORY AGENCY  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER  
Site Location STATE: WI

Page: 1 of 1  
2108081

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE ID (A-Z, 0-9 / -)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION °C	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB						
		Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other			DATE	TIME	DATE	TIME	H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub> Methanol Other			
1	MW-8	DW	MW-8	WT G	1/25/17	900	5	5	X			001
2	MW-9	WT	MW-9	WT G	1/25/17	1055	8	8				002
3	MW-10	P	MW-10	WT G	1/25/17	1220	6	6	X			003
4	MW-11	SL	MW-11	WT G	1/25/17	1400	7	7				004
5	MW-12	OL	MW-12	WT G	1/25/17	1400	7	7				005
6	MW-13	WP	MW-13	WT G	1/25/17	1540	8	8				
7	MW-14	AR	MW-14	WT G	1/25/17	1540	8	8				
8	MW-15	TS	MW-15	WT G	1/25/17	1540	8	8				
9	MW-16	OT	MW-16	WT G	1/25/17	1540	8	8				
10												
11												
12												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Ryan Anderson / Summit	1/25/17	1600	Kyle Renas / Summit	1/25/17	1600	
	Kyle Renas / Summit	1/25/17	1630	Kristina Polson	1/25/17	1630	Y
	Kristina Polson	1/26/17	1500		1/26/17	1500	Y
		1/26/17	1745		1/26/17	1500	Y

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.0	Y	N	Y
5.4	Y	N	Y

DATE Signed (MM/DD/YYYY): 1/25/17  
 SIGNATURE of SAMPLER: Ryan Anderson  
 SIGNATURE of SAMPLER: Kyle Renas  
 ORIGINAL



**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

60377374

**Section A**  
Required Client Information:  
Company: Summit Environmental  
Address: 1217 Boulevard Blvd N  
St. Paul, MN 55108  
Email To: bgregg@summitenv.com  
Phone: 715-507-0081  
Requested Due Date/TAT: \_\_\_\_\_

**Section B**  
Required Project Information:  
Report To: Bill Gregg  
Copy To: \_\_\_\_\_  
Purchase Order No.: \_\_\_\_\_  
Project Name: Turner MGP  
Project Number: 2118-0000

**Section C**  
Invoice Information:  
Attention: Summit  
Company Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Pace Quote Reference: Kevon King  
Pace Project Manager: \_\_\_\_\_  
Pace Profile #: 30995

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_

Site Location: \_\_\_\_\_  
STATE: \_\_\_\_\_

ITEM #	Section D Required Client Information	Matrix Codes MATRIX_CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	Preservatives	Analysis Test ↑	Requested Analysis Filtered (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB			DATE	TIME					
1	MW-25-20170124	DW					1/24/17	1635	5			006	
2	MW-26-20170125	WT					1/25/17	0735	1			007	
3	MW-260-20170125	WW					0735		1			008	
4	MW-13-20170125	P					0910		1			009	
5	MW-4-20170125	SL					0945		1			010	
6	MW-2-20170125	OL					1145		1			011	
7	MW-1-20170125	WP					800		1			012	
8	MW-10-20170125	AR					1500		1			013	
9	Tap Back	TS							1			014	
10		OT											
11													
12													

**ADDITIONAL COMMENTS**  
 Kyle Remus/Summit  
 Kyle Remus/Summit  
 Kyle Remus/Summit  
 Kyle Remus/Summit

**RELINQUISHED BY / AFFILIATION**  
 Kyle Remus/Summit  
 Kyle Remus/Summit  
 Kyle Remus/Summit  
 Kyle Remus/Summit

**DATE**  
 1/25/17  
 1/26/17  
 1/26/17  
 1/26/17

**TIME**  
 1430  
 1500  
 1745  
 1500

**ACCEPTED BY / AFFILIATION**  
 Kyle Remus  
 Kyle Remus  
 Kyle Remus  
 Kyle Remus


**DATE**  
 1/25/17  
 1/26/17  
 1/26/17  
 1/26/17

**TIME**  
 1430  
 1500  
 1745  
 1500

**SAMPLE CONDITIONS**  
 Received on Ice (Y/N) 4 N Y N Y  
 Custody Sealed Cooler (Y/N) Y N Y N Y  
 Temp in °C 2.0 5.4 5.4 5.4

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Kyle Remus  
 SIGNATURE of SAMPLER: [Signature]

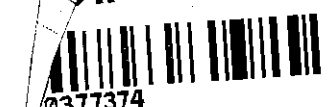
**DATE Signed (MM/DD/YYYY):** 1/25/17

	Document Name: <b>Sample Condition Upon Receipt Form</b>	Document Revised: 19Dec2016 Page 1 of 2
	Document No.: <b>F-MN-L-213-rev.20</b>	Issuing Authority: Pace Minnesota Quality Office

**Sample Condition Upon Receipt**

Client Name: Summit environmental Project #: \_\_\_\_\_

#: **10377374**



Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Speedee  Other: \_\_\_\_\_  
 Tracking Number: \_\_\_\_\_

Custody Seal on Cooler/Box Present?  Yes  No      Seals Intact?  Yes  No      Optional: Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_      Temp Blank?  Yes  No

Thermometer Used:  151401163  151401164      Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun

Cooler Temp Read (°C): 5.5      Cooler Temp Corrected (°C): 5.4      Biological Tissue Frozen?  Yes  No  N/A  
 Temp should be above freezing to 6°C      Correction Factor: -0.1      Date and Initials of Person Examining Contents: 1-26-17 SDP

USDA Regulated Soil (  N/A, water sample)  
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No      Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No  
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>		
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) Exceptions: <u>VOA</u> , Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed: _____ Lot # of added preservative: _____
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Pace Trip Blank Lot # (if purchased): <u>120516-3BZA</u>		

**CLIENT NOTIFICATION/RESOLUTION**

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_      Field Data Required?  Yes  No  
 Comments/Resolution: \_\_\_\_\_

Project Manager Review: Amanda J Albrecht Date: 1/27/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers).

May 12, 2017

Bill Gregg  
Summit Envirosolutions  
1217 Bandana Blvd  
Saint Paul, MN 55108

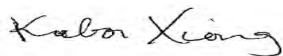
RE: Project: 2118-0002 Superior MGP  
Pace Project No.: 10386678

Dear Bill Gregg:

Enclosed are the analytical results for sample(s) received by the laboratory on April 27, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kabor Xiong  
kabor.xiong@pacelabs.com  
(612)607-6347  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

---

### Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: UST-078

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas Certification #: 88-0680

California Certification #: MN00064

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia WW Certification #: 382

Wisconsin Certification #: 999407970

Wyoming via EPA Region 8 Certification #: 8TMS-L

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10386678001	MW-1	Water	04/24/17 15:30	04/27/17 18:50
10386678002	MW-2	Water	04/24/17 16:40	04/27/17 18:50
10386678003	MW-9	Water	04/25/17 14:30	04/27/17 18:50
10386678004	MW-10	Water	04/25/17 13:40	04/27/17 18:50
10386678005	MW-12	Water	04/25/17 10:40	04/27/17 18:50
10386678006	MW-14	Water	04/25/17 15:30	04/27/17 18:50
10386678007	MW-15	Water	04/25/17 11:30	04/27/17 18:50
10386678008	MW-16	Water	04/25/17 10:00	04/27/17 18:50
10386678009	MW-17	Water	04/25/17 09:00	04/27/17 18:50
10386678010	MW-20	Water	04/25/17 12:30	04/27/17 18:50
10386678011	MW-21	Water	04/25/17 08:00	04/27/17 18:50
10386678012	MW-21D	Water	04/25/17 08:00	04/27/17 18:50
10386678013	MW-22	Water	04/25/17 16:55	04/27/17 18:50
10386678014	TRIP BLANK	Water	04/24/17 00:00	04/27/17 18:50

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10386678001	MW-1	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386678002	MW-2	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386678003	MW-9	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386678004	MW-10	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386678005	MW-12	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386678006	MW-14	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386678007	MW-15	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386678008	MW-16	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386678009	MW-17	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386678010	MW-20	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386678011	MW-21	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386678012	MW-21D	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386678013	MW-22	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386678014	TRIP BLANK	EPA 8260B	PRD	70	PASI-M

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-1**      **Lab ID: 10386678001**      Collected: 04/24/17 15:30      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI      Preparation Method: EPA Mod. 3510C									
Acenaphthene	<0.040	ug/L	0.040	0.0095	1	05/01/17 14:11	05/09/17 16:37	83-32-9	N2
Acenaphthylene	<0.040	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 16:37	208-96-8	N2
Anthracene	<0.040	ug/L	0.040	0.0082	1	05/01/17 14:11	05/09/17 16:37	120-12-7	N2
Benzo(a)anthracene	<0.040	ug/L	0.040	0.0098	1	05/01/17 14:11	05/09/17 16:37	56-55-3	N2
Benzo(a)pyrene	<0.040	ug/L	0.040	0.0025	1	05/01/17 14:11	05/09/17 16:37	50-32-8	N2
Benzo(b)fluoranthene	<0.040	ug/L	0.040	0.0017	1	05/01/17 14:11	05/09/17 16:37	205-99-2	N2
Benzo(e)pyrene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 16:37	192-97-2	N2
Benzo(g,h,i)perylene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 16:37	191-24-2	N2
Benzo(k)fluoranthene	<0.040	ug/L	0.040	0.0099	1	05/01/17 14:11	05/09/17 16:37	207-08-9	N2
2-Chloronaphthalene	<0.040	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 16:37	91-58-7	N2
Chrysene	<0.040	ug/L	0.040	0.0024	1	05/01/17 14:11	05/09/17 16:37	218-01-9	N2
Dibenz(a,h)anthracene	<0.040	ug/L	0.040	0.0079	1	05/01/17 14:11	05/09/17 16:37	53-70-3	N2
Dibenzofuran	<0.040	ug/L	0.040	0.0095	1	05/01/17 14:11	05/09/17 16:37	132-64-9	N2
Fluoranthene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 16:37	206-44-0	N2
Fluorene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 16:37	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.040	ug/L	0.040	0.0014	1	05/01/17 14:11	05/09/17 16:37	193-39-5	N2
1-Methylnaphthalene	<0.040	ug/L	0.040	0.0069	1	05/01/17 14:11	05/09/17 16:37	90-12-0	N2
2-Methylnaphthalene	0.047	ug/L	0.040	0.011	1	05/01/17 14:11	05/09/17 16:37	91-57-6	1M,B, N2
Naphthalene	<0.16	ug/L	0.16	0.012	1	05/01/17 14:11	05/09/17 16:37	91-20-3	N2
Phenanthrene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 16:37	85-01-8	N2
Pyrene	<0.040	ug/L	0.040	0.0029	1	05/01/17 14:11	05/09/17 16:37	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	80	%	30-136		1	05/01/17 14:11	05/09/17 16:37	321-60-8	N2
p-Terphenyl-d14 (S)	100	%	30-125		1	05/01/17 14:11	05/09/17 16:37	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		05/03/17 19:42	67-64-1	L2
Allyl chloride	<4.0	ug/L	4.0	0.25	1		05/03/17 19:42	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		05/03/17 19:42	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		05/03/17 19:42	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		05/03/17 19:42	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		05/03/17 19:42	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		05/03/17 19:42	75-25-2	
Bromomethane	<10.0	ug/L	10.0	0.44	1		05/03/17 19:42	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		05/03/17 19:42	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		05/03/17 19:42	104-51-8	
sec-Butylbenzene	<4.0	ug/L	4.0	0.19	1		05/03/17 19:42	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		05/03/17 19:42	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		05/03/17 19:42	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		05/03/17 19:42	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.34	1		05/03/17 19:42	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		05/03/17 19:42	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		05/03/17 19:42	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		05/03/17 19:42	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		05/03/17 19:42	106-43-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-1**      **Lab ID: 10386678001**      Collected: 04/24/17 15:30      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
1,2-Dibromo-3-chloropropane	<4.0	ug/L	4.0	0.60	1		05/03/17 19:42	96-12-8	
Dibromochloromethane	<1.0	ug/L	1.0	0.16	1		05/03/17 19:42	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		05/03/17 19:42	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		05/03/17 19:42	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		05/03/17 19:42	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		05/03/17 19:42	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/03/17 19:42	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		05/03/17 19:42	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		05/03/17 19:42	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		05/03/17 19:42	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		05/03/17 19:42	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		05/03/17 19:42	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		05/03/17 19:42	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		05/03/17 19:42	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		05/03/17 19:42	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		05/03/17 19:42	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		05/03/17 19:42	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		05/03/17 19:42	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		05/03/17 19:42	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		05/03/17 19:42	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		05/03/17 19:42	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		05/03/17 19:42	100-41-4	
Hexachloro-1,3-butadiene	<4.0	ug/L	4.0	0.18	1		05/03/17 19:42	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		05/03/17 19:42	98-82-8	
p-Isopropyltoluene	<4.0	ug/L	4.0	0.19	1		05/03/17 19:42	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		05/03/17 19:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		05/03/17 19:42	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		05/03/17 19:42	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		05/03/17 19:42	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		05/03/17 19:42	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		05/03/17 19:42	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		05/03/17 19:42	630-20-6	
1,1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		05/03/17 19:42	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		05/03/17 19:42	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		05/03/17 19:42	109-99-9	
Toluene	<1.0	ug/L	1.0	0.14	1		05/03/17 19:42	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/03/17 19:42	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/03/17 19:42	120-82-1	
1,1,1-Trichloroethane	<4.0	ug/L	4.0	0.17	1		05/03/17 19:42	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		05/03/17 19:42	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		05/03/17 19:42	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		05/03/17 19:42	75-69-4	
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		05/03/17 19:42	96-18-4	
1,1,2-Trichlorotrifluoroethane	<10.0	ug/L	10.0	0.32	1		05/03/17 19:42	76-13-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		05/03/17 19:42	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		05/03/17 19:42	108-67-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

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**Sample: MW-1**      **Lab ID: 10386678001**      Collected: 04/24/17 15:30      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		05/03/17 19:42	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	0.32	1		05/03/17 19:42	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	101	%	75-137		1		05/03/17 19:42	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1		05/03/17 19:42	2037-26-5	
4-Bromofluorobenzene (S)	106	%	75-125		1		05/03/17 19:42	460-00-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-2**      **Lab ID: 10386678002**      Collected: 04/24/17 16:40      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI    Preparation Method: EPA Mod. 3510C									
Acenaphthene	ND	ug/L	0.040	0.0095	1	05/01/17 14:11	05/09/17 16:58	83-32-9	N2
Acenaphthylene	ND	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 16:58	208-96-8	N2
Anthracene	ND	ug/L	0.040	0.0082	1	05/01/17 14:11	05/09/17 16:58	120-12-7	N2
Benzo(a)anthracene	ND	ug/L	0.040	0.0098	1	05/01/17 14:11	05/09/17 16:58	56-55-3	N2
Benzo(a)pyrene	ND	ug/L	0.040	0.0025	1	05/01/17 14:11	05/09/17 16:58	50-32-8	N2
Benzo(b)fluoranthene	ND	ug/L	0.040	0.0017	1	05/01/17 14:11	05/09/17 16:58	205-99-2	N2
Benzo(e)pyrene	ND	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 16:58	192-97-2	N2
Benzo(g,h,i)perylene	ND	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 16:58	191-24-2	N2
Benzo(k)fluoranthene	ND	ug/L	0.040	0.0099	1	05/01/17 14:11	05/09/17 16:58	207-08-9	N2
2-Chloronaphthalene	ND	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 16:58	91-58-7	N2
Chrysene	ND	ug/L	0.040	0.0024	1	05/01/17 14:11	05/09/17 16:58	218-01-9	N2
Dibenz(a,h)anthracene	ND	ug/L	0.040	0.0079	1	05/01/17 14:11	05/09/17 16:58	53-70-3	N2
Dibenzofuran	ND	ug/L	0.040	0.0095	1	05/01/17 14:11	05/09/17 16:58	132-64-9	N2
Fluoranthene	ND	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 16:58	206-44-0	N2
Fluorene	ND	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 16:58	86-73-7	N2
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.040	0.0014	1	05/01/17 14:11	05/09/17 16:58	193-39-5	N2
1-Methylnaphthalene	ND	ug/L	0.040	0.0069	1	05/01/17 14:11	05/09/17 16:58	90-12-0	N2
2-Methylnaphthalene	<b>0.051</b>	ug/L	0.040	0.011	1	05/01/17 14:11	05/09/17 16:58	91-57-6	1M,B, N2
Naphthalene	ND	ug/L	0.16	0.012	1	05/01/17 14:11	05/09/17 16:58	91-20-3	N2
Phenanthrene	ND	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 16:58	85-01-8	N2
Pyrene	ND	ug/L	0.040	0.0029	1	05/01/17 14:11	05/09/17 16:58	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	82	%	30-136		1	05/01/17 14:11	05/09/17 16:58	321-60-8	N2
p-Terphenyl-d14 (S)	104	%	30-125		1	05/01/17 14:11	05/09/17 16:58	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	ND	ug/L	20.0	2.0	1		05/03/17 19:58	67-64-1	L2
Allyl chloride	ND	ug/L	4.0	0.25	1		05/03/17 19:58	107-05-1	
Benzene	ND	ug/L	1.0	0.16	1		05/03/17 19:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.34	1		05/03/17 19:58	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.19	1		05/03/17 19:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.24	1		05/03/17 19:58	75-27-4	
Bromoform	ND	ug/L	4.0	0.27	1		05/03/17 19:58	75-25-2	
Bromomethane	ND	ug/L	10.0	0.44	1		05/03/17 19:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1.1	1		05/03/17 19:58	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.16	1		05/03/17 19:58	104-51-8	
sec-Butylbenzene	ND	ug/L	4.0	0.19	1		05/03/17 19:58	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.22	1		05/03/17 19:58	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.20	1		05/03/17 19:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.11	1		05/03/17 19:58	108-90-7	
Chloroethane	ND	ug/L	1.0	0.34	1		05/03/17 19:58	75-00-3	
Chloroform	ND	ug/L	1.0	0.21	1		05/03/17 19:58	67-66-3	
Chloromethane	ND	ug/L	4.0	0.25	1		05/03/17 19:58	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.30	1		05/03/17 19:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.26	1		05/03/17 19:58	106-43-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-2**      **Lab ID: 10386678002**      Collected: 04/24/17 16:40      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	0.60	1		05/03/17 19:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.16	1		05/03/17 19:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		05/03/17 19:58	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.19	1		05/03/17 19:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.17	1		05/03/17 19:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.12	1		05/03/17 19:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.21	1		05/03/17 19:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		05/03/17 19:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.17	1		05/03/17 19:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.17	1		05/03/17 19:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.28	1		05/03/17 19:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.12	1		05/03/17 19:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.16	1		05/03/17 19:58	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.21	1		05/03/17 19:58	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.22	1		05/03/17 19:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.096	1		05/03/17 19:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.13	1		05/03/17 19:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.23	1		05/03/17 19:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/03/17 19:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/03/17 19:58	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	0.19	1		05/03/17 19:58	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.15	1		05/03/17 19:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	0.18	1		05/03/17 19:58	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.25	1		05/03/17 19:58	98-82-8	
p-Isopropyltoluene	ND	ug/L	4.0	0.19	1		05/03/17 19:58	99-87-6	
Methylene Chloride	ND	ug/L	4.0	0.29	1		05/03/17 19:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.43	1		05/03/17 19:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.15	1		05/03/17 19:58	1634-04-4	
Naphthalene	ND	ug/L	4.0	0.20	1		05/03/17 19:58	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.23	1		05/03/17 19:58	103-65-1	
Styrene	ND	ug/L	1.0	0.29	1		05/03/17 19:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.17	1		05/03/17 19:58	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		05/03/17 19:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.25	1		05/03/17 19:58	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1.5	1		05/03/17 19:58	109-99-9	
Toluene	ND	ug/L	1.0	0.14	1		05/03/17 19:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/03/17 19:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/03/17 19:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	4.0	0.17	1		05/03/17 19:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		05/03/17 19:58	79-00-5	
Trichloroethene	ND	ug/L	0.40	0.052	1		05/03/17 19:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.33	1		05/03/17 19:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.28	1		05/03/17 19:58	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	0.32	1		05/03/17 19:58	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.18	1		05/03/17 19:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.27	1		05/03/17 19:58	108-67-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

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**Sample: MW-2**      **Lab ID: 10386678002**    Collected: 04/24/17 16:40    Received: 04/27/17 18:50    Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Vinyl chloride	ND	ug/L	0.20	0.069	1		05/03/17 19:58	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.32	1		05/03/17 19:58	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	101	%	75-137		1		05/03/17 19:58	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1		05/03/17 19:58	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1		05/03/17 19:58	460-00-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-9**      **Lab ID: 10386678003**      Collected: 04/25/17 14:30      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI      Preparation Method: EPA Mod. 3510C									
Acenaphthene	44.3	ug/L	0.40	0.095	10	05/01/17 14:11	05/11/17 23:16	83-32-9	N2
Acenaphthylene	1.0	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 17:19	208-96-8	N2
Anthracene	5.1	ug/L	0.40	0.082	10	05/01/17 14:11	05/11/17 23:16	120-12-7	N2
Benzo(a)anthracene	0.83	ug/L	0.040	0.0098	1	05/01/17 14:11	05/09/17 17:19	56-55-3	N2
Benzo(a)pyrene	0.56	ug/L	0.040	0.0025	1	05/01/17 14:11	05/09/17 17:19	50-32-8	N2
Benzo(b)fluoranthene	0.50	ug/L	0.040	0.0017	1	05/01/17 14:11	05/09/17 17:19	205-99-2	N2
Benzo(e)pyrene	0.32	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 17:19	192-97-2	N2
Benzo(g,h,i)perylene	0.21	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 17:19	191-24-2	N2
Benzo(k)fluoranthene	0.12	ug/L	0.040	0.0099	1	05/01/17 14:11	05/09/17 17:19	207-08-9	N2
2-Chloronaphthalene	0.10	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 17:19	91-58-7	N2
Chrysene	0.68	ug/L	0.040	0.0024	1	05/01/17 14:11	05/09/17 17:19	218-01-9	N2
Dibenz(a,h)anthracene	0.049	ug/L	0.040	0.0079	1	05/01/17 14:11	05/09/17 17:19	53-70-3	N2
Dibenzofuran	0.50	ug/L	0.040	0.0095	1	05/01/17 14:11	05/09/17 17:19	132-64-9	N2
Fluoranthene	4.8	ug/L	0.40	0.094	10	05/01/17 14:11	05/11/17 23:16	206-44-0	N2
Fluorene	12.6	ug/L	0.40	0.094	10	05/01/17 14:11	05/11/17 23:16	86-73-7	N2
Indeno(1,2,3-cd)pyrene	0.16	ug/L	0.040	0.0014	1	05/01/17 14:11	05/09/17 17:19	193-39-5	N2
1-Methylnaphthalene	36.4	ug/L	0.40	0.069	10	05/01/17 14:11	05/11/17 23:16	90-12-0	N2
2-Methylnaphthalene	34.8	ug/L	0.40	0.11	10	05/01/17 14:11	05/11/17 23:16	91-57-6	N2
Naphthalene	127	ug/L	16.0	1.2	100	05/01/17 14:11	05/10/17 13:53	91-20-3	N2
Phenanthrene	29.7	ug/L	0.40	0.094	10	05/01/17 14:11	05/11/17 23:16	85-01-8	N2
Pyrene	4.5	ug/L	0.040	0.0029	1	05/01/17 14:11	05/09/17 17:19	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	69	%	30-136		1	05/01/17 14:11	05/09/17 17:19	321-60-8	N2
p-Terphenyl-d14 (S)	64	%	30-125		1	05/01/17 14:11	05/09/17 17:19	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	ND	ug/L	100	10.0	5		05/05/17 02:53	67-64-1	L2
Allyl chloride	ND	ug/L	20.0	1.2	5		05/05/17 02:53	107-05-1	
Benzene	948	ug/L	5.0	0.78	5		05/05/17 02:53	71-43-2	
Bromobenzene	ND	ug/L	5.0	1.7	5		05/05/17 02:53	108-86-1	
Bromochloromethane	ND	ug/L	5.0	0.93	5		05/05/17 02:53	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1.2	5		05/05/17 02:53	75-27-4	
Bromoform	ND	ug/L	20.0	1.4	5		05/05/17 02:53	75-25-2	
Bromomethane	ND	ug/L	50.0	2.2	5		05/05/17 02:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	5.5	5		05/05/17 02:53	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	0.80	5		05/05/17 02:53	104-51-8	
sec-Butylbenzene	ND	ug/L	20.0	0.94	5		05/05/17 02:53	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1.1	5		05/05/17 02:53	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	0.98	5		05/05/17 02:53	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.57	5		05/05/17 02:53	108-90-7	
Chloroethane	ND	ug/L	5.0	1.7	5		05/05/17 02:53	75-00-3	
Chloroform	ND	ug/L	5.0	1.0	5		05/05/17 02:53	67-66-3	
Chloromethane	ND	ug/L	20.0	1.2	5		05/05/17 02:53	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1.5	5		05/05/17 02:53	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1.3	5		05/05/17 02:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	3.0	5		05/05/17 02:53	96-12-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-9**      **Lab ID: 10386678003**      Collected: 04/25/17 14:30      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	ND	ug/L	5.0	0.78	5		05/05/17 02:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1.0	5		05/05/17 02:53	106-93-4	
Dibromomethane	ND	ug/L	20.0	0.97	5		05/05/17 02:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.86	5		05/05/17 02:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.58	5		05/05/17 02:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.1	5		05/05/17 02:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1.1	5		05/05/17 02:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.86	5		05/05/17 02:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.85	5		05/05/17 02:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1.4	5		05/05/17 02:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.60	5		05/05/17 02:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.81	5		05/05/17 02:53	156-60-5	
Dichlorofluoromethane	ND	ug/L	5.0	1.1	5		05/05/17 02:53	75-43-4	
1,2-Dichloropropane	ND	ug/L	20.0	1.1	5		05/05/17 02:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	0.48	5		05/05/17 02:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	20.0	0.64	5		05/05/17 02:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1.1	5		05/05/17 02:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	20.0	0.75	5		05/05/17 02:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	0.74	5		05/05/17 02:53	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	20.0	0.97	5		05/05/17 02:53	60-29-7	
Ethylbenzene	<b>145</b>	ug/L	5.0	0.76	5		05/05/17 02:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	20.0	0.89	5		05/05/17 02:53	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1.3	5		05/05/17 02:53	98-82-8	
p-Isopropyltoluene	ND	ug/L	20.0	0.97	5		05/05/17 02:53	99-87-6	
Methylene Chloride	ND	ug/L	20.0	1.5	5		05/05/17 02:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	2.2	5		05/05/17 02:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	0.74	5		05/05/17 02:53	1634-04-4	
Naphthalene	<b>136</b>	ug/L	20.0	1.0	5		05/05/17 02:53	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1.2	5		05/05/17 02:53	103-65-1	
Styrene	<b>6.2</b>	ug/L	5.0	1.4	5		05/05/17 02:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.83	5		05/05/17 02:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1.1	5		05/05/17 02:53	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1.3	5		05/05/17 02:53	127-18-4	
Tetrahydrofuran	ND	ug/L	50.0	7.5	5		05/05/17 02:53	109-99-9	
Toluene	<b>278</b>	ug/L	5.0	0.72	5		05/05/17 02:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1.1	5		05/05/17 02:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1.1	5		05/05/17 02:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	20.0	0.85	5		05/05/17 02:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.76	5		05/05/17 02:53	79-00-5	
Trichloroethene	ND	ug/L	2.0	0.26	5		05/05/17 02:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1.6	5		05/05/17 02:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	20.0	1.4	5		05/05/17 02:53	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	50.0	1.6	5		05/05/17 02:53	76-13-1	
1,2,4-Trimethylbenzene	<b>34.8</b>	ug/L	5.0	0.89	5		05/05/17 02:53	95-63-6	
1,3,5-Trimethylbenzene	<b>10.4</b>	ug/L	5.0	1.3	5		05/05/17 02:53	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.34	5		05/05/17 02:53	75-01-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-9**      **Lab ID: 10386678003**      Collected: 04/25/17 14:30      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<b>333</b>	ug/L	15.0	1.6	5		05/05/17 02:53	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-137		5		05/05/17 02:53	17060-07-0	
Toluene-d8 (S)	101	%	75-125		5		05/05/17 02:53	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		5		05/05/17 02:53	460-00-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-10**      **Lab ID: 10386678004**      Collected: 04/25/17 13:40      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI    Preparation Method: EPA Mod. 3510C									
Acenaphthene	10.9	ug/L	0.40	0.095	10	05/01/17 14:11	05/10/17 13:11	83-32-9	N2
Acenaphthylene	0.36	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 17:40	208-96-8	N2
Anthracene	0.62	ug/L	0.040	0.0082	1	05/01/17 14:11	05/09/17 17:40	120-12-7	N2
Benzo(a)anthracene	0.16	ug/L	0.040	0.0098	1	05/01/17 14:11	05/09/17 17:40	56-55-3	N2
Benzo(a)pyrene	0.27	ug/L	0.040	0.0025	1	05/01/17 14:11	05/09/17 17:40	50-32-8	N2
Benzo(b)fluoranthene	0.21	ug/L	0.040	0.0017	1	05/01/17 14:11	05/09/17 17:40	205-99-2	N2
Benzo(e)pyrene	0.18	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 17:40	192-97-2	N2
Benzo(g,h,i)perylene	0.18	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 17:40	191-24-2	N2
Benzo(k)fluoranthene	0.072	ug/L	0.040	0.0099	1	05/01/17 14:11	05/09/17 17:40	207-08-9	N2
2-Chloronaphthalene	ND	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 17:40	91-58-7	N2
Chrysene	0.17	ug/L	0.040	0.0024	1	05/01/17 14:11	05/09/17 17:40	218-01-9	N2
Dibenz(a,h)anthracene	ND	ug/L	0.040	0.0079	1	05/01/17 14:11	05/09/17 17:40	53-70-3	N2
Dibenzofuran	0.098	ug/L	0.040	0.0095	1	05/01/17 14:11	05/09/17 17:40	132-64-9	N2
Fluoranthene	0.53	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 17:40	206-44-0	N2
Fluorene	2.1	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 17:40	86-73-7	N2
Indeno(1,2,3-cd)pyrene	0.12	ug/L	0.040	0.0014	1	05/01/17 14:11	05/09/17 17:40	193-39-5	N2
1-Methylnaphthalene	11.7	ug/L	0.40	0.069	10	05/01/17 14:11	05/10/17 13:11	90-12-0	N2
2-Methylnaphthalene	0.21	ug/L	0.040	0.011	1	05/01/17 14:11	05/09/17 17:40	91-57-6	N2
Naphthalene	5.6	ug/L	1.6	0.12	10	05/01/17 14:11	05/10/17 13:11	91-20-3	N2
Phenanthrene	1.7	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 17:40	85-01-8	N2
Pyrene	0.63	ug/L	0.040	0.0029	1	05/01/17 14:11	05/09/17 17:40	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	79	%	30-136		1	05/01/17 14:11	05/09/17 17:40	321-60-8	N2
p-Terphenyl-d14 (S)	80	%	30-125		1	05/01/17 14:11	05/09/17 17:40	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	ND	ug/L	500	50.2	25		05/03/17 22:39	67-64-1	L2
Allyl chloride	ND	ug/L	100	6.2	25		05/03/17 22:39	107-05-1	
Benzene	9800	ug/L	50.0	7.8	50		05/04/17 14:50	71-43-2	
Bromobenzene	ND	ug/L	25.0	8.4	25		05/03/17 22:39	108-86-1	
Bromochloromethane	ND	ug/L	25.0	4.6	25		05/03/17 22:39	74-97-5	
Bromodichloromethane	ND	ug/L	25.0	6.0	25		05/03/17 22:39	75-27-4	
Bromoform	ND	ug/L	100	6.8	25		05/03/17 22:39	75-25-2	
Bromomethane	ND	ug/L	250	11.1	25		05/03/17 22:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	125	27.5	25		05/03/17 22:39	78-93-3	
n-Butylbenzene	ND	ug/L	25.0	4.0	25		05/03/17 22:39	104-51-8	
sec-Butylbenzene	ND	ug/L	100	4.7	25		05/03/17 22:39	135-98-8	
tert-Butylbenzene	ND	ug/L	25.0	5.6	25		05/03/17 22:39	98-06-6	
Carbon tetrachloride	ND	ug/L	25.0	4.9	25		05/03/17 22:39	56-23-5	
Chlorobenzene	ND	ug/L	25.0	2.8	25		05/03/17 22:39	108-90-7	
Chloroethane	ND	ug/L	25.0	8.6	25		05/03/17 22:39	75-00-3	
Chloroform	ND	ug/L	25.0	5.2	25		05/03/17 22:39	67-66-3	
Chloromethane	ND	ug/L	100	6.2	25		05/03/17 22:39	74-87-3	
2-Chlorotoluene	ND	ug/L	25.0	7.4	25		05/03/17 22:39	95-49-8	
4-Chlorotoluene	ND	ug/L	25.0	6.4	25		05/03/17 22:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	100	15.0	25		05/03/17 22:39	96-12-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-10**      **Lab ID: 10386678004**      Collected: 04/25/17 13:40      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	ND	ug/L	25.0	3.9	25		05/03/17 22:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	25.0	5.0	25		05/03/17 22:39	106-93-4	
Dibromomethane	ND	ug/L	100	4.8	25		05/03/17 22:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	25.0	4.3	25		05/03/17 22:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	25.0	2.9	25		05/03/17 22:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	25.0	5.3	25		05/03/17 22:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	25.0	5.6	25		05/03/17 22:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	25.0	4.3	25		05/03/17 22:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	4.2	25		05/03/17 22:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	6.9	25		05/03/17 22:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	25.0	3.0	25		05/03/17 22:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	25.0	4.0	25		05/03/17 22:39	156-60-5	
Dichlorofluoromethane	ND	ug/L	25.0	5.4	25		05/03/17 22:39	75-43-4	
1,2-Dichloropropane	ND	ug/L	100	5.6	25		05/03/17 22:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	25.0	2.4	25		05/03/17 22:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	100	3.2	25		05/03/17 22:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	25.0	5.7	25		05/03/17 22:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	100	3.8	25		05/03/17 22:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	100	3.7	25		05/03/17 22:39	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	100	4.8	25		05/03/17 22:39	60-29-7	
Ethylbenzene	<b>25.9</b>	ug/L	25.0	3.8	25		05/03/17 22:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	100	4.4	25		05/03/17 22:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	25.0	6.3	25		05/03/17 22:39	98-82-8	
p-Isopropyltoluene	ND	ug/L	100	4.8	25		05/03/17 22:39	99-87-6	
Methylene Chloride	ND	ug/L	100	7.3	25		05/03/17 22:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	125	10.8	25		05/03/17 22:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	25.0	3.7	25		05/03/17 22:39	1634-04-4	
Naphthalene	ND	ug/L	100	5.1	25		05/03/17 22:39	91-20-3	
n-Propylbenzene	ND	ug/L	25.0	5.8	25		05/03/17 22:39	103-65-1	
Styrene	ND	ug/L	25.0	7.2	25		05/03/17 22:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	25.0	4.2	25		05/03/17 22:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	25.0	5.6	25		05/03/17 22:39	79-34-5	
Tetrachloroethene	ND	ug/L	25.0	6.3	25		05/03/17 22:39	127-18-4	
Tetrahydrofuran	ND	ug/L	250	37.5	25		05/03/17 22:39	109-99-9	
Toluene	ND	ug/L	25.0	3.6	25		05/03/17 22:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	25.0	5.3	25		05/03/17 22:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	25.0	5.3	25		05/03/17 22:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	100	4.2	25		05/03/17 22:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	3.8	25		05/03/17 22:39	79-00-5	
Trichloroethene	ND	ug/L	10.0	1.3	25		05/03/17 22:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	8.2	25		05/03/17 22:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	100	7.1	25		05/03/17 22:39	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	250	8.0	25		05/03/17 22:39	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	25.0	4.4	25		05/03/17 22:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	25.0	6.7	25		05/03/17 22:39	108-67-8	
Vinyl chloride	ND	ug/L	5.0	1.7	25		05/03/17 22:39	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

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**Sample: MW-10**      **Lab ID: 10386678004**      Collected: 04/25/17 13:40      Received: 04/27/17 18:50      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	ND	ug/L	75.0	7.9	25		05/03/17 22:39	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	100	%	75-137		25		05/03/17 22:39	17060-07-0	
Toluene-d8 (S)	103	%	75-125		25		05/03/17 22:39	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		25		05/03/17 22:39	460-00-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-12**      **Lab ID: 10386678005**      Collected: 04/25/17 10:40      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI      Preparation Method: EPA Mod. 3510C									
Acenaphthene	43.0	ug/L	4.0	0.95	100	05/01/17 14:11	05/10/17 14:14	83-32-9	N2
Acenaphthylene	0.44	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 18:01	208-96-8	N2
Anthracene	3.7	ug/L	0.040	0.0082	1	05/01/17 14:11	05/09/17 18:01	120-12-7	N2
Benzo(a)anthracene	0.061	ug/L	0.040	0.0098	1	05/01/17 14:11	05/09/17 18:01	56-55-3	N2
Benzo(a)pyrene	ND	ug/L	0.040	0.0025	1	05/01/17 14:11	05/09/17 18:01	50-32-8	N2
Benzo(b)fluoranthene	ND	ug/L	0.040	0.0017	1	05/01/17 14:11	05/09/17 18:01	205-99-2	N2
Benzo(e)pyrene	ND	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 18:01	192-97-2	N2
Benzo(g,h,i)perylene	ND	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 18:01	191-24-2	N2
Benzo(k)fluoranthene	ND	ug/L	0.040	0.0099	1	05/01/17 14:11	05/09/17 18:01	207-08-9	N2
2-Chloronaphthalene	0.11	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 18:01	91-58-7	N2
Chrysene	0.059	ug/L	0.040	0.0024	1	05/01/17 14:11	05/09/17 18:01	218-01-9	N2
Dibenz(a,h)anthracene	ND	ug/L	0.040	0.0079	1	05/01/17 14:11	05/09/17 18:01	53-70-3	N2
Dibenzofuran	0.80	ug/L	0.040	0.0095	1	05/01/17 14:11	05/09/17 18:01	132-64-9	N2
Fluoranthene	1.5	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 18:01	206-44-0	N2
Fluorene	9.1	ug/L	4.0	0.94	100	05/01/17 14:11	05/10/17 14:14	86-73-7	N2
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.040	0.0014	1	05/01/17 14:11	05/09/17 18:01	193-39-5	N2
1-Methylnaphthalene	24.3	ug/L	4.0	0.69	100	05/01/17 14:11	05/10/17 14:14	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	0.040	0.011	1	05/01/17 14:11	05/09/17 18:01	91-57-6	N2
Naphthalene	1.2	ug/L	0.16	0.012	1	05/01/17 14:11	05/09/17 18:01	91-20-3	N2
Phenanthrene	14.2	ug/L	4.0	0.94	100	05/01/17 14:11	05/10/17 14:14	85-01-8	N2
Pyrene	1.5	ug/L	0.040	0.0029	1	05/01/17 14:11	05/09/17 18:01	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	78	%	30-136		1	05/01/17 14:11	05/09/17 18:01	321-60-8	N2
p-Terphenyl-d14 (S)	87	%	30-125		1	05/01/17 14:11	05/09/17 18:01	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	ND	ug/L	20.0	2.0	1		05/03/17 21:02	67-64-1	L2
Allyl chloride	ND	ug/L	4.0	0.25	1		05/03/17 21:02	107-05-1	
Benzene	654	ug/L	5.0	0.78	5		05/04/17 14:34	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.34	1		05/03/17 21:02	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.19	1		05/03/17 21:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.24	1		05/03/17 21:02	75-27-4	
Bromoform	ND	ug/L	4.0	0.27	1		05/03/17 21:02	75-25-2	
Bromomethane	ND	ug/L	10.0	0.44	1		05/03/17 21:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1.1	1		05/03/17 21:02	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.16	1		05/03/17 21:02	104-51-8	
sec-Butylbenzene	ND	ug/L	4.0	0.19	1		05/03/17 21:02	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.22	1		05/03/17 21:02	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.20	1		05/03/17 21:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.11	1		05/03/17 21:02	108-90-7	
Chloroethane	ND	ug/L	1.0	0.34	1		05/03/17 21:02	75-00-3	
Chloroform	ND	ug/L	1.0	0.21	1		05/03/17 21:02	67-66-3	
Chloromethane	ND	ug/L	4.0	0.25	1		05/03/17 21:02	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.30	1		05/03/17 21:02	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.26	1		05/03/17 21:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	0.60	1		05/03/17 21:02	96-12-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-12**      **Lab ID: 10386678005**      Collected: 04/25/17 10:40      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	ND	ug/L	1.0	0.16	1		05/03/17 21:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		05/03/17 21:02	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.19	1		05/03/17 21:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.17	1		05/03/17 21:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.12	1		05/03/17 21:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.21	1		05/03/17 21:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		05/03/17 21:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.17	1		05/03/17 21:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.17	1		05/03/17 21:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.28	1		05/03/17 21:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.12	1		05/03/17 21:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.16	1		05/03/17 21:02	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.21	1		05/03/17 21:02	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.22	1		05/03/17 21:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.096	1		05/03/17 21:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.13	1		05/03/17 21:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.23	1		05/03/17 21:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/03/17 21:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/03/17 21:02	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	0.19	1		05/03/17 21:02	60-29-7	
Ethylbenzene	<b>1.4</b>	ug/L	1.0	0.15	1		05/03/17 21:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	0.18	1		05/03/17 21:02	87-68-3	
Isopropylbenzene (Cumene)	<b>3.2</b>	ug/L	1.0	0.25	1		05/03/17 21:02	98-82-8	
p-Isopropyltoluene	ND	ug/L	4.0	0.19	1		05/03/17 21:02	99-87-6	
Methylene Chloride	ND	ug/L	4.0	0.29	1		05/03/17 21:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.43	1		05/03/17 21:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.15	1		05/03/17 21:02	1634-04-4	
Naphthalene	ND	ug/L	4.0	0.20	1		05/03/17 21:02	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.23	1		05/03/17 21:02	103-65-1	
Styrene	ND	ug/L	1.0	0.29	1		05/03/17 21:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.17	1		05/03/17 21:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		05/03/17 21:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.25	1		05/03/17 21:02	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1.5	1		05/03/17 21:02	109-99-9	
Toluene	ND	ug/L	1.0	0.14	1		05/03/17 21:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/03/17 21:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/03/17 21:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	4.0	0.17	1		05/03/17 21:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		05/03/17 21:02	79-00-5	
Trichloroethene	ND	ug/L	0.40	0.052	1		05/03/17 21:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.33	1		05/03/17 21:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.28	1		05/03/17 21:02	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	0.32	1		05/03/17 21:02	76-13-1	
1,2,4-Trimethylbenzene	<b>9.5</b>	ug/L	1.0	0.18	1		05/03/17 21:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.27	1		05/03/17 21:02	108-67-8	
Vinyl chloride	ND	ug/L	0.20	0.069	1		05/03/17 21:02	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

