State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

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

Form 4400-237 (R 9/15)

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 from 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.

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.

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		
McClung	Kurt		Key Engineering Group, LTD.		
Mailing Address			City	State	ZIP Code
735 N Water St, Suite 510			Milwaukee	WI	53202
Phone # (include area code)	Fax # (include area code)		Email		
(414) 225-0592			kmcclung@keyengineering.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:

Environmental Consultant

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

Contact Last Name	First	MI	Organization/ Business Name		
McClung	Kurt		Key Engineering Group, LTD.		
Mailing Address			City	State	ZIP Code
735 N Water St, Suite 510			Milwaukee	WI	53202
Phone # (include area code)	Fax # (include area code)		Email		
(414) 225-0592			kmcclung@keyengineering.com		

Environmental Consultant (if applicable)

Contact Last Name	First	MI	Organization/ Business Name		
McClung	Kurt		Key Engineering Group, LTD		
Mailing Address			City	State	ZIP Code
735 N Water St, Suite 510			Milwaukee	WI	53202
Phone # (include area code)	Fax # (include area code)		Email		
(414) 225-0592			kmcclung@keyengineering.com		

Property Owner (if different from requester)

Contact Last Name	First	MI	Organization/ Business Name		
Klein	Michael		KC Franklin Partners, LLC		
Mailing Address			City	State	ZIP Code
4425 West Mitchell Street			Milwaukee	WI	53214
Phone # (include area code)	Fax # (include area code)		Email		

Section 2. Property Information

Property Name	FID No. (if known)
Former Boys and Girls Club Site	341282260

BRRTS No. (if known)	Parcel Identification Number
03-41-578482	359-0626-000

Street Address	City	State	ZIP Code
1632 North Franklin Place	Milwaukee	WI	53202

County	Municipality where the Property is located	Property is composed of:	Property Size Acres
Milwaukee	◉ City ○ Town ○ Village of Milwaukee	◉ Single tax parcel ○ Multiple tax parcels	1

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: 11/29/2017

Reason: Site development is underway. Characterization revealed more impacted soil than was originally known and we hope to meet the development schedule.

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.

☐ 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.

☐ 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.

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

A Contaminated Material Management Plan (CMMP) is attached. The entire parcel will be excavated as part of a multi-family housing development to allow underground parking. Clean soil will be transported to the Milwaukee Solvay site for use as an engineered barrier. A low-hazard exemption for polynuclear aromatic hydrocarbon (PAH) impacted soil is required for disposal at a quarry that is being reclaimed. Soil that does not qualify for a low-hazard exemption will be transported to a licensed solid waste disposal facility.

The quarry that is being reclaimed is the R&R Excavating Site (facility), located near the intersection of Highway 60 and Highway I in the Town of Cedarburg, WI. Approximately 11 acres of the 39.5 acre facility are being filled as part of the reclamation plan.

The Site meets the locational criteria in ch. NR 718.12(1)(c) WAC. The reclamation area is not located within a floodplain; within 100 feet of any wetland or critical habitat area; within 300 feet of any navigable river, stream, lake, pond or flowage; or within 100 feet of any on-site water supply well or 300 feet of any off-site water supply well. The soils will not be placed within 3 feet of the groundwater table.

The soils proposed to be transported to the facility will be placed at approximately 20 feet below the proposed finished grade and greater than 3 feet above the groundwater table. Based on the relatively insoluble and/or highly immobile nature of the contaminants, the planned capping of the Site, and the depth from the groundwater table at the disposal site versus the generator site, we request an exemption to the locational criteria of ch. NR 718.12(1)(c)6 to allow placement of the contaminated soil at a depth greater than the depth of the original excavation from which it was removed.

The destination facility will be listed on the Wisconsin DNR GIS registry and future land use will be restricted.

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.

☐ 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).

☐ 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).

☐ 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: _____

☐ 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: Contaminated Material Management Plan

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.

Section 7. Certification by the Person who completed this form

☒ I am the person submitting this request (requester)

☐ I prepared this request for: _____
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.

Signature

11/16/17
Date Signed

SENIOR ENGINEER
Title

414 225-0592
Telephone Number (include area code)

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.