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**Sample: MW-12**      **Lab ID: 10386678005**      Collected: 04/25/17 10:40      Received: 04/27/17 18:50      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<b>7.0</b>	ug/L	3.0	0.32	1		05/03/17 21:02	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	101	%	75-137		1		05/03/17 21:02	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1		05/03/17 21:02	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1		05/03/17 21:02	460-00-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-14**      **Lab ID: 10386678006**      Collected: 04/25/17 15:30      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>		Analytical Method: EPA 8270D by HVI      Preparation Method: EPA Mod. 3510C							
Acenaphthene	0.11	ug/L	0.040	0.0095	1	05/01/17 14:11	05/09/17 18:23	83-32-9	N2
Acenaphthylene	ND	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 18:23	208-96-8	N2
Anthracene	ND	ug/L	0.040	0.0082	1	05/01/17 14:11	05/09/17 18:23	120-12-7	N2
Benzo(a)anthracene	ND	ug/L	0.040	0.0098	1	05/01/17 14:11	05/09/17 18:23	56-55-3	N2
Benzo(a)pyrene	ND	ug/L	0.040	0.0025	1	05/01/17 14:11	05/09/17 18:23	50-32-8	N2
Benzo(b)fluoranthene	ND	ug/L	0.040	0.0017	1	05/01/17 14:11	05/09/17 18:23	205-99-2	N2
Benzo(e)pyrene	ND	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 18:23	192-97-2	N2
Benzo(g,h,i)perylene	ND	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 18:23	191-24-2	N2
Benzo(k)fluoranthene	ND	ug/L	0.040	0.0099	1	05/01/17 14:11	05/09/17 18:23	207-08-9	N2
2-Chloronaphthalene	ND	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 18:23	91-58-7	N2
Chrysene	ND	ug/L	0.040	0.0024	1	05/01/17 14:11	05/09/17 18:23	218-01-9	N2
Dibenz(a,h)anthracene	ND	ug/L	0.040	0.0079	1	05/01/17 14:11	05/09/17 18:23	53-70-3	N2
Dibenzofuran	ND	ug/L	0.040	0.0095	1	05/01/17 14:11	05/09/17 18:23	132-64-9	N2
Fluoranthene	ND	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 18:23	206-44-0	N2
Fluorene	ND	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 18:23	86-73-7	N2
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.040	0.0014	1	05/01/17 14:11	05/09/17 18:23	193-39-5	N2
1-Methylnaphthalene	0.051	ug/L	0.040	0.0069	1	05/01/17 14:11	05/09/17 18:23	90-12-0	N2
2-Methylnaphthalene	0.065	ug/L	0.040	0.011	1	05/01/17 14:11	05/09/17 18:23	91-57-6	1M,B, N2
Naphthalene	ND	ug/L	0.16	0.012	1	05/01/17 14:11	05/09/17 18:23	91-20-3	N2
Phenanthrene	0.10	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 18:23	85-01-8	N2
Pyrene	ND	ug/L	0.040	0.0029	1	05/01/17 14:11	05/09/17 18:23	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	81	%	30-136		1	05/01/17 14:11	05/09/17 18:23	321-60-8	N2
p-Terphenyl-d14 (S)	100	%	30-125		1	05/01/17 14:11	05/09/17 18:23	1718-51-0	N2
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Acetone	ND	ug/L	20.0	2.0	1		05/03/17 21:19	67-64-1	L2
Allyl chloride	ND	ug/L	4.0	0.25	1		05/03/17 21:19	107-05-1	
Benzene	ND	ug/L	1.0	0.16	1		05/03/17 21:19	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.34	1		05/03/17 21:19	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.19	1		05/03/17 21:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.24	1		05/03/17 21:19	75-27-4	
Bromoform	ND	ug/L	4.0	0.27	1		05/03/17 21:19	75-25-2	
Bromomethane	ND	ug/L	10.0	0.44	1		05/03/17 21:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1.1	1		05/03/17 21:19	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.16	1		05/03/17 21:19	104-51-8	
sec-Butylbenzene	ND	ug/L	4.0	0.19	1		05/03/17 21:19	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.22	1		05/03/17 21:19	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.20	1		05/03/17 21:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.11	1		05/03/17 21:19	108-90-7	
Chloroethane	ND	ug/L	1.0	0.34	1		05/03/17 21:19	75-00-3	
Chloroform	ND	ug/L	1.0	0.21	1		05/03/17 21:19	67-66-3	
Chloromethane	ND	ug/L	4.0	0.25	1		05/03/17 21:19	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.30	1		05/03/17 21:19	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.26	1		05/03/17 21:19	106-43-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-14**      **Lab ID: 10386678006**      Collected: 04/25/17 15:30      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	0.60	1		05/03/17 21:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.16	1		05/03/17 21:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		05/03/17 21:19	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.19	1		05/03/17 21:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.17	1		05/03/17 21:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.12	1		05/03/17 21:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.21	1		05/03/17 21:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		05/03/17 21:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.17	1		05/03/17 21:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.17	1		05/03/17 21:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.28	1		05/03/17 21:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.12	1		05/03/17 21:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.16	1		05/03/17 21:19	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.21	1		05/03/17 21:19	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.22	1		05/03/17 21:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.096	1		05/03/17 21:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.13	1		05/03/17 21:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.23	1		05/03/17 21:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/03/17 21:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/03/17 21:19	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	0.19	1		05/03/17 21:19	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.15	1		05/03/17 21:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	0.18	1		05/03/17 21:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.25	1		05/03/17 21:19	98-82-8	
p-Isopropyltoluene	ND	ug/L	4.0	0.19	1		05/03/17 21:19	99-87-6	
Methylene Chloride	ND	ug/L	4.0	0.29	1		05/03/17 21:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.43	1		05/03/17 21:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.15	1		05/03/17 21:19	1634-04-4	
Naphthalene	ND	ug/L	4.0	0.20	1		05/03/17 21:19	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.23	1		05/03/17 21:19	103-65-1	
Styrene	ND	ug/L	1.0	0.29	1		05/03/17 21:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.17	1		05/03/17 21:19	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		05/03/17 21:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.25	1		05/03/17 21:19	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1.5	1		05/03/17 21:19	109-99-9	
Toluene	ND	ug/L	1.0	0.14	1		05/03/17 21:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/03/17 21:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/03/17 21:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	4.0	0.17	1		05/03/17 21:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		05/03/17 21:19	79-00-5	
Trichloroethene	ND	ug/L	0.40	0.052	1		05/03/17 21:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.33	1		05/03/17 21:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.28	1		05/03/17 21:19	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	0.32	1		05/03/17 21:19	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.18	1		05/03/17 21:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.27	1		05/03/17 21:19	108-67-8	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-14**      **Lab ID: 10386678006**      Collected: 04/25/17 15:30      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Vinyl chloride	ND	ug/L	0.20	0.069	1		05/03/17 21:19	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.32	1		05/03/17 21:19	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	101	%	75-137		1		05/03/17 21:19	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1		05/03/17 21:19	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1		05/03/17 21:19	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-15**      **Lab ID: 10386678007**      Collected: 04/25/17 11:30      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI      Preparation Method: EPA Mod. 3510C									
Acenaphthene	24.1	ug/L	0.40	0.095	10	05/01/17 14:11	05/10/17 13:32	83-32-9	N2
Acenaphthylene	0.72	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 18:44	208-96-8	N2
Anthracene	0.50	ug/L	0.040	0.0082	1	05/01/17 14:11	05/09/17 18:44	120-12-7	N2
Benzo(a)anthracene	0.44	ug/L	0.040	0.0098	1	05/01/17 14:11	05/09/17 18:44	56-55-3	N2
Benzo(a)pyrene	0.32	ug/L	0.040	0.0025	1	05/01/17 14:11	05/09/17 18:44	50-32-8	N2
Benzo(b)fluoranthene	0.25	ug/L	0.040	0.0017	1	05/01/17 14:11	05/09/17 18:44	205-99-2	N2
Benzo(e)pyrene	0.17	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 18:44	192-97-2	N2
Benzo(g,h,i)perylene	ND	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 18:44	191-24-2	N2
Benzo(k)fluoranthene	0.098	ug/L	0.040	0.0099	1	05/01/17 14:11	05/09/17 18:44	207-08-9	N2
2-Chloronaphthalene	0.093	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 18:44	91-58-7	N2
Chrysene	0.41	ug/L	0.040	0.0024	1	05/01/17 14:11	05/09/17 18:44	218-01-9	N2
Dibenz(a,h)anthracene	ND	ug/L	0.040	0.0079	1	05/01/17 14:11	05/09/17 18:44	53-70-3	N2
Dibenzofuran	0.33	ug/L	0.040	0.0095	1	05/01/17 14:11	05/09/17 18:44	132-64-9	N2
Fluoranthene	2.5	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 18:44	206-44-0	N2
Fluorene	4.6	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 18:44	86-73-7	N2
Indeno(1,2,3-cd)pyrene	0.085	ug/L	0.040	0.0014	1	05/01/17 14:11	05/09/17 18:44	193-39-5	N2
1-Methylnaphthalene	4.6	ug/L	0.040	0.0069	1	05/01/17 14:11	05/09/17 18:44	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	0.040	0.011	1	05/01/17 14:11	05/09/17 18:44	91-57-6	N2
Naphthalene	0.16	ug/L	0.16	0.012	1	05/01/17 14:11	05/09/17 18:44	91-20-3	N2
Phenanthrene	0.42	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 18:44	85-01-8	N2
Pyrene	2.7	ug/L	0.040	0.0029	1	05/01/17 14:11	05/09/17 18:44	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	77	%	30-136		1	05/01/17 14:11	05/09/17 18:44	321-60-8	N2
p-Terphenyl-d14 (S)	86	%	30-125		1	05/01/17 14:11	05/09/17 18:44	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	ND	ug/L	20.0	2.0	1		05/03/17 21:35	67-64-1	L2
Allyl chloride	ND	ug/L	4.0	0.25	1		05/03/17 21:35	107-05-1	
Benzene	ND	ug/L	1.0	0.16	1		05/03/17 21:35	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.34	1		05/03/17 21:35	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.19	1		05/03/17 21:35	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.24	1		05/03/17 21:35	75-27-4	
Bromoform	ND	ug/L	4.0	0.27	1		05/03/17 21:35	75-25-2	
Bromomethane	ND	ug/L	10.0	0.44	1		05/03/17 21:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1.1	1		05/03/17 21:35	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.16	1		05/03/17 21:35	104-51-8	
sec-Butylbenzene	ND	ug/L	4.0	0.19	1		05/03/17 21:35	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.22	1		05/03/17 21:35	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.20	1		05/03/17 21:35	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.11	1		05/03/17 21:35	108-90-7	
Chloroethane	ND	ug/L	1.0	0.34	1		05/03/17 21:35	75-00-3	
Chloroform	ND	ug/L	1.0	0.21	1		05/03/17 21:35	67-66-3	
Chloromethane	ND	ug/L	4.0	0.25	1		05/03/17 21:35	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.30	1		05/03/17 21:35	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.26	1		05/03/17 21:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	0.60	1		05/03/17 21:35	96-12-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-15**      **Lab ID: 10386678007**      Collected: 04/25/17 11:30      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	ND	ug/L	1.0	0.16	1		05/03/17 21:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		05/03/17 21:35	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.19	1		05/03/17 21:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.17	1		05/03/17 21:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.12	1		05/03/17 21:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.21	1		05/03/17 21:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		05/03/17 21:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.17	1		05/03/17 21:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.17	1		05/03/17 21:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.28	1		05/03/17 21:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.12	1		05/03/17 21:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.16	1		05/03/17 21:35	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.21	1		05/03/17 21:35	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.22	1		05/03/17 21:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.096	1		05/03/17 21:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.13	1		05/03/17 21:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.23	1		05/03/17 21:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/03/17 21:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/03/17 21:35	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	0.19	1		05/03/17 21:35	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.15	1		05/03/17 21:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	0.18	1		05/03/17 21:35	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.25	1		05/03/17 21:35	98-82-8	
p-Isopropyltoluene	ND	ug/L	4.0	0.19	1		05/03/17 21:35	99-87-6	
Methylene Chloride	ND	ug/L	4.0	0.29	1		05/03/17 21:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.43	1		05/03/17 21:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.15	1		05/03/17 21:35	1634-04-4	
Naphthalene	ND	ug/L	4.0	0.20	1		05/03/17 21:35	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.23	1		05/03/17 21:35	103-65-1	
Styrene	ND	ug/L	1.0	0.29	1		05/03/17 21:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.17	1		05/03/17 21:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		05/03/17 21:35	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.25	1		05/03/17 21:35	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1.5	1		05/03/17 21:35	109-99-9	
Toluene	ND	ug/L	1.0	0.14	1		05/03/17 21:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/03/17 21:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/03/17 21:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	4.0	0.17	1		05/03/17 21:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		05/03/17 21:35	79-00-5	
Trichloroethene	ND	ug/L	0.40	0.052	1		05/03/17 21:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.33	1		05/03/17 21:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.28	1		05/03/17 21:35	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	0.32	1		05/03/17 21:35	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.18	1		05/03/17 21:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.27	1		05/03/17 21:35	108-67-8	
Vinyl chloride	ND	ug/L	0.20	0.069	1		05/03/17 21:35	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

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**Sample: MW-15**      **Lab ID: 10386678007**      Collected: 04/25/17 11:30      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	ND	ug/L	3.0	0.32	1		05/03/17 21:35	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-137		1		05/03/17 21:35	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1		05/03/17 21:35	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1		05/03/17 21:35	460-00-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-16**      **Lab ID: 10386678008**      Collected: 04/25/17 10:00      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b> Analytical Method: EPA 8270D by HVI      Preparation Method: EPA Mod. 3510C									
Acenaphthene	<b>0.067</b>	ug/L	0.040	0.0095	1	05/01/17 14:11	05/09/17 19:05	83-32-9	N2
Acenaphthylene	ND	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 19:05	208-96-8	N2
Anthracene	ND	ug/L	0.040	0.0082	1	05/01/17 14:11	05/09/17 19:05	120-12-7	N2
Benzo(a)anthracene	ND	ug/L	0.040	0.0098	1	05/01/17 14:11	05/09/17 19:05	56-55-3	N2
Benzo(a)pyrene	ND	ug/L	0.040	0.0025	1	05/01/17 14:11	05/09/17 19:05	50-32-8	N2
Benzo(b)fluoranthene	ND	ug/L	0.040	0.0017	1	05/01/17 14:11	05/09/17 19:05	205-99-2	N2
Benzo(e)pyrene	ND	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 19:05	192-97-2	N2
Benzo(g,h,i)perylene	ND	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 19:05	191-24-2	N2
Benzo(k)fluoranthene	ND	ug/L	0.040	0.0099	1	05/01/17 14:11	05/09/17 19:05	207-08-9	N2
2-Chloronaphthalene	ND	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 19:05	91-58-7	N2
Chrysene	ND	ug/L	0.040	0.0024	1	05/01/17 14:11	05/09/17 19:05	218-01-9	N2
Dibenz(a,h)anthracene	ND	ug/L	0.040	0.0079	1	05/01/17 14:11	05/09/17 19:05	53-70-3	N2
Dibenzofuran	ND	ug/L	0.040	0.0095	1	05/01/17 14:11	05/09/17 19:05	132-64-9	N2
Fluoranthene	ND	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 19:05	206-44-0	N2
Fluorene	ND	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 19:05	86-73-7	N2
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.040	0.0014	1	05/01/17 14:11	05/09/17 19:05	193-39-5	N2
1-Methylnaphthalene	ND	ug/L	0.040	0.0069	1	05/01/17 14:11	05/09/17 19:05	90-12-0	N2
2-Methylnaphthalene	<b>0.049</b>	ug/L	0.040	0.011	1	05/01/17 14:11	05/09/17 19:05	91-57-6	1M,B, N2
Naphthalene	ND	ug/L	0.16	0.012	1	05/01/17 14:11	05/09/17 19:05	91-20-3	N2
Phenanthrene	ND	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 19:05	85-01-8	N2
Pyrene	ND	ug/L	0.040	0.0029	1	05/01/17 14:11	05/09/17 19:05	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	82	%	30-136		1	05/01/17 14:11	05/09/17 19:05	321-60-8	N2
p-Terphenyl-d14 (S)	103	%	30-125		1	05/01/17 14:11	05/09/17 19:05	1718-51-0	N2
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Acetone	ND	ug/L	20.0	2.0	1		05/03/17 21:51	67-64-1	L2
Allyl chloride	ND	ug/L	4.0	0.25	1		05/03/17 21:51	107-05-1	
Benzene	ND	ug/L	1.0	0.16	1		05/03/17 21:51	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.34	1		05/03/17 21:51	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.19	1		05/03/17 21:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.24	1		05/03/17 21:51	75-27-4	
Bromoform	ND	ug/L	4.0	0.27	1		05/03/17 21:51	75-25-2	
Bromomethane	ND	ug/L	10.0	0.44	1		05/03/17 21:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1.1	1		05/03/17 21:51	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.16	1		05/03/17 21:51	104-51-8	
sec-Butylbenzene	ND	ug/L	4.0	0.19	1		05/03/17 21:51	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.22	1		05/03/17 21:51	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.20	1		05/03/17 21:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.11	1		05/03/17 21:51	108-90-7	
Chloroethane	ND	ug/L	1.0	0.34	1		05/03/17 21:51	75-00-3	
Chloroform	ND	ug/L	1.0	0.21	1		05/03/17 21:51	67-66-3	
Chloromethane	ND	ug/L	4.0	0.25	1		05/03/17 21:51	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.30	1		05/03/17 21:51	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.26	1		05/03/17 21:51	106-43-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-16**      **Lab ID: 10386678008**      Collected: 04/25/17 10:00      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	0.60	1		05/03/17 21:51	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.16	1		05/03/17 21:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		05/03/17 21:51	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.19	1		05/03/17 21:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.17	1		05/03/17 21:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.12	1		05/03/17 21:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.21	1		05/03/17 21:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		05/03/17 21:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.17	1		05/03/17 21:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.17	1		05/03/17 21:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.28	1		05/03/17 21:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.12	1		05/03/17 21:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.16	1		05/03/17 21:51	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.21	1		05/03/17 21:51	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.22	1		05/03/17 21:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.096	1		05/03/17 21:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.13	1		05/03/17 21:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.23	1		05/03/17 21:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/03/17 21:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/03/17 21:51	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	0.19	1		05/03/17 21:51	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.15	1		05/03/17 21:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	0.18	1		05/03/17 21:51	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.25	1		05/03/17 21:51	98-82-8	
p-Isopropyltoluene	ND	ug/L	4.0	0.19	1		05/03/17 21:51	99-87-6	
Methylene Chloride	ND	ug/L	4.0	0.29	1		05/03/17 21:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.43	1		05/03/17 21:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.15	1		05/03/17 21:51	1634-04-4	
Naphthalene	ND	ug/L	4.0	0.20	1		05/03/17 21:51	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.23	1		05/03/17 21:51	103-65-1	
Styrene	ND	ug/L	1.0	0.29	1		05/03/17 21:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.17	1		05/03/17 21:51	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		05/03/17 21:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.25	1		05/03/17 21:51	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1.5	1		05/03/17 21:51	109-99-9	
Toluene	ND	ug/L	1.0	0.14	1		05/03/17 21:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/03/17 21:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/03/17 21:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	4.0	0.17	1		05/03/17 21:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		05/03/17 21:51	79-00-5	
Trichloroethene	ND	ug/L	0.40	0.052	1		05/03/17 21:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.33	1		05/03/17 21:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.28	1		05/03/17 21:51	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	0.32	1		05/03/17 21:51	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.18	1		05/03/17 21:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.27	1		05/03/17 21:51	108-67-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

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**Sample: MW-16**      **Lab ID: 10386678008**      Collected: 04/25/17 10:00      Received: 04/27/17 18:50      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Vinyl chloride	ND	ug/L	0.20	0.069	1		05/03/17 21:51	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.32	1		05/03/17 21:51	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	101	%	75-137		1		05/03/17 21:51	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1		05/03/17 21:51	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1		05/03/17 21:51	460-00-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-17**      **Lab ID: 10386678009**      Collected: 04/25/17 09:00      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI					Preparation Method: EPA Mod. 3510C				
Acenaphthene	<b>0.041</b>	ug/L	0.040	0.0095	1	05/01/17 14:11	05/09/17 19:26	83-32-9	N2
Acenaphthylene	ND	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 19:26	208-96-8	N2
Anthracene	ND	ug/L	0.040	0.0082	1	05/01/17 14:11	05/09/17 19:26	120-12-7	N2
Benzo(a)anthracene	ND	ug/L	0.040	0.0098	1	05/01/17 14:11	05/09/17 19:26	56-55-3	N2
Benzo(a)pyrene	ND	ug/L	0.040	0.0025	1	05/01/17 14:11	05/09/17 19:26	50-32-8	N2
Benzo(b)fluoranthene	ND	ug/L	0.040	0.0017	1	05/01/17 14:11	05/09/17 19:26	205-99-2	N2
Benzo(e)pyrene	ND	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 19:26	192-97-2	N2
Benzo(g,h,i)perylene	ND	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 19:26	191-24-2	N2
Benzo(k)fluoranthene	ND	ug/L	0.040	0.0099	1	05/01/17 14:11	05/09/17 19:26	207-08-9	N2
2-Chloronaphthalene	ND	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 19:26	91-58-7	N2
Chrysene	ND	ug/L	0.040	0.0024	1	05/01/17 14:11	05/09/17 19:26	218-01-9	N2
Dibenz(a,h)anthracene	ND	ug/L	0.040	0.0079	1	05/01/17 14:11	05/09/17 19:26	53-70-3	N2
Dibenzofuran	ND	ug/L	0.040	0.0095	1	05/01/17 14:11	05/09/17 19:26	132-64-9	N2
Fluoranthene	ND	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 19:26	206-44-0	N2
Fluorene	ND	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 19:26	86-73-7	N2
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.040	0.0014	1	05/01/17 14:11	05/09/17 19:26	193-39-5	N2
1-Methylnaphthalene	ND	ug/L	0.040	0.0069	1	05/01/17 14:11	05/09/17 19:26	90-12-0	N2
2-Methylnaphthalene	<b>0.058</b>	ug/L	0.040	0.011	1	05/01/17 14:11	05/09/17 19:26	91-57-6	1M,B, N2
Naphthalene	ND	ug/L	0.16	0.012	1	05/01/17 14:11	05/09/17 19:26	91-20-3	N2
Phenanthrene	ND	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 19:26	85-01-8	N2
Pyrene	ND	ug/L	0.040	0.0029	1	05/01/17 14:11	05/09/17 19:26	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	77	%	30-136		1	05/01/17 14:11	05/09/17 19:26	321-60-8	N2
p-Terphenyl-d14 (S)	103	%	30-125		1	05/01/17 14:11	05/09/17 19:26	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	ND	ug/L	20.0	2.0	1		05/03/17 22:07	67-64-1	L2
Allyl chloride	ND	ug/L	4.0	0.25	1		05/03/17 22:07	107-05-1	
Benzene	ND	ug/L	1.0	0.16	1		05/03/17 22:07	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.34	1		05/03/17 22:07	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.19	1		05/03/17 22:07	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.24	1		05/03/17 22:07	75-27-4	
Bromoform	ND	ug/L	4.0	0.27	1		05/03/17 22:07	75-25-2	
Bromomethane	ND	ug/L	10.0	0.44	1		05/03/17 22:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1.1	1		05/03/17 22:07	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.16	1		05/03/17 22:07	104-51-8	
sec-Butylbenzene	ND	ug/L	4.0	0.19	1		05/03/17 22:07	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.22	1		05/03/17 22:07	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.20	1		05/03/17 22:07	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.11	1		05/03/17 22:07	108-90-7	
Chloroethane	ND	ug/L	1.0	0.34	1		05/03/17 22:07	75-00-3	
Chloroform	ND	ug/L	1.0	0.21	1		05/03/17 22:07	67-66-3	
Chloromethane	ND	ug/L	4.0	0.25	1		05/03/17 22:07	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.30	1		05/03/17 22:07	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.26	1		05/03/17 22:07	106-43-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-17**      **Lab ID: 10386678009**      Collected: 04/25/17 09:00      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	0.60	1		05/03/17 22:07	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.16	1		05/03/17 22:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		05/03/17 22:07	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.19	1		05/03/17 22:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.17	1		05/03/17 22:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.12	1		05/03/17 22:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.21	1		05/03/17 22:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		05/03/17 22:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.17	1		05/03/17 22:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.17	1		05/03/17 22:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.28	1		05/03/17 22:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.12	1		05/03/17 22:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.16	1		05/03/17 22:07	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.21	1		05/03/17 22:07	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.22	1		05/03/17 22:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.096	1		05/03/17 22:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.13	1		05/03/17 22:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.23	1		05/03/17 22:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/03/17 22:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/03/17 22:07	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	0.19	1		05/03/17 22:07	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.15	1		05/03/17 22:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	0.18	1		05/03/17 22:07	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.25	1		05/03/17 22:07	98-82-8	
p-Isopropyltoluene	ND	ug/L	4.0	0.19	1		05/03/17 22:07	99-87-6	
Methylene Chloride	ND	ug/L	4.0	0.29	1		05/03/17 22:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.43	1		05/03/17 22:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.15	1		05/03/17 22:07	1634-04-4	
Naphthalene	ND	ug/L	4.0	0.20	1		05/03/17 22:07	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.23	1		05/03/17 22:07	103-65-1	
Styrene	ND	ug/L	1.0	0.29	1		05/03/17 22:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.17	1		05/03/17 22:07	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		05/03/17 22:07	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.25	1		05/03/17 22:07	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1.5	1		05/03/17 22:07	109-99-9	
Toluene	ND	ug/L	1.0	0.14	1		05/03/17 22:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/03/17 22:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/03/17 22:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	4.0	0.17	1		05/03/17 22:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		05/03/17 22:07	79-00-5	
Trichloroethene	ND	ug/L	0.40	0.052	1		05/03/17 22:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.33	1		05/03/17 22:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.28	1		05/03/17 22:07	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	0.32	1		05/03/17 22:07	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.18	1		05/03/17 22:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.27	1		05/03/17 22:07	108-67-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

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**Sample: MW-17**      **Lab ID: 10386678009**      Collected: 04/25/17 09:00      Received: 04/27/17 18:50      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Vinyl chloride	ND	ug/L	0.20	0.069	1		05/03/17 22:07	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.32	1		05/03/17 22:07	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-137		1		05/03/17 22:07	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1		05/03/17 22:07	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1		05/03/17 22:07	460-00-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-20**      **Lab ID: 10386678010**      Collected: 04/25/17 12:30      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI      Preparation Method: EPA Mod. 3510C									
Acenaphthene	<b>48.8</b>	ug/L	4.0	0.95	100	05/01/17 14:11	05/10/17 14:35	83-32-9	N2
Acenaphthylene	<b>0.55</b>	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 19:47	208-96-8	N2
Anthracene	<b>0.16</b>	ug/L	0.040	0.0082	1	05/01/17 14:11	05/09/17 19:47	120-12-7	N2
Benzo(a)anthracene	ND	ug/L	0.040	0.0098	1	05/01/17 14:11	05/09/17 19:47	56-55-3	N2
Benzo(a)pyrene	ND	ug/L	0.040	0.0025	1	05/01/17 14:11	05/09/17 19:47	50-32-8	N2
Benzo(b)fluoranthene	ND	ug/L	0.040	0.0017	1	05/01/17 14:11	05/09/17 19:47	205-99-2	N2
Benzo(e)pyrene	ND	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 19:47	192-97-2	N2
Benzo(g,h,i)perylene	ND	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 19:47	191-24-2	N2
Benzo(k)fluoranthene	ND	ug/L	0.040	0.0099	1	05/01/17 14:11	05/09/17 19:47	207-08-9	N2
2-Chloronaphthalene	<b>0.12</b>	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 19:47	91-58-7	N2
Chrysene	ND	ug/L	0.040	0.0024	1	05/01/17 14:11	05/09/17 19:47	218-01-9	N2
Dibenz(a,h)anthracene	ND	ug/L	0.040	0.0079	1	05/01/17 14:11	05/09/17 19:47	53-70-3	N2
Dibenzofuran	<b>0.33</b>	ug/L	0.040	0.0095	1	05/01/17 14:11	05/09/17 19:47	132-64-9	N2
Fluoranthene	<b>0.20</b>	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 19:47	206-44-0	N2
Fluorene	<b>4.9</b>	ug/L	4.0	0.94	100	05/01/17 14:11	05/10/17 14:35	86-73-7	N2
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.040	0.0014	1	05/01/17 14:11	05/09/17 19:47	193-39-5	N2
1-Methylnaphthalene	<b>71.7</b>	ug/L	4.0	0.69	100	05/01/17 14:11	05/10/17 14:35	90-12-0	N2
2-Methylnaphthalene	<b>38.9</b>	ug/L	4.0	1.1	100	05/01/17 14:11	05/10/17 14:35	91-57-6	B,N2
Naphthalene	<b>741</b>	ug/L	80.0	6.0	500	05/01/17 14:11	05/10/17 15:39	91-20-3	N2
Phenanthrene	<b>0.64</b>	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 19:47	85-01-8	N2
Pyrene	<b>0.14</b>	ug/L	0.040	0.0029	1	05/01/17 14:11	05/09/17 19:47	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	78	%	30-136		1	05/01/17 14:11	05/09/17 19:47	321-60-8	N2
p-Terphenyl-d14 (S)	87	%	30-125		1	05/01/17 14:11	05/09/17 19:47	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	ND	ug/L	2000	201	100		05/05/17 03:09	67-64-1	L2
Allyl chloride	ND	ug/L	400	25.0	100		05/05/17 03:09	107-05-1	
Benzene	<b>14700</b>	ug/L	100	15.5	100		05/05/17 03:09	71-43-2	
Bromobenzene	ND	ug/L	100	33.7	100		05/05/17 03:09	108-86-1	
Bromochloromethane	ND	ug/L	100	18.6	100		05/05/17 03:09	74-97-5	
Bromodichloromethane	ND	ug/L	100	24.0	100		05/05/17 03:09	75-27-4	
Bromoform	ND	ug/L	400	27.4	100		05/05/17 03:09	75-25-2	
Bromomethane	ND	ug/L	1000	44.3	100		05/05/17 03:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	500	110	100		05/05/17 03:09	78-93-3	
n-Butylbenzene	ND	ug/L	100	16.0	100		05/05/17 03:09	104-51-8	
sec-Butylbenzene	ND	ug/L	400	18.9	100		05/05/17 03:09	135-98-8	
tert-Butylbenzene	ND	ug/L	100	22.3	100		05/05/17 03:09	98-06-6	
Carbon tetrachloride	ND	ug/L	100	19.7	100		05/05/17 03:09	56-23-5	
Chlorobenzene	ND	ug/L	100	11.4	100		05/05/17 03:09	108-90-7	
Chloroethane	ND	ug/L	100	34.2	100		05/05/17 03:09	75-00-3	
Chloroform	ND	ug/L	100	21.0	100		05/05/17 03:09	67-66-3	
Chloromethane	ND	ug/L	400	24.6	100		05/05/17 03:09	74-87-3	
2-Chlorotoluene	ND	ug/L	100	29.5	100		05/05/17 03:09	95-49-8	
4-Chlorotoluene	ND	ug/L	100	25.5	100		05/05/17 03:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	400	60.0	100		05/05/17 03:09	96-12-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-20**      **Lab ID: 10386678010**      Collected: 04/25/17 12:30      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	ND	ug/L	100	15.7	100		05/05/17 03:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	100	20.0	100		05/05/17 03:09	106-93-4	
Dibromomethane	ND	ug/L	400	19.4	100		05/05/17 03:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	100	17.1	100		05/05/17 03:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	100	11.5	100		05/05/17 03:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	100	21.1	100		05/05/17 03:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	100	22.6	100		05/05/17 03:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	100	17.1	100		05/05/17 03:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	100	17.0	100		05/05/17 03:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	100	27.7	100		05/05/17 03:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	100	12.0	100		05/05/17 03:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	100	16.2	100		05/05/17 03:09	156-60-5	
Dichlorofluoromethane	ND	ug/L	100	21.4	100		05/05/17 03:09	75-43-4	
1,2-Dichloropropane	ND	ug/L	400	22.2	100		05/05/17 03:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	100	9.6	100		05/05/17 03:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	400	12.8	100		05/05/17 03:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	100	22.7	100		05/05/17 03:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	400	15.0	100		05/05/17 03:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	400	14.7	100		05/05/17 03:09	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	400	19.4	100		05/05/17 03:09	60-29-7	
Ethylbenzene	<b>265</b>	ug/L	100	15.2	100		05/05/17 03:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	400	17.8	100		05/05/17 03:09	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	100	25.3	100		05/05/17 03:09	98-82-8	
p-Isopropyltoluene	ND	ug/L	400	19.4	100		05/05/17 03:09	99-87-6	
Methylene Chloride	ND	ug/L	400	29.3	100		05/05/17 03:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	500	43.2	100		05/05/17 03:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	100	14.9	100		05/05/17 03:09	1634-04-4	
Naphthalene	<b>904</b>	ug/L	400	20.4	100		05/05/17 03:09	91-20-3	
n-Propylbenzene	ND	ug/L	100	23.3	100		05/05/17 03:09	103-65-1	
Styrene	ND	ug/L	100	28.6	100		05/05/17 03:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	100	16.6	100		05/05/17 03:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	22.5	100		05/05/17 03:09	79-34-5	
Tetrachloroethene	ND	ug/L	100	25.3	100		05/05/17 03:09	127-18-4	
Tetrahydrofuran	ND	ug/L	1000	150	100		05/05/17 03:09	109-99-9	
Toluene	ND	ug/L	100	14.5	100		05/05/17 03:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	100	21.3	100		05/05/17 03:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	100	21.3	100		05/05/17 03:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	400	17.0	100		05/05/17 03:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	100	15.2	100		05/05/17 03:09	79-00-5	
Trichloroethene	ND	ug/L	40.0	5.2	100		05/05/17 03:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	100	32.6	100		05/05/17 03:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	400	28.4	100		05/05/17 03:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1000	32.0	100		05/05/17 03:09	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	100	17.8	100		05/05/17 03:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	100	26.9	100		05/05/17 03:09	108-67-8	
Vinyl chloride	ND	ug/L	20.0	6.9	100		05/05/17 03:09	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

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**Sample: MW-20**      **Lab ID: 10386678010**      Collected: 04/25/17 12:30      Received: 04/27/17 18:50      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	ND	ug/L	300	31.5	100		05/05/17 03:09	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-137		100		05/05/17 03:09	17060-07-0	
Toluene-d8 (S)	101	%	75-125		100		05/05/17 03:09	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		100		05/05/17 03:09	460-00-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-21**      **Lab ID: 10386678011**      Collected: 04/25/17 08:00      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b> Analytical Method: EPA 8270D by HVI      Preparation Method: EPA Mod. 3510C									
Acenaphthene	0.19	ug/L	0.040	0.0095	1	05/01/17 14:11	05/09/17 20:09	83-32-9	N2
Acenaphthylene	ND	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 20:09	208-96-8	N2
Anthracene	ND	ug/L	0.040	0.0082	1	05/01/17 14:11	05/09/17 20:09	120-12-7	N2
Benzo(a)anthracene	ND	ug/L	0.040	0.0098	1	05/01/17 14:11	05/09/17 20:09	56-55-3	N2
Benzo(a)pyrene	ND	ug/L	0.040	0.0025	1	05/01/17 14:11	05/09/17 20:09	50-32-8	N2
Benzo(b)fluoranthene	ND	ug/L	0.040	0.0017	1	05/01/17 14:11	05/09/17 20:09	205-99-2	N2
Benzo(e)pyrene	ND	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 20:09	192-97-2	N2
Benzo(g,h,i)perylene	ND	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 20:09	191-24-2	N2
Benzo(k)fluoranthene	ND	ug/L	0.040	0.0099	1	05/01/17 14:11	05/09/17 20:09	207-08-9	N2
2-Chloronaphthalene	ND	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 20:09	91-58-7	N2
Chrysene	ND	ug/L	0.040	0.0024	1	05/01/17 14:11	05/09/17 20:09	218-01-9	N2
Dibenz(a,h)anthracene	ND	ug/L	0.040	0.0079	1	05/01/17 14:11	05/09/17 20:09	53-70-3	N2
Dibenzofuran	ND	ug/L	0.040	0.0095	1	05/01/17 14:11	05/09/17 20:09	132-64-9	N2
Fluoranthene	ND	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 20:09	206-44-0	N2
Fluorene	ND	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 20:09	86-73-7	N2
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.040	0.0014	1	05/01/17 14:11	05/09/17 20:09	193-39-5	N2
1-Methylnaphthalene	0.082	ug/L	0.040	0.0069	1	05/01/17 14:11	05/09/17 20:09	90-12-0	N2
2-Methylnaphthalene	0.079	ug/L	0.040	0.011	1	05/01/17 14:11	05/09/17 20:09	91-57-6	1M,B, N2
Naphthalene	0.36	ug/L	0.16	0.012	1	05/01/17 14:11	05/09/17 20:09	91-20-3	N2
Phenanthrene	ND	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 20:09	85-01-8	N2
Pyrene	ND	ug/L	0.040	0.0029	1	05/01/17 14:11	05/09/17 20:09	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	83	%	30-136		1	05/01/17 14:11	05/09/17 20:09	321-60-8	N2
p-Terphenyl-d14 (S)	95	%	30-125		1	05/01/17 14:11	05/09/17 20:09	1718-51-0	N2
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Acetone	ND	ug/L	20.0	2.0	1		05/05/17 00:12	67-64-1	L2
Allyl chloride	ND	ug/L	4.0	0.25	1		05/05/17 00:12	107-05-1	
Benzene	ND	ug/L	1.0	0.16	1		05/05/17 00:12	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.34	1		05/05/17 00:12	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.19	1		05/05/17 00:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.24	1		05/05/17 00:12	75-27-4	
Bromoform	ND	ug/L	4.0	0.27	1		05/05/17 00:12	75-25-2	
Bromomethane	ND	ug/L	10.0	0.44	1		05/05/17 00:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1.1	1		05/05/17 00:12	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.16	1		05/05/17 00:12	104-51-8	
sec-Butylbenzene	ND	ug/L	4.0	0.19	1		05/05/17 00:12	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.22	1		05/05/17 00:12	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.20	1		05/05/17 00:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.11	1		05/05/17 00:12	108-90-7	
Chloroethane	ND	ug/L	1.0	0.34	1		05/05/17 00:12	75-00-3	
Chloroform	ND	ug/L	1.0	0.21	1		05/05/17 00:12	67-66-3	
Chloromethane	ND	ug/L	4.0	0.25	1		05/05/17 00:12	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.30	1		05/05/17 00:12	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.26	1		05/05/17 00:12	106-43-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-21**      **Lab ID: 10386678011**      Collected: 04/25/17 08:00      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	0.60	1		05/05/17 00:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.16	1		05/05/17 00:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		05/05/17 00:12	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.19	1		05/05/17 00:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.17	1		05/05/17 00:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.12	1		05/05/17 00:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.21	1		05/05/17 00:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		05/05/17 00:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.17	1		05/05/17 00:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.17	1		05/05/17 00:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.28	1		05/05/17 00:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.12	1		05/05/17 00:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.16	1		05/05/17 00:12	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.21	1		05/05/17 00:12	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.22	1		05/05/17 00:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.096	1		05/05/17 00:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.13	1		05/05/17 00:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.23	1		05/05/17 00:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/05/17 00:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/05/17 00:12	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	0.19	1		05/05/17 00:12	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.15	1		05/05/17 00:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	0.18	1		05/05/17 00:12	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.25	1		05/05/17 00:12	98-82-8	
p-Isopropyltoluene	ND	ug/L	4.0	0.19	1		05/05/17 00:12	99-87-6	
Methylene Chloride	ND	ug/L	4.0	0.29	1		05/05/17 00:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.43	1		05/05/17 00:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.15	1		05/05/17 00:12	1634-04-4	
Naphthalene	ND	ug/L	4.0	0.20	1		05/05/17 00:12	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.23	1		05/05/17 00:12	103-65-1	
Styrene	ND	ug/L	1.0	0.29	1		05/05/17 00:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.17	1		05/05/17 00:12	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		05/05/17 00:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.25	1		05/05/17 00:12	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1.5	1		05/05/17 00:12	109-99-9	
Toluene	ND	ug/L	1.0	0.14	1		05/05/17 00:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/05/17 00:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/05/17 00:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	4.0	0.17	1		05/05/17 00:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		05/05/17 00:12	79-00-5	
Trichloroethene	ND	ug/L	0.40	0.052	1		05/05/17 00:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.33	1		05/05/17 00:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.28	1		05/05/17 00:12	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	0.32	1		05/05/17 00:12	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.18	1		05/05/17 00:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.27	1		05/05/17 00:12	108-67-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-21**      **Lab ID: 10386678011**      Collected: 04/25/17 08:00      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Vinyl chloride	ND	ug/L	0.20	0.069	1		05/05/17 00:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.32	1		05/05/17 00:12	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%	75-137		1		05/05/17 00:12	17060-07-0	HS
Toluene-d8 (S)	103	%	75-125		1		05/05/17 00:12	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1		05/05/17 00:12	460-00-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-21D**      **Lab ID: 10386678012**      Collected: 04/25/17 08:00      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI      Preparation Method: EPA Mod. 3510C									
Acenaphthene	<b>0.085</b>	ug/L	0.040	0.0095	1	05/01/17 14:11	05/09/17 20:30	83-32-9	N2
Acenaphthylene	ND	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 20:30	208-96-8	N2
Anthracene	ND	ug/L	0.040	0.0082	1	05/01/17 14:11	05/09/17 20:30	120-12-7	N2
Benzo(a)anthracene	ND	ug/L	0.040	0.0098	1	05/01/17 14:11	05/09/17 20:30	56-55-3	N2
Benzo(a)pyrene	ND	ug/L	0.040	0.0025	1	05/01/17 14:11	05/09/17 20:30	50-32-8	N2
Benzo(b)fluoranthene	ND	ug/L	0.040	0.0017	1	05/01/17 14:11	05/09/17 20:30	205-99-2	N2
Benzo(e)pyrene	ND	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 20:30	192-97-2	N2
Benzo(g,h,i)perylene	ND	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 20:30	191-24-2	N2
Benzo(k)fluoranthene	ND	ug/L	0.040	0.0099	1	05/01/17 14:11	05/09/17 20:30	207-08-9	N2
2-Chloronaphthalene	ND	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 20:30	91-58-7	N2
Chrysene	ND	ug/L	0.040	0.0024	1	05/01/17 14:11	05/09/17 20:30	218-01-9	N2
Dibenz(a,h)anthracene	ND	ug/L	0.040	0.0079	1	05/01/17 14:11	05/09/17 20:30	53-70-3	N2
Dibenzofuran	ND	ug/L	0.040	0.0095	1	05/01/17 14:11	05/09/17 20:30	132-64-9	N2
Fluoranthene	ND	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 20:30	206-44-0	N2
Fluorene	ND	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 20:30	86-73-7	N2
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.040	0.0014	1	05/01/17 14:11	05/09/17 20:30	193-39-5	N2
1-Methylnaphthalene	<b>0.046</b>	ug/L	0.040	0.0069	1	05/01/17 14:11	05/09/17 20:30	90-12-0	N2
2-Methylnaphthalene	<b>0.059</b>	ug/L	0.040	0.011	1	05/01/17 14:11	05/09/17 20:30	91-57-6	1M,B, N2
Naphthalene	<b>0.20</b>	ug/L	0.16	0.012	1	05/01/17 14:11	05/09/17 20:30	91-20-3	N2
Phenanthrene	ND	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 20:30	85-01-8	N2
Pyrene	ND	ug/L	0.040	0.0029	1	05/01/17 14:11	05/09/17 20:30	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	74	%	30-136		1	05/01/17 14:11	05/09/17 20:30	321-60-8	N2
p-Terphenyl-d14 (S)	102	%	30-125		1	05/01/17 14:11	05/09/17 20:30	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	ND	ug/L	20.0	2.0	1		05/05/17 00:28	67-64-1	L2
Allyl chloride	ND	ug/L	4.0	0.25	1		05/05/17 00:28	107-05-1	
Benzene	ND	ug/L	1.0	0.16	1		05/05/17 00:28	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.34	1		05/05/17 00:28	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.19	1		05/05/17 00:28	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.24	1		05/05/17 00:28	75-27-4	
Bromoform	ND	ug/L	4.0	0.27	1		05/05/17 00:28	75-25-2	
Bromomethane	ND	ug/L	10.0	0.44	1		05/05/17 00:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1.1	1		05/05/17 00:28	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.16	1		05/05/17 00:28	104-51-8	
sec-Butylbenzene	ND	ug/L	4.0	0.19	1		05/05/17 00:28	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.22	1		05/05/17 00:28	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.20	1		05/05/17 00:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.11	1		05/05/17 00:28	108-90-7	
Chloroethane	ND	ug/L	1.0	0.34	1		05/05/17 00:28	75-00-3	
Chloroform	ND	ug/L	1.0	0.21	1		05/05/17 00:28	67-66-3	
Chloromethane	ND	ug/L	4.0	0.25	1		05/05/17 00:28	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.30	1		05/05/17 00:28	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.26	1		05/05/17 00:28	106-43-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-21D**      **Lab ID: 10386678012**      Collected: 04/25/17 08:00      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	0.60	1		05/05/17 00:28	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.16	1		05/05/17 00:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		05/05/17 00:28	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.19	1		05/05/17 00:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.17	1		05/05/17 00:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.12	1		05/05/17 00:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.21	1		05/05/17 00:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		05/05/17 00:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.17	1		05/05/17 00:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.17	1		05/05/17 00:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.28	1		05/05/17 00:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.12	1		05/05/17 00:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.16	1		05/05/17 00:28	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.21	1		05/05/17 00:28	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.22	1		05/05/17 00:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.096	1		05/05/17 00:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.13	1		05/05/17 00:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.23	1		05/05/17 00:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/05/17 00:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/05/17 00:28	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	0.19	1		05/05/17 00:28	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.15	1		05/05/17 00:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	0.18	1		05/05/17 00:28	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.25	1		05/05/17 00:28	98-82-8	
p-Isopropyltoluene	ND	ug/L	4.0	0.19	1		05/05/17 00:28	99-87-6	
Methylene Chloride	ND	ug/L	4.0	0.29	1		05/05/17 00:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.43	1		05/05/17 00:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.15	1		05/05/17 00:28	1634-04-4	
Naphthalene	ND	ug/L	4.0	0.20	1		05/05/17 00:28	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.23	1		05/05/17 00:28	103-65-1	
Styrene	ND	ug/L	1.0	0.29	1		05/05/17 00:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.17	1		05/05/17 00:28	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		05/05/17 00:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.25	1		05/05/17 00:28	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1.5	1		05/05/17 00:28	109-99-9	
Toluene	ND	ug/L	1.0	0.14	1		05/05/17 00:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/05/17 00:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/05/17 00:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	4.0	0.17	1		05/05/17 00:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		05/05/17 00:28	79-00-5	
Trichloroethene	ND	ug/L	0.40	0.052	1		05/05/17 00:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.33	1		05/05/17 00:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.28	1		05/05/17 00:28	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	0.32	1		05/05/17 00:28	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.18	1		05/05/17 00:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.27	1		05/05/17 00:28	108-67-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

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**Sample: MW-21D**      **Lab ID: 10386678012**      Collected: 04/25/17 08:00      Received: 04/27/17 18:50      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Vinyl chloride	ND	ug/L	0.20	0.069	1		05/05/17 00:28	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.32	1		05/05/17 00:28	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	107	%	75-137		1		05/05/17 00:28	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1		05/05/17 00:28	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1		05/05/17 00:28	460-00-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-22**      **Lab ID: 10386678013**      Collected: 04/25/17 16:55      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b> Analytical Method: EPA 8270D by HVI      Preparation Method: EPA Mod. 3510C									
Acenaphthene	0.12	ug/L	0.040	0.0095	1	05/01/17 14:11	05/09/17 20:51	83-32-9	N2
Acenaphthylene	ND	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 20:51	208-96-8	N2
Anthracene	ND	ug/L	0.040	0.0082	1	05/01/17 14:11	05/09/17 20:51	120-12-7	N2
Benzo(a)anthracene	ND	ug/L	0.040	0.0098	1	05/01/17 14:11	05/09/17 20:51	56-55-3	N2
Benzo(a)pyrene	ND	ug/L	0.040	0.0025	1	05/01/17 14:11	05/09/17 20:51	50-32-8	N2
Benzo(b)fluoranthene	ND	ug/L	0.040	0.0017	1	05/01/17 14:11	05/09/17 20:51	205-99-2	N2
Benzo(e)pyrene	ND	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 20:51	192-97-2	N2
Benzo(g,h,i)perylene	ND	ug/L	0.040	0.0020	1	05/01/17 14:11	05/09/17 20:51	191-24-2	N2
Benzo(k)fluoranthene	ND	ug/L	0.040	0.0099	1	05/01/17 14:11	05/09/17 20:51	207-08-9	N2
2-Chloronaphthalene	ND	ug/L	0.040	0.0092	1	05/01/17 14:11	05/09/17 20:51	91-58-7	N2
Chrysene	ND	ug/L	0.040	0.0024	1	05/01/17 14:11	05/09/17 20:51	218-01-9	N2
Dibenz(a,h)anthracene	ND	ug/L	0.040	0.0079	1	05/01/17 14:11	05/09/17 20:51	53-70-3	N2
Dibenzofuran	ND	ug/L	0.040	0.0095	1	05/01/17 14:11	05/09/17 20:51	132-64-9	N2
Fluoranthene	ND	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 20:51	206-44-0	N2
Fluorene	ND	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 20:51	86-73-7	N2
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.040	0.0014	1	05/01/17 14:11	05/09/17 20:51	193-39-5	N2
1-Methylnaphthalene	0.16	ug/L	0.040	0.0069	1	05/01/17 14:11	05/09/17 20:51	90-12-0	N2
2-Methylnaphthalene	0.14	ug/L	0.040	0.011	1	05/01/17 14:11	05/09/17 20:51	91-57-6	1M,B, N2
Naphthalene	0.48	ug/L	0.16	0.012	1	05/01/17 14:11	05/09/17 20:51	91-20-3	N2
Phenanthrene	0.046	ug/L	0.040	0.0094	1	05/01/17 14:11	05/09/17 20:51	85-01-8	N2
Pyrene	ND	ug/L	0.040	0.0029	1	05/01/17 14:11	05/09/17 20:51	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	74	%	30-136		1	05/01/17 14:11	05/09/17 20:51	321-60-8	N2
p-Terphenyl-d14 (S)	98	%	30-125		1	05/01/17 14:11	05/09/17 20:51	1718-51-0	N2
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Acetone	98.5	ug/L	20.0	2.0	1		05/05/17 00:44	67-64-1	L2
Allyl chloride	ND	ug/L	4.0	0.25	1		05/05/17 00:44	107-05-1	
Benzene	3.2	ug/L	1.0	0.16	1		05/05/17 00:44	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.34	1		05/05/17 00:44	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.19	1		05/05/17 00:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.24	1		05/05/17 00:44	75-27-4	
Bromoform	ND	ug/L	4.0	0.27	1		05/05/17 00:44	75-25-2	
Bromomethane	ND	ug/L	10.0	0.44	1		05/05/17 00:44	74-83-9	
2-Butanone (MEK)	8.2	ug/L	5.0	1.1	1		05/05/17 00:44	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.16	1		05/05/17 00:44	104-51-8	
sec-Butylbenzene	ND	ug/L	4.0	0.19	1		05/05/17 00:44	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.22	1		05/05/17 00:44	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.20	1		05/05/17 00:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.11	1		05/05/17 00:44	108-90-7	
Chloroethane	ND	ug/L	1.0	0.34	1		05/05/17 00:44	75-00-3	
Chloroform	ND	ug/L	1.0	0.21	1		05/05/17 00:44	67-66-3	
Chloromethane	ND	ug/L	4.0	0.25	1		05/05/17 00:44	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.30	1		05/05/17 00:44	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.26	1		05/05/17 00:44	106-43-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: MW-22**      **Lab ID: 10386678013**      Collected: 04/25/17 16:55      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	0.60	1		05/05/17 00:44	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.16	1		05/05/17 00:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		05/05/17 00:44	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.19	1		05/05/17 00:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.17	1		05/05/17 00:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.12	1		05/05/17 00:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.21	1		05/05/17 00:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		05/05/17 00:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.17	1		05/05/17 00:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.17	1		05/05/17 00:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.28	1		05/05/17 00:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.12	1		05/05/17 00:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.16	1		05/05/17 00:44	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.21	1		05/05/17 00:44	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.22	1		05/05/17 00:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.096	1		05/05/17 00:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.13	1		05/05/17 00:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.23	1		05/05/17 00:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/05/17 00:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/05/17 00:44	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	0.19	1		05/05/17 00:44	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.15	1		05/05/17 00:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	0.18	1		05/05/17 00:44	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.25	1		05/05/17 00:44	98-82-8	
p-Isopropyltoluene	ND	ug/L	4.0	0.19	1		05/05/17 00:44	99-87-6	
Methylene Chloride	ND	ug/L	4.0	0.29	1		05/05/17 00:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.43	1		05/05/17 00:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.15	1		05/05/17 00:44	1634-04-4	
Naphthalene	ND	ug/L	4.0	0.20	1		05/05/17 00:44	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.23	1		05/05/17 00:44	103-65-1	
Styrene	ND	ug/L	1.0	0.29	1		05/05/17 00:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.17	1		05/05/17 00:44	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		05/05/17 00:44	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.25	1		05/05/17 00:44	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1.5	1		05/05/17 00:44	109-99-9	
Toluene	<b>1.5</b>	ug/L	1.0	0.14	1		05/05/17 00:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/05/17 00:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/05/17 00:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	4.0	0.17	1		05/05/17 00:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		05/05/17 00:44	79-00-5	
Trichloroethene	ND	ug/L	0.40	0.052	1		05/05/17 00:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.33	1		05/05/17 00:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.28	1		05/05/17 00:44	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	0.32	1		05/05/17 00:44	76-13-1	
1,2,4-Trimethylbenzene	<b>2.8</b>	ug/L	1.0	0.18	1		05/05/17 00:44	95-63-6	
1,3,5-Trimethylbenzene	<b>1.8</b>	ug/L	1.0	0.27	1		05/05/17 00:44	108-67-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

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**Sample: MW-22**      **Lab ID: 10386678013**      Collected: 04/25/17 16:55      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Vinyl chloride	ND	ug/L	0.20	0.069	1		05/05/17 00:44	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.32	1		05/05/17 00:44	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	107	%	75-137		1		05/05/17 00:44	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1		05/05/17 00:44	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1		05/05/17 00:44	460-00-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: TRIP BLANK**      **Lab ID: 10386678014**      Collected: 04/24/17 00:00      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Acetone	ND	ug/L	20.0	2.0	1		05/03/17 16:45	67-64-1	L2
Allyl chloride	ND	ug/L	4.0	0.25	1		05/03/17 16:45	107-05-1	
Benzene	ND	ug/L	1.0	0.16	1		05/03/17 16:45	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.34	1		05/03/17 16:45	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.19	1		05/03/17 16:45	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.24	1		05/03/17 16:45	75-27-4	
Bromoform	ND	ug/L	4.0	0.27	1		05/03/17 16:45	75-25-2	
Bromomethane	ND	ug/L	10.0	0.44	1		05/03/17 16:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1.1	1		05/03/17 16:45	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.16	1		05/03/17 16:45	104-51-8	
sec-Butylbenzene	ND	ug/L	4.0	0.19	1		05/03/17 16:45	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.22	1		05/03/17 16:45	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.20	1		05/03/17 16:45	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.11	1		05/03/17 16:45	108-90-7	
Chloroethane	ND	ug/L	1.0	0.34	1		05/03/17 16:45	75-00-3	
Chloroform	ND	ug/L	1.0	0.21	1		05/03/17 16:45	67-66-3	
Chloromethane	ND	ug/L	4.0	0.25	1		05/03/17 16:45	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.30	1		05/03/17 16:45	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.26	1		05/03/17 16:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	0.60	1		05/03/17 16:45	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.16	1		05/03/17 16:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		05/03/17 16:45	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.19	1		05/03/17 16:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.17	1		05/03/17 16:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.12	1		05/03/17 16:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.21	1		05/03/17 16:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		05/03/17 16:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.17	1		05/03/17 16:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.17	1		05/03/17 16:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.28	1		05/03/17 16:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.12	1		05/03/17 16:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.16	1		05/03/17 16:45	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.21	1		05/03/17 16:45	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.22	1		05/03/17 16:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.096	1		05/03/17 16:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.13	1		05/03/17 16:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.23	1		05/03/17 16:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/03/17 16:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/03/17 16:45	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	0.19	1		05/03/17 16:45	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.15	1		05/03/17 16:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	0.18	1		05/03/17 16:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.25	1		05/03/17 16:45	98-82-8	
p-Isopropyltoluene	ND	ug/L	4.0	0.19	1		05/03/17 16:45	99-87-6	
Methylene Chloride	ND	ug/L	4.0	0.29	1		05/03/17 16:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.43	1		05/03/17 16:45	108-10-1	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

**Sample: TRIP BLANK**      **Lab ID: 10386678014**      Collected: 04/24/17 00:00      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Methyl-tert-butyl ether	ND	ug/L	1.0	0.15	1		05/03/17 16:45	1634-04-4	
Naphthalene	ND	ug/L	4.0	0.20	1		05/03/17 16:45	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.23	1		05/03/17 16:45	103-65-1	
Styrene	ND	ug/L	1.0	0.29	1		05/03/17 16:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.17	1		05/03/17 16:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		05/03/17 16:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.25	1		05/03/17 16:45	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1.5	1		05/03/17 16:45	109-99-9	
Toluene	ND	ug/L	1.0	0.14	1		05/03/17 16:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/03/17 16:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/03/17 16:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	4.0	0.17	1		05/03/17 16:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		05/03/17 16:45	79-00-5	
Trichloroethene	ND	ug/L	0.40	0.052	1		05/03/17 16:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.33	1		05/03/17 16:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.28	1		05/03/17 16:45	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	0.32	1		05/03/17 16:45	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.18	1		05/03/17 16:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.27	1		05/03/17 16:45	108-67-8	
Vinyl chloride	ND	ug/L	0.20	0.069	1		05/03/17 16:45	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.32	1		05/03/17 16:45	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-137		1		05/03/17 16:45	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1		05/03/17 16:45	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1		05/03/17 16:45	460-00-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

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QC Batch: 472067 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 8260B Analysis Description: 8260B MSV 465 W  
 Associated Lab Samples: 10386678001, 10386678002, 10386678004, 10386678005, 10386678006, 10386678007, 10386678008, 10386678009, 10386678014

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METHOD BLANK: 2575758 Matrix: Water  
 Associated Lab Samples: 10386678001, 10386678002, 10386678004, 10386678005, 10386678006, 10386678007, 10386678008, 10386678009, 10386678014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/03/17 15:39	
1,1,1-Trichloroethane	ug/L	ND	4.0	05/03/17 15:39	MN
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/03/17 15:39	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/03/17 15:39	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	10.0	05/03/17 15:39	MN
1,1-Dichloroethane	ug/L	ND	1.0	05/03/17 15:39	
1,1-Dichloroethene	ug/L	ND	1.0	05/03/17 15:39	
1,1-Dichloropropene	ug/L	ND	1.0	05/03/17 15:39	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/03/17 15:39	
1,2,3-Trichloropropane	ug/L	ND	4.0	05/03/17 15:39	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/03/17 15:39	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/03/17 15:39	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	05/03/17 15:39	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/03/17 15:39	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/03/17 15:39	
1,2-Dichloroethane	ug/L	ND	1.0	05/03/17 15:39	
1,2-Dichloropropane	ug/L	ND	4.0	05/03/17 15:39	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/03/17 15:39	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/03/17 15:39	
1,3-Dichloropropane	ug/L	ND	1.0	05/03/17 15:39	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/03/17 15:39	
2,2-Dichloropropane	ug/L	ND	4.0	05/03/17 15:39	
2-Butanone (MEK)	ug/L	ND	5.0	05/03/17 15:39	
2-Chlorotoluene	ug/L	ND	1.0	05/03/17 15:39	
4-Chlorotoluene	ug/L	ND	1.0	05/03/17 15:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/03/17 15:39	
Acetone	ug/L	ND	20.0	05/03/17 15:39	
Allyl chloride	ug/L	ND	4.0	05/03/17 15:39	
Benzene	ug/L	ND	1.0	05/03/17 15:39	
Bromobenzene	ug/L	ND	1.0	05/03/17 15:39	
Bromochloromethane	ug/L	ND	1.0	05/03/17 15:39	
Bromodichloromethane	ug/L	ND	1.0	05/03/17 15:39	
Bromoform	ug/L	ND	4.0	05/03/17 15:39	
Bromomethane	ug/L	ND	10.0	05/03/17 15:39	MN
Carbon tetrachloride	ug/L	ND	1.0	05/03/17 15:39	
Chlorobenzene	ug/L	ND	1.0	05/03/17 15:39	
Chloroethane	ug/L	ND	1.0	05/03/17 15:39	
Chloroform	ug/L	ND	1.0	05/03/17 15:39	
Chloromethane	ug/L	ND	4.0	05/03/17 15:39	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/03/17 15:39	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

METHOD BLANK: 2575758

Matrix: Water

Associated Lab Samples: 10386678001, 10386678002, 10386678004, 10386678005, 10386678006, 10386678007, 10386678008, 10386678009, 10386678014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	4.0	05/03/17 15:39	
Dibromochloromethane	ug/L	ND	1.0	05/03/17 15:39	
Dibromomethane	ug/L	ND	4.0	05/03/17 15:39	
Dichlorodifluoromethane	ug/L	ND	1.0	05/03/17 15:39	
Dichlorofluoromethane	ug/L	ND	1.0	05/03/17 15:39	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	05/03/17 15:39	
Ethylbenzene	ug/L	ND	1.0	05/03/17 15:39	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	05/03/17 15:39	MN
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/03/17 15:39	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/03/17 15:39	
Methylene Chloride	ug/L	ND	4.0	05/03/17 15:39	
n-Butylbenzene	ug/L	ND	1.0	05/03/17 15:39	
n-Propylbenzene	ug/L	ND	1.0	05/03/17 15:39	
Naphthalene	ug/L	ND	4.0	05/03/17 15:39	
p-Isopropyltoluene	ug/L	ND	4.0	05/03/17 15:39	MN
sec-Butylbenzene	ug/L	ND	4.0	05/03/17 15:39	MN
Styrene	ug/L	ND	1.0	05/03/17 15:39	
tert-Butylbenzene	ug/L	ND	1.0	05/03/17 15:39	
Tetrachloroethene	ug/L	ND	1.0	05/03/17 15:39	
Tetrahydrofuran	ug/L	ND	10.0	05/03/17 15:39	
Toluene	ug/L	ND	1.0	05/03/17 15:39	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/03/17 15:39	
trans-1,3-Dichloropropene	ug/L	ND	4.0	05/03/17 15:39	
Trichloroethene	ug/L	ND	0.40	05/03/17 15:39	
Trichlorofluoromethane	ug/L	ND	1.0	05/03/17 15:39	
Vinyl chloride	ug/L	ND	0.20	05/03/17 15:39	
Xylene (Total)	ug/L	ND	3.0	05/03/17 15:39	
1,2-Dichloroethane-d4 (S)	%	101	75-137	05/03/17 15:39	
4-Bromofluorobenzene (S)	%	100	75-125	05/03/17 15:39	
Toluene-d8 (S)	%	100	75-125	05/03/17 15:39	

LABORATORY CONTROL SAMPLE: 2575759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.4	97	75-125	
1,1,1-Trichloroethane	ug/L	50	46.4	93	69-125	
1,1,2,2-Tetrachloroethane	ug/L	50	50.5	101	70-125	
1,1,2-Trichloroethane	ug/L	50	50.0	100	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	44.5	89	70-133	
1,1-Dichloroethane	ug/L	50	46.6	93	62-130	
1,1-Dichloroethene	ug/L	50	47.8	96	64-134	
1,1-Dichloropropene	ug/L	50	46.8	94	65-129	
1,2,3-Trichlorobenzene	ug/L	50	49.3	99	75-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

LABORATORY CONTROL SAMPLE: 2575759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	55.0	110	70-125	
1,2,4-Trichlorobenzene	ug/L	50	49.0	98	75-125	
1,2,4-Trimethylbenzene	ug/L	50	49.9	100	69-135	
1,2-Dibromo-3-chloropropane	ug/L	125	125	100	73-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.0	100	75-125	
1,2-Dichlorobenzene	ug/L	50	49.0	98	75-125	
1,2-Dichloroethane	ug/L	50	41.4	83	64-126	
1,2-Dichloropropane	ug/L	50	48.0	96	73-125	
1,3,5-Trimethylbenzene	ug/L	50	50.9	102	71-129	
1,3-Dichlorobenzene	ug/L	50	50.3	101	75-125	
1,3-Dichloropropane	ug/L	50	49.7	99	74-125	
1,4-Dichlorobenzene	ug/L	50	48.5	97	75-125	
2,2-Dichloropropane	ug/L	50	42.3	85	59-135	
2-Butanone (MEK)	ug/L	250	240	96	57-142	
2-Chlorotoluene	ug/L	50	49.1	98	73-125	
4-Chlorotoluene	ug/L	50	49.2	98	74-128	
4-Methyl-2-pentanone (MIBK)	ug/L	250	277	111	56-142	
Acetone	ug/L	250	184	74	75-133	L2
Allyl chloride	ug/L	50	44.9	90	62-139	
Benzene	ug/L	50	46.0	92	74-125	
Bromobenzene	ug/L	50	49.0	98	75-125	
Bromochloromethane	ug/L	50	47.4	95	75-125	
Bromodichloromethane	ug/L	50	47.7	95	72-125	
Bromoform	ug/L	50	45.6	91	74-125	
Bromomethane	ug/L	50	37.3	75	30-150	
Carbon tetrachloride	ug/L	50	42.4	85	67-130	
Chlorobenzene	ug/L	50	50.8	102	75-125	
Chloroethane	ug/L	50	39.8	80	63-137	
Chloroform	ug/L	50	45.5	91	68-128	
Chloromethane	ug/L	50	44.9	90	46-145	
cis-1,2-Dichloroethene	ug/L	50	44.9	90	75-125	
cis-1,3-Dichloropropene	ug/L	50	46.9	94	73-125	
Dibromochloromethane	ug/L	50	48.2	96	75-125	
Dibromomethane	ug/L	50	51.0	102	73-125	
Dichlorodifluoromethane	ug/L	50	46.7	93	36-150	
Dichlorofluoromethane	ug/L	50	45.7	91	75-125	
Diethyl ether (Ethyl ether)	ug/L	50	46.1	92	62-136	
Ethylbenzene	ug/L	50	47.1	94	73-125	
Hexachloro-1,3-butadiene	ug/L	50	44.4	89	69-141	
Isopropylbenzene (Cumene)	ug/L	50	50.0	100	75-126	
Methyl-tert-butyl ether	ug/L	50	46.2	92	70-130	
Methylene Chloride	ug/L	50	44.0	88	74-125	
n-Butylbenzene	ug/L	50	45.6	91	69-133	
n-Propylbenzene	ug/L	50	49.1	98	75-125	
Naphthalene	ug/L	50	49.1	98	66-129	
p-Isopropyltoluene	ug/L	50	47.9	96	73-127	
sec-Butylbenzene	ug/L	50	48.8	98	75-131	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

LABORATORY CONTROL SAMPLE: 2575759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/L	50	49.6	99	75-128	
tert-Butylbenzene	ug/L	50	50.8	102	75-127	
Tetrachloroethene	ug/L	50	48.9	98	71-127	
Tetrahydrofuran	ug/L	500	474	95	75-132	
Toluene	ug/L	50	47.5	95	75-125	
trans-1,2-Dichloroethene	ug/L	50	47.2	94	69-127	
trans-1,3-Dichloropropene	ug/L	50	47.3	95	70-128	
Trichloroethene	ug/L	50	48.0	96	70-125	
Trichlorofluoromethane	ug/L	50	45.0	90	71-125	
Vinyl chloride	ug/L	50	49.3	99	69-133	
Xylene (Total)	ug/L	150	149	100	75-125	
1,2-Dichloroethane-d4 (S)	%			98	75-137	
4-Bromofluorobenzene (S)	%			98	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2576350 2576351

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10386313002 Result	Spike Conc.	Spike Conc.	MSD Result								
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.1	17.9	100	89	75-138	11	30		
1,1,1-Trichloroethane	ug/L	ND	20	20	20.6	18.6	103	93	75-145	10	30		
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.1	16.1	91	80	73-150	12	30		
1,1,2-Trichloroethane	ug/L	ND	20	20	20.5	19.0	103	95	75-140	8	30		
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	21.9	19.6	109	98	74-150	11	30		
1,1-Dichloroethane	ug/L	ND	20	20	20.5	18.2	103	91	75-140	12	30		
1,1-Dichloroethene	ug/L	ND	20	20	22.7	21.1	113	106	73-150	7	30		
1,1-Dichloropropene	ug/L	ND	20	20	21.0	18.8	105	94	75-150	11	30		
1,2,3-Trichlorobenzene	ug/L	ND	20	20	17.4	16.0	87	80	57-147	8	30		
1,2,3-Trichloropropane	ug/L	ND	20	20	19.8	17.4	99	87	75-147	13	30		
1,2,4-Trichlorobenzene	ug/L	ND	20	20	18.2	16.2	91	81	59-142	12	30		
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.5	18.6	107	93	73-141	14	30		
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	39.0	36.6	78	73	65-136	6	30		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.9	18.1	99	91	75-131	9	30		
1,2-Dichlorobenzene	ug/L	ND	20	20	21.3	18.6	106	93	75-141	13	30		
1,2-Dichloroethane	ug/L	ND	20	20	18.2	16.5	91	82	75-125	10	30		
1,2-Dichloropropane	ug/L	ND	20	20	19.8	18.3	99	92	71-147	8	30		
1,3,5-Trimethylbenzene	ug/L	ND	20	20	22.5	19.2	112	96	75-139	15	30		
1,3-Dichlorobenzene	ug/L	ND	20	20	22.0	19.0	110	95	75-142	15	30		
1,3-Dichloropropane	ug/L	ND	20	20	19.1	17.6	96	88	75-141	8	30		
1,4-Dichlorobenzene	ug/L	ND	20	20	21.1	18.6	105	93	75-139	13	30		
2,2-Dichloropropane	ug/L	ND	20	20	19.9	18.8	99	94	60-150	5	30		
2-Butanone (MEK)	ug/L	ND	100	100	76.2	73.2	76	73	68-133	4	30		
2-Chlorotoluene	ug/L	ND	20	20	22.1	19.7	111	99	75-146	12	30		
4-Chlorotoluene	ug/L	ND	20	20	21.9	19.6	110	98	75-149	11	30		

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2576350		2576351								
Parameter	Units	10386313002 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits			
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	90.1	83.4	90	83	67-150	8	30	
Acetone	ug/L	ND	100	100	82.7	77.6	83	78	56-150	6	30	
Allyl chloride	ug/L	ND	20	20	20.2	18.6	101	93	66-134	8	30	
Benzene	ug/L	ND	20	20	21.3	19.0	107	95	74-134	11	30	
Bromobenzene	ug/L	ND	20	20	20.8	19.3	104	97	75-138	7	30	
Bromochloromethane	ug/L	ND	20	20	21.0	18.7	105	93	75-145	12	30	
Bromodichloromethane	ug/L	ND	20	20	19.6	18.5	98	92	75-143	6	30	
Bromoform	ug/L	ND	20	20	15.2	13.5	76	67	67-125	12	30	
Bromomethane	ug/L	ND	20	20	23.5	19.2	118	96	30-150	20	30	
Carbon tetrachloride	ug/L	ND	20	20	20.1	18.6	101	93	75-150	8	30	
Chlorobenzene	ug/L	ND	20	20	22.3	20.2	112	101	75-133	10	30	
Chloroethane	ug/L	ND	20	20	19.0	17.3	95	86	53-150	9	30	
Chloroform	ug/L	ND	20	20	21.1	18.7	105	94	75-134	12	30	
Chloromethane	ug/L	ND	20	20	20.7	17.7	103	88	41-150	16	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.3	18.2	102	91	73-140	11	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.2	16.1	91	80	72-140	12	30	
Dibromochloromethane	ug/L	ND	20	20	18.8	17.6	94	88	74-130	7	30	
Dibromomethane	ug/L	ND	20	20	20.3	17.8	102	89	70-141	14	30	
Dichlorodifluoromethane	ug/L	ND	20	20	20.9	20.0	104	100	50-150	4	30	
Dichlorofluoromethane	ug/L	ND	20	20	20.7	18.3	103	91	62-150	12	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	20.1	18.1	100	90	71-141	11	30	
Ethylbenzene	ug/L	ND	20	20	19.9	17.8	100	89	75-136	11	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	19.7	18.1	98	90	47-150	8	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.9	18.9	104	95	75-138	10	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.8	17.0	94	85	75-128	10	30	
Methylene Chloride	ug/L	ND	20	20	19.9	17.8	100	89	69-150	11	30	
n-Butylbenzene	ug/L	ND	20	20	18.3	16.2	92	81	68-150	12	30	
n-Propylbenzene	ug/L	ND	20	20	21.2	18.9	106	95	74-150	11	30	
Naphthalene	ug/L	ND	20	20	13.7	14.2	68	71	61-138	4	30	
p-Isopropyltoluene	ug/L	ND	20	20	19.0	16.4	95	82	70-142	14	30	
sec-Butylbenzene	ug/L	ND	20	20	19.9	17.5	99	88	74-150	13	30	
Styrene	ug/L	ND	20	20	21.4	19.0	107	95	70-140	12	30	
tert-Butylbenzene	ug/L	ND	20	20	22.7	19.3	113	97	73-140	16	30	
Tetrachloroethene	ug/L	ND	20	20	22.8	20.4	114	102	72-141	11	30	
Tetrahydrofuran	ug/L	ND	200	200	212	185	106	92	53-150	14	30	
Toluene	ug/L	ND	20	20	21.1	19.3	106	97	71-138	9	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.5	20.5	112	102	74-149	9	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.8	16.5	94	83	74-138	13	30	
Trichloroethene	ug/L	ND	20	20	20.7	19.4	104	97	70-150	6	30	
Trichlorofluoromethane	ug/L	ND	20	20	21.6	20.1	108	101	57-150	7	30	
Vinyl chloride	ug/L	ND	20	20	19.3	17.1	96	86	59-150	12	30	
Xylene (Total)	ug/L	ND	60	60	63.2	56.4	105	94	75-131	11	30	
1,2-Dichloroethane-d4 (S)	%							98	75-137			
4-Bromofluorobenzene (S)	%							100	75-125			
Toluene-d8 (S)	%							100	75-125			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

QC Batch: 472223 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV 465 W  
Associated Lab Samples: 10386678003, 10386678010, 10386678011, 10386678012, 10386678013

METHOD BLANK: 2576543 Matrix: Water  
Associated Lab Samples: 10386678003, 10386678010, 10386678011, 10386678012, 10386678013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/04/17 22:35	
1,1,1-Trichloroethane	ug/L	ND	4.0	05/04/17 22:35	MN
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/04/17 22:35	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/04/17 22:35	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	10.0	05/04/17 22:35	MN
1,1-Dichloroethane	ug/L	ND	1.0	05/04/17 22:35	
1,1-Dichloroethene	ug/L	ND	1.0	05/04/17 22:35	
1,1-Dichloropropene	ug/L	ND	1.0	05/04/17 22:35	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/04/17 22:35	
1,2,3-Trichloropropane	ug/L	ND	4.0	05/04/17 22:35	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/04/17 22:35	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/04/17 22:35	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	05/04/17 22:35	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/04/17 22:35	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/04/17 22:35	
1,2-Dichloroethane	ug/L	ND	1.0	05/04/17 22:35	
1,2-Dichloropropane	ug/L	ND	4.0	05/04/17 22:35	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/04/17 22:35	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/04/17 22:35	
1,3-Dichloropropane	ug/L	ND	1.0	05/04/17 22:35	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/04/17 22:35	
2,2-Dichloropropane	ug/L	ND	4.0	05/04/17 22:35	
2-Butanone (MEK)	ug/L	ND	5.0	05/04/17 22:35	
2-Chlorotoluene	ug/L	ND	1.0	05/04/17 22:35	
4-Chlorotoluene	ug/L	ND	1.0	05/04/17 22:35	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/04/17 22:35	
Acetone	ug/L	ND	20.0	05/04/17 22:35	
Allyl chloride	ug/L	ND	4.0	05/04/17 22:35	
Benzene	ug/L	ND	1.0	05/04/17 22:35	
Bromobenzene	ug/L	ND	1.0	05/04/17 22:35	
Bromochloromethane	ug/L	ND	1.0	05/04/17 22:35	
Bromodichloromethane	ug/L	ND	1.0	05/04/17 22:35	
Bromoform	ug/L	ND	4.0	05/04/17 22:35	
Bromomethane	ug/L	ND	10.0	05/04/17 22:35	MN
Carbon tetrachloride	ug/L	ND	1.0	05/04/17 22:35	
Chlorobenzene	ug/L	ND	1.0	05/04/17 22:35	
Chloroethane	ug/L	ND	1.0	05/04/17 22:35	
Chloroform	ug/L	ND	1.0	05/04/17 22:35	
Chloromethane	ug/L	ND	4.0	05/04/17 22:35	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/04/17 22:35	
cis-1,3-Dichloropropene	ug/L	ND	4.0	05/04/17 22:35	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP  
Pace Project No.: 10386678

METHOD BLANK: 2576543 Matrix: Water  
Associated Lab Samples: 10386678003, 10386678010, 10386678011, 10386678012, 10386678013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	05/04/17 22:35	
Dibromomethane	ug/L	ND	4.0	05/04/17 22:35	
Dichlorodifluoromethane	ug/L	ND	1.0	05/04/17 22:35	
Dichlorofluoromethane	ug/L	ND	1.0	05/04/17 22:35	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	05/04/17 22:35	
Ethylbenzene	ug/L	ND	1.0	05/04/17 22:35	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	05/04/17 22:35	MN
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/04/17 22:35	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/04/17 22:35	
Methylene Chloride	ug/L	ND	4.0	05/04/17 22:35	
n-Butylbenzene	ug/L	ND	1.0	05/04/17 22:35	
n-Propylbenzene	ug/L	ND	1.0	05/04/17 22:35	
Naphthalene	ug/L	ND	4.0	05/04/17 22:35	
p-Isopropyltoluene	ug/L	ND	4.0	05/04/17 22:35	MN
sec-Butylbenzene	ug/L	ND	4.0	05/04/17 22:35	MN
Styrene	ug/L	ND	1.0	05/04/17 22:35	
tert-Butylbenzene	ug/L	ND	1.0	05/04/17 22:35	
Tetrachloroethene	ug/L	ND	1.0	05/04/17 22:35	
Tetrahydrofuran	ug/L	ND	10.0	05/04/17 22:35	
Toluene	ug/L	ND	1.0	05/04/17 22:35	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/04/17 22:35	
trans-1,3-Dichloropropene	ug/L	ND	4.0	05/04/17 22:35	
Trichloroethene	ug/L	ND	0.40	05/04/17 22:35	
Trichlorofluoromethane	ug/L	ND	1.0	05/04/17 22:35	
Vinyl chloride	ug/L	ND	0.20	05/04/17 22:35	
Xylene (Total)	ug/L	ND	3.0	05/04/17 22:35	
1,2-Dichloroethane-d4 (S)	%	106	75-137	05/04/17 22:35	
4-Bromofluorobenzene (S)	%	103	75-125	05/04/17 22:35	
Toluene-d8 (S)	%	101	75-125	05/04/17 22:35	

LABORATORY CONTROL SAMPLE: 2576544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.3	99	75-125	
1,1,1-Trichloroethane	ug/L	50	49.2	98	69-125	
1,1,2,2-Tetrachloroethane	ug/L	50	44.9	90	70-125	
1,1,2-Trichloroethane	ug/L	50	48.5	97	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	49.2	98	70-133	
1,1-Dichloroethane	ug/L	50	49.8	100	62-130	
1,1-Dichloroethene	ug/L	50	48.2	96	64-134	
1,1-Dichloropropene	ug/L	50	50.2	100	65-129	
1,2,3-Trichlorobenzene	ug/L	50	42.4	85	75-125	
1,2,3-Trichloropropane	ug/L	50	49.1	98	70-125	
1,2,4-Trichlorobenzene	ug/L	50	42.7	85	75-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

LABORATORY CONTROL SAMPLE: 2576544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	50.3	101	69-135	
1,2-Dibromo-3-chloropropane	ug/L	125	100	80	73-130	
1,2-Dibromoethane (EDB)	ug/L	50	47.9	96	75-125	
1,2-Dichlorobenzene	ug/L	50	48.2	96	75-125	
1,2-Dichloroethane	ug/L	50	44.3	89	64-126	
1,2-Dichloropropane	ug/L	50	50.2	100	73-125	
1,3,5-Trimethylbenzene	ug/L	50	51.5	103	71-129	
1,3-Dichlorobenzene	ug/L	50	49.9	100	75-125	
1,3-Dichloropropane	ug/L	50	47.9	96	74-125	
1,4-Dichlorobenzene	ug/L	50	48.2	96	75-125	
2,2-Dichloropropane	ug/L	50	42.2	84	59-135	
2-Butanone (MEK)	ug/L	250	200	80	57-142	
2-Chlorotoluene	ug/L	50	51.1	102	73-125	
4-Chlorotoluene	ug/L	50	50.4	101	74-128	
4-Methyl-2-pentanone (MIBK)	ug/L	250	230	92	56-142	
Acetone	ug/L	250	184	74	75-133 L2	
Allyl chloride	ug/L	50	45.5	91	62-139	
Benzene	ug/L	50	48.5	97	74-125	
Bromobenzene	ug/L	50	48.8	98	75-125	
Bromochloromethane	ug/L	50	48.2	96	75-125	
Bromodichloromethane	ug/L	50	49.1	98	72-125	
Bromoform	ug/L	50	42.6	85	74-125	
Bromomethane	ug/L	50	41.0	82	30-150	
Carbon tetrachloride	ug/L	50	45.5	91	67-130	
Chlorobenzene	ug/L	50	51.1	102	75-125	
Chloroethane	ug/L	50	45.2	90	63-137	
Chloroform	ug/L	50	48.3	97	68-128	
Chloromethane	ug/L	50	46.8	94	46-145	
cis-1,2-Dichloroethene	ug/L	50	46.3	93	75-125	
cis-1,3-Dichloropropene	ug/L	50	47.3	95	73-125	
Dibromochloromethane	ug/L	50	47.7	95	75-125	
Dibromomethane	ug/L	50	48.8	98	73-125	
Dichlorodifluoromethane	ug/L	50	49.2	98	36-150	
Dichlorofluoromethane	ug/L	50	47.9	96	75-125	
Diethyl ether (Ethyl ether)	ug/L	50	47.6	95	62-136	
Ethylbenzene	ug/L	50	48.4	97	73-125	
Hexachloro-1,3-butadiene	ug/L	50	38.7	77	69-141	
Isopropylbenzene (Cumene)	ug/L	50	50.7	101	75-126	
Methyl-tert-butyl ether	ug/L	50	46.6	93	70-130	
Methylene Chloride	ug/L	50	45.9	92	74-125	
n-Butylbenzene	ug/L	50	43.0	86	69-133	
n-Propylbenzene	ug/L	50	50.3	101	75-125	
Naphthalene	ug/L	50	42.3	85	66-129	
p-Isopropyltoluene	ug/L	50	46.2	92	73-127	
sec-Butylbenzene	ug/L	50	47.6	95	75-131	
Styrene	ug/L	50	49.7	99	75-128	
tert-Butylbenzene	ug/L	50	51.2	102	75-127	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

LABORATORY CONTROL SAMPLE: 2576544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethane	ug/L	50	50.1	100	71-127	
Tetrahydrofuran	ug/L	500	471	94	75-132	
Toluene	ug/L	50	49.1	98	75-125	
trans-1,2-Dichloroethene	ug/L	50	47.9	96	69-127	
trans-1,3-Dichloropropene	ug/L	50	47.4	95	70-128	
Trichloroethene	ug/L	50	48.6	97	70-125	
Trichlorofluoromethane	ug/L	50	48.6	97	71-125	
Vinyl chloride	ug/L	50	49.8	100	69-133	
Xylene (Total)	ug/L	150	154	103	75-125	
1,2-Dichloroethane-d4 (S)	%			101	75-137	
4-Bromofluorobenzene (S)	%			99	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2577750 2577751