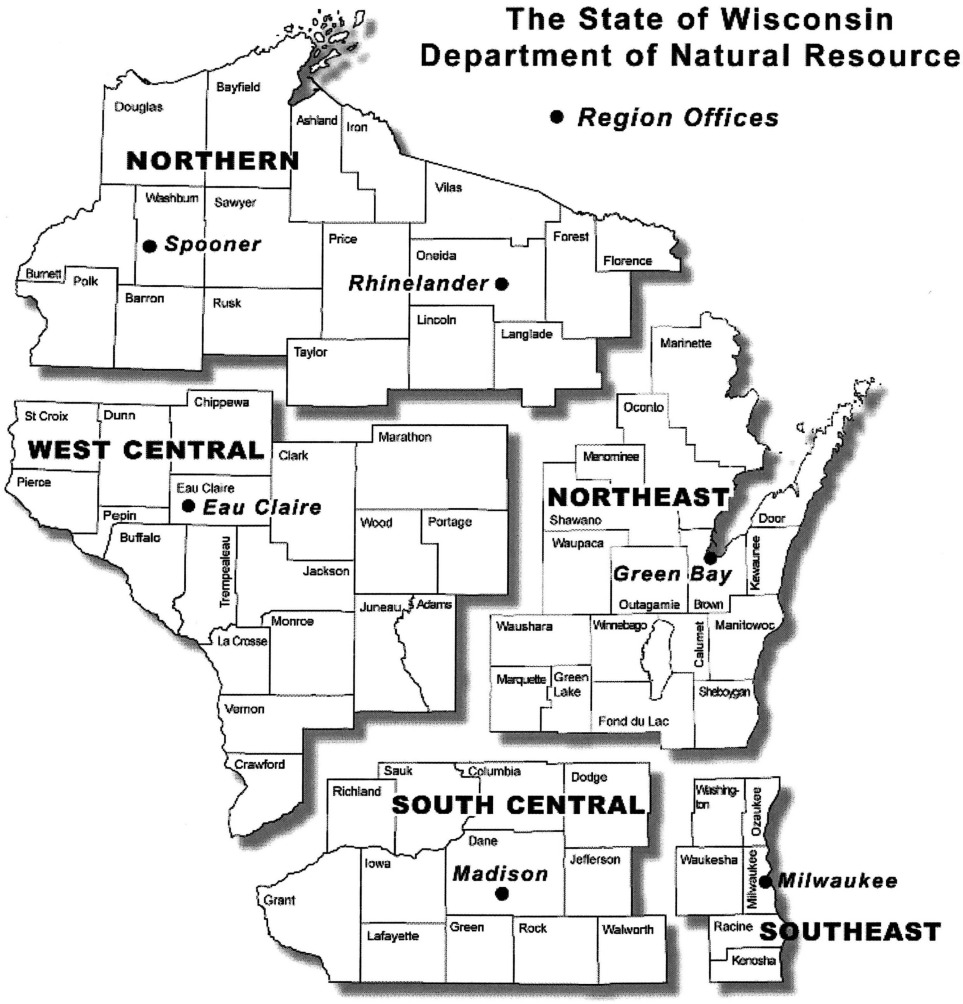
DNR NORTHERN REGION
Attn: RR Program Assistant
Department of Natural Resources
223 E Steinfest Rd Antigo, WI 54409

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



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? ◯ Yes ◯ No	Fee Amount $	Date Additional Information Requested	Date Requested for DNR Response Letter
Date Approved	Final Determination		

A Division of SET Environmental Inc.
735 North Water Street, Suite 510
Milwaukee, Wisconsin 53202
Phone (414) 224-8300
Fax (414) 224-8383

CONTAMINATED MATERIAL MANAGEMENT PLAN

Former Boys and Girls Club Site

1632 North Franklin Place

Milwaukee, Wisconsin

BRRTS No. 02-41-578482

BRRTS No. 03-41-578483

November 15, 2017

PREPARED FOR:

C.D. Smith Construction, Inc.