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10387780001 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	ug/L	ND	200	200	193	178	97	89	75-138	8	30
1,1,1-Trichloroethane	ug/L	ND	200	200	210	200	98	93	75-145	5	30
1,1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	184	167	92	84	73-150	10	30
1,1,2-Trichloroethane	ug/L	ND	200	200	195	185	98	93	75-140	5	30
1,1,2-Trichlorotrifluoroethane	ug/L	ND	200	200	186	171	93	86	74-150	8	30
1,1-Dichloroethane	ug/L	ND	200	200	189	178	95	89	75-140	6	30
1,1-Dichloroethene	ug/L	ND	200	200	192	185	96	93	73-150	4	30
1,1-Dichloropropene	ug/L	ND	200	200	185	173	93	87	75-150	7	30
1,2,3-Trichlorobenzene	ug/L	ND	200	200	187	163	94	82	57-147	14	30
1,2,3-Trichloropropane	ug/L	ND	200	200	199	185	100	92	75-147	8	30
1,2,4-Trichlorobenzene	ug/L	ND	200	200	187	162	94	81	59-142	15	30
1,2,4-Trimethylbenzene	ug/L	ND	200	200	213	197	104	96	73-141	8	30
1,2-Dibromo-3-chloropropane	ug/L	ND	500	500	414	347	83	69	65-136	17	30
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	191	179	96	90	75-131	7	30
1,2-Dichlorobenzene	ug/L	ND	200	200	211	188	105	94	75-141	11	30
1,2-Dichloroethane	ug/L	ND	200	200	172	165	86	82	75-125	4	30
1,2-Dichloropropane	ug/L	ND	200	200	192	172	96	86	71-147	11	30
1,3,5-Trimethylbenzene	ug/L	ND	200	200	214	200	105	98	75-139	7	30
1,3-Dichlorobenzene	ug/L	ND	200	200	211	194	106	97	75-142	9	30
1,3-Dichloropropane	ug/L	ND	200	200	184	173	92	87	75-141	6	30
1,4-Dichlorobenzene	ug/L	ND	200	200	208	189	104	94	75-139	10	30
2,2-Dichloropropane	ug/L	ND	200	200	168	155	84	77	60-150	8	30
2-Butanone (MEK)	ug/L	ND	1000	1000	749	713	73	69	68-133	5	30
2-Chlorotoluene	ug/L	ND	200	200	216	198	108	99	75-146	8	30
4-Chlorotoluene	ug/L	ND	200	200	215	197	108	99	75-149	9	30
4-Methyl-2-pentanone (MIBK)	ug/L	ND	1000	1000	879	816	88	82	67-150	7	30
Acetone	ug/L	ND	1000	1000	859	768	81	72	56-150	11	30

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2577750												2577751	
Parameter	Units	10387780001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD		
Allyl chloride	ug/L	ND	200	200	200	180	165	90	82	66-134	9	30	
Benzene	ug/L	ND	200	200	200	195	182	97	91	74-134	7	30	
Bromobenzene	ug/L	ND	200	200	200	207	192	103	96	75-138	7	30	
Bromochloromethane	ug/L	ND	200	200	200	191	183	95	92	75-145	4	30	
Bromodichloromethane	ug/L	ND	200	200	200	194	178	97	89	75-143	9	30	
Bromoform	ug/L	ND	200	200	200	150	135	75	68	67-125	11	30	
Bromomethane	ug/L	ND	200	200	200	233	218	116	109	30-150	6	30	
Carbon tetrachloride	ug/L	ND	200	200	200	179	171	89	86	75-150	4	30	
Chlorobenzene	ug/L	ND	200	200	200	213	197	106	98	75-133	8	30	
Chloroethane	ug/L	ND	200	200	200	174	166	87	83	53-150	4	30	
Chloroform	ug/L	ND	200	200	200	195	186	97	93	75-134	5	30	
Chloromethane	ug/L	ND	200	200	200	182	170	91	85	41-150	7	30	
cis-1,2-Dichloroethene	ug/L	40.1	200	200	200	227	214	93	87	73-140	6	30	
cis-1,3-Dichloropropene	ug/L	ND	200	200	200	174	159	87	80	72-140	9	30	
Dibromochloromethane	ug/L	ND	200	200	200	189	167	95	83	74-130	13	30	
Dibromomethane	ug/L	ND	200	200	200	191	179	96	89	70-141	7	30	
Dichlorodifluoromethane	ug/L	ND	200	200	200	179	173	90	87	50-150	3	30	
Dichlorofluoromethane	ug/L	ND	200	200	200	199	192	99	96	62-150	4	30	
Diethyl ether (Ethyl ether)	ug/L	ND	200	200	200	188	172	94	86	71-141	9	30	
Ethylbenzene	ug/L	ND	200	200	200	186	171	93	86	75-136	8	30	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	200	188	165	94	83	47-150	13	30	
Isopropylbenzene (Cumene)	ug/L	ND	200	200	200	195	176	98	88	75-138	10	30	
Methyl-tert-butyl ether	ug/L	ND	200	200	200	182	173	91	86	75-128	5	30	
Methylene Chloride	ug/L	ND	200	200	200	184	174	90	84	69-150	6	30	
n-Butylbenzene	ug/L	ND	200	200	200	183	162	91	81	68-150	12	30	
n-Propylbenzene	ug/L	ND	200	200	200	208	189	104	95	74-150	9	30	
Naphthalene	ug/L	ND	200	200	200	175	152	88	76	61-138	14	30	
p-Isopropyltoluene	ug/L	ND	200	200	200	183	162	91	81	70-142	12	30	
sec-Butylbenzene	ug/L	ND	200	200	200	188	167	94	83	74-150	12	30	
Styrene	ug/L	ND	200	200	200	204	189	102	95	70-140	7	30	
tert-Butylbenzene	ug/L	ND	200	200	200	205	191	102	96	73-140	7	30	
Tetrachloroethene	ug/L	ND	200	200	200	197	187	99	94	72-141	5	30	
Tetrahydrofuran	ug/L	ND	2000	2000	2000	2080	1910	104	95	53-150	9	30	
Toluene	ug/L	ND	200	200	200	194	179	97	89	71-138	8	30	
trans-1,2-Dichloroethene	ug/L	ND	200	200	200	193	185	97	92	74-149	4	30	
trans-1,3-Dichloropropene	ug/L	ND	200	200	200	176	161	88	81	74-138	9	30	
Trichloroethene	ug/L	173	200	200	200	362	341	95	84	70-150	6	30	
Trichlorofluoromethane	ug/L	ND	200	200	200	207	191	103	95	57-150	8	30	
Vinyl chloride	ug/L	ND	200	200	200	172	164	86	82	59-150	5	30	
Xylene (Total)	ug/L	ND	600	600	600	581	546	97	91	75-131	6	30	
1,2-Dichloroethane-d4 (S)	%							100	103	75-137			
4-Bromofluorobenzene (S)	%							102	102	75-125			
Toluene-d8 (S)	%							101	101	75-125			

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**QUALITY CONTROL DATA**

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

QC Batch: 471486 Analysis Method: EPA 8270D by HVI  
 QC Batch Method: EPA Mod. 3510C Analysis Description: 8270D Water PAH High Volume Injection  
 Associated Lab Samples: 10386678001, 10386678002, 10386678003, 10386678004, 10386678005, 10386678006, 10386678007,  
 10386678008, 10386678009, 10386678010, 10386678011, 10386678012, 10386678013

METHOD BLANK: 2573554 Matrix: Water  
 Associated Lab Samples: 10386678001, 10386678002, 10386678003, 10386678004, 10386678005, 10386678006, 10386678007,  
 10386678008, 10386678009, 10386678010, 10386678011, 10386678012, 10386678013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.040	0.040	05/09/17 13:26	N2
2-Chloronaphthalene	ug/L	<0.040	0.040	05/09/17 13:26	N2
2-Methylnaphthalene	ug/L	0.047	0.040	05/09/17 13:26	N2
Acenaphthene	ug/L	<0.040	0.040	05/09/17 13:26	N2
Acenaphthylene	ug/L	<0.040	0.040	05/09/17 13:26	N2
Anthracene	ug/L	<0.040	0.040	05/09/17 13:26	N2
Benzo(a)anthracene	ug/L	<0.040	0.040	05/09/17 13:26	N2
Benzo(a)pyrene	ug/L	<0.040	0.040	05/09/17 13:26	N2
Benzo(b)fluoranthene	ug/L	<0.040	0.040	05/09/17 13:26	N2
Benzo(e)pyrene	ug/L	<0.040	0.040	05/09/17 13:26	N2
Benzo(g,h,i)perylene	ug/L	<0.040	0.040	05/09/17 13:26	N2
Benzo(k)fluoranthene	ug/L	<0.040	0.040	05/09/17 13:26	N2
Chrysene	ug/L	<0.040	0.040	05/09/17 13:26	N2
Dibenz(a,h)anthracene	ug/L	<0.040	0.040	05/09/17 13:26	N2
Dibenzofuran	ug/L	<0.040	0.040	05/09/17 13:26	N2
Fluoranthene	ug/L	<0.040	0.040	05/09/17 13:26	N2
Fluorene	ug/L	<0.040	0.040	05/09/17 13:26	N2
Indeno(1,2,3-cd)pyrene	ug/L	<0.040	0.040	05/09/17 13:26	N2
Naphthalene	ug/L	<0.16	0.16	05/09/17 13:26	N2
Phenanthrene	ug/L	<0.040	0.040	05/09/17 13:26	N2
Pyrene	ug/L	<0.040	0.040	05/09/17 13:26	N2
2-Fluorobiphenyl (S)	%	88	30-136	05/09/17 13:26	N2
p-Terphenyl-d14 (S)	%	113	30-125	05/09/17 13:26	N2

Parameter	Units	2573555		2573556		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	LCS % Rec				
1-Methylnaphthalene	ug/L	1	0.71	0.82	71	82	34-125	14	20 N2
2-Chloronaphthalene	ug/L	1	0.81	0.93	81	93	36-125	14	20 N2
2-Methylnaphthalene	ug/L	1	0.73	0.83	73	83	32-125	12	20 N2
Acenaphthene	ug/L	1	0.71	0.81	71	81	35-125	13	20 N2
Acenaphthylene	ug/L	1	0.76	0.86	76	86	35-125	13	20 N2
Anthracene	ug/L	1	0.86	0.99	86	99	30-125	14	20 N2
Benzo(a)anthracene	ug/L	1	0.87	0.98	87	98	35-125	12	20 N2
Benzo(a)pyrene	ug/L	1	0.79	0.96	79	96	41-125	20	20 N2
Benzo(b)fluoranthene	ug/L	1	0.85	1.1	85	105	40-125	21	20 N2,R1
Benzo(e)pyrene	ug/L	1	0.80	0.95	80	95	40-125	17	20 N2
Benzo(g,h,i)perylene	ug/L	1	0.81	0.52	81	52	30-125	43	20 N2,R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

Parameter	Units	Spike Conc.	2573555		2573556		% Rec Limits	RPD	Max RPD	Qualifiers
			LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
Benzo(k)fluoranthene	ug/L	1	0.65	0.85	65	85	40-125	26	20	N2,R1
Chrysene	ug/L	1	0.79	0.86	79	86	39-125	9	20	N2
Dibenz(a,h)anthracene	ug/L	1	0.59	0.38	59	38	30-125	43	20	N2,R1
Dibenzofuran	ug/L	1	0.76	0.86	76	86	39-125	13	20	N2
Fluoranthene	ug/L	1	0.82	0.92	82	92	37-125	11	20	N2
Fluorene	ug/L	1	0.75	0.85	75	85	33-125	12	20	N2
Indeno(1,2,3-cd)pyrene	ug/L	1	0.89	0.75	89	75	31-125	17	20	N2
Naphthalene	ug/L	1	0.86	0.99	86	99	37-125	14	20	N2
Phenanthrene	ug/L	1	0.76	0.87	76	87	37-125	13	20	N2
Pyrene	ug/L	1	0.74	0.84	74	84	35-125	13	20	N2
2-Fluorobiphenyl (S)	%				79	91	30-136			N2
p-Terphenyl-d14 (S)	%				81	93	30-125			N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386678

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

### ANALYTE QUALIFIERS

1M Reanalysis conducted in excess of EPA method holding time. Results do not confirm original analysis performed in hold time.

B Analyte was detected in the associated method blank.

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

MN The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

N2 The lab does not hold NELAC/TNI accreditation for this parameter.

R1 RPD value was outside control limits.

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 2118-0002 Superior MGP  
Pace Project No.: 10386678

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10386678001	MW-1	EPA Mod. 3510C	471486	EPA 8270D by HVI	472720
10386678002	MW-2	EPA Mod. 3510C	471486	EPA 8270D by HVI	472720
10386678003	MW-9	EPA Mod. 3510C	471486	EPA 8270D by HVI	472720
10386678004	MW-10	EPA Mod. 3510C	471486	EPA 8270D by HVI	472720
10386678005	MW-12	EPA Mod. 3510C	471486	EPA 8270D by HVI	472720
10386678006	MW-14	EPA Mod. 3510C	471486	EPA 8270D by HVI	472720
10386678007	MW-15	EPA Mod. 3510C	471486	EPA 8270D by HVI	472720
10386678008	MW-16	EPA Mod. 3510C	471486	EPA 8270D by HVI	472720
10386678009	MW-17	EPA Mod. 3510C	471486	EPA 8270D by HVI	472720
10386678010	MW-20	EPA Mod. 3510C	471486	EPA 8270D by HVI	472720
10386678011	MW-21	EPA Mod. 3510C	471486	EPA 8270D by HVI	472720
10386678012	MW-21D	EPA Mod. 3510C	471486	EPA 8270D by HVI	472720
10386678013	MW-22	EPA Mod. 3510C	471486	EPA 8270D by HVI	472720
10386678001	MW-1	EPA 8260B	472067		
10386678002	MW-2	EPA 8260B	472067		
10386678003	MW-9	EPA 8260B	472223		
10386678004	MW-10	EPA 8260B	472067		
10386678005	MW-12	EPA 8260B	472067		
10386678006	MW-14	EPA 8260B	472067		
10386678007	MW-15	EPA 8260B	472067		
10386678008	MW-16	EPA 8260B	472067		
10386678009	MW-17	EPA 8260B	472067		
10386678010	MW-20	EPA 8260B	472223		
10386678011	MW-21	EPA 8260B	472223		
10386678012	MW-21D	EPA 8260B	472223		
10386678013	MW-22	EPA 8260B	472223		
10386678014	TRIP BLANK	EPA 8260B	472067		

**REPORT OF LABORATORY ANALYSIS**

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**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1038 6678

**Section A**  
Required Client Information:  
Company: Summit Environmental Inc  
Address: \_\_\_\_\_  
Report To: Bill Greig  
Copy To: \_\_\_\_\_  
Purchase Order No.: \_\_\_\_\_  
Project Name: Superior MGP  
Project Number: 2118-0002  
Requested Due Date/TAT: std.

**Section B**  
Required Project Information:  
Report To: Bill Greig  
Company Name: Bill Greig  
Address: \_\_\_\_\_  
Purchase Order No.: \_\_\_\_\_  
Project Name: Superior MGP  
Project Number: 2118-0002

**Section C**  
Invoice Information:  
Attention: Bill Greig  
Company Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Purchase Order No.: \_\_\_\_\_  
Project Name: Superior MGP  
Project Number: 2118-0002

**Section D**  
Required Client Information:  
Company Name: Summit Environmental Inc  
Address: \_\_\_\_\_  
Purchase Order No.: \_\_\_\_\_  
Project Name: Superior MGP  
Project Number: 2118-0002

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER UR 700's

Site Location: WI  
STATE: \_\_\_\_\_

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE TYPE (G=GRAB C=COMP)	DATE & TIME COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test ↑	Requested Analysis Filtered (Y/N)	Temp in °C	Received on	Sealed Cooler (Y/N)	Samples Intact (Y/N)
				DATE	TIME									
1	MW-22	Drinking Water	WATER	4/25	1655		3	Unpreserved	PAH					
2	MW-2	Water	WATER	4/24	1530		1	Unpreserved						
3	MW-9	Waste Water	WATER	4/25	1640		1	Unpreserved						
4	MW-10	Product	WATER	4/25	1340		1	Unpreserved						
5	MW-12	Soil/Solid	WATER	4/25	1040		1	Unpreserved						
6	MW-14	Oil	WATER	4/25	1530		1	Unpreserved						
7	MW-15	Wipe	WATER	4/25	1130		1	Unpreserved						
8	MW-16	Air	WATER	4/25	1000		1	Unpreserved						
9	MW-17	Tissue	WATER	4/25	0900		1	Unpreserved						
10	MW-20	Other	WATER	4/25	1230		1	Unpreserved						
11	MW-21		WATER	4/25	0820		1	Unpreserved						
12	MW-21D		WATER	4/25	0800		1	Unpreserved						

**ADDITIONAL COMMENTS**  
 Relinquished by: William M. Hoyle DATE: 4/26/17 TIME: 9:55  
 Relinquished by: William Hoyle DATE: 4/27/17 TIME: 14:15  
 Relinquished by: William Hoyle DATE: 4/27/17 TIME: 18:50

**ACCEPTED BY / AFFILIATION**  
 Accepted by: William Hoyle DATE: 4/26/17 TIME: 0955  
 Accepted by: William Hoyle DATE: 4/27/17 TIME: 1415  
 Accepted by: William Hoyle DATE: 4/27/17 TIME: 1850

**DATE SIGNED (MM/DD/YY):** 4/26/17

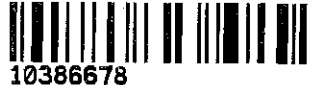
**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Kyle Renas  
 SIGNATURE of SAMPLER: [Signature]

**ORIGINAL**

**Sample Condition Upon Receipt**

Client Name: Scammot Enviro Solutions

Project #: **WO# : 10386678**



10386678

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  SpeeDee  Other: \_\_\_\_\_

Tracking Number: \_\_\_\_\_

Custody Seal on Cooler/Box Present?  Yes  No      Seals Intact?  Yes  No      Optional: Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_      Temp Blank?  Yes  No

Thermometer Used:  151401163  151401164      Type of ice:  Wet  Blue  None  Samples on ice, cooling process has begun

Cooler Temp Read (°C): 4.1      Cooler Temp Corrected (°C): 4.6      Biological Tissue Frozen?  Yes  No  N/A  
 Temp should be above freezing to 6°C      Correction Factor: +0.2      Date and Initials of Person Examining Contents: CSG 4/27/17

USDA Regulated Soil (  N/A, water sample)  
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No      Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No  
**If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.**

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
- Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , >2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/BO15 (water) and Dioxin. <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
Headspace in VOA Vials (>6mm)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed: _____ Lot # of added preservative: _____
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>3/3 vials for MW-1, MW-2, MW-12</u>
Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15. <u>2/3 vials for MW-14 hold 26 min</u>
Pace Trip Blank Lot # (if purchased): <u>N6606</u>	

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/Resolution: \_\_\_\_\_

**Project Manager Review:** \_\_\_\_\_

Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

May 15, 2017

Bill Gregg  
Summit Envirosolutions  
1217 Bandana Blvd  
Saint Paul, MN 55108

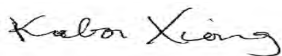
RE: Project: 2118-0002 Superior MGP  
Pace Project No.: 10386679

Dear Bill Gregg:

Enclosed are the analytical results for sample(s) received by the laboratory on April 27, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kabor Xiong  
kabor.xiong@pacelabs.com  
(612)607-6347  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

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### Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: UST-078

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas Certification #: 88-0680

California Certification #: MN00064

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia WW Certification #: 382

Wisconsin Certification #: 999407970

Wyoming via EPA Region 8 Certification #: 8TMS-L

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10386679001	MW-4_20170424	Water	04/24/17 15:45	04/27/17 18:50
10386679002	MW-13_20170424	Water	04/24/17 17:10	04/27/17 18:50
10386679003	MW-7_20170425	Water	04/25/17 08:20	04/27/17 18:50
10386679004	MW-6-20170425	Water	04/25/17 09:40	04/27/17 18:50
10386679005	MW-5-20170425	Water	04/25/17 10:45	04/27/17 18:50
10386679006	MW-26-20170425	Water	04/25/17 12:40	04/27/17 18:50
10386679007	MW-11-20170425	Water	04/25/17 13:45	04/27/17 18:50
10386679008	MW-23-20170425	Water	04/25/17 14:40	04/27/17 18:50
10386679009	MW-24-20170425	Water	04/25/17 15:30	04/27/17 18:50
10386679010	MW-8-20170425	Water	04/25/17 15:20	04/27/17 18:50
10386679011	MW-8D-20170425	Water	04/25/17 15:20	04/27/17 18:50
10386679012	MW-25-20170426	Water	04/26/17 08:20	04/27/17 18:50

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2118-0002 Superior MGP  
Pace Project No.: 10386679

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10386679001	MW-4_20170424	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386679002	MW-13_20170424	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386679003	MW-7_20170425	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386679004	MW-6-20170425	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386679005	MW-5-20170425	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386679006	MW-26-20170425	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386679007	MW-11-20170425	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386679008	MW-23-20170425	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386679009	MW-24-20170425	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386679010	MW-8-20170425	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	DJB	70	PASI-M
10386679011	MW-8D-20170425	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M
10386679012	MW-25-20170426	EPA 8270D by HVI	JLR	23	PASI-M
		EPA 8260B	PRD	70	PASI-M

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Sample: **MW-4\_20170424** Lab ID: **10386679001** Collected: 04/24/17 15:45 Received: 04/27/17 18:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI Preparation Method: EPA Mod. 3510C									
Acenaphthene	<0.040	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 19:10	83-32-9	N2
Acenaphthylene	<0.040	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 19:10	208-96-8	N2
Anthracene	<0.040	ug/L	0.040	0.0082	1	05/01/17 14:11	05/12/17 19:10	120-12-7	N2
Benzo(a)anthracene	<0.040	ug/L	0.040	0.0098	1	05/01/17 14:11	05/12/17 19:10	56-55-3	N2
Benzo(a)pyrene	<0.040	ug/L	0.040	0.0025	1	05/01/17 14:11	05/12/17 19:10	50-32-8	N2
Benzo(b)fluoranthene	<0.040	ug/L	0.040	0.0017	1	05/01/17 14:11	05/12/17 19:10	205-99-2	N2
Benzo(e)pyrene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 19:10	192-97-2	N2
Benzo(g,h,i)perylene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 19:10	191-24-2	N2
Benzo(k)fluoranthene	<0.040	ug/L	0.040	0.0099	1	05/01/17 14:11	05/12/17 19:10	207-08-9	N2
2-Chloronaphthalene	<0.040	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 19:10	91-58-7	N2
Chrysene	<0.040	ug/L	0.040	0.0024	1	05/01/17 14:11	05/12/17 19:10	218-01-9	N2
Dibenz(a,h)anthracene	<0.040	ug/L	0.040	0.0079	1	05/01/17 14:11	05/12/17 19:10	53-70-3	L2,N2
Dibenzofuran	<0.040	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 19:10	132-64-9	N2
Fluoranthene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 19:10	206-44-0	N2
Fluorene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 19:10	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.040	ug/L	0.040	0.0014	1	05/01/17 14:11	05/12/17 19:10	193-39-5	N2
1-Methylnaphthalene	<0.040	ug/L	0.040	0.0069	1	05/01/17 14:11	05/12/17 19:10	90-12-0	N2
2-Methylnaphthalene	<0.040	ug/L	0.040	0.011	1	05/01/17 14:11	05/12/17 19:10	91-57-6	N2
Naphthalene	1.3	ug/L	0.16	0.012	1	05/01/17 14:11	05/12/17 19:10	91-20-3	N2
Phenanthrene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 19:10	85-01-8	N2
Pyrene	<0.040	ug/L	0.040	0.0029	1	05/01/17 14:11	05/12/17 19:10	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	65	%	30-136		1	05/01/17 14:11	05/12/17 19:10	321-60-8	N2
p-Terphenyl-d14 (S)	76	%	30-125		1	05/01/17 14:11	05/12/17 19:10	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<10000	ug/L	10000	1000	500		05/03/17 23:11	67-64-1	L2
Allyl chloride	<2000	ug/L	2000	125	500		05/03/17 23:11	107-05-1	
Benzene	186000	ug/L	2500	388	2500		05/04/17 15:07	71-43-2	
Bromobenzene	<500	ug/L	500	168	500		05/03/17 23:11	108-86-1	
Bromochloromethane	<500	ug/L	500	93.0	500		05/03/17 23:11	74-97-5	
Bromodichloromethane	<500	ug/L	500	120	500		05/03/17 23:11	75-27-4	
Bromoform	<2000	ug/L	2000	137	500		05/03/17 23:11	75-25-2	
Bromomethane	<5000	ug/L	5000	222	500		05/03/17 23:11	74-83-9	
2-Butanone (MEK)	<2500	ug/L	2500	550	500		05/03/17 23:11	78-93-3	
n-Butylbenzene	<500	ug/L	500	80.0	500		05/03/17 23:11	104-51-8	
sec-Butylbenzene	<2000	ug/L	2000	94.5	500		05/03/17 23:11	135-98-8	
tert-Butylbenzene	<500	ug/L	500	112	500		05/03/17 23:11	98-06-6	
Carbon tetrachloride	<500	ug/L	500	98.5	500		05/03/17 23:11	56-23-5	
Chlorobenzene	<500	ug/L	500	57.0	500		05/03/17 23:11	108-90-7	
Chloroethane	<500	ug/L	500	171	500		05/03/17 23:11	75-00-3	
Chloroform	<500	ug/L	500	105	500		05/03/17 23:11	67-66-3	
Chloromethane	<2000	ug/L	2000	123	500		05/03/17 23:11	74-87-3	
2-Chlorotoluene	<500	ug/L	500	148	500		05/03/17 23:11	95-49-8	
4-Chlorotoluene	<500	ug/L	500	128	500		05/03/17 23:11	106-43-4	
1,2-Dibromo-3-chloropropane	<2000	ug/L	2000	300	500		05/03/17 23:11	96-12-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Sample: **MW-4\_20170424** Lab ID: **10386679001** Collected: 04/24/17 15:45 Received: 04/27/17 18:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Dibromochloromethane	<500	ug/L	500	78.5	500		05/03/17 23:11	124-48-1	
1,2-Dibromoethane (EDB)	<500	ug/L	500	100	500		05/03/17 23:11	106-93-4	
Dibromomethane	<2000	ug/L	2000	97.0	500		05/03/17 23:11	74-95-3	
1,2-Dichlorobenzene	<500	ug/L	500	85.5	500		05/03/17 23:11	95-50-1	
1,3-Dichlorobenzene	<500	ug/L	500	57.5	500		05/03/17 23:11	541-73-1	
1,4-Dichlorobenzene	<500	ug/L	500	106	500		05/03/17 23:11	106-46-7	
Dichlorodifluoromethane	<500	ug/L	500	113	500		05/03/17 23:11	75-71-8	
1,1-Dichloroethane	<500	ug/L	500	85.5	500		05/03/17 23:11	75-34-3	
1,2-Dichloroethane	<500	ug/L	500	85.0	500		05/03/17 23:11	107-06-2	
1,1-Dichloroethene	<500	ug/L	500	138	500		05/03/17 23:11	75-35-4	
cis-1,2-Dichloroethene	<500	ug/L	500	60.0	500		05/03/17 23:11	156-59-2	
trans-1,2-Dichloroethene	<500	ug/L	500	81.0	500		05/03/17 23:11	156-60-5	
Dichlorofluoromethane	<500	ug/L	500	107	500		05/03/17 23:11	75-43-4	
1,2-Dichloropropane	<2000	ug/L	2000	111	500		05/03/17 23:11	78-87-5	
1,3-Dichloropropane	<500	ug/L	500	48.0	500		05/03/17 23:11	142-28-9	
2,2-Dichloropropane	<2000	ug/L	2000	64.0	500		05/03/17 23:11	594-20-7	
1,1-Dichloropropene	<500	ug/L	500	114	500		05/03/17 23:11	563-58-6	
cis-1,3-Dichloropropene	<2000	ug/L	2000	75.0	500		05/03/17 23:11	10061-01-5	
trans-1,3-Dichloropropene	<2000	ug/L	2000	73.5	500		05/03/17 23:11	10061-02-6	
Diethyl ether (Ethyl ether)	<2000	ug/L	2000	97.0	500		05/03/17 23:11	60-29-7	
Ethylbenzene	<500	ug/L	500	76.0	500		05/03/17 23:11	100-41-4	
Hexachloro-1,3-butadiene	<2000	ug/L	2000	89.0	500		05/03/17 23:11	87-68-3	
Isopropylbenzene (Cumene)	<500	ug/L	500	126	500		05/03/17 23:11	98-82-8	
p-Isopropyltoluene	<2000	ug/L	2000	97.0	500		05/03/17 23:11	99-87-6	
Methylene Chloride	<2000	ug/L	2000	146	500		05/03/17 23:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	<2500	ug/L	2500	216	500		05/03/17 23:11	108-10-1	
Methyl-tert-butyl ether	<500	ug/L	500	74.5	500		05/03/17 23:11	1634-04-4	
Naphthalene	<2000	ug/L	2000	102	500		05/03/17 23:11	91-20-3	
n-Propylbenzene	<500	ug/L	500	116	500		05/03/17 23:11	103-65-1	
Styrene	<500	ug/L	500	143	500		05/03/17 23:11	100-42-5	
1,1,1,2-Tetrachloroethane	<500	ug/L	500	83.0	500		05/03/17 23:11	630-20-6	
1,1,2,2-Tetrachloroethane	<500	ug/L	500	112	500		05/03/17 23:11	79-34-5	
Tetrachloroethene	<500	ug/L	500	126	500		05/03/17 23:11	127-18-4	
Tetrahydrofuran	<5000	ug/L	5000	750	500		05/03/17 23:11	109-99-9	
Toluene	1250	ug/L	500	72.5	500		05/03/17 23:11	108-88-3	
1,2,3-Trichlorobenzene	<500	ug/L	500	106	500		05/03/17 23:11	87-61-6	
1,2,4-Trichlorobenzene	<500	ug/L	500	106	500		05/03/17 23:11	120-82-1	
1,1,1-Trichloroethane	<2000	ug/L	2000	85.0	500		05/03/17 23:11	71-55-6	
1,1,2-Trichloroethane	<500	ug/L	500	76.0	500		05/03/17 23:11	79-00-5	
Trichloroethene	<200	ug/L	200	26.0	500		05/03/17 23:11	79-01-6	
Trichlorofluoromethane	<500	ug/L	500	163	500		05/03/17 23:11	75-69-4	
1,2,3-Trichloropropane	<2000	ug/L	2000	142	500		05/03/17 23:11	96-18-4	
1,1,2-Trichlorotrifluoroethane	<5000	ug/L	5000	160	500		05/03/17 23:11	76-13-1	
1,2,4-Trimethylbenzene	<500	ug/L	500	89.0	500		05/03/17 23:11	95-63-6	
1,3,5-Trimethylbenzene	<500	ug/L	500	134	500		05/03/17 23:11	108-67-8	
Vinyl chloride	<100	ug/L	100	34.5	500		05/03/17 23:11	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

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**Sample: MW-4\_20170424**      **Lab ID: 10386679001**      Collected: 04/24/17 15:45      Received: 04/27/17 18:50      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>	Analytical Method: EPA 8260B								
Xylene (Total)	<1500	ug/L	1500	158	500		05/03/17 23:11	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-137		500		05/03/17 23:11	17060-07-0	
Toluene-d8 (S)	101	%	75-125		500		05/03/17 23:11	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		500		05/03/17 23:11	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Sample: MW-13\_20170424 Lab ID: 10386679002 Collected: 04/24/17 17:10 Received: 04/27/17 18:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI					Preparation Method: EPA Mod. 3510C				
Acenaphthene	<0.040	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 19:31	83-32-9	N2
Acenaphthylene	<0.040	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 19:31	208-96-8	N2
Anthracene	<0.040	ug/L	0.040	0.0082	1	05/01/17 14:11	05/12/17 19:31	120-12-7	N2
Benzo(a)anthracene	<0.040	ug/L	0.040	0.0098	1	05/01/17 14:11	05/12/17 19:31	56-55-3	N2
Benzo(a)pyrene	<0.040	ug/L	0.040	0.0025	1	05/01/17 14:11	05/12/17 19:31	50-32-8	N2
Benzo(b)fluoranthene	<0.040	ug/L	0.040	0.0017	1	05/01/17 14:11	05/12/17 19:31	205-99-2	N2
Benzo(e)pyrene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 19:31	192-97-2	N2
Benzo(g,h,i)perylene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 19:31	191-24-2	N2
Benzo(k)fluoranthene	<0.040	ug/L	0.040	0.0099	1	05/01/17 14:11	05/12/17 19:31	207-08-9	N2
2-Chloronaphthalene	<0.040	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 19:31	91-58-7	N2
Chrysene	<0.040	ug/L	0.040	0.0024	1	05/01/17 14:11	05/12/17 19:31	218-01-9	N2
Dibenz(a,h)anthracene	<0.040	ug/L	0.040	0.0079	1	05/01/17 14:11	05/12/17 19:31	53-70-3	L2,N2
Dibenzofuran	<0.040	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 19:31	132-64-9	N2
Fluoranthene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 19:31	206-44-0	N2
Fluorene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 19:31	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.040	ug/L	0.040	0.0014	1	05/01/17 14:11	05/12/17 19:31	193-39-5	N2
1-Methylnaphthalene	<0.040	ug/L	0.040	0.0069	1	05/01/17 14:11	05/12/17 19:31	90-12-0	N2
2-Methylnaphthalene	<0.040	ug/L	0.040	0.011	1	05/01/17 14:11	05/12/17 19:31	91-57-6	N2
Naphthalene	<0.16	ug/L	0.16	0.012	1	05/01/17 14:11	05/12/17 19:31	91-20-3	N2
Phenanthrene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 19:31	85-01-8	N2
Pyrene	<0.040	ug/L	0.040	0.0029	1	05/01/17 14:11	05/12/17 19:31	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	74	%	30-136		1	05/01/17 14:11	05/12/17 19:31	321-60-8	N2
p-Terphenyl-d14 (S)	86	%	30-125		1	05/01/17 14:11	05/12/17 19:31	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		05/03/17 20:14	67-64-1	L2
Allyl chloride	<4.0	ug/L	4.0	0.25	1		05/03/17 20:14	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		05/03/17 20:14	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		05/03/17 20:14	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		05/03/17 20:14	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		05/03/17 20:14	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		05/03/17 20:14	75-25-2	
Bromomethane	<10.0	ug/L	10.0	0.44	1		05/03/17 20:14	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		05/03/17 20:14	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		05/03/17 20:14	104-51-8	
sec-Butylbenzene	<4.0	ug/L	4.0	0.19	1		05/03/17 20:14	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		05/03/17 20:14	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		05/03/17 20:14	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		05/03/17 20:14	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.34	1		05/03/17 20:14	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		05/03/17 20:14	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		05/03/17 20:14	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		05/03/17 20:14	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		05/03/17 20:14	106-43-4	
1,2-Dibromo-3-chloropropane	<4.0	ug/L	4.0	0.60	1		05/03/17 20:14	96-12-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Sample: **MW-13\_20170424** Lab ID: **10386679002** Collected: 04/24/17 17:10 Received: 04/27/17 18:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<1.0	ug/L	1.0	0.16	1		05/03/17 20:14	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		05/03/17 20:14	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		05/03/17 20:14	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		05/03/17 20:14	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		05/03/17 20:14	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/03/17 20:14	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		05/03/17 20:14	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		05/03/17 20:14	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		05/03/17 20:14	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		05/03/17 20:14	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		05/03/17 20:14	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		05/03/17 20:14	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		05/03/17 20:14	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		05/03/17 20:14	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		05/03/17 20:14	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		05/03/17 20:14	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		05/03/17 20:14	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		05/03/17 20:14	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		05/03/17 20:14	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		05/03/17 20:14	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		05/03/17 20:14	100-41-4	
Hexachloro-1,3-butadiene	<4.0	ug/L	4.0	0.18	1		05/03/17 20:14	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		05/03/17 20:14	98-82-8	
p-Isopropyltoluene	<4.0	ug/L	4.0	0.19	1		05/03/17 20:14	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		05/03/17 20:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		05/03/17 20:14	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		05/03/17 20:14	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		05/03/17 20:14	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		05/03/17 20:14	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		05/03/17 20:14	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		05/03/17 20:14	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		05/03/17 20:14	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		05/03/17 20:14	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		05/03/17 20:14	109-99-9	
Toluene	5.2	ug/L	1.0	0.14	1		05/03/17 20:14	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/03/17 20:14	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/03/17 20:14	120-82-1	
1,1,1-Trichloroethane	<4.0	ug/L	4.0	0.17	1		05/03/17 20:14	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		05/03/17 20:14	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		05/03/17 20:14	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		05/03/17 20:14	75-69-4	
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		05/03/17 20:14	96-18-4	
1,1,2-Trichlorotrifluoroethane	<10.0	ug/L	10.0	0.32	1		05/03/17 20:14	76-13-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		05/03/17 20:14	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		05/03/17 20:14	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		05/03/17 20:14	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

**Sample: MW-13\_20170424**      **Lab ID: 10386679002**      Collected: 04/24/17 17:10      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<3.0	ug/L	3.0	0.32	1		05/03/17 20:14	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	101	%	75-137		1		05/03/17 20:14	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1		05/03/17 20:14	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1		05/03/17 20:14	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Sample: MW-7\_20170425 Lab ID: 10386679003 Collected: 04/25/17 08:20 Received: 04/27/17 18:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI Preparation Method: EPA Mod. 3510C									
Acenaphthene	1.3	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 19:52	83-32-9	N2
Acenaphthylene	0.44	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 19:52	208-96-8	N2
Anthracene	0.22	ug/L	0.040	0.0082	1	05/01/17 14:11	05/12/17 19:52	120-12-7	N2
Benzo(a)anthracene	<0.040	ug/L	0.040	0.0098	1	05/01/17 14:11	05/12/17 19:52	56-55-3	N2
Benzo(a)pyrene	0.048	ug/L	0.040	0.0025	1	05/01/17 14:11	05/12/17 19:52	50-32-8	N2
Benzo(b)fluoranthene	0.043	ug/L	0.040	0.0017	1	05/01/17 14:11	05/12/17 19:52	205-99-2	N2
Benzo(e)pyrene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 19:52	192-97-2	N2
Benzo(g,h,i)perylene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 19:52	191-24-2	N2
Benzo(k)fluoranthene	<0.040	ug/L	0.040	0.0099	1	05/01/17 14:11	05/12/17 19:52	207-08-9	N2
2-Chloronaphthalene	<0.040	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 19:52	91-58-7	N2
Chrysene	<0.040	ug/L	0.040	0.0024	1	05/01/17 14:11	05/12/17 19:52	218-01-9	N2
Dibenz(a,h)anthracene	<0.040	ug/L	0.040	0.0079	1	05/01/17 14:11	05/12/17 19:52	53-70-3	L2,N2
Dibenzofuran	<0.040	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 19:52	132-64-9	N2
Fluoranthene	0.24	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 19:52	206-44-0	N2
Fluorene	0.62	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 19:52	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.040	ug/L	0.040	0.0014	1	05/01/17 14:11	05/12/17 19:52	193-39-5	N2
1-Methylnaphthalene	1.5	ug/L	0.040	0.0069	1	05/01/17 14:11	05/12/17 19:52	90-12-0	N2
2-Methylnaphthalene	1.7	ug/L	0.040	0.011	1	05/01/17 14:11	05/12/17 19:52	91-57-6	N2
Naphthalene	81.9	ug/L	8.0	0.60	50	05/01/17 14:11	05/15/17 10:41	91-20-3	N2
Phenanthrene	0.84	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 19:52	85-01-8	N2
Pyrene	0.27	ug/L	0.040	0.0029	1	05/01/17 14:11	05/12/17 19:52	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	60	%	30-136		1	05/01/17 14:11	05/12/17 19:52	321-60-8	N2
p-Terphenyl-d14 (S)	50	%	30-125		1	05/01/17 14:11	05/12/17 19:52	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<5000	ug/L	5000	502	250		05/05/17 03:25	67-64-1	L2
Allyl chloride	<1000	ug/L	1000	62.5	250		05/05/17 03:25	107-05-1	
Benzene	32800	ug/L	250	38.8	250		05/05/17 03:25	71-43-2	
Bromobenzene	<250	ug/L	250	84.2	250		05/05/17 03:25	108-86-1	
Bromochloromethane	<250	ug/L	250	46.5	250		05/05/17 03:25	74-97-5	
Bromodichloromethane	<250	ug/L	250	60.0	250		05/05/17 03:25	75-27-4	
Bromoform	<1000	ug/L	1000	68.5	250		05/05/17 03:25	75-25-2	
Bromomethane	<2500	ug/L	2500	111	250		05/05/17 03:25	74-83-9	
2-Butanone (MEK)	<1250	ug/L	1250	275	250		05/05/17 03:25	78-93-3	
n-Butylbenzene	<250	ug/L	250	40.0	250		05/05/17 03:25	104-51-8	
sec-Butylbenzene	<1000	ug/L	1000	47.2	250		05/05/17 03:25	135-98-8	
tert-Butylbenzene	<250	ug/L	250	55.8	250		05/05/17 03:25	98-06-6	
Carbon tetrachloride	<250	ug/L	250	49.2	250		05/05/17 03:25	56-23-5	
Chlorobenzene	<250	ug/L	250	28.5	250		05/05/17 03:25	108-90-7	
Chloroethane	<250	ug/L	250	85.5	250		05/05/17 03:25	75-00-3	
Chloroform	<250	ug/L	250	52.5	250		05/05/17 03:25	67-66-3	
Chloromethane	<1000	ug/L	1000	61.5	250		05/05/17 03:25	74-87-3	
2-Chlorotoluene	<250	ug/L	250	73.8	250		05/05/17 03:25	95-49-8	
4-Chlorotoluene	<250	ug/L	250	63.8	250		05/05/17 03:25	106-43-4	
1,2-Dibromo-3-chloropropane	<1000	ug/L	1000	150	250		05/05/17 03:25	96-12-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Sample: **MW-7\_20170425** Lab ID: **10386679003** Collected: 04/25/17 08:20 Received: 04/27/17 18:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<250	ug/L	250	39.2	250		05/05/17 03:25	124-48-1	
1,2-Dibromoethane (EDB)	<250	ug/L	250	50.0	250		05/05/17 03:25	106-93-4	
Dibromomethane	<1000	ug/L	1000	48.5	250		05/05/17 03:25	74-95-3	
1,2-Dichlorobenzene	<250	ug/L	250	42.8	250		05/05/17 03:25	95-50-1	
1,3-Dichlorobenzene	<250	ug/L	250	28.8	250		05/05/17 03:25	541-73-1	
1,4-Dichlorobenzene	<250	ug/L	250	52.8	250		05/05/17 03:25	106-46-7	
Dichlorodifluoromethane	<250	ug/L	250	56.5	250		05/05/17 03:25	75-71-8	
1,1-Dichloroethane	<250	ug/L	250	42.8	250		05/05/17 03:25	75-34-3	
1,2-Dichloroethane	<250	ug/L	250	42.5	250		05/05/17 03:25	107-06-2	
1,1-Dichloroethene	<250	ug/L	250	69.2	250		05/05/17 03:25	75-35-4	
cis-1,2-Dichloroethene	<250	ug/L	250	30.0	250		05/05/17 03:25	156-59-2	
trans-1,2-Dichloroethene	<250	ug/L	250	40.5	250		05/05/17 03:25	156-60-5	
Dichlorofluoromethane	<250	ug/L	250	53.5	250		05/05/17 03:25	75-43-4	
1,2-Dichloropropane	<1000	ug/L	1000	55.5	250		05/05/17 03:25	78-87-5	
1,3-Dichloropropane	<250	ug/L	250	24.0	250		05/05/17 03:25	142-28-9	
2,2-Dichloropropane	<1000	ug/L	1000	32.0	250		05/05/17 03:25	594-20-7	
1,1-Dichloropropene	<250	ug/L	250	56.8	250		05/05/17 03:25	563-58-6	
cis-1,3-Dichloropropene	<1000	ug/L	1000	37.5	250		05/05/17 03:25	10061-01-5	
trans-1,3-Dichloropropene	<1000	ug/L	1000	36.8	250		05/05/17 03:25	10061-02-6	
Diethyl ether (Ethyl ether)	<1000	ug/L	1000	48.5	250		05/05/17 03:25	60-29-7	
Ethylbenzene	1480	ug/L	250	38.0	250		05/05/17 03:25	100-41-4	
Hexachloro-1,3-butadiene	<1000	ug/L	1000	44.5	250		05/05/17 03:25	87-68-3	
Isopropylbenzene (Cumene)	<250	ug/L	250	63.2	250		05/05/17 03:25	98-82-8	
p-Isopropyltoluene	<1000	ug/L	1000	48.5	250		05/05/17 03:25	99-87-6	
Methylene Chloride	<1000	ug/L	1000	73.2	250		05/05/17 03:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1250	ug/L	1250	108	250		05/05/17 03:25	108-10-1	
Methyl-tert-butyl ether	<250	ug/L	250	37.2	250		05/05/17 03:25	1634-04-4	
Naphthalene	<1000	ug/L	1000	51.0	250		05/05/17 03:25	91-20-3	
n-Propylbenzene	<250	ug/L	250	58.2	250		05/05/17 03:25	103-65-1	
Styrene	320	ug/L	250	71.5	250		05/05/17 03:25	100-42-5	
1,1,1,2-Tetrachloroethane	<250	ug/L	250	41.5	250		05/05/17 03:25	630-20-6	
1,1,2,2-Tetrachloroethane	<250	ug/L	250	56.2	250		05/05/17 03:25	79-34-5	
Tetrachloroethene	<250	ug/L	250	63.2	250		05/05/17 03:25	127-18-4	
Tetrahydrofuran	<2500	ug/L	2500	375	250		05/05/17 03:25	109-99-9	
Toluene	16200	ug/L	250	36.2	250		05/05/17 03:25	108-88-3	
1,2,3-Trichlorobenzene	<250	ug/L	250	53.2	250		05/05/17 03:25	87-61-6	
1,2,4-Trichlorobenzene	<250	ug/L	250	53.2	250		05/05/17 03:25	120-82-1	
1,1,1-Trichloroethane	<1000	ug/L	1000	42.5	250		05/05/17 03:25	71-55-6	
1,1,2-Trichloroethane	<250	ug/L	250	38.0	250		05/05/17 03:25	79-00-5	
Trichloroethene	<100	ug/L	100	13.0	250		05/05/17 03:25	79-01-6	
Trichlorofluoromethane	<250	ug/L	250	81.5	250		05/05/17 03:25	75-69-4	
1,2,3-Trichloropropane	<1000	ug/L	1000	71.0	250		05/05/17 03:25	96-18-4	
1,1,2-Trichlorotrifluoroethane	<2500	ug/L	2500	80.0	250		05/05/17 03:25	76-13-1	
1,2,4-Trimethylbenzene	<250	ug/L	250	44.5	250		05/05/17 03:25	95-63-6	
1,3,5-Trimethylbenzene	<250	ug/L	250	67.2	250		05/05/17 03:25	108-67-8	
Vinyl chloride	<50.0	ug/L	50.0	17.2	250		05/05/17 03:25	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

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**Sample: MW-7\_20170425**      **Lab ID: 10386679003**      Collected: 04/25/17 08:20      Received: 04/27/17 18:50      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<b>6760</b>	ug/L	750	78.8	250		05/05/17 03:25	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-137		250		05/05/17 03:25	17060-07-0	
Toluene-d8 (S)	100	%	75-125		250		05/05/17 03:25	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		250		05/05/17 03:25	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

**Sample: MW-6-20170425**      **Lab ID: 10386679004**      Collected: 04/25/17 09:40      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI      Preparation Method: EPA Mod. 3510C									
Acenaphthene	1.1	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 20:13	83-32-9	N2
Acenaphthylene	0.070	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 20:13	208-96-8	N2
Anthracene	0.095	ug/L	0.040	0.0082	1	05/01/17 14:11	05/12/17 20:13	120-12-7	N2
Benzo(a)anthracene	<0.040	ug/L	0.040	0.0098	1	05/01/17 14:11	05/12/17 20:13	56-55-3	N2
Benzo(a)pyrene	<0.040	ug/L	0.040	0.0025	1	05/01/17 14:11	05/12/17 20:13	50-32-8	N2
Benzo(b)fluoranthene	<0.040	ug/L	0.040	0.0017	1	05/01/17 14:11	05/12/17 20:13	205-99-2	N2
Benzo(e)pyrene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 20:13	192-97-2	N2
Benzo(g,h,i)perylene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 20:13	191-24-2	N2
Benzo(k)fluoranthene	<0.040	ug/L	0.040	0.0099	1	05/01/17 14:11	05/12/17 20:13	207-08-9	N2
2-Chloronaphthalene	<0.040	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 20:13	91-58-7	N2
Chrysene	<0.040	ug/L	0.040	0.0024	1	05/01/17 14:11	05/12/17 20:13	218-01-9	N2
Dibenz(a,h)anthracene	<0.040	ug/L	0.040	0.0079	1	05/01/17 14:11	05/12/17 20:13	53-70-3	L2,N2
Dibenzofuran	<0.040	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 20:13	132-64-9	N2
Fluoranthene	0.35	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 20:13	206-44-0	N2
Fluorene	0.083	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 20:13	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.040	ug/L	0.040	0.0014	1	05/01/17 14:11	05/12/17 20:13	193-39-5	N2
1-Methylnaphthalene	0.82	ug/L	0.040	0.0069	1	05/01/17 14:11	05/12/17 20:13	90-12-0	N2
2-Methylnaphthalene	0.47	ug/L	0.040	0.011	1	05/01/17 14:11	05/12/17 20:13	91-57-6	N2
Naphthalene	2.9	ug/L	0.16	0.012	1	05/01/17 14:11	05/12/17 20:13	91-20-3	N2
Phenanthrene	0.77	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 20:13	85-01-8	N2
Pyrene	0.39	ug/L	0.040	0.0029	1	05/01/17 14:11	05/12/17 20:13	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	65	%	30-136		1	05/01/17 14:11	05/12/17 20:13	321-60-8	N2
p-Terphenyl-d14 (S)	73	%	30-125		1	05/01/17 14:11	05/12/17 20:13	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	46.4	ug/L	20.0	2.0	1		05/05/17 01:00	67-64-1	L2
Allyl chloride	<4.0	ug/L	4.0	0.25	1		05/05/17 01:00	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		05/05/17 01:00	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		05/05/17 01:00	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		05/05/17 01:00	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		05/05/17 01:00	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		05/05/17 01:00	75-25-2	
Bromomethane	<10.0	ug/L	10.0	0.44	1		05/05/17 01:00	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		05/05/17 01:00	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		05/05/17 01:00	104-51-8	
sec-Butylbenzene	<4.0	ug/L	4.0	0.19	1		05/05/17 01:00	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		05/05/17 01:00	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		05/05/17 01:00	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		05/05/17 01:00	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.34	1		05/05/17 01:00	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		05/05/17 01:00	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		05/05/17 01:00	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		05/05/17 01:00	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		05/05/17 01:00	106-43-4	
1,2-Dibromo-3-chloropropane	<4.0	ug/L	4.0	0.60	1		05/05/17 01:00	96-12-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Sample: MW-6-20170425 Lab ID: 10386679004 Collected: 04/25/17 09:40 Received: 04/27/17 18:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<1.0	ug/L	1.0	0.16	1		05/05/17 01:00	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		05/05/17 01:00	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		05/05/17 01:00	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		05/05/17 01:00	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		05/05/17 01:00	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/05/17 01:00	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		05/05/17 01:00	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		05/05/17 01:00	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		05/05/17 01:00	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		05/05/17 01:00	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		05/05/17 01:00	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		05/05/17 01:00	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		05/05/17 01:00	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		05/05/17 01:00	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		05/05/17 01:00	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		05/05/17 01:00	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		05/05/17 01:00	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		05/05/17 01:00	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		05/05/17 01:00	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		05/05/17 01:00	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		05/05/17 01:00	100-41-4	
Hexachloro-1,3-butadiene	<4.0	ug/L	4.0	0.18	1		05/05/17 01:00	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		05/05/17 01:00	98-82-8	
p-Isopropyltoluene	<4.0	ug/L	4.0	0.19	1		05/05/17 01:00	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		05/05/17 01:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		05/05/17 01:00	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		05/05/17 01:00	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		05/05/17 01:00	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		05/05/17 01:00	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		05/05/17 01:00	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		05/05/17 01:00	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		05/05/17 01:00	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		05/05/17 01:00	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		05/05/17 01:00	109-99-9	
Toluene	4.7	ug/L	1.0	0.14	1		05/05/17 01:00	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/05/17 01:00	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/05/17 01:00	120-82-1	
1,1,1-Trichloroethane	<4.0	ug/L	4.0	0.17	1		05/05/17 01:00	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		05/05/17 01:00	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		05/05/17 01:00	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		05/05/17 01:00	75-69-4	
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		05/05/17 01:00	96-18-4	
1,1,2-Trichlorotrifluoroethane	<10.0	ug/L	10.0	0.32	1		05/05/17 01:00	76-13-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		05/05/17 01:00	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		05/05/17 01:00	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		05/05/17 01:00	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

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**Sample: MW-6-20170425**      **Lab ID: 10386679004**      Collected: 04/25/17 09:40      Received: 04/27/17 18:50      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>	Analytical Method: EPA 8260B								
Xylene (Total)	<3.0	ug/L	3.0	0.32	1		05/05/17 01:00	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	107	%	75-137		1		05/05/17 01:00	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1		05/05/17 01:00	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1		05/05/17 01:00	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Sample: **MW-5-20170425** Lab ID: **10386679005** Collected: 04/25/17 10:45 Received: 04/27/17 18:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI Preparation Method: EPA Mod. 3510C									
Acenaphthene	0.27	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 20:35	83-32-9	N2
Acenaphthylene	<0.040	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 20:35	208-96-8	N2
Anthracene	<0.040	ug/L	0.040	0.0082	1	05/01/17 14:11	05/12/17 20:35	120-12-7	N2
Benzo(a)anthracene	<0.040	ug/L	0.040	0.0098	1	05/01/17 14:11	05/12/17 20:35	56-55-3	N2
Benzo(a)pyrene	<0.040	ug/L	0.040	0.0025	1	05/01/17 14:11	05/12/17 20:35	50-32-8	N2
Benzo(b)fluoranthene	<0.040	ug/L	0.040	0.0017	1	05/01/17 14:11	05/12/17 20:35	205-99-2	N2
Benzo(e)pyrene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 20:35	192-97-2	N2
Benzo(g,h,i)perylene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 20:35	191-24-2	N2
Benzo(k)fluoranthene	<0.040	ug/L	0.040	0.0099	1	05/01/17 14:11	05/12/17 20:35	207-08-9	N2
2-Chloronaphthalene	0.24	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 20:35	91-58-7	N2
Chrysene	<0.040	ug/L	0.040	0.0024	1	05/01/17 14:11	05/12/17 20:35	218-01-9	N2
Dibenz(a,h)anthracene	<0.040	ug/L	0.040	0.0079	1	05/01/17 14:11	05/12/17 20:35	53-70-3	L2,N2
Dibenzofuran	0.096	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 20:35	132-64-9	N2
Fluoranthene	0.041	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 20:35	206-44-0	N2
Fluorene	0.15	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 20:35	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.040	ug/L	0.040	0.0014	1	05/01/17 14:11	05/12/17 20:35	193-39-5	N2
1-Methylnaphthalene	0.14	ug/L	0.040	0.0069	1	05/01/17 14:11	05/12/17 20:35	90-12-0	N2
2-Methylnaphthalene	0.092	ug/L	0.040	0.011	1	05/01/17 14:11	05/12/17 20:35	91-57-6	N2
Naphthalene	1.2	ug/L	0.16	0.012	1	05/01/17 14:11	05/12/17 20:35	91-20-3	N2
Phenanthrene	0.18	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 20:35	85-01-8	N2
Pyrene	<0.040	ug/L	0.040	0.0029	1	05/01/17 14:11	05/12/17 20:35	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	63	%	30-136		1	05/01/17 14:11	05/12/17 20:35	321-60-8	N2
p-Terphenyl-d14 (S)	70	%	30-125		1	05/01/17 14:11	05/12/17 20:35	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		05/05/17 01:16	67-64-1	L2
Allyl chloride	<4.0	ug/L	4.0	0.25	1		05/05/17 01:16	107-05-1	
Benzene	2.2	ug/L	1.0	0.16	1		05/05/17 01:16	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		05/05/17 01:16	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		05/05/17 01:16	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		05/05/17 01:16	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		05/05/17 01:16	75-25-2	
Bromomethane	<10.0	ug/L	10.0	0.44	1		05/05/17 01:16	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		05/05/17 01:16	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		05/05/17 01:16	104-51-8	
sec-Butylbenzene	<4.0	ug/L	4.0	0.19	1		05/05/17 01:16	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		05/05/17 01:16	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		05/05/17 01:16	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		05/05/17 01:16	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.34	1		05/05/17 01:16	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		05/05/17 01:16	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		05/05/17 01:16	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		05/05/17 01:16	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		05/05/17 01:16	106-43-4	
1,2-Dibromo-3-chloropropane	<4.0	ug/L	4.0	0.60	1		05/05/17 01:16	96-12-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Sample: MW-5-20170425 Lab ID: 10386679005 Collected: 04/25/17 10:45 Received: 04/27/17 18:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Dibromochloromethane	<1.0	ug/L	1.0	0.16	1		05/05/17 01:16	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		05/05/17 01:16	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		05/05/17 01:16	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		05/05/17 01:16	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		05/05/17 01:16	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/05/17 01:16	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		05/05/17 01:16	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		05/05/17 01:16	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		05/05/17 01:16	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		05/05/17 01:16	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		05/05/17 01:16	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		05/05/17 01:16	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		05/05/17 01:16	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		05/05/17 01:16	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		05/05/17 01:16	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		05/05/17 01:16	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		05/05/17 01:16	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		05/05/17 01:16	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		05/05/17 01:16	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		05/05/17 01:16	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		05/05/17 01:16	100-41-4	
Hexachloro-1,3-butadiene	<4.0	ug/L	4.0	0.18	1		05/05/17 01:16	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		05/05/17 01:16	98-82-8	
p-Isopropyltoluene	<4.0	ug/L	4.0	0.19	1		05/05/17 01:16	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		05/05/17 01:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		05/05/17 01:16	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		05/05/17 01:16	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		05/05/17 01:16	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		05/05/17 01:16	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		05/05/17 01:16	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		05/05/17 01:16	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		05/05/17 01:16	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		05/05/17 01:16	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		05/05/17 01:16	109-99-9	
Toluene	2.4	ug/L	1.0	0.14	1		05/05/17 01:16	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/05/17 01:16	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/05/17 01:16	120-82-1	
1,1,1-Trichloroethane	<4.0	ug/L	4.0	0.17	1		05/05/17 01:16	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		05/05/17 01:16	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		05/05/17 01:16	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		05/05/17 01:16	75-69-4	
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		05/05/17 01:16	96-18-4	
1,1,2-Trichlorotrifluoroethane	<10.0	ug/L	10.0	0.32	1		05/05/17 01:16	76-13-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		05/05/17 01:16	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		05/05/17 01:16	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		05/05/17 01:16	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

**Sample: MW-5-20170425**      **Lab ID: 10386679005**      Collected: 04/25/17 10:45      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<3.0	ug/L	3.0	0.32	1		05/05/17 01:16	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	107	%	75-137		1		05/05/17 01:16	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1		05/05/17 01:16	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1		05/05/17 01:16	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Sample: MW-26-20170425 Lab ID: 10386679006 Collected: 04/25/17 12:40 Received: 04/27/17 18:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI Preparation Method: EPA Mod. 3510C									
Acenaphthene	<0.040	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 20:56	83-32-9	N2
Acenaphthylene	<0.040	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 20:56	208-96-8	N2
Anthracene	<0.040	ug/L	0.040	0.0082	1	05/01/17 14:11	05/12/17 20:56	120-12-7	N2
Benzo(a)anthracene	<0.040	ug/L	0.040	0.0098	1	05/01/17 14:11	05/12/17 20:56	56-55-3	N2
Benzo(a)pyrene	<0.040	ug/L	0.040	0.0025	1	05/01/17 14:11	05/12/17 20:56	50-32-8	N2
Benzo(b)fluoranthene	<0.040	ug/L	0.040	0.0017	1	05/01/17 14:11	05/12/17 20:56	205-99-2	N2
Benzo(e)pyrene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 20:56	192-97-2	N2
Benzo(g,h,i)perylene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 20:56	191-24-2	N2
Benzo(k)fluoranthene	<0.040	ug/L	0.040	0.0099	1	05/01/17 14:11	05/12/17 20:56	207-08-9	N2
2-Chloronaphthalene	<0.040	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 20:56	91-58-7	N2
Chrysene	<0.040	ug/L	0.040	0.0024	1	05/01/17 14:11	05/12/17 20:56	218-01-9	N2
Dibenz(a,h)anthracene	<0.040	ug/L	0.040	0.0079	1	05/01/17 14:11	05/12/17 20:56	53-70-3	L2,N2
Dibenzofuran	<0.040	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 20:56	132-64-9	N2
Fluoranthene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 20:56	206-44-0	N2
Fluorene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 20:56	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.040	ug/L	0.040	0.0014	1	05/01/17 14:11	05/12/17 20:56	193-39-5	N2
1-Methylnaphthalene	<0.040	ug/L	0.040	0.0069	1	05/01/17 14:11	05/12/17 20:56	90-12-0	N2
2-Methylnaphthalene	<0.040	ug/L	0.040	0.011	1	05/01/17 14:11	05/12/17 20:56	91-57-6	N2
Naphthalene	<0.16	ug/L	0.16	0.012	1	05/01/17 14:11	05/12/17 20:56	91-20-3	N2
Phenanthrene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 20:56	85-01-8	N2
Pyrene	<0.040	ug/L	0.040	0.0029	1	05/01/17 14:11	05/12/17 20:56	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	70	%	30-136		1	05/01/17 14:11	05/12/17 20:56	321-60-8	N2
p-Terphenyl-d14 (S)	85	%	30-125		1	05/01/17 14:11	05/12/17 20:56	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		05/05/17 01:32	67-64-1	L2
Allyl chloride	<4.0	ug/L	4.0	0.25	1		05/05/17 01:32	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		05/05/17 01:32	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		05/05/17 01:32	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		05/05/17 01:32	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		05/05/17 01:32	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		05/05/17 01:32	75-25-2	
Bromomethane	<10.0	ug/L	10.0	0.44	1		05/05/17 01:32	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		05/05/17 01:32	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		05/05/17 01:32	104-51-8	
sec-Butylbenzene	<4.0	ug/L	4.0	0.19	1		05/05/17 01:32	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		05/05/17 01:32	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		05/05/17 01:32	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		05/05/17 01:32	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.34	1		05/05/17 01:32	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		05/05/17 01:32	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		05/05/17 01:32	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		05/05/17 01:32	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		05/05/17 01:32	106-43-4	
1,2-Dibromo-3-chloropropane	<4.0	ug/L	4.0	0.60	1		05/05/17 01:32	96-12-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Sample: MW-26-20170425 Lab ID: 10386679006 Collected: 04/25/17 12:40 Received: 04/27/17 18:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Dibromochloromethane	<1.0	ug/L	1.0	0.16	1		05/05/17 01:32	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		05/05/17 01:32	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		05/05/17 01:32	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		05/05/17 01:32	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		05/05/17 01:32	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/05/17 01:32	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		05/05/17 01:32	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		05/05/17 01:32	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		05/05/17 01:32	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		05/05/17 01:32	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		05/05/17 01:32	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		05/05/17 01:32	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		05/05/17 01:32	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		05/05/17 01:32	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		05/05/17 01:32	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		05/05/17 01:32	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		05/05/17 01:32	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		05/05/17 01:32	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		05/05/17 01:32	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		05/05/17 01:32	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		05/05/17 01:32	100-41-4	
Hexachloro-1,3-butadiene	<4.0	ug/L	4.0	0.18	1		05/05/17 01:32	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		05/05/17 01:32	98-82-8	
p-Isopropyltoluene	<4.0	ug/L	4.0	0.19	1		05/05/17 01:32	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		05/05/17 01:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		05/05/17 01:32	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		05/05/17 01:32	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		05/05/17 01:32	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		05/05/17 01:32	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		05/05/17 01:32	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		05/05/17 01:32	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		05/05/17 01:32	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		05/05/17 01:32	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		05/05/17 01:32	109-99-9	
Toluene	3.7	ug/L	1.0	0.14	1		05/05/17 01:32	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/05/17 01:32	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/05/17 01:32	120-82-1	
1,1,1-Trichloroethane	<4.0	ug/L	4.0	0.17	1		05/05/17 01:32	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		05/05/17 01:32	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		05/05/17 01:32	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		05/05/17 01:32	75-69-4	
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		05/05/17 01:32	96-18-4	
1,1,2-Trichlorotrifluoroethane	<10.0	ug/L	10.0	0.32	1		05/05/17 01:32	76-13-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		05/05/17 01:32	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		05/05/17 01:32	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		05/05/17 01:32	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

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**Sample: MW-26-20170425**      **Lab ID: 10386679006**      Collected: 04/25/17 12:40      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<3.0	ug/L	3.0	0.32	1		05/05/17 01:32	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	107	%	75-137		1		05/05/17 01:32	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1		05/05/17 01:32	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1		05/05/17 01:32	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Sample: MW-11-20170425 Lab ID: 10386679007 Collected: 04/25/17 13:45 Received: 04/27/17 18:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI Preparation Method: EPA Mod. 3510C									
Acenaphthene	4.0	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 21:17	83-32-9	N2
Acenaphthylene	0.041	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 21:17	208-96-8	N2
Anthracene	0.050	ug/L	0.040	0.0082	1	05/01/17 14:11	05/12/17 21:17	120-12-7	N2
Benzo(a)anthracene	<0.040	ug/L	0.040	0.0098	1	05/01/17 14:11	05/12/17 21:17	56-55-3	N2
Benzo(a)pyrene	<0.040	ug/L	0.040	0.0025	1	05/01/17 14:11	05/12/17 21:17	50-32-8	N2
Benzo(b)fluoranthene	<0.040	ug/L	0.040	0.0017	1	05/01/17 14:11	05/12/17 21:17	205-99-2	N2
Benzo(e)pyrene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 21:17	192-97-2	N2
Benzo(g,h,i)perylene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 21:17	191-24-2	N2
Benzo(k)fluoranthene	<0.040	ug/L	0.040	0.0099	1	05/01/17 14:11	05/12/17 21:17	207-08-9	N2
2-Chloronaphthalene	<0.040	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 21:17	91-58-7	N2
Chrysene	<0.040	ug/L	0.040	0.0024	1	05/01/17 14:11	05/12/17 21:17	218-01-9	N2
Dibenz(a,h)anthracene	<0.040	ug/L	0.040	0.0079	1	05/01/17 14:11	05/12/17 21:17	53-70-3	L2,N2
Dibenzofuran	<0.040	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 21:17	132-64-9	N2
Fluoranthene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 21:17	206-44-0	N2
Fluorene	0.61	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 21:17	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.040	ug/L	0.040	0.0014	1	05/01/17 14:11	05/12/17 21:17	193-39-5	N2
1-Methylnaphthalene	3.6	ug/L	0.040	0.0069	1	05/01/17 14:11	05/12/17 21:17	90-12-0	N2
2-Methylnaphthalene	0.65	ug/L	0.040	0.011	1	05/01/17 14:11	05/12/17 21:17	91-57-6	N2
Naphthalene	2.5	ug/L	0.16	0.012	1	05/01/17 14:11	05/12/17 21:17	91-20-3	N2
Phenanthrene	0.30	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 21:17	85-01-8	N2
Pyrene	<0.040	ug/L	0.040	0.0029	1	05/01/17 14:11	05/12/17 21:17	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	61	%	30-136		1	05/01/17 14:11	05/12/17 21:17	321-60-8	N2
p-Terphenyl-d14 (S)	68	%	30-125		1	05/01/17 14:11	05/12/17 21:17	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		05/05/17 01:48	67-64-1	L2
Allyl chloride	<4.0	ug/L	4.0	0.25	1		05/05/17 01:48	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		05/05/17 01:48	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		05/05/17 01:48	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		05/05/17 01:48	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		05/05/17 01:48	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		05/05/17 01:48	75-25-2	
Bromomethane	<10.0	ug/L	10.0	0.44	1		05/05/17 01:48	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		05/05/17 01:48	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		05/05/17 01:48	104-51-8	
sec-Butylbenzene	<4.0	ug/L	4.0	0.19	1		05/05/17 01:48	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		05/05/17 01:48	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		05/05/17 01:48	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		05/05/17 01:48	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.34	1		05/05/17 01:48	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		05/05/17 01:48	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		05/05/17 01:48	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		05/05/17 01:48	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		05/05/17 01:48	106-43-4	
1,2-Dibromo-3-chloropropane	<4.0	ug/L	4.0	0.60	1		05/05/17 01:48	96-12-8	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Sample: MW-11-20170425 Lab ID: 10386679007 Collected: 04/25/17 13:45 Received: 04/27/17 18:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Dibromochloromethane	<1.0	ug/L	1.0	0.16	1		05/05/17 01:48	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		05/05/17 01:48	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		05/05/17 01:48	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		05/05/17 01:48	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		05/05/17 01:48	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/05/17 01:48	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		05/05/17 01:48	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		05/05/17 01:48	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		05/05/17 01:48	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		05/05/17 01:48	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		05/05/17 01:48	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		05/05/17 01:48	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		05/05/17 01:48	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		05/05/17 01:48	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		05/05/17 01:48	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		05/05/17 01:48	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		05/05/17 01:48	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		05/05/17 01:48	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		05/05/17 01:48	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		05/05/17 01:48	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		05/05/17 01:48	100-41-4	
Hexachloro-1,3-butadiene	<4.0	ug/L	4.0	0.18	1		05/05/17 01:48	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		05/05/17 01:48	98-82-8	
p-Isopropyltoluene	<4.0	ug/L	4.0	0.19	1		05/05/17 01:48	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		05/05/17 01:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		05/05/17 01:48	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		05/05/17 01:48	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		05/05/17 01:48	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		05/05/17 01:48	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		05/05/17 01:48	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		05/05/17 01:48	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		05/05/17 01:48	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		05/05/17 01:48	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		05/05/17 01:48	109-99-9	
Toluene	3.5	ug/L	1.0	0.14	1		05/05/17 01:48	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/05/17 01:48	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/05/17 01:48	120-82-1	
1,1,1-Trichloroethane	<4.0	ug/L	4.0	0.17	1		05/05/17 01:48	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		05/05/17 01:48	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		05/05/17 01:48	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		05/05/17 01:48	75-69-4	
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		05/05/17 01:48	96-18-4	
1,1,2-Trichlorotrifluoroethane	<10.0	ug/L	10.0	0.32	1		05/05/17 01:48	76-13-1	
1,2,4-Trimethylbenzene	2.1	ug/L	1.0	0.18	1		05/05/17 01:48	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		05/05/17 01:48	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		05/05/17 01:48	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

**Sample: MW-11-20170425**      **Lab ID: 10386679007**      Collected: 04/25/17 13:45      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<3.0	ug/L	3.0	0.32	1		05/05/17 01:48	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	107	%	75-137		1		05/05/17 01:48	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1		05/05/17 01:48	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1		05/05/17 01:48	460-00-4	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

**Sample: MW-23-20170425**      **Lab ID: 10386679008**      Collected: 04/25/17 14:40      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI      Preparation Method: EPA Mod. 3510C									
Acenaphthene	<0.040	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 21:38	83-32-9	N2
Acenaphthylene	<0.040	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 21:38	208-96-8	N2
Anthracene	<0.040	ug/L	0.040	0.0082	1	05/01/17 14:11	05/12/17 21:38	120-12-7	N2
Benzo(a)anthracene	<0.040	ug/L	0.040	0.0098	1	05/01/17 14:11	05/12/17 21:38	56-55-3	N2
Benzo(a)pyrene	<0.040	ug/L	0.040	0.0025	1	05/01/17 14:11	05/12/17 21:38	50-32-8	N2
Benzo(b)fluoranthene	<0.040	ug/L	0.040	0.0017	1	05/01/17 14:11	05/12/17 21:38	205-99-2	N2
Benzo(e)pyrene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 21:38	192-97-2	N2
Benzo(g,h,i)perylene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 21:38	191-24-2	N2
Benzo(k)fluoranthene	<0.040	ug/L	0.040	0.0099	1	05/01/17 14:11	05/12/17 21:38	207-08-9	N2
2-Chloronaphthalene	<0.040	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 21:38	91-58-7	N2
Chrysene	<0.040	ug/L	0.040	0.0024	1	05/01/17 14:11	05/12/17 21:38	218-01-9	N2
Dibenz(a,h)anthracene	<0.040	ug/L	0.040	0.0079	1	05/01/17 14:11	05/12/17 21:38	53-70-3	L2,N2
Dibenzofuran	<0.040	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 21:38	132-64-9	N2
Fluoranthene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 21:38	206-44-0	N2
Fluorene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 21:38	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.040	ug/L	0.040	0.0014	1	05/01/17 14:11	05/12/17 21:38	193-39-5	N2
1-Methylnaphthalene	<0.040	ug/L	0.040	0.0069	1	05/01/17 14:11	05/12/17 21:38	90-12-0	N2
2-Methylnaphthalene	<0.040	ug/L	0.040	0.011	1	05/01/17 14:11	05/12/17 21:38	91-57-6	N2
Naphthalene	<0.16	ug/L	0.16	0.012	1	05/01/17 14:11	05/12/17 21:38	91-20-3	N2
Phenanthrene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 21:38	85-01-8	N2
Pyrene	<0.040	ug/L	0.040	0.0029	1	05/01/17 14:11	05/12/17 21:38	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	58	%	30-136		1	05/01/17 14:11	05/12/17 21:38	321-60-8	N2
p-Terphenyl-d14 (S)	65	%	30-125		1	05/01/17 14:11	05/12/17 21:38	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		05/05/17 02:04	67-64-1	L2
Allyl chloride	<4.0	ug/L	4.0	0.25	1		05/05/17 02:04	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		05/05/17 02:04	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		05/05/17 02:04	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		05/05/17 02:04	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		05/05/17 02:04	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		05/05/17 02:04	75-25-2	
Bromomethane	<10.0	ug/L	10.0	0.44	1		05/05/17 02:04	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		05/05/17 02:04	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		05/05/17 02:04	104-51-8	
sec-Butylbenzene	<4.0	ug/L	4.0	0.19	1		05/05/17 02:04	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		05/05/17 02:04	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		05/05/17 02:04	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		05/05/17 02:04	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.34	1		05/05/17 02:04	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		05/05/17 02:04	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		05/05/17 02:04	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		05/05/17 02:04	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		05/05/17 02:04	106-43-4	
1,2-Dibromo-3-chloropropane	<4.0	ug/L	4.0	0.60	1		05/05/17 02:04	96-12-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Sample: MW-23-20170425 Lab ID: 10386679008 Collected: 04/25/17 14:40 Received: 04/27/17 18:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Dibromochloromethane	<1.0	ug/L	1.0	0.16	1		05/05/17 02:04	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		05/05/17 02:04	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		05/05/17 02:04	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		05/05/17 02:04	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		05/05/17 02:04	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/05/17 02:04	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		05/05/17 02:04	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		05/05/17 02:04	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		05/05/17 02:04	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		05/05/17 02:04	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		05/05/17 02:04	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		05/05/17 02:04	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		05/05/17 02:04	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		05/05/17 02:04	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		05/05/17 02:04	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		05/05/17 02:04	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		05/05/17 02:04	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		05/05/17 02:04	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		05/05/17 02:04	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		05/05/17 02:04	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		05/05/17 02:04	100-41-4	
Hexachloro-1,3-butadiene	<4.0	ug/L	4.0	0.18	1		05/05/17 02:04	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		05/05/17 02:04	98-82-8	
p-Isopropyltoluene	<4.0	ug/L	4.0	0.19	1		05/05/17 02:04	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		05/05/17 02:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		05/05/17 02:04	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		05/05/17 02:04	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		05/05/17 02:04	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		05/05/17 02:04	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		05/05/17 02:04	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		05/05/17 02:04	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		05/05/17 02:04	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		05/05/17 02:04	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		05/05/17 02:04	109-99-9	
Toluene	2.2	ug/L	1.0	0.14	1		05/05/17 02:04	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/05/17 02:04	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/05/17 02:04	120-82-1	
1,1,1-Trichloroethane	<4.0	ug/L	4.0	0.17	1		05/05/17 02:04	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		05/05/17 02:04	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		05/05/17 02:04	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		05/05/17 02:04	75-69-4	
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		05/05/17 02:04	96-18-4	
1,1,2-Trichlorotrifluoroethane	<10.0	ug/L	10.0	0.32	1		05/05/17 02:04	76-13-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		05/05/17 02:04	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		05/05/17 02:04	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		05/05/17 02:04	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

**Sample: MW-23-20170425**      **Lab ID: 10386679008**      Collected: 04/25/17 14:40      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<b>&lt;3.0</b>	ug/L	3.0	0.32	1		05/05/17 02:04	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	109	%	75-137		1		05/05/17 02:04	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1		05/05/17 02:04	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1		05/05/17 02:04	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

**Sample: MW-24-20170425**      **Lab ID: 10386679009**      Collected: 04/25/17 15:30      Received: 04/27/17 18:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI      Preparation Method: EPA Mod. 3510C									
Acenaphthene	<0.040	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 21:59	83-32-9	N2
Acenaphthylene	<0.040	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 21:59	208-96-8	N2
Anthracene	<0.040	ug/L	0.040	0.0082	1	05/01/17 14:11	05/12/17 21:59	120-12-7	N2
Benzo(a)anthracene	<0.040	ug/L	0.040	0.0098	1	05/01/17 14:11	05/12/17 21:59	56-55-3	N2
Benzo(a)pyrene	<0.040	ug/L	0.040	0.0025	1	05/01/17 14:11	05/12/17 21:59	50-32-8	N2
Benzo(b)fluoranthene	<0.040	ug/L	0.040	0.0017	1	05/01/17 14:11	05/12/17 21:59	205-99-2	N2
Benzo(e)pyrene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 21:59	192-97-2	N2
Benzo(g,h,i)perylene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 21:59	191-24-2	N2
Benzo(k)fluoranthene	<0.040	ug/L	0.040	0.0099	1	05/01/17 14:11	05/12/17 21:59	207-08-9	N2
2-Chloronaphthalene	<0.040	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 21:59	91-58-7	N2
Chrysene	<0.040	ug/L	0.040	0.0024	1	05/01/17 14:11	05/12/17 21:59	218-01-9	N2
Dibenz(a,h)anthracene	<0.040	ug/L	0.040	0.0079	1	05/01/17 14:11	05/12/17 21:59	53-70-3	L2,N2
Dibenzofuran	<0.040	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 21:59	132-64-9	N2
Fluoranthene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 21:59	206-44-0	N2
Fluorene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 21:59	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.040	ug/L	0.040	0.0014	1	05/01/17 14:11	05/12/17 21:59	193-39-5	N2
1-Methylnaphthalene	<0.040	ug/L	0.040	0.0069	1	05/01/17 14:11	05/12/17 21:59	90-12-0	N2
2-Methylnaphthalene	<0.040	ug/L	0.040	0.011	1	05/01/17 14:11	05/12/17 21:59	91-57-6	N2
Naphthalene	<0.16	ug/L	0.16	0.012	1	05/01/17 14:11	05/12/17 21:59	91-20-3	N2
Phenanthrene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 21:59	85-01-8	N2
Pyrene	<0.040	ug/L	0.040	0.0029	1	05/01/17 14:11	05/12/17 21:59	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	67	%	30-136		1	05/01/17 14:11	05/12/17 21:59	321-60-8	N2
p-Terphenyl-d14 (S)	78	%	30-125		1	05/01/17 14:11	05/12/17 21:59	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		05/05/17 02:21	67-64-1	L2
Allyl chloride	<4.0	ug/L	4.0	0.25	1		05/05/17 02:21	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		05/05/17 02:21	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		05/05/17 02:21	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		05/05/17 02:21	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		05/05/17 02:21	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		05/05/17 02:21	75-25-2	
Bromomethane	<10.0	ug/L	10.0	0.44	1		05/05/17 02:21	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		05/05/17 02:21	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		05/05/17 02:21	104-51-8	
sec-Butylbenzene	<4.0	ug/L	4.0	0.19	1		05/05/17 02:21	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		05/05/17 02:21	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		05/05/17 02:21	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		05/05/17 02:21	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.34	1		05/05/17 02:21	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		05/05/17 02:21	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		05/05/17 02:21	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		05/05/17 02:21	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		05/05/17 02:21	106-43-4	
1,2-Dibromo-3-chloropropane	<4.0	ug/L	4.0	0.60	1		05/05/17 02:21	96-12-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Sample: MW-24-20170425 Lab ID: 10386679009 Collected: 04/25/17 15:30 Received: 04/27/17 18:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Dibromochloromethane	<1.0	ug/L	1.0	0.16	1		05/05/17 02:21	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		05/05/17 02:21	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		05/05/17 02:21	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		05/05/17 02:21	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		05/05/17 02:21	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/05/17 02:21	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		05/05/17 02:21	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		05/05/17 02:21	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		05/05/17 02:21	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		05/05/17 02:21	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		05/05/17 02:21	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		05/05/17 02:21	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		05/05/17 02:21	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		05/05/17 02:21	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		05/05/17 02:21	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		05/05/17 02:21	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		05/05/17 02:21	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		05/05/17 02:21	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		05/05/17 02:21	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		05/05/17 02:21	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		05/05/17 02:21	100-41-4	
Hexachloro-1,3-butadiene	<4.0	ug/L	4.0	0.18	1		05/05/17 02:21	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		05/05/17 02:21	98-82-8	
p-Isopropyltoluene	<4.0	ug/L	4.0	0.19	1		05/05/17 02:21	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		05/05/17 02:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		05/05/17 02:21	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		05/05/17 02:21	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		05/05/17 02:21	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		05/05/17 02:21	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		05/05/17 02:21	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		05/05/17 02:21	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		05/05/17 02:21	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		05/05/17 02:21	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		05/05/17 02:21	109-99-9	
Toluene	2.5	ug/L	1.0	0.14	1		05/05/17 02:21	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/05/17 02:21	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/05/17 02:21	120-82-1	
1,1,1-Trichloroethane	<4.0	ug/L	4.0	0.17	1		05/05/17 02:21	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		05/05/17 02:21	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		05/05/17 02:21	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		05/05/17 02:21	75-69-4	
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		05/05/17 02:21	96-18-4	
1,1,2-Trichlorotrifluoroethane	<10.0	ug/L	10.0	0.32	1		05/05/17 02:21	76-13-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		05/05/17 02:21	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		05/05/17 02:21	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		05/05/17 02:21	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