241 N. Broadway, Suite 400

Milwaukee, Wisconsin 53202

CONTAMINATED MATERIAL MANAGEMENT PLAN

Former Boys and Girls Club Site
1632 North Franklin Place
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BRRTS No. 02-41-578482
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November 15, 2017

PREPARED FOR:
C.D. Smith Construction, Inc.
241 N. Broadway, Suite 400
Milwaukee, Wisconsin 53202

KEY ENGINEERING GROUP, LTD.

Kurt McClung, PG, PE
Senior Engineer

D'Arcy Gravelle, PG, CPG
Principal Hydrogeologist

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF ATTACHMENTS

1.0 INTRODUCTION

This Contaminated Material Management Plan (CMMP) has been prepared for the Former Boys and Girls Club Site. The site is located at 1632 North Franklin Place, City of Milwaukee, Milwaukee County, Wisconsin. The soil at this property is impacted with polynuclear aromatic hydrocarbons (PAHs) from coal fines (BRRTS No. 02-41-578482) and from a former leaking heating oil underground storage tank (UST; BRRTS No. 03-41-578483).

This CMMP provides:

- Background information describing the site location and history;
- Information on the nature of hydrocarbon impacts present on-site;
- Details of the protocols to be followed to minimize exposure to contaminants; and
- Management details for contaminated soils encountered.

Questions regarding requiring clarification of this plan should be submitted to the owner's representative, and at the owner's representative's direction, the consultant.

2.0 GENERAL INFORMATION

2.1 Site Location

The site consists of an urban parcel located at 1632 North Franklin Place, in the City of Milwaukee, Milwaukee County, Wisconsin. The site is located in the northwest ¼ of the southeast ¼ of Section 21, Township 7 North, Range 22 East. The site location is 43°03'05.7"N, 87°53'46.2"W and is illustrated on a topographic quadrangle presented as Figure 1.

The site consists of 1.06 acres and is currently vacant. The structure that most recently occupied the site, the Former Boys and Girls Club, was razed in 2016 and the adjacent parcels are residential. The site is bounded by North Franklin Place to the west, residential properties to the north and south, and by North Arlington Place on the west.

The following contact information is provided for the site and environmental consultant:

Current Property Owners:
Taxkey 359-0626-000
Michael Klein
KC Franklin Partners, LLC
4425 West Mitchell Street
Milwaukee, Wisconsin 53214

Property Developer:
Brendan Sigler
C. D. Construction, Inc.
241 N. Broadway, Suite 400
Milwaukee, Wisconsin 53202
920-960-5444
bsigler@cdsmith.com

Environmental Consultant:
Kurt McClung
Key Engineering Group, Ltd.
735 North Water Street, Suite 510
Milwaukee, Wisconsin 53202
414-225-0592
kmcclung@keyengineering.com

2.2 Historical Usage

The recently razed structure was built in 1950 by the Boys Club of Milwaukee and was owned and operated by the Boys and Girls Club of Milwaukee from 1950 to the mid-1980s. The building was reportedly unused and vacant from the mid-1980s to late-1980s. Jesus Soul Saving Traveling Mission Church purchased the subject site in 1988 and occupied the property until 2012. The building was condemned by the City of Milwaukee and a raze order was issued to the former building owners in 2015.

Building inspection records indicated that two fuel oil-fired boilers were installed in the site structure during construction in 1950. Building permits indicate that the fuel oil was stored in one 15,000 – gallon fuel oil UST. A 500 – gallon fuel oil AST was reportedly located in the basement of the site structure but was not observed during the Phase I ESA site reconnaissance or during the building demolition. The building was heated with natural gas at the time of the former church's occupancy (1988-2012). The location of the former UST is depicted in Figure 2.

Historic Sanborn Fire Insurance Maps indicated that the southeast portion of the Site was occupied by a skating rink in the late 1800s and then by a training shed, boarding building, and office in the early 1900s. Historic references indicate that the site was a horse riding/training academy and later served as a "ward yard" for the 1st Ward neighborhood. Ward yards were early public works facilities for the city street sanitation crews and housed equipment and materials needed to keep city streets clean and free of obstacles. This ward yards reportedly included a coal shed to provide coal to ward residents. In 1935, the ward yard was relocated further north of the Site to the area of Humboldt Avenue and Kane Place. The ward yard at the Site was subsequently used as a storage facility for an unknown period of time.