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**Sample: MW-24-20170425**      **Lab ID: 10386679009**      Collected: 04/25/17 15:30      Received: 04/27/17 18:50      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<b>&lt;3.0</b>	ug/L	3.0	0.32	1		05/05/17 02:21	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	111	%	75-137		1		05/05/17 02:21	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1		05/05/17 02:21	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1		05/05/17 02:21	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Sample: **MW-8-20170425** Lab ID: **10386679010** Collected: 04/25/17 15:20 Received: 04/27/17 18:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI Preparation Method: EPA Mod. 3510C									
Acenaphthene	20.2	ug/L	2.0	0.48	50	05/01/17 14:11	05/15/17 11:02	83-32-9	N2
Acenaphthylene	2.5	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 22:20	208-96-8	N2
Anthracene	3.4	ug/L	0.040	0.0082	1	05/01/17 14:11	05/12/17 22:20	120-12-7	N2
Benzo(a)anthracene	0.20	ug/L	0.040	0.0098	1	05/01/17 14:11	05/12/17 22:20	56-55-3	N2
Benzo(a)pyrene	<0.040	ug/L	0.040	0.0025	1	05/01/17 14:11	05/12/17 22:20	50-32-8	N2
Benzo(b)fluoranthene	0.061	ug/L	0.040	0.0017	1	05/01/17 14:11	05/12/17 22:20	205-99-2	N2
Benzo(e)pyrene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 22:20	192-97-2	N2
Benzo(g,h,i)perylene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 22:20	191-24-2	N2
Benzo(k)fluoranthene	<0.040	ug/L	0.040	0.0099	1	05/01/17 14:11	05/12/17 22:20	207-08-9	N2
2-Chloronaphthalene	0.055	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 22:20	91-58-7	N2
Chrysene	0.16	ug/L	0.040	0.0024	1	05/01/17 14:11	05/12/17 22:20	218-01-9	N2
Dibenz(a,h)anthracene	<0.040	ug/L	0.040	0.0079	1	05/01/17 14:11	05/12/17 22:20	53-70-3	L2,N2
Dibenzofuran	0.23	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 22:20	132-64-9	N2
Fluoranthene	4.3	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 22:20	206-44-0	N2
Fluorene	4.6	ug/L	2.0	0.47	50	05/01/17 14:11	05/15/17 11:02	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.040	ug/L	0.040	0.0014	1	05/01/17 14:11	05/12/17 22:20	193-39-5	N2
1-Methylnaphthalene	14.8	ug/L	2.0	0.34	50	05/01/17 14:11	05/15/17 11:02	90-12-0	N2
2-Methylnaphthalene	16.4	ug/L	2.0	0.55	50	05/01/17 14:11	05/15/17 11:02	91-57-6	N2
Naphthalene	125	ug/L	8.0	0.60	50	05/01/17 14:11	05/15/17 11:02	91-20-3	N2
Phenanthrene	9.6	ug/L	2.0	0.47	50	05/01/17 14:11	05/15/17 11:02	85-01-8	N2
Pyrene	3.3	ug/L	0.040	0.0029	1	05/01/17 14:11	05/12/17 22:20	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	62	%	30-136		1	05/01/17 14:11	05/12/17 22:20	321-60-8	N2
p-Terphenyl-d14 (S)	58	%	30-125		1	05/01/17 14:11	05/12/17 22:20	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<4000	ug/L	4000	402	200		05/08/17 23:33	67-64-1	L1
Allyl chloride	<800	ug/L	800	50.0	200		05/08/17 23:33	107-05-1	
Benzene	22600	ug/L	200	31.0	200		05/08/17 23:33	71-43-2	
Bromobenzene	<200	ug/L	200	67.4	200		05/08/17 23:33	108-86-1	
Bromochloromethane	<200	ug/L	200	37.2	200		05/08/17 23:33	74-97-5	
Bromodichloromethane	<200	ug/L	200	48.0	200		05/08/17 23:33	75-27-4	
Bromoform	<800	ug/L	800	54.8	200		05/08/17 23:33	75-25-2	
Bromomethane	<2000	ug/L	2000	88.6	200		05/08/17 23:33	74-83-9	
2-Butanone (MEK)	<1000	ug/L	1000	220	200		05/08/17 23:33	78-93-3	
n-Butylbenzene	<200	ug/L	200	32.0	200		05/08/17 23:33	104-51-8	
sec-Butylbenzene	<800	ug/L	800	37.8	200		05/08/17 23:33	135-98-8	
tert-Butylbenzene	<200	ug/L	200	44.6	200		05/08/17 23:33	98-06-6	
Carbon tetrachloride	<200	ug/L	200	39.4	200		05/08/17 23:33	56-23-5	
Chlorobenzene	<200	ug/L	200	22.8	200		05/08/17 23:33	108-90-7	
Chloroethane	<200	ug/L	200	68.4	200		05/08/17 23:33	75-00-3	
Chloroform	<200	ug/L	200	42.0	200		05/08/17 23:33	67-66-3	
Chloromethane	<800	ug/L	800	49.2	200		05/08/17 23:33	74-87-3	
2-Chlorotoluene	<200	ug/L	200	59.0	200		05/08/17 23:33	95-49-8	
4-Chlorotoluene	<200	ug/L	200	51.0	200		05/08/17 23:33	106-43-4	
1,2-Dibromo-3-chloropropane	<800	ug/L	800	120	200		05/08/17 23:33	96-12-8	

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### ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Sample: MW-8-20170425 Lab ID: 10386679010 Collected: 04/25/17 15:20 Received: 04/27/17 18:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Dibromochloromethane	<200	ug/L	200	31.4	200		05/08/17 23:33	124-48-1	
1,2-Dibromoethane (EDB)	<200	ug/L	200	40.0	200		05/08/17 23:33	106-93-4	
Dibromomethane	<800	ug/L	800	38.8	200		05/08/17 23:33	74-95-3	
1,2-Dichlorobenzene	<200	ug/L	200	34.2	200		05/08/17 23:33	95-50-1	
1,3-Dichlorobenzene	<200	ug/L	200	23.0	200		05/08/17 23:33	541-73-1	
1,4-Dichlorobenzene	<200	ug/L	200	42.2	200		05/08/17 23:33	106-46-7	
Dichlorodifluoromethane	<200	ug/L	200	45.2	200		05/08/17 23:33	75-71-8	
1,1-Dichloroethane	<200	ug/L	200	34.2	200		05/08/17 23:33	75-34-3	
1,2-Dichloroethane	<200	ug/L	200	34.0	200		05/08/17 23:33	107-06-2	
1,1-Dichloroethene	<200	ug/L	200	55.4	200		05/08/17 23:33	75-35-4	
cis-1,2-Dichloroethene	<200	ug/L	200	24.0	200		05/08/17 23:33	156-59-2	
trans-1,2-Dichloroethene	<200	ug/L	200	32.4	200		05/08/17 23:33	156-60-5	
Dichlorofluoromethane	<200	ug/L	200	42.8	200		05/08/17 23:33	75-43-4	
1,2-Dichloropropane	<800	ug/L	800	44.4	200		05/08/17 23:33	78-87-5	
1,3-Dichloropropane	<200	ug/L	200	19.2	200		05/08/17 23:33	142-28-9	
2,2-Dichloropropane	<800	ug/L	800	25.6	200		05/08/17 23:33	594-20-7	
1,1-Dichloropropene	<200	ug/L	200	45.4	200		05/08/17 23:33	563-58-6	
cis-1,3-Dichloropropene	<800	ug/L	800	30.0	200		05/08/17 23:33	10061-01-5	
trans-1,3-Dichloropropene	<800	ug/L	800	29.4	200		05/08/17 23:33	10061-02-6	
Diethyl ether (Ethyl ether)	<800	ug/L	800	38.8	200		05/08/17 23:33	60-29-7	
Ethylbenzene	263	ug/L	200	30.4	200		05/08/17 23:33	100-41-4	
Hexachloro-1,3-butadiene	<800	ug/L	800	35.6	200		05/08/17 23:33	87-68-3	
Isopropylbenzene (Cumene)	<200	ug/L	200	50.6	200		05/08/17 23:33	98-82-8	
p-Isopropyltoluene	<800	ug/L	800	38.8	200		05/08/17 23:33	99-87-6	
Methylene Chloride	<800	ug/L	800	58.6	200		05/08/17 23:33	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1000	ug/L	1000	86.4	200		05/08/17 23:33	108-10-1	
Methyl-tert-butyl ether	<200	ug/L	200	29.8	200		05/08/17 23:33	1634-04-4	
Naphthalene	<800	ug/L	800	40.8	200		05/08/17 23:33	91-20-3	
n-Propylbenzene	<200	ug/L	200	46.6	200		05/08/17 23:33	103-65-1	
Styrene	955	ug/L	200	57.2	200		05/08/17 23:33	100-42-5	
1,1,1,2-Tetrachloroethane	<200	ug/L	200	33.2	200		05/08/17 23:33	630-20-6	
1,1,2,2-Tetrachloroethane	<200	ug/L	200	45.0	200		05/08/17 23:33	79-34-5	
Tetrachloroethene	<200	ug/L	200	50.6	200		05/08/17 23:33	127-18-4	
Tetrahydrofuran	<2000	ug/L	2000	300	200		05/08/17 23:33	109-99-9	
Toluene	16000	ug/L	200	29.0	200		05/08/17 23:33	108-88-3	
1,2,3-Trichlorobenzene	<200	ug/L	200	42.6	200		05/08/17 23:33	87-61-6	L2
1,2,4-Trichlorobenzene	<200	ug/L	200	42.6	200		05/08/17 23:33	120-82-1	
1,1,1-Trichloroethane	<800	ug/L	800	34.0	200		05/08/17 23:33	71-55-6	
1,1,2-Trichloroethane	<200	ug/L	200	30.4	200		05/08/17 23:33	79-00-5	
Trichloroethene	<80.0	ug/L	80.0	10.4	200		05/08/17 23:33	79-01-6	
Trichlorofluoromethane	<200	ug/L	200	65.2	200		05/08/17 23:33	75-69-4	
1,2,3-Trichloropropane	<800	ug/L	800	56.8	200		05/08/17 23:33	96-18-4	
1,1,2-Trichlorotrifluoroethane	<2000	ug/L	2000	64.0	200		05/08/17 23:33	76-13-1	
1,2,4-Trimethylbenzene	260	ug/L	200	35.6	200		05/08/17 23:33	95-63-6	
1,3,5-Trimethylbenzene	<200	ug/L	200	53.8	200		05/08/17 23:33	108-67-8	
Vinyl chloride	<40.0	ug/L	40.0	13.8	200		05/08/17 23:33	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

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**Sample: MW-8-20170425**      **Lab ID: 10386679010**      Collected: 04/25/17 15:20      Received: 04/27/17 18:50      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<b>4310</b>	ug/L	600	63.0	200		05/08/17 23:33	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	119	%	75-137		200		05/08/17 23:33	17060-07-0	
Toluene-d8 (S)	101	%	75-125		200		05/08/17 23:33	2037-26-5	
4-Bromofluorobenzene (S)	106	%	75-125		200		05/08/17 23:33	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Sample: MW-8D-20170425 Lab ID: 10386679011 Collected: 04/25/17 15:20 Received: 04/27/17 18:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI Preparation Method: EPA Mod. 3510C									
Acenaphthene	21.3	ug/L	2.0	0.48	50	05/01/17 14:11	05/15/17 11:23	83-32-9	N2
Acenaphthylene	2.7	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 22:42	208-96-8	N2
Anthracene	3.7	ug/L	0.040	0.0082	1	05/01/17 14:11	05/12/17 22:42	120-12-7	N2
Benzo(a)anthracene	0.22	ug/L	0.040	0.0098	1	05/01/17 14:11	05/12/17 22:42	56-55-3	N2
Benzo(a)pyrene	<0.040	ug/L	0.040	0.0025	1	05/01/17 14:11	05/12/17 22:42	50-32-8	N2
Benzo(b)fluoranthene	0.059	ug/L	0.040	0.0017	1	05/01/17 14:11	05/12/17 22:42	205-99-2	N2
Benzo(e)pyrene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 22:42	192-97-2	N2
Benzo(g,h,i)perylene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 22:42	191-24-2	N2
Benzo(k)fluoranthene	<0.040	ug/L	0.040	0.0099	1	05/01/17 14:11	05/12/17 22:42	207-08-9	N2
2-Chloronaphthalene	0.059	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 22:42	91-58-7	N2
Chrysene	0.18	ug/L	0.040	0.0024	1	05/01/17 14:11	05/12/17 22:42	218-01-9	N2
Dibenz(a,h)anthracene	<0.040	ug/L	0.040	0.0079	1	05/01/17 14:11	05/12/17 22:42	53-70-3	L2,N2
Dibenzofuran	0.25	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 22:42	132-64-9	N2
Fluoranthene	4.7	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 22:42	206-44-0	N2
Fluorene	4.7	ug/L	2.0	0.47	50	05/01/17 14:11	05/15/17 11:23	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.040	ug/L	0.040	0.0014	1	05/01/17 14:11	05/12/17 22:42	193-39-5	N2
1-Methylnaphthalene	15.9	ug/L	2.0	0.34	50	05/01/17 14:11	05/15/17 11:23	90-12-0	N2
2-Methylnaphthalene	16.9	ug/L	2.0	0.55	50	05/01/17 14:11	05/15/17 11:23	91-57-6	N2
Naphthalene	133	ug/L	8.0	0.60	50	05/01/17 14:11	05/15/17 11:23	91-20-3	N2
Phenanthrene	10.2	ug/L	2.0	0.47	50	05/01/17 14:11	05/15/17 11:23	85-01-8	N2
Pyrene	3.4	ug/L	0.040	0.0029	1	05/01/17 14:11	05/12/17 22:42	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	69	%	30-136		1	05/01/17 14:11	05/12/17 22:42	321-60-8	N2
p-Terphenyl-d14 (S)	60	%	30-125		1	05/01/17 14:11	05/12/17 22:42	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<4000	ug/L	4000	402	200		05/09/17 15:33	67-64-1	L3
Allyl chloride	<800	ug/L	800	50.0	200		05/09/17 15:33	107-05-1	
Benzene	25000	ug/L	200	31.0	200		05/09/17 15:33	71-43-2	
Bromobenzene	<200	ug/L	200	67.4	200		05/09/17 15:33	108-86-1	
Bromochloromethane	<200	ug/L	200	37.2	200		05/09/17 15:33	74-97-5	
Bromodichloromethane	<200	ug/L	200	48.0	200		05/09/17 15:33	75-27-4	
Bromoform	<800	ug/L	800	54.8	200		05/09/17 15:33	75-25-2	
Bromomethane	<2000	ug/L	2000	88.6	200		05/09/17 15:33	74-83-9	
2-Butanone (MEK)	<1000	ug/L	1000	220	200		05/09/17 15:33	78-93-3	L3
n-Butylbenzene	<200	ug/L	200	32.0	200		05/09/17 15:33	104-51-8	
sec-Butylbenzene	<800	ug/L	800	37.8	200		05/09/17 15:33	135-98-8	
tert-Butylbenzene	<200	ug/L	200	44.6	200		05/09/17 15:33	98-06-6	
Carbon tetrachloride	<200	ug/L	200	39.4	200		05/09/17 15:33	56-23-5	
Chlorobenzene	<200	ug/L	200	22.8	200		05/09/17 15:33	108-90-7	
Chloroethane	<200	ug/L	200	68.4	200		05/09/17 15:33	75-00-3	
Chloroform	<200	ug/L	200	42.0	200		05/09/17 15:33	67-66-3	
Chloromethane	<800	ug/L	800	49.2	200		05/09/17 15:33	74-87-3	
2-Chlorotoluene	<200	ug/L	200	59.0	200		05/09/17 15:33	95-49-8	
4-Chlorotoluene	<200	ug/L	200	51.0	200		05/09/17 15:33	106-43-4	
1,2-Dibromo-3-chloropropane	<800	ug/L	800	120	200		05/09/17 15:33	96-12-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Sample: **MW-8D-20170425** Lab ID: **10386679011** Collected: 04/25/17 15:20 Received: 04/27/17 18:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<200	ug/L	200	31.4	200		05/09/17 15:33	124-48-1	
1,2-Dibromoethane (EDB)	<200	ug/L	200	40.0	200		05/09/17 15:33	106-93-4	
Dibromomethane	<800	ug/L	800	38.8	200		05/09/17 15:33	74-95-3	
1,2-Dichlorobenzene	<200	ug/L	200	34.2	200		05/09/17 15:33	95-50-1	
1,3-Dichlorobenzene	<200	ug/L	200	23.0	200		05/09/17 15:33	541-73-1	
1,4-Dichlorobenzene	<200	ug/L	200	42.2	200		05/09/17 15:33	106-46-7	
Dichlorodifluoromethane	<200	ug/L	200	45.2	200		05/09/17 15:33	75-71-8	
1,1-Dichloroethane	<200	ug/L	200	34.2	200		05/09/17 15:33	75-34-3	
1,2-Dichloroethane	<200	ug/L	200	34.0	200		05/09/17 15:33	107-06-2	
1,1-Dichloroethene	<200	ug/L	200	55.4	200		05/09/17 15:33	75-35-4	
cis-1,2-Dichloroethene	<200	ug/L	200	24.0	200		05/09/17 15:33	156-59-2	
trans-1,2-Dichloroethene	<200	ug/L	200	32.4	200		05/09/17 15:33	156-60-5	
Dichlorofluoromethane	<200	ug/L	200	42.8	200		05/09/17 15:33	75-43-4	
1,2-Dichloropropane	<800	ug/L	800	44.4	200		05/09/17 15:33	78-87-5	
1,3-Dichloropropane	<200	ug/L	200	19.2	200		05/09/17 15:33	142-28-9	
2,2-Dichloropropane	<800	ug/L	800	25.6	200		05/09/17 15:33	594-20-7	
1,1-Dichloropropene	<200	ug/L	200	45.4	200		05/09/17 15:33	563-58-6	
cis-1,3-Dichloropropene	<800	ug/L	800	30.0	200		05/09/17 15:33	10061-01-5	
trans-1,3-Dichloropropene	<800	ug/L	800	29.4	200		05/09/17 15:33	10061-02-6	
Diethyl ether (Ethyl ether)	<800	ug/L	800	38.8	200		05/09/17 15:33	60-29-7	
Ethylbenzene	278	ug/L	200	30.4	200		05/09/17 15:33	100-41-4	B
Hexachloro-1,3-butadiene	<800	ug/L	800	35.6	200		05/09/17 15:33	87-68-3	
Isopropylbenzene (Cumene)	<200	ug/L	200	50.6	200		05/09/17 15:33	98-82-8	
p-Isopropyltoluene	<800	ug/L	800	38.8	200		05/09/17 15:33	99-87-6	
Methylene Chloride	<800	ug/L	800	58.6	200		05/09/17 15:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1000	ug/L	1000	86.4	200		05/09/17 15:33	108-10-1	
Methyl-tert-butyl ether	<200	ug/L	200	29.8	200		05/09/17 15:33	1634-04-4	
Naphthalene	<800	ug/L	800	40.8	200		05/09/17 15:33	91-20-3	B
n-Propylbenzene	<200	ug/L	200	46.6	200		05/09/17 15:33	103-65-1	
Styrene	1090	ug/L	200	57.2	200		05/09/17 15:33	100-42-5	
1,1,1,2-Tetrachloroethane	<200	ug/L	200	33.2	200		05/09/17 15:33	630-20-6	
1,1,2,2-Tetrachloroethane	<200	ug/L	200	45.0	200		05/09/17 15:33	79-34-5	
Tetrachloroethene	<200	ug/L	200	50.6	200		05/09/17 15:33	127-18-4	
Tetrahydrofuran	<2000	ug/L	2000	300	200		05/09/17 15:33	109-99-9	
Toluene	17900	ug/L	200	29.0	200		05/09/17 15:33	108-88-3	
1,2,3-Trichlorobenzene	<200	ug/L	200	42.6	200		05/09/17 15:33	87-61-6	
1,2,4-Trichlorobenzene	<200	ug/L	200	42.6	200		05/09/17 15:33	120-82-1	
1,1,1-Trichloroethane	<800	ug/L	800	34.0	200		05/09/17 15:33	71-55-6	
1,1,2-Trichloroethane	<200	ug/L	200	30.4	200		05/09/17 15:33	79-00-5	
Trichloroethene	<80.0	ug/L	80.0	10.4	200		05/09/17 15:33	79-01-6	
Trichlorofluoromethane	<200	ug/L	200	65.2	200		05/09/17 15:33	75-69-4	
1,2,3-Trichloropropane	<800	ug/L	800	56.8	200		05/09/17 15:33	96-18-4	
1,1,2-Trichlorotrifluoroethane	<2000	ug/L	2000	64.0	200		05/09/17 15:33	76-13-1	
1,2,4-Trimethylbenzene	<200	ug/L	200	35.6	200		05/09/17 15:33	95-63-6	B
1,3,5-Trimethylbenzene	<200	ug/L	200	53.8	200		05/09/17 15:33	108-67-8	
Vinyl chloride	<40.0	ug/L	40.0	13.8	200		05/09/17 15:33	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

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**Sample: MW-8D-20170425**      **Lab ID: 10386679011**      Collected: 04/25/17 15:20      Received: 04/27/17 18:50      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>	Analytical Method: EPA 8260B								
Xylene (Total)	<b>4730</b>	ug/L	600	63.0	200		05/09/17 15:33	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	120	%	75-137		200		05/09/17 15:33	17060-07-0	
Toluene-d8 (S)	100	%	75-125		200		05/09/17 15:33	2037-26-5	
4-Bromofluorobenzene (S)	108	%	75-125		200		05/09/17 15:33	460-00-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Sample: MW-25-20170426 Lab ID: 10386679012 Collected: 04/26/17 08:20 Received: 04/27/17 18:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH SIM HVI</b>									
Analytical Method: EPA 8270D by HVI Preparation Method: EPA Mod. 3510C									
Acenaphthene	<0.040	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 23:03	83-32-9	N2
Acenaphthylene	<0.040	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 23:03	208-96-8	N2
Anthracene	<0.040	ug/L	0.040	0.0082	1	05/01/17 14:11	05/12/17 23:03	120-12-7	N2
Benzo(a)anthracene	<0.040	ug/L	0.040	0.0098	1	05/01/17 14:11	05/12/17 23:03	56-55-3	N2
Benzo(a)pyrene	<0.040	ug/L	0.040	0.0025	1	05/01/17 14:11	05/12/17 23:03	50-32-8	N2
Benzo(b)fluoranthene	<0.040	ug/L	0.040	0.0017	1	05/01/17 14:11	05/12/17 23:03	205-99-2	N2
Benzo(e)pyrene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 23:03	192-97-2	N2
Benzo(g,h,i)perylene	<0.040	ug/L	0.040	0.0020	1	05/01/17 14:11	05/12/17 23:03	191-24-2	N2
Benzo(k)fluoranthene	<0.040	ug/L	0.040	0.0099	1	05/01/17 14:11	05/12/17 23:03	207-08-9	N2
2-Chloronaphthalene	<0.040	ug/L	0.040	0.0092	1	05/01/17 14:11	05/12/17 23:03	91-58-7	N2
Chrysene	<0.040	ug/L	0.040	0.0024	1	05/01/17 14:11	05/12/17 23:03	218-01-9	N2
Dibenz(a,h)anthracene	<0.040	ug/L	0.040	0.0079	1	05/01/17 14:11	05/12/17 23:03	53-70-3	L2,N2
Dibenzofuran	<0.040	ug/L	0.040	0.0095	1	05/01/17 14:11	05/12/17 23:03	132-64-9	N2
Fluoranthene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 23:03	206-44-0	N2
Fluorene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 23:03	86-73-7	N2
Indeno(1,2,3-cd)pyrene	<0.040	ug/L	0.040	0.0014	1	05/01/17 14:11	05/12/17 23:03	193-39-5	N2
1-Methylnaphthalene	<0.040	ug/L	0.040	0.0069	1	05/01/17 14:11	05/12/17 23:03	90-12-0	N2
2-Methylnaphthalene	<0.040	ug/L	0.040	0.011	1	05/01/17 14:11	05/12/17 23:03	91-57-6	N2
Naphthalene	<0.16	ug/L	0.16	0.012	1	05/01/17 14:11	05/12/17 23:03	91-20-3	N2
Phenanthrene	<0.040	ug/L	0.040	0.0094	1	05/01/17 14:11	05/12/17 23:03	85-01-8	N2
Pyrene	0.13	ug/L	0.040	0.0029	1	05/01/17 14:11	05/12/17 23:03	129-00-0	N2
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	64	%	30-136		1	05/01/17 14:11	05/12/17 23:03	321-60-8	N2
p-Terphenyl-d14 (S)	69	%	30-125		1	05/01/17 14:11	05/12/17 23:03	1718-51-0	N2
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Acetone	<20.0	ug/L	20.0	2.0	1		05/07/17 08:29	67-64-1	
Allyl chloride	<4.0	ug/L	4.0	0.25	1		05/07/17 08:29	107-05-1	
Benzene	<1.0	ug/L	1.0	0.16	1		05/07/17 08:29	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.34	1		05/07/17 08:29	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.19	1		05/07/17 08:29	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.24	1		05/07/17 08:29	75-27-4	
Bromoform	<4.0	ug/L	4.0	0.27	1		05/07/17 08:29	75-25-2	
Bromomethane	<10.0	ug/L	10.0	0.44	1		05/07/17 08:29	74-83-9	
2-Butanone (MEK)	<5.0	ug/L	5.0	1.1	1		05/07/17 08:29	78-93-3	
n-Butylbenzene	<1.0	ug/L	1.0	0.16	1		05/07/17 08:29	104-51-8	
sec-Butylbenzene	<4.0	ug/L	4.0	0.19	1		05/07/17 08:29	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.22	1		05/07/17 08:29	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.20	1		05/07/17 08:29	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.11	1		05/07/17 08:29	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.34	1		05/07/17 08:29	75-00-3	
Chloroform	<1.0	ug/L	1.0	0.21	1		05/07/17 08:29	67-66-3	
Chloromethane	<4.0	ug/L	4.0	0.25	1		05/07/17 08:29	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.30	1		05/07/17 08:29	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.26	1		05/07/17 08:29	106-43-4	
1,2-Dibromo-3-chloropropane	<4.0	ug/L	4.0	0.60	1		05/07/17 08:29	96-12-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Sample: MW-25-20170426 Lab ID: 10386679012 Collected: 04/26/17 08:20 Received: 04/27/17 18:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Dibromochloromethane	<1.0	ug/L	1.0	0.16	1		05/07/17 08:29	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.20	1		05/07/17 08:29	106-93-4	
Dibromomethane	<4.0	ug/L	4.0	0.19	1		05/07/17 08:29	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.17	1		05/07/17 08:29	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.12	1		05/07/17 08:29	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/07/17 08:29	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.23	1		05/07/17 08:29	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.17	1		05/07/17 08:29	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.17	1		05/07/17 08:29	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.28	1		05/07/17 08:29	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.12	1		05/07/17 08:29	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.16	1		05/07/17 08:29	156-60-5	
Dichlorofluoromethane	<1.0	ug/L	1.0	0.21	1		05/07/17 08:29	75-43-4	
1,2-Dichloropropane	<4.0	ug/L	4.0	0.22	1		05/07/17 08:29	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.096	1		05/07/17 08:29	142-28-9	
2,2-Dichloropropane	<4.0	ug/L	4.0	0.13	1		05/07/17 08:29	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.23	1		05/07/17 08:29	563-58-6	
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		05/07/17 08:29	10061-01-5	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	0.15	1		05/07/17 08:29	10061-02-6	
Diethyl ether (Ethyl ether)	<4.0	ug/L	4.0	0.19	1		05/07/17 08:29	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.15	1		05/07/17 08:29	100-41-4	
Hexachloro-1,3-butadiene	<4.0	ug/L	4.0	0.18	1		05/07/17 08:29	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.25	1		05/07/17 08:29	98-82-8	
p-Isopropyltoluene	<4.0	ug/L	4.0	0.19	1		05/07/17 08:29	99-87-6	
Methylene Chloride	<4.0	ug/L	4.0	0.29	1		05/07/17 08:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	0.43	1		05/07/17 08:29	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.15	1		05/07/17 08:29	1634-04-4	
Naphthalene	<4.0	ug/L	4.0	0.20	1		05/07/17 08:29	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.23	1		05/07/17 08:29	103-65-1	
Styrene	<1.0	ug/L	1.0	0.29	1		05/07/17 08:29	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.17	1		05/07/17 08:29	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.22	1		05/07/17 08:29	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.25	1		05/07/17 08:29	127-18-4	
Tetrahydrofuran	<10.0	ug/L	10.0	1.5	1		05/07/17 08:29	109-99-9	
Toluene	<1.0	ug/L	1.0	0.14	1		05/07/17 08:29	108-88-3	B
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/07/17 08:29	87-61-6	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	0.21	1		05/07/17 08:29	120-82-1	
1,1,1-Trichloroethane	<4.0	ug/L	4.0	0.17	1		05/07/17 08:29	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	0.15	1		05/07/17 08:29	79-00-5	
Trichloroethene	<0.40	ug/L	0.40	0.052	1		05/07/17 08:29	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.33	1		05/07/17 08:29	75-69-4	
1,2,3-Trichloropropane	<4.0	ug/L	4.0	0.28	1		05/07/17 08:29	96-18-4	
1,1,2-Trichlorotrifluoroethane	<10.0	ug/L	10.0	0.32	1		05/07/17 08:29	76-13-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.18	1		05/07/17 08:29	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.27	1		05/07/17 08:29	108-67-8	
Vinyl chloride	<0.20	ug/L	0.20	0.069	1		05/07/17 08:29	75-01-4	

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## ANALYTICAL RESULTS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

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**Sample: MW-25-20170426**      **Lab ID: 10386679012**      Collected: 04/26/17 08:20      Received: 04/27/17 18:50      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
Xylene (Total)	<b>&lt;3.0</b>	ug/L	3.0	0.32	1		05/07/17 08:29	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	117	%	75-137		1		05/07/17 08:29	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1		05/07/17 08:29	2037-26-5	
4-Bromofluorobenzene (S)	106	%	75-125		1		05/07/17 08:29	460-00-4	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

QC Batch: 472067 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV 465 W  
Associated Lab Samples: 10386679001, 10386679002

METHOD BLANK: 2575758 Matrix: Water

Associated Lab Samples: 10386679001, 10386679002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	05/03/17 15:39	
1,1,1-Trichloroethane	ug/L	<4.0	4.0	05/03/17 15:39	MN
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	05/03/17 15:39	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	05/03/17 15:39	
1,1,2-Trichlorotrifluoroethane	ug/L	<10.0	10.0	05/03/17 15:39	MN
1,1-Dichloroethane	ug/L	<1.0	1.0	05/03/17 15:39	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/03/17 15:39	
1,1-Dichloropropene	ug/L	<1.0	1.0	05/03/17 15:39	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	05/03/17 15:39	
1,2,3-Trichloropropane	ug/L	<4.0	4.0	05/03/17 15:39	
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	05/03/17 15:39	
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	05/03/17 15:39	
1,2-Dibromo-3-chloropropane	ug/L	<4.0	4.0	05/03/17 15:39	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	05/03/17 15:39	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	05/03/17 15:39	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/03/17 15:39	
1,2-Dichloropropane	ug/L	<4.0	4.0	05/03/17 15:39	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	05/03/17 15:39	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	05/03/17 15:39	
1,3-Dichloropropane	ug/L	<1.0	1.0	05/03/17 15:39	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	05/03/17 15:39	
2,2-Dichloropropane	ug/L	<4.0	4.0	05/03/17 15:39	
2-Butanone (MEK)	ug/L	<5.0	5.0	05/03/17 15:39	
2-Chlorotoluene	ug/L	<1.0	1.0	05/03/17 15:39	
4-Chlorotoluene	ug/L	<1.0	1.0	05/03/17 15:39	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	05/03/17 15:39	
Acetone	ug/L	<20.0	20.0	05/03/17 15:39	
Allyl chloride	ug/L	<4.0	4.0	05/03/17 15:39	
Benzene	ug/L	<1.0	1.0	05/03/17 15:39	
Bromobenzene	ug/L	<1.0	1.0	05/03/17 15:39	
Bromochloromethane	ug/L	<1.0	1.0	05/03/17 15:39	
Bromodichloromethane	ug/L	<1.0	1.0	05/03/17 15:39	
Bromoform	ug/L	<4.0	4.0	05/03/17 15:39	
Bromomethane	ug/L	<10.0	10.0	05/03/17 15:39	MN
Carbon tetrachloride	ug/L	<1.0	1.0	05/03/17 15:39	
Chlorobenzene	ug/L	<1.0	1.0	05/03/17 15:39	
Chloroethane	ug/L	<1.0	1.0	05/03/17 15:39	
Chloroform	ug/L	<1.0	1.0	05/03/17 15:39	
Chloromethane	ug/L	<4.0	4.0	05/03/17 15:39	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	05/03/17 15:39	
cis-1,3-Dichloropropene	ug/L	<4.0	4.0	05/03/17 15:39	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

METHOD BLANK: 2575758

Matrix: Water

Associated Lab Samples: 10386679001, 10386679002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<1.0	1.0	05/03/17 15:39	
Dibromomethane	ug/L	<4.0	4.0	05/03/17 15:39	
Dichlorodifluoromethane	ug/L	<1.0	1.0	05/03/17 15:39	
Dichlorofluoromethane	ug/L	<1.0	1.0	05/03/17 15:39	
Diethyl ether (Ethyl ether)	ug/L	<4.0	4.0	05/03/17 15:39	
Ethylbenzene	ug/L	<1.0	1.0	05/03/17 15:39	
Hexachloro-1,3-butadiene	ug/L	<4.0	4.0	05/03/17 15:39	MN
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	05/03/17 15:39	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	05/03/17 15:39	
Methylene Chloride	ug/L	<4.0	4.0	05/03/17 15:39	
n-Butylbenzene	ug/L	<1.0	1.0	05/03/17 15:39	
n-Propylbenzene	ug/L	<1.0	1.0	05/03/17 15:39	
Naphthalene	ug/L	<4.0	4.0	05/03/17 15:39	
p-Isopropyltoluene	ug/L	<4.0	4.0	05/03/17 15:39	MN
sec-Butylbenzene	ug/L	<4.0	4.0	05/03/17 15:39	MN
Styrene	ug/L	<1.0	1.0	05/03/17 15:39	
tert-Butylbenzene	ug/L	<1.0	1.0	05/03/17 15:39	
Tetrachloroethene	ug/L	<1.0	1.0	05/03/17 15:39	
Tetrahydrofuran	ug/L	<10.0	10.0	05/03/17 15:39	
Toluene	ug/L	<1.0	1.0	05/03/17 15:39	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	05/03/17 15:39	
trans-1,3-Dichloropropene	ug/L	<4.0	4.0	05/03/17 15:39	
Trichloroethene	ug/L	<0.40	0.40	05/03/17 15:39	
Trichlorofluoromethane	ug/L	<1.0	1.0	05/03/17 15:39	
Vinyl chloride	ug/L	<0.20	0.20	05/03/17 15:39	
Xylene (Total)	ug/L	<3.0	3.0	05/03/17 15:39	
1,2-Dichloroethane-d4 (S)	%	101	75-137	05/03/17 15:39	
4-Bromofluorobenzene (S)	%	100	75-125	05/03/17 15:39	
Toluene-d8 (S)	%	100	75-125	05/03/17 15:39	

LABORATORY CONTROL SAMPLE: 2575759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.4	97	75-125	
1,1,1-Trichloroethane	ug/L	50	46.4	93	69-125	
1,1,2,2-Tetrachloroethane	ug/L	50	50.5	101	70-125	
1,1,2-Trichloroethane	ug/L	50	50.0	100	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	44.5	89	70-133	
1,1-Dichloroethane	ug/L	50	46.6	93	62-130	
1,1-Dichloroethene	ug/L	50	47.8	96	64-134	
1,1-Dichloropropene	ug/L	50	46.8	94	65-129	
1,2,3-Trichlorobenzene	ug/L	50	49.3	99	75-125	
1,2,3-Trichloropropane	ug/L	50	55.0	110	70-125	
1,2,4-Trichlorobenzene	ug/L	50	49.0	98	75-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

LABORATORY CONTROL SAMPLE: 2575759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	49.9	100	69-135	
1,2-Dibromo-3-chloropropane	ug/L	125	125	100	73-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.0	100	75-125	
1,2-Dichlorobenzene	ug/L	50	49.0	98	75-125	
1,2-Dichloroethane	ug/L	50	41.4	83	64-126	
1,2-Dichloropropane	ug/L	50	48.0	96	73-125	
1,3,5-Trimethylbenzene	ug/L	50	50.9	102	71-129	
1,3-Dichlorobenzene	ug/L	50	50.3	101	75-125	
1,3-Dichloropropane	ug/L	50	49.7	99	74-125	
1,4-Dichlorobenzene	ug/L	50	48.5	97	75-125	
2,2-Dichloropropane	ug/L	50	42.3	85	59-135	
2-Butanone (MEK)	ug/L	250	240	96	57-142	
2-Chlorotoluene	ug/L	50	49.1	98	73-125	
4-Chlorotoluene	ug/L	50	49.2	98	74-128	
4-Methyl-2-pentanone (MIBK)	ug/L	250	277	111	56-142	
Acetone	ug/L	250	184	74	75-133 L2	
Allyl chloride	ug/L	50	44.9	90	62-139	
Benzene	ug/L	50	46.0	92	74-125	
Bromobenzene	ug/L	50	49.0	98	75-125	
Bromochloromethane	ug/L	50	47.4	95	75-125	
Bromodichloromethane	ug/L	50	47.7	95	72-125	
Bromoform	ug/L	50	45.6	91	74-125	
Bromomethane	ug/L	50	37.3	75	30-150	
Carbon tetrachloride	ug/L	50	42.4	85	67-130	
Chlorobenzene	ug/L	50	50.8	102	75-125	
Chloroethane	ug/L	50	39.8	80	63-137	
Chloroform	ug/L	50	45.5	91	68-128	
Chloromethane	ug/L	50	44.9	90	46-145	
cis-1,2-Dichloroethene	ug/L	50	44.9	90	75-125	
cis-1,3-Dichloropropene	ug/L	50	46.9	94	73-125	
Dibromochloromethane	ug/L	50	48.2	96	75-125	
Dibromomethane	ug/L	50	51.0	102	73-125	
Dichlorodifluoromethane	ug/L	50	46.7	93	36-150	
Dichlorofluoromethane	ug/L	50	45.7	91	75-125	
Diethyl ether (Ethyl ether)	ug/L	50	46.1	92	62-136	
Ethylbenzene	ug/L	50	47.1	94	73-125	
Hexachloro-1,3-butadiene	ug/L	50	44.4	89	69-141	
Isopropylbenzene (Cumene)	ug/L	50	50.0	100	75-126	
Methyl-tert-butyl ether	ug/L	50	46.2	92	70-130	
Methylene Chloride	ug/L	50	44.0	88	74-125	
n-Butylbenzene	ug/L	50	45.6	91	69-133	
n-Propylbenzene	ug/L	50	49.1	98	75-125	
Naphthalene	ug/L	50	49.1	98	66-129	
p-Isopropyltoluene	ug/L	50	47.9	96	73-127	
sec-Butylbenzene	ug/L	50	48.8	98	75-131	
Styrene	ug/L	50	49.6	99	75-128	
tert-Butylbenzene	ug/L	50	50.8	102	75-127	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

LABORATORY CONTROL SAMPLE: 2575759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	50	48.9	98	71-127	
Tetrahydrofuran	ug/L	500	474	95	75-132	
Toluene	ug/L	50	47.5	95	75-125	
trans-1,2-Dichloroethene	ug/L	50	47.2	94	69-127	
trans-1,3-Dichloropropene	ug/L	50	47.3	95	70-128	
Trichloroethene	ug/L	50	48.0	96	70-125	
Trichlorofluoromethane	ug/L	50	45.0	90	71-125	
Vinyl chloride	ug/L	50	49.3	99	69-133	
Xylene (Total)	ug/L	150	149	100	75-125	
1,2-Dichloroethane-d4 (S)	%			98	75-137	
4-Bromofluorobenzene (S)	%			98	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2576350 2576351

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10386313002 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.1	17.9	100	89	75-138	11	30
1,1,1-Trichloroethane	ug/L	ND	20	20	20.6	18.6	103	93	75-145	10	30
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.1	16.1	91	80	73-150	12	30
1,1,2-Trichloroethane	ug/L	ND	20	20	20.5	19.0	103	95	75-140	8	30
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	21.9	19.6	109	98	74-150	11	30
1,1-Dichloroethane	ug/L	ND	20	20	20.5	18.2	103	91	75-140	12	30
1,1-Dichloroethene	ug/L	ND	20	20	22.7	21.1	113	106	73-150	7	30
1,1-Dichloropropene	ug/L	ND	20	20	21.0	18.8	105	94	75-150	11	30
1,2,3-Trichlorobenzene	ug/L	ND	20	20	17.4	16.0	87	80	57-147	8	30
1,2,3-Trichloropropane	ug/L	ND	20	20	19.8	17.4	99	87	75-147	13	30
1,2,4-Trichlorobenzene	ug/L	ND	20	20	18.2	16.2	91	81	59-142	12	30
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.5	18.6	107	93	73-141	14	30
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	39.0	36.6	78	73	65-136	6	30
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.9	18.1	99	91	75-131	9	30
1,2-Dichlorobenzene	ug/L	ND	20	20	21.3	18.6	106	93	75-141	13	30
1,2-Dichloroethane	ug/L	ND	20	20	18.2	16.5	91	82	75-125	10	30
1,2-Dichloropropane	ug/L	ND	20	20	19.8	18.3	99	92	71-147	8	30
1,3,5-Trimethylbenzene	ug/L	ND	20	20	22.5	19.2	112	96	75-139	15	30
1,3-Dichlorobenzene	ug/L	ND	20	20	22.0	19.0	110	95	75-142	15	30
1,3-Dichloropropane	ug/L	ND	20	20	19.1	17.6	96	88	75-141	8	30
1,4-Dichlorobenzene	ug/L	ND	20	20	21.1	18.6	105	93	75-139	13	30
2,2-Dichloropropane	ug/L	ND	20	20	19.9	18.8	99	94	60-150	5	30
2-Butanone (MEK)	ug/L	ND	100	100	76.2	73.2	76	73	68-133	4	30
2-Chlorotoluene	ug/L	ND	20	20	22.1	19.7	111	99	75-146	12	30
4-Chlorotoluene	ug/L	ND	20	20	21.9	19.6	110	98	75-149	11	30
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	90.1	83.4	90	83	67-150	8	30
Acetone	ug/L	ND	100	100	82.7	77.6	83	78	56-150	6	30

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Parameter	Units	10386313002		MS		MSD		2576350		2576351		Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec	Max RPD		
Allyl chloride	ug/L	ND	20	20	20.2	18.6	101	93	66-134	8	30	
Benzene	ug/L	ND	20	20	21.3	19.0	107	95	74-134	11	30	
Bromobenzene	ug/L	ND	20	20	20.8	19.3	104	97	75-138	7	30	
Bromochloromethane	ug/L	ND	20	20	21.0	18.7	105	93	75-145	12	30	
Bromodichloromethane	ug/L	ND	20	20	19.6	18.5	98	92	75-143	6	30	
Bromoform	ug/L	ND	20	20	15.2	13.5	76	67	67-125	12	30	
Bromomethane	ug/L	ND	20	20	23.5	19.2	118	96	30-150	20	30	
Carbon tetrachloride	ug/L	ND	20	20	20.1	18.6	101	93	75-150	8	30	
Chlorobenzene	ug/L	ND	20	20	22.3	20.2	112	101	75-133	10	30	
Chloroethane	ug/L	ND	20	20	19.0	17.3	95	86	53-150	9	30	
Chloroform	ug/L	ND	20	20	21.1	18.7	105	94	75-134	12	30	
Chloromethane	ug/L	ND	20	20	20.7	17.7	103	88	41-150	16	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.3	18.2	102	91	73-140	11	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.2	16.1	91	80	72-140	12	30	
Dibromochloromethane	ug/L	ND	20	20	18.8	17.6	94	88	74-130	7	30	
Dibromomethane	ug/L	ND	20	20	20.3	17.8	102	89	70-141	14	30	
Dichlorodifluoromethane	ug/L	ND	20	20	20.9	20.0	104	100	50-150	4	30	
Dichlorofluoromethane	ug/L	ND	20	20	20.7	18.3	103	91	62-150	12	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	20.1	18.1	100	90	71-141	11	30	
Ethylbenzene	ug/L	ND	20	20	19.9	17.8	100	89	75-136	11	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	19.7	18.1	98	90	47-150	8	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.9	18.9	104	95	75-138	10	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.8	17.0	94	85	75-128	10	30	
Methylene Chloride	ug/L	ND	20	20	19.9	17.8	100	89	69-150	11	30	
n-Butylbenzene	ug/L	ND	20	20	18.3	16.2	92	81	68-150	12	30	
n-Propylbenzene	ug/L	ND	20	20	21.2	18.9	106	95	74-150	11	30	
Naphthalene	ug/L	ND	20	20	13.7	14.2	68	71	61-138	4	30	
p-Isopropyltoluene	ug/L	ND	20	20	19.0	16.4	95	82	70-142	14	30	
sec-Butylbenzene	ug/L	ND	20	20	19.9	17.5	99	88	74-150	13	30	
Styrene	ug/L	ND	20	20	21.4	19.0	107	95	70-140	12	30	
tert-Butylbenzene	ug/L	ND	20	20	22.7	19.3	113	97	73-140	16	30	
Tetrachloroethene	ug/L	ND	20	20	22.8	20.4	114	102	72-141	11	30	
Tetrahydrofuran	ug/L	ND	200	200	212	185	106	92	53-150	14	30	
Toluene	ug/L	ND	20	20	21.1	19.3	106	97	71-138	9	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.5	20.5	112	102	74-149	9	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.8	16.5	94	83	74-138	13	30	
Trichloroethene	ug/L	ND	20	20	20.7	19.4	104	97	70-150	6	30	
Trichlorofluoromethane	ug/L	ND	20	20	21.6	20.1	108	101	57-150	7	30	
Vinyl chloride	ug/L	ND	20	20	19.3	17.1	96	86	59-150	12	30	
Xylene (Total)	ug/L	ND	60	60	63.2	56.4	105	94	75-131	11	30	
1,2-Dichloroethane-d4 (S)	%						98	96	75-137			
4-Bromofluorobenzene (S)	%						100	98	75-125			
Toluene-d8 (S)	%						100	100	75-125			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

QC Batch: 472223 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 8260B Analysis Description: 8260B MSV 465 W  
 Associated Lab Samples: 10386679003, 10386679004, 10386679005, 10386679006, 10386679007, 10386679008, 10386679009

METHOD BLANK: 2576543 Matrix: Water  
 Associated Lab Samples: 10386679003, 10386679004, 10386679005, 10386679006, 10386679007, 10386679008, 10386679009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	05/04/17 22:35	
1,1,1-Trichloroethane	ug/L	<4.0	4.0	05/04/17 22:35	MN
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	05/04/17 22:35	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	05/04/17 22:35	
1,1,2-Trichlorotrifluoroethane	ug/L	<10.0	10.0	05/04/17 22:35	MN
1,1-Dichloroethane	ug/L	<1.0	1.0	05/04/17 22:35	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/04/17 22:35	
1,1-Dichloropropene	ug/L	<1.0	1.0	05/04/17 22:35	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	05/04/17 22:35	
1,2,3-Trichloropropane	ug/L	<4.0	4.0	05/04/17 22:35	
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	05/04/17 22:35	
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	05/04/17 22:35	
1,2-Dibromo-3-chloropropane	ug/L	<4.0	4.0	05/04/17 22:35	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	05/04/17 22:35	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	05/04/17 22:35	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/04/17 22:35	
1,2-Dichloropropane	ug/L	<4.0	4.0	05/04/17 22:35	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	05/04/17 22:35	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	05/04/17 22:35	
1,3-Dichloropropane	ug/L	<1.0	1.0	05/04/17 22:35	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	05/04/17 22:35	
2,2-Dichloropropane	ug/L	<4.0	4.0	05/04/17 22:35	
2-Butanone (MEK)	ug/L	<5.0	5.0	05/04/17 22:35	
2-Chlorotoluene	ug/L	<1.0	1.0	05/04/17 22:35	
4-Chlorotoluene	ug/L	<1.0	1.0	05/04/17 22:35	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	05/04/17 22:35	
Acetone	ug/L	<20.0	20.0	05/04/17 22:35	
Allyl chloride	ug/L	<4.0	4.0	05/04/17 22:35	
Benzene	ug/L	<1.0	1.0	05/04/17 22:35	
Bromobenzene	ug/L	<1.0	1.0	05/04/17 22:35	
Bromochloromethane	ug/L	<1.0	1.0	05/04/17 22:35	
Bromodichloromethane	ug/L	<1.0	1.0	05/04/17 22:35	
Bromoform	ug/L	<4.0	4.0	05/04/17 22:35	
Bromomethane	ug/L	<10.0	10.0	05/04/17 22:35	MN
Carbon tetrachloride	ug/L	<1.0	1.0	05/04/17 22:35	
Chlorobenzene	ug/L	<1.0	1.0	05/04/17 22:35	
Chloroethane	ug/L	<1.0	1.0	05/04/17 22:35	
Chloroform	ug/L	<1.0	1.0	05/04/17 22:35	
Chloromethane	ug/L	<4.0	4.0	05/04/17 22:35	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	05/04/17 22:35	
cis-1,3-Dichloropropene	ug/L	<4.0	4.0	05/04/17 22:35	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

METHOD BLANK: 2576543

Matrix: Water

Associated Lab Samples: 10386679003, 10386679004, 10386679005, 10386679006, 10386679007, 10386679008, 10386679009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<1.0	1.0	05/04/17 22:35	
Dibromomethane	ug/L	<4.0	4.0	05/04/17 22:35	
Dichlorodifluoromethane	ug/L	<1.0	1.0	05/04/17 22:35	
Dichlorofluoromethane	ug/L	<1.0	1.0	05/04/17 22:35	
Diethyl ether (Ethyl ether)	ug/L	<4.0	4.0	05/04/17 22:35	
Ethylbenzene	ug/L	<1.0	1.0	05/04/17 22:35	
Hexachloro-1,3-butadiene	ug/L	<4.0	4.0	05/04/17 22:35	MN
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	05/04/17 22:35	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	05/04/17 22:35	
Methylene Chloride	ug/L	<4.0	4.0	05/04/17 22:35	
n-Butylbenzene	ug/L	<1.0	1.0	05/04/17 22:35	
n-Propylbenzene	ug/L	<1.0	1.0	05/04/17 22:35	
Naphthalene	ug/L	<4.0	4.0	05/04/17 22:35	
p-Isopropyltoluene	ug/L	<4.0	4.0	05/04/17 22:35	MN
sec-Butylbenzene	ug/L	<4.0	4.0	05/04/17 22:35	MN
Styrene	ug/L	<1.0	1.0	05/04/17 22:35	
tert-Butylbenzene	ug/L	<1.0	1.0	05/04/17 22:35	
Tetrachloroethene	ug/L	<1.0	1.0	05/04/17 22:35	
Tetrahydrofuran	ug/L	<10.0	10.0	05/04/17 22:35	
Toluene	ug/L	<1.0	1.0	05/04/17 22:35	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	05/04/17 22:35	
trans-1,3-Dichloropropene	ug/L	<4.0	4.0	05/04/17 22:35	
Trichloroethene	ug/L	<0.40	0.40	05/04/17 22:35	
Trichlorofluoromethane	ug/L	<1.0	1.0	05/04/17 22:35	
Vinyl chloride	ug/L	<0.20	0.20	05/04/17 22:35	
Xylene (Total)	ug/L	<3.0	3.0	05/04/17 22:35	
1,2-Dichloroethane-d4 (S)	%	106	75-137	05/04/17 22:35	
4-Bromofluorobenzene (S)	%	103	75-125	05/04/17 22:35	
Toluene-d8 (S)	%	101	75-125	05/04/17 22:35	

LABORATORY CONTROL SAMPLE: 2576544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.3	99	75-125	
1,1,1-Trichloroethane	ug/L	50	49.2	98	69-125	
1,1,2,2-Tetrachloroethane	ug/L	50	44.9	90	70-125	
1,1,2-Trichloroethane	ug/L	50	48.5	97	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	49.2	98	70-133	
1,1-Dichloroethane	ug/L	50	49.8	100	62-130	
1,1-Dichloroethene	ug/L	50	48.2	96	64-134	
1,1-Dichloropropene	ug/L	50	50.2	100	65-129	
1,2,3-Trichlorobenzene	ug/L	50	42.4	85	75-125	
1,2,3-Trichloropropane	ug/L	50	49.1	98	70-125	
1,2,4-Trichlorobenzene	ug/L	50	42.7	85	75-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

LABORATORY CONTROL SAMPLE: 2576544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	50.3	101	69-135	
1,2-Dibromo-3-chloropropane	ug/L	125	100	80	73-130	
1,2-Dibromoethane (EDB)	ug/L	50	47.9	96	75-125	
1,2-Dichlorobenzene	ug/L	50	48.2	96	75-125	
1,2-Dichloroethane	ug/L	50	44.3	89	64-126	
1,2-Dichloropropane	ug/L	50	50.2	100	73-125	
1,3,5-Trimethylbenzene	ug/L	50	51.5	103	71-129	
1,3-Dichlorobenzene	ug/L	50	49.9	100	75-125	
1,3-Dichloropropane	ug/L	50	47.9	96	74-125	
1,4-Dichlorobenzene	ug/L	50	48.2	96	75-125	
2,2-Dichloropropane	ug/L	50	42.2	84	59-135	
2-Butanone (MEK)	ug/L	250	200	80	57-142	
2-Chlorotoluene	ug/L	50	51.1	102	73-125	
4-Chlorotoluene	ug/L	50	50.4	101	74-128	
4-Methyl-2-pentanone (MIBK)	ug/L	250	230	92	56-142	
Acetone	ug/L	250	184	74	75-133 L2	
Allyl chloride	ug/L	50	45.5	91	62-139	
Benzene	ug/L	50	48.5	97	74-125	
Bromobenzene	ug/L	50	48.8	98	75-125	
Bromochloromethane	ug/L	50	48.2	96	75-125	
Bromodichloromethane	ug/L	50	49.1	98	72-125	
Bromoform	ug/L	50	42.6	85	74-125	
Bromomethane	ug/L	50	41.0	82	30-150	
Carbon tetrachloride	ug/L	50	45.5	91	67-130	
Chlorobenzene	ug/L	50	51.1	102	75-125	
Chloroethane	ug/L	50	45.2	90	63-137	
Chloroform	ug/L	50	48.3	97	68-128	
Chloromethane	ug/L	50	46.8	94	46-145	
cis-1,2-Dichloroethene	ug/L	50	46.3	93	75-125	
cis-1,3-Dichloropropene	ug/L	50	47.3	95	73-125	
Dibromochloromethane	ug/L	50	47.7	95	75-125	
Dibromomethane	ug/L	50	48.8	98	73-125	
Dichlorodifluoromethane	ug/L	50	49.2	98	36-150	
Dichlorofluoromethane	ug/L	50	47.9	96	75-125	
Diethyl ether (Ethyl ether)	ug/L	50	47.6	95	62-136	
Ethylbenzene	ug/L	50	48.4	97	73-125	
Hexachloro-1,3-butadiene	ug/L	50	38.7	77	69-141	
Isopropylbenzene (Cumene)	ug/L	50	50.7	101	75-126	
Methyl-tert-butyl ether	ug/L	50	46.6	93	70-130	
Methylene Chloride	ug/L	50	45.9	92	74-125	
n-Butylbenzene	ug/L	50	43.0	86	69-133	
n-Propylbenzene	ug/L	50	50.3	101	75-125	
Naphthalene	ug/L	50	42.3	85	66-129	
p-Isopropyltoluene	ug/L	50	46.2	92	73-127	
sec-Butylbenzene	ug/L	50	47.6	95	75-131	
Styrene	ug/L	50	49.7	99	75-128	
tert-Butylbenzene	ug/L	50	51.2	102	75-127	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

LABORATORY CONTROL SAMPLE: 2576544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethane	ug/L	50	50.1	100	71-127	
Tetrahydrofuran	ug/L	500	471	94	75-132	
Toluene	ug/L	50	49.1	98	75-125	
trans-1,2-Dichloroethene	ug/L	50	47.9	96	69-127	
trans-1,3-Dichloropropene	ug/L	50	47.4	95	70-128	
Trichloroethene	ug/L	50	48.6	97	70-125	
Trichlorofluoromethane	ug/L	50	48.6	97	71-125	
Vinyl chloride	ug/L	50	49.8	100	69-133	
Xylene (Total)	ug/L	150	154	103	75-125	
1,2-Dichloroethane-d4 (S)	%			101	75-137	
4-Bromofluorobenzene (S)	%			99	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2577750 2577751

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10387780001 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	ug/L	ND	200	200	193	178	97	89	75-138	8	30
1,1,1-Trichloroethane	ug/L	ND	200	200	210	200	98	93	75-145	5	30
1,1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	184	167	92	84	73-150	10	30
1,1,1,2-Trichloroethane	ug/L	ND	200	200	195	185	98	93	75-140	5	30
1,1,2-Trichlorotrifluoroethane	ug/L	ND	200	200	186	171	93	86	74-150	8	30
1,1-Dichloroethane	ug/L	ND	200	200	189	178	95	89	75-140	6	30
1,1-Dichloroethene	ug/L	ND	200	200	192	185	96	93	73-150	4	30
1,1-Dichloropropene	ug/L	ND	200	200	185	173	93	87	75-150	7	30
1,2,3-Trichlorobenzene	ug/L	ND	200	200	187	163	94	82	57-147	14	30
1,2,3-Trichloropropane	ug/L	ND	200	200	199	185	100	92	75-147	8	30
1,2,4-Trichlorobenzene	ug/L	ND	200	200	187	162	94	81	59-142	15	30
1,2,4-Trimethylbenzene	ug/L	ND	200	200	213	197	104	96	73-141	8	30
1,2-Dibromo-3-chloropropane	ug/L	ND	500	500	414	347	83	69	65-136	17	30
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	191	179	96	90	75-131	7	30
1,2-Dichlorobenzene	ug/L	ND	200	200	211	188	105	94	75-141	11	30
1,2-Dichloroethane	ug/L	ND	200	200	172	165	86	82	75-125	4	30
1,2-Dichloropropane	ug/L	ND	200	200	192	172	96	86	71-147	11	30
1,3,5-Trimethylbenzene	ug/L	ND	200	200	214	200	105	98	75-139	7	30
1,3-Dichlorobenzene	ug/L	ND	200	200	211	194	106	97	75-142	9	30
1,3-Dichloropropane	ug/L	ND	200	200	184	173	92	87	75-141	6	30
1,4-Dichlorobenzene	ug/L	ND	200	200	208	189	104	94	75-139	10	30
2,2-Dichloropropane	ug/L	ND	200	200	168	155	84	77	60-150	8	30
2-Butanone (MEK)	ug/L	ND	1000	1000	749	713	73	69	68-133	5	30
2-Chlorotoluene	ug/L	ND	200	200	216	198	108	99	75-146	8	30
4-Chlorotoluene	ug/L	ND	200	200	215	197	108	99	75-149	9	30
4-Methyl-2-pentanone (MIBK)	ug/L	ND	1000	1000	879	816	88	82	67-150	7	30
Acetone	ug/L	ND	1000	1000	859	768	81	72	56-150	11	30

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2577750												2577751	
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		10387780001 Result	Spike Conc.	Spike Conc.	Conc.								
Allyl chloride	ug/L	ND	200	200	200	180	165	90	82	66-134	9	30	
Benzene	ug/L	ND	200	200	200	195	182	97	91	74-134	7	30	
Bromobenzene	ug/L	ND	200	200	200	207	192	103	96	75-138	7	30	
Bromochloromethane	ug/L	ND	200	200	200	191	183	95	92	75-145	4	30	
Bromodichloromethane	ug/L	ND	200	200	200	194	178	97	89	75-143	9	30	
Bromoform	ug/L	ND	200	200	200	150	135	75	68	67-125	11	30	
Bromomethane	ug/L	ND	200	200	200	233	218	116	109	30-150	6	30	
Carbon tetrachloride	ug/L	ND	200	200	200	179	171	89	86	75-150	4	30	
Chlorobenzene	ug/L	ND	200	200	200	213	197	106	98	75-133	8	30	
Chloroethane	ug/L	ND	200	200	200	174	166	87	83	53-150	4	30	
Chloroform	ug/L	ND	200	200	200	195	186	97	93	75-134	5	30	
Chloromethane	ug/L	ND	200	200	200	182	170	91	85	41-150	7	30	
cis-1,2-Dichloroethene	ug/L	40.1	200	200	200	227	214	93	87	73-140	6	30	
cis-1,3-Dichloropropene	ug/L	ND	200	200	200	174	159	87	80	72-140	9	30	
Dibromochloromethane	ug/L	ND	200	200	200	189	167	95	83	74-130	13	30	
Dibromomethane	ug/L	ND	200	200	200	191	179	96	89	70-141	7	30	
Dichlorodifluoromethane	ug/L	ND	200	200	200	179	173	90	87	50-150	3	30	
Dichlorofluoromethane	ug/L	ND	200	200	200	199	192	99	96	62-150	4	30	
Diethyl ether (Ethyl ether)	ug/L	ND	200	200	200	188	172	94	86	71-141	9	30	
Ethylbenzene	ug/L	ND	200	200	200	186	171	93	86	75-136	8	30	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	200	188	165	94	83	47-150	13	30	
Isopropylbenzene (Cumene)	ug/L	ND	200	200	200	195	176	98	88	75-138	10	30	
Methyl-tert-butyl ether	ug/L	ND	200	200	200	182	173	91	86	75-128	5	30	
Methylene Chloride	ug/L	ND	200	200	200	184	174	90	84	69-150	6	30	
n-Butylbenzene	ug/L	ND	200	200	200	183	162	91	81	68-150	12	30	
n-Propylbenzene	ug/L	ND	200	200	200	208	189	104	95	74-150	9	30	
Naphthalene	ug/L	ND	200	200	200	175	152	88	76	61-138	14	30	
p-Isopropyltoluene	ug/L	ND	200	200	200	183	162	91	81	70-142	12	30	
sec-Butylbenzene	ug/L	ND	200	200	200	188	167	94	83	74-150	12	30	
Styrene	ug/L	ND	200	200	200	204	189	102	95	70-140	7	30	
tert-Butylbenzene	ug/L	ND	200	200	200	205	191	102	96	73-140	7	30	
Tetrachloroethene	ug/L	ND	200	200	200	197	187	99	94	72-141	5	30	
Tetrahydrofuran	ug/L	ND	2000	2000	2000	2080	1910	104	95	53-150	9	30	
Toluene	ug/L	ND	200	200	200	194	179	97	89	71-138	8	30	
trans-1,2-Dichloroethene	ug/L	ND	200	200	200	193	185	97	92	74-149	4	30	
trans-1,3-Dichloropropene	ug/L	ND	200	200	200	176	161	88	81	74-138	9	30	
Trichloroethene	ug/L	173	200	200	200	362	341	95	84	70-150	6	30	
Trichlorofluoromethane	ug/L	ND	200	200	200	207	191	103	95	57-150	8	30	
Vinyl chloride	ug/L	ND	200	200	200	172	164	86	82	59-150	5	30	
Xylene (Total)	ug/L	ND	600	600	600	581	546	97	91	75-131	6	30	
1,2-Dichloroethane-d4 (S)	%							100	103	75-137			
4-Bromofluorobenzene (S)	%							102	102	75-125			
Toluene-d8 (S)	%							101	101	75-125			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

QC Batch: 472600

Analysis Method: EPA 8260B

QC Batch Method: EPA 8260B

Analysis Description: 8260B MSV 465 W

Associated Lab Samples: 10386679012

METHOD BLANK: 2578805

Matrix: Water

Associated Lab Samples: 10386679012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	05/07/17 07:08	
1,1,1-Trichloroethane	ug/L	<4.0	4.0	05/07/17 07:08	MN
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	05/07/17 07:08	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	05/07/17 07:08	
1,1,2-Trichlorotrifluoroethane	ug/L	<10.0	10.0	05/07/17 07:08	MN
1,1-Dichloroethane	ug/L	<1.0	1.0	05/07/17 07:08	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/07/17 07:08	
1,1-Dichloropropene	ug/L	<1.0	1.0	05/07/17 07:08	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	05/07/17 07:08	
1,2,3-Trichloropropane	ug/L	<4.0	4.0	05/07/17 07:08	
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	05/07/17 07:08	
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	05/07/17 07:08	
1,2-Dibromo-3-chloropropane	ug/L	<4.0	4.0	05/07/17 07:08	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	05/07/17 07:08	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	05/07/17 07:08	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/07/17 07:08	
1,2-Dichloropropane	ug/L	<4.0	4.0	05/07/17 07:08	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	05/07/17 07:08	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	05/07/17 07:08	
1,3-Dichloropropane	ug/L	<1.0	1.0	05/07/17 07:08	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	05/07/17 07:08	
2,2-Dichloropropane	ug/L	<4.0	4.0	05/07/17 07:08	
2-Butanone (MEK)	ug/L	<5.0	5.0	05/07/17 07:08	
2-Chlorotoluene	ug/L	<1.0	1.0	05/07/17 07:08	
4-Chlorotoluene	ug/L	<1.0	1.0	05/07/17 07:08	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	05/07/17 07:08	
Acetone	ug/L	<20.0	20.0	05/07/17 07:08	
Allyl chloride	ug/L	<4.0	4.0	05/07/17 07:08	
Benzene	ug/L	<1.0	1.0	05/07/17 07:08	
Bromobenzene	ug/L	<1.0	1.0	05/07/17 07:08	
Bromochloromethane	ug/L	<1.0	1.0	05/07/17 07:08	
Bromodichloromethane	ug/L	<1.0	1.0	05/07/17 07:08	
Bromoform	ug/L	<4.0	4.0	05/07/17 07:08	
Bromomethane	ug/L	<10.0	10.0	05/07/17 07:08	MN
Carbon tetrachloride	ug/L	<1.0	1.0	05/07/17 07:08	
Chlorobenzene	ug/L	<1.0	1.0	05/07/17 07:08	
Chloroethane	ug/L	<1.0	1.0	05/07/17 07:08	
Chloroform	ug/L	<1.0	1.0	05/07/17 07:08	
Chloromethane	ug/L	<4.0	4.0	05/07/17 07:08	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	05/07/17 07:08	
cis-1,3-Dichloropropene	ug/L	<4.0	4.0	05/07/17 07:08	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

METHOD BLANK: 2578805

Matrix: Water

Associated Lab Samples: 10386679012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<1.0	1.0	05/07/17 07:08	
Dibromomethane	ug/L	<4.0	4.0	05/07/17 07:08	
Dichlorodifluoromethane	ug/L	<1.0	1.0	05/07/17 07:08	
Dichlorofluoromethane	ug/L	<1.0	1.0	05/07/17 07:08	
Diethyl ether (Ethyl ether)	ug/L	<4.0	4.0	05/07/17 07:08	
Ethylbenzene	ug/L	<1.0	1.0	05/07/17 07:08	
Hexachloro-1,3-butadiene	ug/L	<4.0	4.0	05/07/17 07:08	MN
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	05/07/17 07:08	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	05/07/17 07:08	
Methylene Chloride	ug/L	<4.0	4.0	05/07/17 07:08	
n-Butylbenzene	ug/L	<1.0	1.0	05/07/17 07:08	
n-Propylbenzene	ug/L	<1.0	1.0	05/07/17 07:08	
Naphthalene	ug/L	<4.0	4.0	05/07/17 07:08	
p-Isopropyltoluene	ug/L	<4.0	4.0	05/07/17 07:08	MN
sec-Butylbenzene	ug/L	<4.0	4.0	05/07/17 07:08	MN
Styrene	ug/L	<1.0	1.0	05/07/17 07:08	
tert-Butylbenzene	ug/L	<1.0	1.0	05/07/17 07:08	
Tetrachloroethene	ug/L	<1.0	1.0	05/07/17 07:08	
Tetrahydrofuran	ug/L	<10.0	10.0	05/07/17 07:08	
Toluene	ug/L	<1.0	1.0	05/07/17 07:08	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	05/07/17 07:08	
trans-1,3-Dichloropropene	ug/L	<4.0	4.0	05/07/17 07:08	
Trichloroethene	ug/L	<0.40	0.40	05/07/17 07:08	
Trichlorofluoromethane	ug/L	<1.0	1.0	05/07/17 07:08	
Vinyl chloride	ug/L	<0.20	0.20	05/07/17 07:08	
Xylene (Total)	ug/L	<3.0	3.0	05/07/17 07:08	
1,2-Dichloroethane-d4 (S)	%	117	75-137	05/07/17 07:08	
4-Bromofluorobenzene (S)	%	112	75-125	05/07/17 07:08	
Toluene-d8 (S)	%	100	75-125	05/07/17 07:08	

LABORATORY CONTROL SAMPLE: 2578806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.3	103	75-125	
1,1,1-Trichloroethane	ug/L	50	54.7	109	69-125	
1,1,2,2-Tetrachloroethane	ug/L	50	49.4	99	70-125	
1,1,2-Trichloroethane	ug/L	50	51.6	103	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	51.3	103	70-133	
1,1-Dichloroethane	ug/L	50	54.2	108	62-130	
1,1-Dichloroethene	ug/L	50	50.9	102	64-134	
1,1-Dichloropropene	ug/L	50	53.6	107	65-129	
1,2,3-Trichlorobenzene	ug/L	50	41.4	83	75-125	
1,2,3-Trichloropropane	ug/L	50	54.4	109	70-125	
1,2,4-Trichlorobenzene	ug/L	50	43.5	87	75-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

LABORATORY CONTROL SAMPLE: 2578806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	53.3	107	69-135	
1,2-Dibromo-3-chloropropane	ug/L	125	106	84	73-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.0	100	75-125	
1,2-Dichlorobenzene	ug/L	50	49.9	100	75-125	
1,2-Dichloroethane	ug/L	50	53.1	106	64-126	
1,2-Dichloropropane	ug/L	50	53.7	107	73-125	
1,3,5-Trimethylbenzene	ug/L	50	54.2	108	71-129	
1,3-Dichlorobenzene	ug/L	50	51.6	103	75-125	
1,3-Dichloropropane	ug/L	50	51.4	103	74-125	
1,4-Dichlorobenzene	ug/L	50	50.0	100	75-125	
2,2-Dichloropropane	ug/L	50	45.9	92	59-135	
2-Butanone (MEK)	ug/L	250	226	90	57-142	
2-Chlorotoluene	ug/L	50	55.4	111	73-125	
4-Chlorotoluene	ug/L	50	54.6	109	74-128	
4-Methyl-2-pentanone (MIBK)	ug/L	250	253	101	56-142	
Acetone	ug/L	250	194	78	75-133	
Allyl chloride	ug/L	50	46.4	93	62-139	
Benzene	ug/L	50	51.5	103	74-125	
Bromobenzene	ug/L	50	51.5	103	75-125	
Bromochloromethane	ug/L	50	51.4	103	75-125	
Bromodichloromethane	ug/L	50	55.1	110	72-125	
Bromoform	ug/L	50	44.7	89	74-125	
Bromomethane	ug/L	50	50.3	101	30-150	
Carbon tetrachloride	ug/L	50	51.4	103	67-130	
Chlorobenzene	ug/L	50	53.3	107	75-125	
Chloroethane	ug/L	50	45.4	91	63-137	
Chloroform	ug/L	50	54.7	109	68-128	
Chloromethane	ug/L	50	44.8	90	46-145	
cis-1,2-Dichloroethene	ug/L	50	50.8	102	75-125	
cis-1,3-Dichloropropene	ug/L	50	51.3	103	73-125	
Dibromochloromethane	ug/L	50	51.8	104	75-125	
Dibromomethane	ug/L	50	50.8	102	73-125	
Dichlorodifluoromethane	ug/L	50	50.7	101	36-150	
Dichlorofluoromethane	ug/L	50	50.6	101	75-125	
Diethyl ether (Ethyl ether)	ug/L	50	50.7	101	62-136	
Ethylbenzene	ug/L	50	51.2	102	73-125	
Hexachloro-1,3-butadiene	ug/L	50	37.2	74	69-141	
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	75-126	
Methyl-tert-butyl ether	ug/L	50	53.6	107	70-130	
Methylene Chloride	ug/L	50	48.6	97	74-125	
n-Butylbenzene	ug/L	50	44.0	88	69-133	
n-Propylbenzene	ug/L	50	53.5	107	75-125	
Naphthalene	ug/L	50	41.9	84	66-129	
p-Isopropyltoluene	ug/L	50	47.9	96	73-127	
sec-Butylbenzene	ug/L	50	49.1	98	75-131	
Styrene	ug/L	50	51.6	103	75-128	
tert-Butylbenzene	ug/L	50	54.3	109	75-127	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

LABORATORY CONTROL SAMPLE: 2578806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	50	49.1	98	71-127	
Tetrahydrofuran	ug/L	500	522	104	75-132	
Toluene	ug/L	50	51.0	102	75-125	
trans-1,2-Dichloroethene	ug/L	50	50.3	101	69-127	
trans-1,3-Dichloropropene	ug/L	50	51.5	103	70-128	
Trichloroethene	ug/L	50	51.6	103	70-125	
Trichlorofluoromethane	ug/L	50	51.0	102	71-125	
Vinyl chloride	ug/L	50	49.5	99	69-133	
Xylene (Total)	ug/L	150	157	105	75-125	
1,2-Dichloroethane-d4 (S)	%			112	75-137	
4-Bromofluorobenzene (S)	%			102	75-125	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2578807 2578808

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10387602002 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	24.2	21.5	121	108	75-138	12	30
1,1,1-Trichloroethane	ug/L	ND	20	20	26.3	25.6	132	128	75-145	3	30
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.8	20.8	114	104	73-150	9	30
1,1,2-Trichloroethane	ug/L	ND	20	20	24.9	22.4	124	112	75-140	11	30
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	20.4	23.5	102	117	74-150	14	30
1,1-Dichloroethane	ug/L	ND	20	20	26.3	23.9	131	119	75-140	9	30
1,1-Dichloroethene	ug/L	ND	20	20	24.7	24.2	123	121	73-150	2	30
1,1-Dichloropropene	ug/L	ND	20	20	24.5	25.5	122	127	75-150	4	30
1,2,3-Trichlorobenzene	ug/L	ND	20	20	15.4	15.7	77	79	57-147	2	30
1,2,3-Trichloropropane	ug/L	ND	20	20	24.9	21.7	124	109	75-147	13	30
1,2,4-Trichlorobenzene	ug/L	ND	20	20	17.2	17.0	86	85	59-142	1	30
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.4	22.3	107	112	73-141	4	30
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	45.4	42.6	91	85	65-136	6	30
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	23.4	21.3	117	107	75-131	9	30
1,2-Dichlorobenzene	ug/L	ND	20	20	21.2	20.8	106	104	75-141	2	30
1,2-Dichloroethane	ug/L	ND	20	20	24.8	22.9	124	114	75-125	8	30
1,2-Dichloropropane	ug/L	ND	20	20	25.3	22.5	126	113	71-147	11	30
1,3,5-Trimethylbenzene	ug/L	ND	20	20	22.7	22.9	113	115	75-139	1	30
1,3-Dichlorobenzene	ug/L	ND	20	20	21.3	21.4	106	107	75-142	1	30
1,3-Dichloropropane	ug/L	ND	20	20	23.8	22.3	119	111	75-141	7	30
1,4-Dichlorobenzene	ug/L	ND	20	20	20.9	21.2	104	106	75-139	2	30
2,2-Dichloropropane	ug/L	ND	20	20	20.2	20.4	101	102	60-150	1	30
2-Butanone (MEK)	ug/L	ND	100	100	100	92.8	100	93	68-133	8	30
2-Chlorotoluene	ug/L	ND	20	20	23.1	23.3	115	116	75-146	1	30
4-Chlorotoluene	ug/L	ND	20	20	22.6	23.5	113	117	75-149	4	30
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	118	105	118	105	67-150	12	30
Acetone	ug/L	ND	100	100	93.0	84.0	93	84	56-150	10	30

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2578807		2578808									
Parameter	Units	10387602002	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits				
Allyl chloride	ug/L	ND	20	20	22.7	21.3	114	106	66-134	7	30		
Benzene	ug/L	29.1	20	20	51.9	51.4	114	112	74-134	1	30		
Bromobenzene	ug/L	ND	20	20	21.9	21.9	109	110	75-138	0	30		
Bromochloromethane	ug/L	ND	20	20	23.9	22.4	120	112	75-145	6	30		
Bromodichloromethane	ug/L	ND	20	20	25.0	23.4	125	117	75-143	6	30		
Bromoform	ug/L	ND	20	20	19.3	17.7	96	88	67-125	9	30		
Bromomethane	ug/L	ND	20	20	30.1	35.7	151	178	30-150	17	30	M1	
Carbon tetrachloride	ug/L	ND	20	20	23.6	24.1	118	121	75-150	2	30		
Chlorobenzene	ug/L	ND	20	20	24.0	23.2	120	116	75-133	3	30		
Chloroethane	ug/L	ND	20	20	23.4	21.9	117	109	53-150	7	30		
Chloroform	ug/L	ND	20	20	26.0	22.6	130	113	75-134	14	30		
Chloromethane	ug/L	ND	20	20	24.4	22.5	122	112	41-150	8	30		
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.8	21.9	119	110	73-140	8	30		
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.7	21.5	113	107	72-140	5	30		
Dibromochloromethane	ug/L	ND	20	20	23.2	21.5	116	108	74-130	7	30		
Dibromomethane	ug/L	ND	20	20	23.5	22.0	118	110	70-141	7	30		
Dichlorodifluoromethane	ug/L	ND	20	20	24.9	23.7	124	118	50-150	5	30		
Dichlorofluoromethane	ug/L	ND	20	20	27.9	24.5	139	123	62-150	13	30		
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	23.8	21.6	119	108	71-141	10	30		
Ethylbenzene	ug/L	0.68J	20	20	23.1	22.8	112	111	75-136	1	30		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	15.9	17.2	79	86	47-150	8	30		
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.7	22.3	104	111	75-138	7	30		
Methyl-tert-butyl ether	ug/L	ND	20	20	24.5	22.8	123	114	75-128	7	30		
Methylene Chloride	ug/L	ND	20	20	23.3	21.7	117	108	69-150	7	30		
n-Butylbenzene	ug/L	ND	20	20	16.0	17.9	80	90	68-150	12	30		
n-Propylbenzene	ug/L	ND	20	20	21.7	23.0	108	115	74-150	6	30		
Naphthalene	ug/L	ND	20	20	15.2	16.6	76	83	61-138	9	30		
p-Isopropyltoluene	ug/L	ND	20	20	17.7	19.1	88	96	70-142	8	30		
sec-Butylbenzene	ug/L	ND	20	20	18.1	19.8	90	99	74-150	9	30		
Styrene	ug/L	ND	20	20	22.4	21.6	112	108	70-140	4	30		
tert-Butylbenzene	ug/L	ND	20	20	21.7	22.5	109	113	73-140	4	30		
Tetrachloroethene	ug/L	ND	20	20	21.6	22.1	108	111	72-141	2	30		
Tetrahydrofuran	ug/L	ND	200	200	235	218	117	109	53-150	7	30		
Toluene	ug/L	0.66J	20	20	24.0	22.4	117	108	71-138	7	30		
trans-1,2-Dichloroethene	ug/L	ND	20	20	23.7	22.8	118	114	74-149	4	30		
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.2	21.2	116	106	74-138	9	30		
Trichloroethene	ug/L	ND	20	20	23.4	22.8	117	114	70-150	2	30		
Trichlorofluoromethane	ug/L	ND	20	20	26.5	25.0	132	125	57-150	6	30		
Vinyl chloride	ug/L	ND	20	20	27.0	25.3	135	127	59-150	6	30		
Xylene (Total)	ug/L	6.4	60	60	75.2	72.7	115	111	75-131	3	30		
1,2-Dichloroethane-d4 (S)	%						116	113	75-137				
4-Bromofluorobenzene (S)	%						104	107	75-125				
Toluene-d8 (S)	%						103	101	75-125				

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

QC Batch: 472813

Analysis Method: EPA 8260B

QC Batch Method: EPA 8260B

Analysis Description: 8260B MSV 465 W

Associated Lab Samples: 10386679010

METHOD BLANK: 2579533

Matrix: Water

Associated Lab Samples: 10386679010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	05/08/17 17:09	
1,1,1-Trichloroethane	ug/L	<4.0	4.0	05/08/17 17:09	MN
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	05/08/17 17:09	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	05/08/17 17:09	
1,1,2-Trichlorotrifluoroethane	ug/L	<10.0	10.0	05/08/17 17:09	MN
1,1-Dichloroethane	ug/L	<1.0	1.0	05/08/17 17:09	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/08/17 17:09	
1,1-Dichloropropene	ug/L	<1.0	1.0	05/08/17 17:09	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	05/08/17 17:09	
1,2,3-Trichloropropane	ug/L	<4.0	4.0	05/08/17 17:09	
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	05/08/17 17:09	
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	05/08/17 17:09	
1,2-Dibromo-3-chloropropane	ug/L	<4.0	4.0	05/08/17 17:09	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	05/08/17 17:09	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	05/08/17 17:09	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/08/17 17:09	
1,2-Dichloropropane	ug/L	<4.0	4.0	05/08/17 17:09	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	05/08/17 17:09	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	05/08/17 17:09	
1,3-Dichloropropane	ug/L	<1.0	1.0	05/08/17 17:09	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	05/08/17 17:09	
2,2-Dichloropropane	ug/L	<4.0	4.0	05/08/17 17:09	
2-Butanone (MEK)	ug/L	<5.0	5.0	05/08/17 17:09	
2-Chlorotoluene	ug/L	<1.0	1.0	05/08/17 17:09	
4-Chlorotoluene	ug/L	<1.0	1.0	05/08/17 17:09	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	05/08/17 17:09	
Acetone	ug/L	<20.0	20.0	05/08/17 17:09	
Allyl chloride	ug/L	<4.0	4.0	05/08/17 17:09	
Benzene	ug/L	<1.0	1.0	05/08/17 17:09	
Bromobenzene	ug/L	<1.0	1.0	05/08/17 17:09	
Bromochloromethane	ug/L	<1.0	1.0	05/08/17 17:09	
Bromodichloromethane	ug/L	<1.0	1.0	05/08/17 17:09	
Bromoform	ug/L	<4.0	4.0	05/08/17 17:09	
Bromomethane	ug/L	<10.0	10.0	05/08/17 17:09	MN
Carbon tetrachloride	ug/L	<1.0	1.0	05/08/17 17:09	
Chlorobenzene	ug/L	<1.0	1.0	05/08/17 17:09	
Chloroethane	ug/L	<1.0	1.0	05/08/17 17:09	
Chloroform	ug/L	<1.0	1.0	05/08/17 17:09	
Chloromethane	ug/L	<4.0	4.0	05/08/17 17:09	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	05/08/17 17:09	
cis-1,3-Dichloropropene	ug/L	<4.0	4.0	05/08/17 17:09	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP  
Pace Project No.: 10386679

METHOD BLANK: 2579533 Matrix: Water  
Associated Lab Samples: 10386679010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<1.0	1.0	05/08/17 17:09	
Dibromomethane	ug/L	<4.0	4.0	05/08/17 17:09	
Dichlorodifluoromethane	ug/L	<1.0	1.0	05/08/17 17:09	
Dichlorofluoromethane	ug/L	<1.0	1.0	05/08/17 17:09	
Diethyl ether (Ethyl ether)	ug/L	<4.0	4.0	05/08/17 17:09	
Ethylbenzene	ug/L	<1.0	1.0	05/08/17 17:09	
Hexachloro-1,3-butadiene	ug/L	<4.0	4.0	05/08/17 17:09	MN
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	05/08/17 17:09	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	05/08/17 17:09	
Methylene Chloride	ug/L	<4.0	4.0	05/08/17 17:09	
n-Butylbenzene	ug/L	<1.0	1.0	05/08/17 17:09	MN
n-Propylbenzene	ug/L	<1.0	1.0	05/08/17 17:09	
Naphthalene	ug/L	<4.0	4.0	05/08/17 17:09	
p-Isopropyltoluene	ug/L	<4.0	4.0	05/08/17 17:09	MN
sec-Butylbenzene	ug/L	<4.0	4.0	05/08/17 17:09	MN
Styrene	ug/L	<1.0	1.0	05/08/17 17:09	
tert-Butylbenzene	ug/L	<1.0	1.0	05/08/17 17:09	
Tetrachloroethene	ug/L	<1.0	1.0	05/08/17 17:09	
Tetrahydrofuran	ug/L	<10.0	10.0	05/08/17 17:09	
Toluene	ug/L	<1.0	1.0	05/08/17 17:09	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	05/08/17 17:09	
trans-1,3-Dichloropropene	ug/L	<4.0	4.0	05/08/17 17:09	
Trichloroethene	ug/L	<0.40	0.40	05/08/17 17:09	
Trichlorofluoromethane	ug/L	<1.0	1.0	05/08/17 17:09	
Vinyl chloride	ug/L	<0.20	0.20	05/08/17 17:09	
Xylene (Total)	ug/L	<3.0	3.0	05/08/17 17:09	
1,2-Dichloroethane-d4 (S)	%	125	75-137	05/08/17 17:09	
4-Bromofluorobenzene (S)	%	108	75-125	05/08/17 17:09	
Toluene-d8 (S)	%	100	75-125	05/08/17 17:09	

LABORATORY CONTROL SAMPLE: 2579534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.1	95	75-125	
1,1,1-Trichloroethane	ug/L	20	21.5	108	69-125	
1,1,2,2-Tetrachloroethane	ug/L	20	18.4	92	70-125	
1,1,2-Trichloroethane	ug/L	20	19.2	96	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	21.5	108	70-133	
1,1-Dichloroethane	ug/L	20	20.5	102	62-130	
1,1-Dichloroethene	ug/L	20	20.9	104	64-134	
1,1-Dichloropropene	ug/L	20	21.6	108	65-129	
1,2,3-Trichlorobenzene	ug/L	20	13.2	66	75-125 L2	
1,2,3-Trichloropropane	ug/L	20	21.2	106	70-125	
1,2,4-Trichlorobenzene	ug/L	20	15.5	77	75-125	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