The 15,000 gallon UST removed in July 2016 was located in the approximate location of the former ward yard office.

2.3 Site Redevelopment Plan

Future use of the Site includes construction of a multi-story apartment building within the approximate footprint of the Former Boys and Girls Club structure. The future structure will include underground parking, which will encompass the basement of the former Boys and Girls Club structure.

3.0 REMEDIATION AND VALIDATION

This section summarizes the constituents of concern, contaminated material management, and sampling requirements.

3.1 Constituents of Concern

Based on the site investigation results and subsequent sample analysis, the conditions can be summarized as follows:

- The soil profile encountered at the site included less than 2 feet of shallow fill consisting of silt and black silt, suggesting the probable presence of coal fines commonly found in shallow urban soils. Underlying natural soils generally consisted of clay. Monitoring well borings MW-3 and MW-4 encountered sand at 40 to 42 feet bgs, the maximum depth explored.
- Groundwater was encountered at approximately 30 feet bgs during monitoring well installation. Static water levels remained at approximately 30 feet bgs in all of the wells except MW-2, where the water level stabilized at 19.75 feet bgs.
- Soil samples collected beneath the former UST at the 14 to 15 foot bgs interval (Tank Center) and south of the UST at the 8 to 10 foot bgs interval (GP-2) contained PAHs at concentrations exceeding the Wisconsin Administrative Code (WAC) Chapter NR 720 Residual Contaminant Level (NR 720 RCL) for the groundwater pathway. However, groundwater sampling analytical results do not reveal significant groundwater impact beyond the former UST cavity.
- The initial groundwater sampling event for the monitoring well installed within the former UST excavation (MW-1) indicated that the groundwater contained PAHs exceeded the NR 140 Enforcement Standard (NR 140 ES) including benzo(a)pyrene, benzo(b)fluoranthene, and chrysene, compounds which are commonly detected in turbid samples. A second sampling event, completed using low-flow sampling methods, indicated only a few PAHs exceeding the NR 140 Preventive Action Limit (NR 140 PAL), and those PAHs were detected at concentrations between the limit of detection and limit of quantitation. The NR 140 PAL was not exceeded in the remaining groundwater samples collected from MW-2 through MW-4. These results indicate that that groundwater is not significantly impacted.

Table 1 is a summary of the soil sample analytical results as of the spring 2017. As part of the redevelopment of the property, the site was graded to allow access of equipment to all areas of the site. Table 2 is a summary of the soil sample analytical results following grading activity at the site.

The sample results presented in Table 2 were collected in October 2017. The purpose for the October 2017 soil sampling was to obtain current soil characterization following demolition and grading activity, and to comply with NR 718 soil management requirements to provide soil sample analytical results for every 100 cubic yards for the first 600 cubic yards and for each 300 cubic yards planned for excavation thereafter.

3.2 Overview of Site Redevelopment Activities

Generally, the site will be excavated to a uniform elevation to allow for underground parking. A multi-family housing structure will be erected at the site that will encompass nearly the entire parcel.

4.0 NATURE AND OCCURRENCE OF CONTAMINATION

This section describes the location, type and concentration of the chemicals present in the site fill material and soils. Details are also provided regarding the potential hazard posed by the impacted soils at the site, and relevant exposure pathways.

4.1 Occurrence of Contaminated Material

For the purpose of this plan, any disturbed material in the upper 5 feet at the west two-thirds of the site and at the southeast corner of the site should be considered as potentially contaminated with any or all of the previously identified contaminants.

4.2 Nature of Site Contaminants

This section provides general information on the toxicity of the chemicals present at the site. Overview of chemical characteristics are below:

Group Name	Chemical/Compound Name	General Toxicity Information
Semi-Volatile Organic Compounds	Polycyclic aromatic hydrocarbons (PAHs)	Some PAHs are carcinogenics and can cause immunosuppression, dermatitis and other skin disorders
Metals	Lead	Reproductive, central nervous system, and organ hazard. Skin and respiratory system irritant. May cause vomiting, abdominal pain, anemia, diarrhea.

This information is not intended to be a comprehensive review of such factors. It is the responsibility of any party responsible for handling or otherwise disturbing site soils to prepare a health and safety plan incorporating specific information on:

- Hazards associated with site contaminants;
- Nature of the work being undertaken; and
- Measures required to be adopted to prevent exposure to these chemicals.

5.0 INTRUSIVE SITE EARTHWORKS MANAGEMENT

5.1 Introduction

This section provides guidance on the processes which should be followed if intrusive works are proposed.

5.2 Health and Safety

All consultants, contractors, employees, etc. that may disturb or come in contact with soils on the property should have their own health and safety plan to manage contingencies which may arise. These plans should reflect applicable standards of care recognized in the trades for performing work in environmentally impacted materials.

It is the responsibility of an employer to provide a safe work environment for their employees. Employees are responsible for determining the appropriate personal protective equipment to limit exposure to the contaminants. Construction equipment should be decontaminated prior to leaving the property.

5.3 Excavation and Material Handling Protocols

As part of the site redevelopment, an estimated 16,000 cubic yards of existing soil will be excavated and transported off-site. The latitude and longitude from the approximate center of the site is 43° 03' 05.7" N, 87° 53' 46.2" W. A cut-fill plan is presented as Figure 5. The negative numbers represent the areas and depths that material will be excavated, and positive numbers represent the areas where the surface elevation will be raised.

Chapter NR 718 requires representative soil samples be collected and submitted for laboratory analysis for every 100 cubic yards of moved material up to 600 cubic yards, then one sample for every 300 cubic yards. Based on the volume of excavated contaminated material (16,000 cubic yards), approximately 58 soil samples are necessary. KEY requests WDNR approval for the following soil sampling plan:

- Prior to earthmoving activities, 73 soil samples were collected for laboratory analysis of PAHs to fulfill the intent of the NR 718 and to support justification of beneficial use off-site.
    - Clean soil or soil yielding detection below the NR 720 RCLs will be transported to the Milwaukee Solvay site for use as an engineered barrier.
    - Leach tests will be performed on soil sampling intervals where the NR 720 RCLs are exceeded. The intended destination of the soil is the R&R Excavating Facility, Highway 60, Cedarburg, Wisconsin.
    - If WDNR approval is not provided for disposal at the R&R Excavating Facility, the soil will be disposed of at a licensed Subtitle D solid waste disposal facility.

5.3.1 Solid Waste Management Off-Site

At the eastern two-thirds of the site, the upper 5 feet is impacted by PAHs at concentrations that exceed the NR 720 RCL for non-industrial direct contact and/or groundwater pathway. At the southeast corner of the site, soil sample analysis reveal detections exceeding the NR 720 RCLs to a depth of approximately 12.5 feet bgs.

The R&R Excavating Facility occupies approximately 39.5-acres and is located near the intersection of Highway 60 and Highway I in the Town of Cedarburg. The property is bordered by vacant agricultural land to the south and east, former quarries to the north and west, and Highway I farther to the east. This facility was formerly a quarry and 11 acres will be filled as part of the quarry reclamation plan.

The Site meets the location criteria outlined in WAC Chapter NR 718.12(1)(c). The soils placed at the R&R Excavating Facility will be deposited:

- greater than 3 feet above the high-water table;
- within a floodplain;
- within 100 feet of any wetland or critical habitat area;
- within 300 feet of any navigable river, stream, lake, pond or flowage; or
- within 100 feet of any on-site water supply well or 300 feet of any off-site water supply well.

The soils proposed to be placed at the R&R Excavating Facility will be placed at a depth of approximately 20 feet below the proposed finished grade and greater than 3 feet above the local groundwater table. Based on the relatively insoluble and/or highly immobile nature of the contaminants, the planned capping of the Site, and the increased distance from the groundwater table at the disposal site versus the generator site, we request an exemption to the locational criteria of NR 718.12(1)(c)6 to allow placement of the contaminated soil at a depth greater than the depth of the original excavation.

5.3.2 Erosion and Sedimentation Controls

To minimize the potential of surface water runoff to become impacted and flow offsite, proper erosion and sedimentation controls will be implemented. Appropriately installed siltation controls should be provided and maintained. Surface water runoff should be controlled by intercepting and redirecting runoff in a controlled manner by appropriate means including, but not limited to, the use of temporary bunds, diversion drains, ditches, or properly sloped grade. The runoff controls should be installed in accordance with WDNR Guidelines and regulatory requirements. The work may include the construction of stormwater retention basins, covers over stormwater pits, bunding, silt fences, and straw bale barriers. Refer to Section 6.0 for management of surface water runoff once collected or diverted to a central location.

5.3.3 Air Quality Management

To the extent practicable, standard particulate emission (dust) control measures may be performed. Emission control may include, but are not limited to, the use of water to suppress dust. Control of airborne dust from contaminated soil may be maintained at all times by appropriate methods (e.g., covering of stockpiles with polyethylene sheeting, water suppression methods).

5.3.4 Record Keeping Requirements

At a minimum, the following documentary records should be maintained:

- Daily logs documenting the quantities of material excavated, and the destination for the material.
- A copy of the complaints register (if applicable), including details of complaints and actions taken.

6.0 SURFACE WATER AND GROUNDWATER MANAGEMENT

Surface water and groundwater will be managed during all phases of construction. The water management plan will be developed by the civil engineer for the site. The following components will be included in the water management plan:

- Methods to avoid discharges to groundwater and/or ambient waters;
- Procedures for isolating storm water from impacted areas;
- Details of water management measures;
- Details of remedial actions to be taken by the applicant and site operators in response to an exceedance of the ambient water management controls, including but not limited to:
    - Use of fences/curtains;
    - Contingency actions for flood, heavy rainfall and storm surges into the work areas; and
    - Contingency actions for failure of sediment controls.
- Procedures for reviewing and updating the water management plan as works progress.

Milwaukee Metropolitan Sewerage District (MMSD) has received a Notice of Intent (NOI) for authorization to dispose of accumulated surface water to the local sanitary sewer. The contractor is responsible for ensuring that the discharge is in compliance with MMSD Rules and authorization requirements. Permissible limits of contaminants within the local sanitary sewer are identified in Chapter 11.202 of MMSD Rule. Periodic sampling may be requested to demonstrate compliance with the authorization and the consultant is available to assist with the sample collection and reporting, as needed.

7.0 UNFORSEEN SITE CONDITIONS

Potentially unforeseen site conditions may include but are not limited to:

- Encountering USTs or other buried vessels;
- Strong unidentifiable or chemical odors;
- Discolored soil, other than the anticipated red-brown and gray clay;
- Soil thought to be more heavily impacted than previously observed; or
- Water thought to be contaminated, or free phase hydrocarbons.

The consultant will assist in resolving unforeseen conditions. Should USTs be encountered, the consultant will assist in their removal in accordance with the guidelines of Wisconsin Administrative Code Chapter SPS 310. Contractors are encouraged to develop a working knowledge of the guidelines described in SPS 310. Please note that a 10-day notification is required to the Wisconsin Department of Safety and Professional Services (DSPS) prior to removal of an UST.

In the event of strong odors or encountering discolored soil, other than red-brown and gray clay, consultant will assist in characterization with chemical profile analysis. The consultant will advise the owner's representative as to the handling procedure and suitability of such materials for on-site use or appropriate disposal.

In the event of encountering impacted water or free-phase liquids, the consultant will assist in characterization with chemical profile analysis. The consultant will advise the owner's representative as to the handling procedure and suitable disposal.

Table 1
Pre-Grading Soil Sample Analytical Results
Former Boys and Girls Club 1632 Franklin Place Milwaukee, Wisconsin
BRRTS No 03-41-578482

PARAMETERS	Non-Industrial Direct Contact RCL	Protection of Groundwater RCL	Sample Identification															
			Tank Center	Tank East	Tank West	GP-1	GP-2	GP-3	MW-2	MW-3	MW-4	HA-1	HA-2	HA-3	HA-4	GP-4		GP-5	
Date Collected			7/15/2016	7/15/2016	7/15/2016	8/10/2016	8/10/2016	8/10/2016	8/10/2016	8/10/2016	8/10/2016	9/30/2016	9/30/2016	9/30/2016	9/30/2016	12/9/2016		12/9/2016	
Depth (feet bgs)			14-15	14-15	14-15	8-10	8-10	8-10	22-24	29-31	34-36	1-2	1-2	1-2	1-2	2-4	6-8	2-4	6-8
Saturated(s)/Unsaturated(u)			u	u	u	u	u	u	u	u	u	u	u	u	u	u	u	u	u
Detected VOCs (mg/kg)																			
Benzene	1.6	0.0051	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
n-Butylbenzene	108		0.14	0.13	0.28	<0.025	<0.025	<0.025	0.033J	0.042J	<0.025	<0.025	<0.025	<0.025	<0.025				
sec-Butylbenzene	145		0.12	0.10	0.087	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025				
Naphthalene	5.52	0.6582	<0.040	<0.040	0.23J	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.091J				
n-Propylbenzene	---	---	<0.025	<0.025	0.051J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025				
Toluene	818	1.1072	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.068				
1,2,4-Trimethylbenzene	219	---	0.088	0.11	0.33	<0.025	<0.025	<0.025	0.18	0.097	<0.025	<0.025	<0.025	<0.025	0.064J				
1,3,5-Trimethylbenzene	182	---	<0.025	0.039J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.037J				
Trimethylbenzenes	---	1.3821	0.088	0.149	0.33	<0.050	<0.050	<0.050	0.18	0.097	<0.050	<0.050	<0.050	<0.050	0.101J				
m&p-Xylene	---	---	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.082J				
o-Xylene	---	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.029J				
Xylenes	260	3.96	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	0.111J				
Detected PAHs (mg/kg)																			
Acenaphthene	3,590	---	0.16	<0.011	0.035	0.010J	<0.057	<0.010	<0.010	<0.0095	<0.0094	0.039	0.010J	0.028J	<0.084	<0.0054	<0.0046	<0.0048	<0.0046
Acenaphthylene	---	---	0.14	<0.010	<0.0098	<0.0087	0.13	<0.0094	<0.0092	<0.0085	<0.0084	0.012J	0.016	0.14	0.11J	<0.0046	<0.0039	<0.0041	<0.0039
Anthracene	17,900	196.9492	0.26	<0.012	0.013J	<0.010	0.34	<0.011	<0.011	<0.0099	<0.0098	0.10	0.056	0.24	0.75	<0.0079	<0.0067	0.011J	<0.0068
Benzo(a)anthracene	1.14	---	0.76	<0.0078	<0.0076	<0.0067	0.98	<0.0073	<0.0071	0.035	0.021	0.18	0.26	0.64	4.2	0.0044J	<0.0037	0.048	<0.0038
Benzo(a)pyrene	0.115	0.47	**0.59**	<0.0081	<0.0078	<0.0069	1.1	<0.0075	<0.0073	0.042	0.024	0.18	0.32	**0.92**	**5.3**	<0.0035	<0.0030	0.033	<0.0030
Benzo(b)fluoranthene	1.15	0.4793	**0.81**	<0.011	<0.011	<0.0097	**1.2**	<0.010	<0.010	0.040	0.020	0.15	0.32	**0.89**	**5.7**	0.0051J	0.0047J	0.098	<0.0034
Benzo(g,h,i)perylene	---	---	0.26	<0.0086	<0.0083	<0.0074	0.91	<0.0080	<0.0078	0.030	0.017J	0.12	0.16	0.64	4.3	<0.0028	0.0028J	0.066	<0.0024
Benzo(k)fluoranthene	11.5	---	0.33	<0.013	<0.012	<0.011	0.87	<0.012	<0.011	0.039	0.025	0.15	0.31	0.76	5.2	<0.0035	<0.0030	0.031	<0.0030
Chrysene	115	0.1446	**0.81**	<0.010	<0.010	<0.0090	**1.1**	<0.0097	<0.0095	0.043	0.027	**0.23**	**0.32