LABORATORY CONTROL SAMPLE: 2579534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.0	95	69-135	
1,2-Dibromo-3-chloropropane	ug/L	50	38.2	76	73-130	
1,2-Dibromoethane (EDB)	ug/L	20	18.5	93	75-125	
1,2-Dichlorobenzene	ug/L	20	18.4	92	75-125	
1,2-Dichloroethane	ug/L	20	20.1	101	64-126	
1,2-Dichloropropane	ug/L	20	19.2	96	73-125	
1,3,5-Trimethylbenzene	ug/L	20	20.7	104	71-129	
1,3-Dichlorobenzene	ug/L	20	19.2	96	75-125	
1,3-Dichloropropane	ug/L	20	19.2	96	74-125	
1,4-Dichlorobenzene	ug/L	20	18.7	94	75-125	
2,2-Dichloropropane	ug/L	20	18.9	95	59-135	
2-Butanone (MEK)	ug/L	100	138	138	57-142	
2-Chlorotoluene	ug/L	20	20.5	103	73-125	
4-Chlorotoluene	ug/L	20	20.1	101	74-128	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	56-142	
Acetone	ug/L	100	218	218	75-133	CH,L1
Allyl chloride	ug/L	20	18.5	92	62-139	
Benzene	ug/L	20	19.6	98	74-125	
Bromobenzene	ug/L	20	18.9	94	75-125	
Bromochloromethane	ug/L	20	19.2	96	75-125	
Bromodichloromethane	ug/L	20	20.0	100	72-125	
Bromoform	ug/L	20	14.9	74	74-125	
Bromomethane	ug/L	20	26.6	133	30-150	
Carbon tetrachloride	ug/L	20	20.2	101	67-130	
Chlorobenzene	ug/L	20	20.2	101	75-125	
Chloroethane	ug/L	20	19.3	97	63-137	
Chloroform	ug/L	20	20.6	103	68-128	
Chloromethane	ug/L	20	19.6	98	46-145	
cis-1,2-Dichloroethene	ug/L	20	19.0	95	75-125	
cis-1,3-Dichloropropene	ug/L	20	18.2	91	73-125	
Dibromochloromethane	ug/L	20	18.2	91	75-125	
Dibromomethane	ug/L	20	19.1	95	73-125	
Dichlorodifluoromethane	ug/L	20	24.7	123	36-150	
Dichlorofluoromethane	ug/L	20	20.5	103	75-125	
Diethyl ether (Ethyl ether)	ug/L	20	19.0	95	62-136	
Ethylbenzene	ug/L	20	19.7	98	73-125	
Hexachloro-1,3-butadiene	ug/L	20	16.0	80	69-141	
Isopropylbenzene (Cumene)	ug/L	20	20.0	100	75-126	
Methyl-tert-butyl ether	ug/L	20	19.3	97	70-130	
Methylene Chloride	ug/L	20	20.6	103	74-125	
n-Butylbenzene	ug/L	20	16.4	82	69-133	
n-Propylbenzene	ug/L	20	20.6	103	75-125	
Naphthalene	ug/L	20	13.7	68	66-129	
p-Isopropyltoluene	ug/L	20	17.5	88	73-127	
sec-Butylbenzene	ug/L	20	17.5	88	75-131	
Styrene	ug/L	20	18.5	92	75-128	
tert-Butylbenzene	ug/L	20	20.5	102	75-127	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

LABORATORY CONTROL SAMPLE: 2579534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethane	ug/L	20	20.0	100	71-127	
Tetrahydrofuran	ug/L	200	263	131	75-132	
Toluene	ug/L	20	19.6	98	75-125	
trans-1,2-Dichloroethene	ug/L	20	20.1	100	69-127	
trans-1,3-Dichloropropene	ug/L	20	17.4	87	70-128	
Trichloroethene	ug/L	20	20.2	101	70-125	
Trichlorofluoromethane	ug/L	20	22.2	111	71-125	
Vinyl chloride	ug/L	20	20.9	104	69-133	
Xylene (Total)	ug/L	60	58.7	98	75-125	
1,2-Dichloroethane-d4 (S)	%			117	75-137	
4-Bromofluorobenzene (S)	%			102	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2579543 2579544

Parameter	Units	MS 10387260002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.6	18.1	103	91	75-138	13	30		
1,1,1-Trichloroethane	ug/L	30.4	20	20	53.8	51.4	117	105	75-145	5	30		
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.1	16.8	95	84	73-150	13	30		
1,1,2-Trichloroethane	ug/L	ND	20	20	21.2	17.9	106	89	75-140	17	30		
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	22.7	21.0	114	105	74-150	8	30		
1,1-Dichloroethane	ug/L	ND	20	20	22.7	21.0	109	100	75-140	8	30		
1,1-Dichloroethene	ug/L	ND	20	20	23.5	21.0	117	105	73-150	11	30		
1,1-Dichloropropene	ug/L	ND	20	20	22.5	20.9	112	105	75-150	7	30		
1,2,3-Trichlorobenzene	ug/L	ND	20	20	15.2	13.4	76	67	57-147	13	30		
1,2,3-Trichloropropane	ug/L	ND	20	20	22.3	17.8	112	89	75-147	22	30		
1,2,4-Trichlorobenzene	ug/L	ND	20	20	16.3	14.3	81	72	59-142	13	30		
1,2,4-Trimethylbenzene	ug/L	7.2	20	20	28.9	26.8	108	98	73-141	7	30		
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	40.0	32.4	80	65	65-136	21	30		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.3	17.5	101	88	75-131	15	30		
1,2-Dichlorobenzene	ug/L	ND	20	20	20.8	18.2	104	91	75-141	13	30		
1,2-Dichloroethane	ug/L	ND	20	20	21.5	19.4	106	95	75-125	10	30		
1,2-Dichloropropane	ug/L	ND	20	20	20.0	18.2	100	91	71-147	9	30		
1,3,5-Trimethylbenzene	ug/L	3.5	20	20	25.4	23.1	109	98	75-139	9	30		
1,3-Dichlorobenzene	ug/L	ND	20	20	20.9	18.9	104	95	75-142	10	30		
1,3-Dichloropropane	ug/L	ND	20	20	19.7	17.4	99	87	75-141	12	30		
1,4-Dichlorobenzene	ug/L	ND	20	20	20.8	18.8	104	94	75-139	10	30		
2,2-Dichloropropane	ug/L	ND	20	20	22.1	20.4	111	102	60-150	8	30		
2-Butanone (MEK)	ug/L	22.1	100	100	108	94.0	86	72	68-133	14	30		
2-Chlorotoluene	ug/L	ND	20	20	23.7	21.1	118	105	75-146	12	30		
4-Chlorotoluene	ug/L	ND	20	20	22.8	20.2	114	101	75-149	12	30		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	96.5	80.7	96	81	67-150	18	30		
Acetone	ug/L	20.2	100	100	113	96.5	93	76	56-150	16	30	CH	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2579543		2579544									
Parameter	Units	10387260002	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits				
Allyl chloride	ug/L	ND	20	20	20.9	18.4	104	92	66-134	13	30		
Benzene	ug/L	ND	20	20	21.9	20.2	109	101	74-134	8	30		
Bromobenzene	ug/L	ND	20	20	20.8	18.8	104	94	75-138	10	30		
Bromochloromethane	ug/L	ND	20	20	20.7	19.8	103	99	75-145	4	30		
Bromodichloromethane	ug/L	ND	20	20	20.9	18.7	105	93	75-143	11	30		
Bromoform	ug/L	ND	20	20	14.1	12.0	70	60	67-125	16	30	M1	
Bromomethane	ug/L	ND	20	20	36.0	34.2	180	171	30-150	5	30	M1	
Carbon tetrachloride	ug/L	ND	20	20	22.4	20.1	112	100	75-150	11	30		
Chlorobenzene	ug/L	ND	20	20	22.0	19.9	110	99	75-133	10	30		
Chloroethane	ug/L	ND	20	20	19.1	18.0	96	90	53-150	6	30		
Chloroform	ug/L	ND	20	20	22.2	20.6	111	103	75-134	8	30		
Chloromethane	ug/L	ND	20	20	22.6	20.3	113	101	41-150	11	30		
cis-1,2-Dichloroethene	ug/L	46.6	20	20	65.1	64.2	92	88	73-140	1	30		
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.8	17.1	94	85	72-140	10	30		
Dibromochloromethane	ug/L	ND	20	20	19.3	17.7	96	88	74-130	9	30		
Dibromomethane	ug/L	ND	20	20	19.6	17.8	98	89	70-141	9	30		
Dichlorodifluoromethane	ug/L	ND	20	20	25.5	22.9	127	114	50-150	11	30		
Dichlorofluoromethane	ug/L	ND	20	20	22.1	20.1	110	100	62-150	9	30		
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	19.7	17.8	98	89	71-141	10	30		
Ethylbenzene	ug/L	ND	20	20	20.0	17.8	99	88	75-136	12	30		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.0	17.5	110	87	47-150	23	30		
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.6	18.8	102	93	75-138	9	30		
Methyl-tert-butyl ether	ug/L	ND	20	20	20.4	18.5	102	93	75-128	10	30		
Methylene Chloride	ug/L	ND	20	20	21.0	19.4	100	91	69-150	8	30		
n-Butylbenzene	ug/L	1.9	20	20	20.8	19.7	95	89	68-150	6	30		
n-Propylbenzene	ug/L	ND	20	20	22.2	20.5	107	99	74-150	8	30		
Naphthalene	ug/L	ND	20	20	14.2	14.3	67	68	61-138	1	30		
p-Isopropyltoluene	ug/L	ND	20	20	19.9	18.5	96	88	70-142	8	30		
sec-Butylbenzene	ug/L	ND	20	20	20.3	18.4	101	92	74-150	10	30		
Styrene	ug/L	ND	20	20	20.4	18.3	102	92	70-140	11	30		
tert-Butylbenzene	ug/L	ND	20	20	21.2	19.3	105	96	73-140	9	30		
Tetrachloroethene	ug/L	3.5	20	20	25.5	23.5	110	100	72-141	8	30		
Tetrahydrofuran	ug/L	27.7	200	200	260	238	116	105	53-150	9	30		
Toluene	ug/L	ND	20	20	21.2	18.5	104	91	71-138	14	30		
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.2	20.9	111	104	74-149	6	30		
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.1	16.7	96	83	74-138	14	30		
Trichloroethene	ug/L	198	20	20	217	212	95	69	70-150	2	30	M1	
Trichlorofluoromethane	ug/L	ND	20	20	25.2	22.5	126	112	57-150	12	30		
Vinyl chloride	ug/L	0.49	20	20	21.0	19.0	102	93	59-150	10	30		
Xylene (Total)	ug/L	ND	60	60	62.6	56.1	104	93	75-131	11	30		
1,2-Dichloroethane-d4 (S)	%						113	115	75-137				
4-Bromofluorobenzene (S)	%						109	109	75-125				
Toluene-d8 (S)	%						101	99	75-125				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP  
Pace Project No.: 10386679

QC Batch: 472918 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV 465 W  
Associated Lab Samples: 10386679011

METHOD BLANK: 2579979 Matrix: Water  
Associated Lab Samples: 10386679011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	05/09/17 12:20	
1,1,1-Trichloroethane	ug/L	<4.0	4.0	05/09/17 12:20	MN
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	05/09/17 12:20	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	05/09/17 12:20	
1,1,2-Trichlorotrifluoroethane	ug/L	<10.0	10.0	05/09/17 12:20	MN
1,1-Dichloroethane	ug/L	<1.0	1.0	05/09/17 12:20	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/09/17 12:20	
1,1-Dichloropropene	ug/L	<1.0	1.0	05/09/17 12:20	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	05/09/17 12:20	
1,2,3-Trichloropropane	ug/L	<4.0	4.0	05/09/17 12:20	
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	05/09/17 12:20	
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	05/09/17 12:20	
1,2-Dibromo-3-chloropropane	ug/L	<4.0	4.0	05/09/17 12:20	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	05/09/17 12:20	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	05/09/17 12:20	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/09/17 12:20	
1,2-Dichloropropane	ug/L	<4.0	4.0	05/09/17 12:20	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	05/09/17 12:20	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	05/09/17 12:20	
1,3-Dichloropropane	ug/L	<1.0	1.0	05/09/17 12:20	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	05/09/17 12:20	
2,2-Dichloropropane	ug/L	<4.0	4.0	05/09/17 12:20	
2-Butanone (MEK)	ug/L	<5.0	5.0	05/09/17 12:20	
2-Chlorotoluene	ug/L	<1.0	1.0	05/09/17 12:20	
4-Chlorotoluene	ug/L	<1.0	1.0	05/09/17 12:20	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	05/09/17 12:20	
Acetone	ug/L	<20.0	20.0	05/09/17 12:20	
Allyl chloride	ug/L	<4.0	4.0	05/09/17 12:20	
Benzene	ug/L	<1.0	1.0	05/09/17 12:20	
Bromobenzene	ug/L	<1.0	1.0	05/09/17 12:20	
Bromochloromethane	ug/L	<1.0	1.0	05/09/17 12:20	
Bromodichloromethane	ug/L	<1.0	1.0	05/09/17 12:20	
Bromoform	ug/L	<4.0	4.0	05/09/17 12:20	
Bromomethane	ug/L	<10.0	10.0	05/09/17 12:20	MN
Carbon tetrachloride	ug/L	<1.0	1.0	05/09/17 12:20	
Chlorobenzene	ug/L	<1.0	1.0	05/09/17 12:20	
Chloroethane	ug/L	<1.0	1.0	05/09/17 12:20	
Chloroform	ug/L	<1.0	1.0	05/09/17 12:20	
Chloromethane	ug/L	<4.0	4.0	05/09/17 12:20	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	05/09/17 12:20	
cis-1,3-Dichloropropene	ug/L	<4.0	4.0	05/09/17 12:20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

METHOD BLANK: 2579979

Matrix: Water

Associated Lab Samples: 10386679011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<1.0	1.0	05/09/17 12:20	
Dibromomethane	ug/L	<4.0	4.0	05/09/17 12:20	
Dichlorodifluoromethane	ug/L	<1.0	1.0	05/09/17 12:20	
Dichlorofluoromethane	ug/L	<1.0	1.0	05/09/17 12:20	
Diethyl ether (Ethyl ether)	ug/L	<4.0	4.0	05/09/17 12:20	
Ethylbenzene	ug/L	<1.0	1.0	05/09/17 12:20	
Hexachloro-1,3-butadiene	ug/L	<4.0	4.0	05/09/17 12:20	MN
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	05/09/17 12:20	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	05/09/17 12:20	
Methylene Chloride	ug/L	<4.0	4.0	05/09/17 12:20	
n-Butylbenzene	ug/L	<1.0	1.0	05/09/17 12:20	
n-Propylbenzene	ug/L	<1.0	1.0	05/09/17 12:20	
Naphthalene	ug/L	<4.0	4.0	05/09/17 12:20	
p-Isopropyltoluene	ug/L	<4.0	4.0	05/09/17 12:20	MN
sec-Butylbenzene	ug/L	<4.0	4.0	05/09/17 12:20	MN
Styrene	ug/L	<1.0	1.0	05/09/17 12:20	
tert-Butylbenzene	ug/L	<1.0	1.0	05/09/17 12:20	
Tetrachloroethene	ug/L	<1.0	1.0	05/09/17 12:20	
Tetrahydrofuran	ug/L	<10.0	10.0	05/09/17 12:20	
Toluene	ug/L	<1.0	1.0	05/09/17 12:20	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	05/09/17 12:20	
trans-1,3-Dichloropropene	ug/L	<4.0	4.0	05/09/17 12:20	
Trichloroethene	ug/L	<0.40	0.40	05/09/17 12:20	
Trichlorofluoromethane	ug/L	<1.0	1.0	05/09/17 12:20	
Vinyl chloride	ug/L	<0.20	0.20	05/09/17 12:20	
Xylene (Total)	ug/L	<3.0	3.0	05/09/17 12:20	
1,2-Dichloroethane-d4 (S)	%	122	75-137	05/09/17 12:20	
4-Bromofluorobenzene (S)	%	106	75-125	05/09/17 12:20	
Toluene-d8 (S)	%	101	75-125	05/09/17 12:20	

LABORATORY CONTROL SAMPLE: 2579980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.6	103	75-125	
1,1,1-Trichloroethane	ug/L	50	55.8	112	69-125	
1,1,2,2-Tetrachloroethane	ug/L	50	55.3	111	70-125	
1,1,2-Trichloroethane	ug/L	50	53.6	107	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	54.7	109	70-133	
1,1-Dichloroethane	ug/L	50	53.3	107	62-130	
1,1-Dichloroethene	ug/L	50	52.2	104	64-134	
1,1-Dichloropropene	ug/L	50	54.2	108	65-129	
1,2,3-Trichlorobenzene	ug/L	50	40.6	81	75-125	
1,2,3-Trichloropropane	ug/L	50	61.5	123	70-125	
1,2,4-Trichlorobenzene	ug/L	50	43.6	87	75-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

LABORATORY CONTROL SAMPLE: 2579980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	52.4	105	69-135	
1,2-Dibromo-3-chloropropane	ug/L	125	125	100	73-130	
1,2-Dibromoethane (EDB)	ug/L	50	53.1	106	75-125	
1,2-Dichlorobenzene	ug/L	50	50.3	101	75-125	
1,2-Dichloroethane	ug/L	50	54.2	108	64-126	
1,2-Dichloropropane	ug/L	50	51.5	103	73-125	
1,3,5-Trimethylbenzene	ug/L	50	53.1	106	71-129	
1,3-Dichlorobenzene	ug/L	50	51.0	102	75-125	
1,3-Dichloropropane	ug/L	50	52.9	106	74-125	
1,4-Dichlorobenzene	ug/L	50	48.8	98	75-125	
2,2-Dichloropropane	ug/L	50	54.5	109	59-135	
2-Butanone (MEK)	ug/L	250	375	150	57-142	CH,L1
2-Chlorotoluene	ug/L	50	54.2	108	73-125	
4-Chlorotoluene	ug/L	50	53.9	108	74-128	
4-Methyl-2-pentanone (MIBK)	ug/L	250	318	127	56-142	
Acetone	ug/L	250	361	144	75-133	CH,L1
Allyl chloride	ug/L	50	49.7	99	62-139	
Benzene	ug/L	50	51.0	102	74-125	
Bromobenzene	ug/L	50	49.6	99	75-125	
Bromochloromethane	ug/L	50	51.7	103	75-125	
Bromodichloromethane	ug/L	50	54.0	108	72-125	
Bromoform	ug/L	50	47.0	94	74-125	
Bromomethane	ug/L	50	74.2	148	30-150	CH
Carbon tetrachloride	ug/L	50	51.1	102	67-130	
Chlorobenzene	ug/L	50	51.8	104	75-125	
Chloroethane	ug/L	50	43.3	87	63-137	
Chloroform	ug/L	50	54.0	108	68-128	
Chloromethane	ug/L	50	50.9	102	46-145	
cis-1,2-Dichloroethene	ug/L	50	50.5	101	75-125	
cis-1,3-Dichloropropene	ug/L	50	52.3	105	73-125	
Dibromochloromethane	ug/L	50	49.9	100	75-125	
Dibromomethane	ug/L	50	53.1	106	73-125	
Dichlorodifluoromethane	ug/L	50	60.2	120	36-150	
Dichlorofluoromethane	ug/L	50	54.8	110	75-125	
Diethyl ether (Ethyl ether)	ug/L	50	51.3	103	62-136	
Ethylbenzene	ug/L	50	50.3	101	73-125	
Hexachloro-1,3-butadiene	ug/L	50	38.6	77	69-141	
Isopropylbenzene (Cumene)	ug/L	50	51.7	103	75-126	
Methyl-tert-butyl ether	ug/L	50	56.1	112	70-130	
Methylene Chloride	ug/L	50	49.8	100	74-125	
n-Butylbenzene	ug/L	50	46.5	93	69-133	
n-Propylbenzene	ug/L	50	53.4	107	75-125	
Naphthalene	ug/L	50	45.3	91	66-129	
p-Isopropyltoluene	ug/L	50	48.2	96	73-127	
sec-Butylbenzene	ug/L	50	49.0	98	75-131	
Styrene	ug/L	50	50.1	100	75-128	
tert-Butylbenzene	ug/L	50	51.8	104	75-127	

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

LABORATORY CONTROL SAMPLE: 2579980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethane	ug/L	50	50.9	102	71-127	
Tetrahydrofuran	ug/L	500	526	105	75-132	
Toluene	ug/L	50	50.3	101	75-125	
trans-1,2-Dichloroethene	ug/L	50	52.0	104	69-127	
trans-1,3-Dichloropropene	ug/L	50	54.4	109	70-128	
Trichloroethene	ug/L	50	52.1	104	70-125	
Trichlorofluoromethane	ug/L	50	53.6	107	71-125	
Vinyl chloride	ug/L	50	53.1	106	69-133	
Xylene (Total)	ug/L	150	156	104	75-125	
1,2-Dichloroethane-d4 (S)	%			118	75-137	
4-Bromofluorobenzene (S)	%			105	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2581133 2581134

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10386824011 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	18.9	21.6	94	108	75-138	13	30
1,1,1-Trichloroethane	ug/L	ND	20	20	21.5	25.1	107	126	75-145	16	30
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.8	19.6	99	98	73-150	1	30
1,1,2-Trichloroethane	ug/L	ND	20	20	20.3	22.4	101	112	75-140	10	30
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	21.5	25.2	107	126	74-150	16	30
1,1-Dichloroethane	ug/L	ND	20	20	20.9	24.0	105	120	75-140	14	30
1,1-Dichloroethene	ug/L	ND	20	20	22.1	24.9	110	125	73-150	12	30
1,1-Dichloropropene	ug/L	ND	20	20	22.4	25.8	112	129	75-150	14	30
1,2,3-Trichlorobenzene	ug/L	ND	20	20	17.4	17.7	87	88	57-147	2	30
1,2,3-Trichloropropane	ug/L	ND	20	20	22.1	22.9	111	114	75-147	3	30
1,2,4-Trichlorobenzene	ug/L	ND	20	20	17.8	19.0	89	95	59-142	6	30
1,2,4-Trimethylbenzene	ug/L	900	20	20	959	949	292	243	73-141	1	30 E,M1
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	39.8	37.4	80	75	65-136	6	30
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.8	20.3	94	101	75-131	7	30
1,2-Dichlorobenzene	ug/L	ND	20	20	18.2	21.1	91	105	75-141	15	30
1,2-Dichloroethane	ug/L	ND	20	20	20.4	22.8	102	114	75-125	11	30
1,2-Dichloropropane	ug/L	ND	20	20	20.3	23.4	101	117	71-147	14	30
1,3,5-Trimethylbenzene	ug/L	280	20	20	344	333	324	265	75-139	3	30 E,M1
1,3-Dichlorobenzene	ug/L	ND	20	20	18.4	21.9	92	109	75-142	17	30
1,3-Dichloropropane	ug/L	ND	20	20	19.4	20.8	97	104	75-141	7	30
1,4-Dichlorobenzene	ug/L	ND	20	20	17.8	21.2	89	106	75-139	17	30
2,2-Dichloropropane	ug/L	ND	20	20	20.9	24.1	104	121	60-150	14	30
2-Butanone (MEK)	ug/L	26.6	100	100	125	111	99	84	68-133	12	30 CH
2-Chlorotoluene	ug/L	ND	20	20	17.8	20.9	89	105	75-146	16	30
4-Chlorotoluene	ug/L	ND	20	20	19.3	23.0	96	115	75-149	17	30
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	111	98.1	108	96	67-150	12	30
Acetone	ug/L	66.1	100	100	141	136	75	70	56-150	4	30 CH

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Parameter	Units	2581133		2581134		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		10386824011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Allyl chloride	ug/L	ND	20	20	18.7	23.8	94	119	66-134	24	30		
Benzene	ug/L	10.1	20	20	30.6	32.4	103	111	74-134	6	30		
Bromobenzene	ug/L	ND	20	20	18.4	21.7	92	108	75-138	16	30		
Bromochloromethane	ug/L	ND	20	20	19.3	21.9	96	109	75-145	13	30		
Bromodichloromethane	ug/L	ND	20	20	20.0	22.6	100	113	75-143	12	30		
Bromoform	ug/L	ND	20	20	15.3	16.6	76	83	67-125	8	30		
Bromomethane	ug/L	ND	20	20	39.7	27.7	199	139	30-150	36	30	CH, M1,R1	
Carbon tetrachloride	ug/L	ND	20	20	19.7	22.8	99	114	75-150	14	30		
Chlorobenzene	ug/L	ND	20	20	19.6	22.4	98	112	75-133	13	30		
Chloroethane	ug/L	ND	20	20	23.4	16.5	117	82	53-150	35	30	R1	
Chloroform	ug/L	ND	20	20	21.5	24.5	107	122	75-134	13	30		
Chloromethane	ug/L	ND	20	20	30.1	21.0	151	105	41-150	36	30	M1,R1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.6	22.6	103	113	73-140	9	30		
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.5	19.9	88	100	72-140	13	30		
Dibromochloromethane	ug/L	ND	20	20	17.9	19.3	90	97	74-130	8	30		
Dibromomethane	ug/L	ND	20	20	18.4	19.9	92	100	70-141	8	30		
Dichlorodifluoromethane	ug/L	ND	20	20	34.3	20.7	171	103	50-150	50	30	M1,R1	
Dichlorofluoromethane	ug/L	ND	20	20	26.7	17.1	134	86	62-150	44	30	R1	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	18.7	21.4	94	107	71-141	13	30		
Ethylbenzene	ug/L	1600	20	20	1080	1050	-2600	-2760	75-136	3	30	E,M1	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	18.9	20.2	95	101	47-150	7	30		
Isopropylbenzene (Cumene)	ug/L	57.7	20	20	79.3	79.6	108	109	75-138	0	30		
Methyl-tert-butyl ether	ug/L	ND	20	20	20.0	22.9	100	114	75-128	13	30		
Methylene Chloride	ug/L	ND	20	20	19.6	23.2	98	116	69-150	16	30		
n-Butylbenzene	ug/L	11.7	20	20	33.1	35.7	107	120	68-150	7	30		
n-Propylbenzene	ug/L	167	20	20	187	185	100	92	74-150	1	30		
Naphthalene	ug/L	536	20	20	514	479	-105	-282	61-138	7	30	E,M1	
p-Isopropyltoluene	ug/L	ND	20	20	24.1	25.8	105	113	70-142	7	30		
sec-Butylbenzene	ug/L	5.6	20	20	26.0	28.7	102	116	74-150	10	30		
Styrene	ug/L	ND	20	20	25.7	27.1	129	136	70-140	5	30		
tert-Butylbenzene	ug/L	ND	20	20	19.6	23.9	98	119	73-140	20	30		
Tetrachloroethene	ug/L	ND	20	20	19.6	22.0	98	110	72-141	12	30		
Tetrahydrofuran	ug/L	ND	200	200	203	218	101	109	53-150	7	30		
Toluene	ug/L	228	20	20	279	293	256	323	71-138	5	30	E,M1	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.9	23.3	104	117	74-149	11	30		
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.7	19.5	88	98	74-138	10	30		
Trichloroethene	ug/L	ND	20	20	20.3	22.9	101	114	70-150	12	30		
Trichlorofluoromethane	ug/L	ND	20	20	28.8	18.4	144	92	57-150	44	30	R1	
Vinyl chloride	ug/L	ND	20	20	28.5	18.5	143	93	59-150	42	30	R1	
Xylene (Total)	ug/L	5480	60	60	3610	3510	-3120	-3290	75-131	3	30	ES,MS	
1,2-Dichloroethane-d4 (S)	%						124	119	75-137				
4-Bromofluorobenzene (S)	%						105	108	75-125				
Toluene-d8 (S)	%						102	100	75-125				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

QC Batch: 471485 Analysis Method: EPA 8270D by HVI  
QC Batch Method: EPA Mod. 3510C Analysis Description: 8270D Water PAH High Volume Injection  
Associated Lab Samples: 10386679001, 10386679002, 10386679003, 10386679004, 10386679005, 10386679006, 10386679007, 10386679008, 10386679009, 10386679010, 10386679011, 10386679012

METHOD BLANK: 2573548 Matrix: Water  
Associated Lab Samples: 10386679001, 10386679002, 10386679003, 10386679004, 10386679005, 10386679006, 10386679007, 10386679008, 10386679009, 10386679010, 10386679011, 10386679012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.040	0.040	05/12/17 08:17	N2
2-Chloronaphthalene	ug/L	<0.040	0.040	05/12/17 08:17	N2
2-Methylnaphthalene	ug/L	<0.040	0.040	05/12/17 08:17	N2
Acenaphthene	ug/L	<0.040	0.040	05/12/17 08:17	N2
Acenaphthylene	ug/L	<0.040	0.040	05/12/17 08:17	N2
Anthracene	ug/L	<0.040	0.040	05/12/17 08:17	N2
Benzo(a)anthracene	ug/L	<0.040	0.040	05/12/17 08:17	N2
Benzo(a)pyrene	ug/L	<0.040	0.040	05/12/17 08:17	N2
Benzo(b)fluoranthene	ug/L	<0.040	0.040	05/12/17 08:17	N2
Benzo(e)pyrene	ug/L	<0.040	0.040	05/12/17 08:17	N2
Benzo(g,h,i)perylene	ug/L	<0.040	0.040	05/12/17 08:17	N2
Benzo(k)fluoranthene	ug/L	<0.040	0.040	05/12/17 08:17	N2
Chrysene	ug/L	<0.040	0.040	05/12/17 08:17	N2
Dibenz(a,h)anthracene	ug/L	<0.040	0.040	05/12/17 08:17	N2
Dibenzofuran	ug/L	<0.040	0.040	05/12/17 08:17	N2
Fluoranthene	ug/L	<0.040	0.040	05/12/17 08:17	N2
Fluorene	ug/L	<0.040	0.040	05/12/17 08:17	N2
Indeno(1,2,3-cd)pyrene	ug/L	<0.040	0.040	05/12/17 08:17	N2
Naphthalene	ug/L	<0.16	0.16	05/12/17 08:17	N2
Phenanthrene	ug/L	<0.040	0.040	05/12/17 08:17	N2
Pyrene	ug/L	<0.040	0.040	05/12/17 08:17	N2
2-Fluorobiphenyl (S)	%	79	30-136	05/12/17 08:17	N2
p-Terphenyl-d14 (S)	%	91	30-125	05/12/17 08:17	N2

LABORATORY CONTROL SAMPLE: 2573549

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	1	0.57	57	34-125	N2
2-Chloronaphthalene	ug/L	1	0.67	67	36-125	N2
2-Methylnaphthalene	ug/L	1	0.57	57	32-125	N2
Acenaphthene	ug/L	1	0.64	64	35-125	N2
Acenaphthylene	ug/L	1	0.63	63	35-125	N2
Anthracene	ug/L	1	0.69	69	30-125	N2
Benzo(a)anthracene	ug/L	1	0.70	70	35-125	N2
Benzo(a)pyrene	ug/L	1	0.67	67	41-125	N2
Benzo(b)fluoranthene	ug/L	1	0.78	78	40-125	N2
Benzo(e)pyrene	ug/L	1	0.73	73	40-125	N2
Benzo(g,h,i)perylene	ug/L	1	0.36	36	30-125	N2

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

LABORATORY CONTROL SAMPLE: 2573549

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzo(k)fluoranthene	ug/L	1	0.61	61	40-125	N2
Chrysene	ug/L	1	0.67	67	39-125	N2
Dibenz(a,h)anthracene	ug/L	1	0.25	25	30-125	L2,N2
Dibenzofuran	ug/L	1	0.66	66	39-125	N2
Fluoranthene	ug/L	1	0.70	70	37-125	N2
Fluorene	ug/L	1	0.66	66	33-125	N2
Indeno(1,2,3-cd)pyrene	ug/L	1	0.55	55	31-125	N2
Naphthalene	ug/L	1	0.63	63	37-125	N2
Phenanthrene	ug/L	1	0.68	68	37-125	N2
Pyrene	ug/L	1	0.59	59	35-125	N2
2-Fluorobiphenyl (S)	%			68	30-136	C0,N2
p-Terphenyl-d14 (S)	%			68	30-125	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2573550 2573551

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10386493005 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1-Methylnaphthalene	ug/L	ND	1	1	0.57	0.57	57	57	30-125	1	30	N2
2-Chloronaphthalene	ug/L	ND	1	1	0.68	0.66	68	66	30-128	3	30	N2
2-Methylnaphthalene	ug/L	ND	1	1	0.57	0.57	57	57	30-132	1	30	N2
Acenaphthene	ug/L	ND	1	1	0.62	0.62	62	62	30-125	0	30	N2
Acenaphthylene	ug/L	ND	1	1	0.64	0.64	64	64	41-125	0	30	N2
Anthracene	ug/L	ND	1	1	0.76	0.74	76	74	30-125	2	30	N2
Benzo(a)anthracene	ug/L	ND	1	1	0.70	0.70	70	70	33-125	0	30	N2
Benzo(a)pyrene	ug/L	ND	1	1	0.68	0.70	68	70	40-125	3	30	N2
Benzo(b)fluoranthene	ug/L	ND	1	1	0.81	0.81	81	81	36-125	0	30	N2
Benzo(e)pyrene	ug/L	ND	1	1	0.73	0.75	73	75	43-125	3	30	N2
Benzo(g,h,i)perylene	ug/L	ND	1	1	0.32	0.40	32	40	34-125	21	30	M1,N2
Benzo(k)fluoranthene	ug/L	ND	1	1	0.61	0.64	61	64	39-125	4	30	N2
Chrysene	ug/L	ND	1	1	0.64	0.67	64	67	39-125	4	30	N2
Dibenz(a,h)anthracene	ug/L	ND	1	1	0.23	0.32	23	32	30-125	32	30	M0,N2,R1
Dibenzofuran	ug/L	ND	1	1	0.67	0.65	67	65	30-142	2	30	N2
Fluoranthene	ug/L	ND	1	1	0.72	0.73	72	73	30-127	1	30	N2
Fluorene	ug/L	ND	1	1	0.67	0.66	67	66	30-133	1	30	N2
Indeno(1,2,3-cd)pyrene	ug/L	ND	1	1	0.49	0.54	49	54	31-125	10	30	N2
Naphthalene	ug/L	ND	1	1	0.63	0.62	63	62	30-125	1	30	N2
Phenanthrene	ug/L	ND	1	1	0.70	0.70	70	70	30-125	0	30	N2
Pyrene	ug/L	ND	1	1	0.57	0.59	57	59	30-125	3	30	N2
2-Fluorobiphenyl (S)	%						68	67	30-136			C0,N2
p-Terphenyl-d14 (S)	%						65	66	30-125			N2

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### QUALITY CONTROL DATA

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Parameter	Units	2573552		2573553		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		10386493006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1-Methylnaphthalene	ug/L	ND	1	1	0.59	0.55	59	55	30-125	6	30	N2	
2-Chloronaphthalene	ug/L	ND	1	1	0.69	0.65	69	65	30-128	6	30	N2	
2-Methylnaphthalene	ug/L	ND	1	1	0.59	0.55	59	55	30-132	6	30	N2	
Acenaphthene	ug/L	ND	1	1	0.66	0.61	66	61	30-125	7	30	N2	
Acenaphthylene	ug/L	ND	1	1	0.65	0.61	65	61	41-125	7	30	N2	
Anthracene	ug/L	ND	1	1	0.78	0.70	78	70	30-125	10	30	N2	
Benzo(a)anthracene	ug/L	ND	1	1	0.72	0.70	72	70	33-125	3	30	N2	
Benzo(a)pyrene	ug/L	ND	1	1	0.70	0.69	70	69	40-125	1	30	N2	
Benzo(b)fluoranthene	ug/L	ND	1	1	0.83	0.79	83	79	36-125	4	30	N2	
Benzo(e)pyrene	ug/L	ND	1	1	0.77	0.75	77	75	43-125	3	30	N2	
Benzo(g,h,i)perylene	ug/L	ND	1	1	0.65	0.55	65	55	34-125	17	30	N2	
Benzo(k)fluoranthene	ug/L	ND	1	1	0.63	0.63	63	63	39-125	0	30	N2	
Chrysene	ug/L	ND	1	1	0.70	0.69	70	69	39-125	2	30	N2	
Dibenz(a,h)anthracene	ug/L	ND	1	1	0.56	0.46	56	46	30-125	19	30	N2	
Dibenzofuran	ug/L	ND	1	1	0.69	0.64	69	64	30-142	8	30	N2	
Fluoranthene	ug/L	ND	1	1	0.75	0.70	75	70	30-127	7	30	N2	
Fluorene	ug/L	ND	1	1	0.68	0.64	68	64	30-133	6	30	N2	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1	1	0.65	0.59	65	59	31-125	10	30	N2	
Naphthalene	ug/L	ND	1	1	0.65	0.62	65	62	30-125	5	30	N2	
Phenanthrene	ug/L	ND	1	1	0.72	0.67	72	67	30-125	8	30	N2	
Pyrene	ug/L	ND	1	1	0.61	0.59	61	59	30-125	3	30	N2	
2-Fluorobiphenyl (S)	%.						71	66	30-136			N2	
p-Terphenyl-d14 (S)	%.						70	68	30-125			N2	

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## QUALIFIERS

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

C0 Result confirmed by second analysis.

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

ES The reported result is estimated because one or more of the constituent results are qualified as such.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

MN The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

N2 The lab does not hold NELAC/TNI accreditation for this parameter.

R1 RPD value was outside control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2118-0002 Superior MGP

Pace Project No.: 10386679

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10386679001	MW-4_20170424	EPA Mod. 3510C	471485	EPA 8270D by HVI	473585
10386679002	MW-13_20170424	EPA Mod. 3510C	471485	EPA 8270D by HVI	473585
10386679003	MW-7_20170425	EPA Mod. 3510C	471485	EPA 8270D by HVI	473585
10386679004	MW-6-20170425	EPA Mod. 3510C	471485	EPA 8270D by HVI	473585
10386679005	MW-5-20170425	EPA Mod. 3510C	471485	EPA 8270D by HVI	473585
10386679006	MW-26-20170425	EPA Mod. 3510C	471485	EPA 8270D by HVI	473585
10386679007	MW-11-20170425	EPA Mod. 3510C	471485	EPA 8270D by HVI	473585
10386679008	MW-23-20170425	EPA Mod. 3510C	471485	EPA 8270D by HVI	473585
10386679009	MW-24-20170425	EPA Mod. 3510C	471485	EPA 8270D by HVI	473585
10386679010	MW-8-20170425	EPA Mod. 3510C	471485	EPA 8270D by HVI	473585
10386679011	MW-8D-20170425	EPA Mod. 3510C	471485	EPA 8270D by HVI	473585
10386679012	MW-25-20170426	EPA Mod. 3510C	471485	EPA 8270D by HVI	473585
10386679001	MW-4_20170424	EPA 8260B	472067		
10386679002	MW-13_20170424	EPA 8260B	472067		
10386679003	MW-7_20170425	EPA 8260B	472223		
10386679004	MW-6-20170425	EPA 8260B	472223		
10386679005	MW-5-20170425	EPA 8260B	472223		
10386679006	MW-26-20170425	EPA 8260B	472223		
10386679007	MW-11-20170425	EPA 8260B	472223		
10386679008	MW-23-20170425	EPA 8260B	472223		
10386679009	MW-24-20170425	EPA 8260B	472223		
10386679010	MW-8-20170425	EPA 8260B	472813		
10386679011	MW-8D-20170425	EPA 8260B	472918		
10386679012	MW-25-20170426	EPA 8260B	472600		

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1038 66 79

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:
Company: Summit Environmental Services	Report To: Bill Gregg	Attention: Bill Gregg
Address:	Copy To:	Company Name:
Email To: Bill Gregg	Purchase Order No.:	Address:
Phone: 617-262-0234 Fax:	Project Name: Superior MGP	Pace Quote Reference:
Requested Due Date/FAT:	Project Number: 2118-002	Pace Project Manager: Kabor Yung
		Pace Profile #: 30995

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB						
1	MW-4-20170421	DW			DATE	TIME						001
2	MW-13-20170421	WT			4/26/17	1545						002
3	MW-7-20170425	P			4/27/17	1710						003
4	MW-6-20170425	SL			4/27/17	0820						004
5	MW-5-20170425	OL			4/27/17	1045						005
6	MW-26-20170425	WP			4/27/17	1240						006
7	MW-1-20170425	AR			4/27/17	1315						007
8	MW-23-20170425	TS			4/27/17	1440						008
9	MW-24-20170425	OT			4/26/17	1520						009
10	MW-8-20170425	Other			4/26/17	0820						010
11	MW-5D-20170425				4/26/17	1520						011
12	MW-25-20170426				4/26/17	0820						012

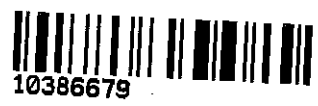
<b>Section E</b> Additional Comments	<b>Section F</b> Relinquished By / Affiliation	<b>Section G</b> Date	<b>Section H</b> Time	<b>Section I</b> Accepted By / Affiliation	<b>Section J</b> Date	<b>Section K</b> Time	<b>Section L</b> Sample Conditions
	Kyle Roman / Summit	4/26/17	9:55	KWM	4/26/17	0955	4.0 Y N Y
	Kim Hagg	4/26/17	180	UNRECORDED/PACE	4/26/17	1856	4.7 Y Y

<b>Section M</b> Sampler Name and Signature	<b>Section N</b> Temp In °C	<b>Section O</b> Received on	<b>Section P</b> Ice (Y/N)	<b>Section Q</b> Custody	<b>Section R</b> Sealed Cooler (Y/N)	<b>Section S</b> Samples Intact (Y/N)
Kyle Roman						
Signature of Sampler: <i>[Signature]</i>						
Print Name of Sampler: Kyle Roman						
DATE Signed (MM/DD/YY): 4/26/17						

**Sample Condition Upon Receipt**

Client Name: Scammitt Enviro Solutions

Project #: **WO# : 10386679**



Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  SpeeDee  Other: \_\_\_\_\_  
 Tracking Number: \_\_\_\_\_

Custody Seal on Cooler/Box Present?  Yes  No      Seals Intact?  Yes  No      Optional: Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_      Temp Blank?  Yes  No

Thermometer Used:  151401163      Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun  
 151401164

Cooler Temp Read (°C): 4.5      Cooler Temp Corrected (°C): 4.7      Biological Tissue Frozen?  Yes  No  N/A  
 Temp should be above freezing to 6°C      Correction Factor: +0.2      Date and Initials of Person Examining Contents: CSG 4/27/17

USDA Regulated Soil (  N/A, water sample)  
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No      Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No  
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. No time on COC for Sample 009
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	15:30 on Label
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (Water) and Dioxin. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. 2/3 MW-11 vials have >6mm
Trip Blank Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____	

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Project Manager Review: \_\_\_\_\_

Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers).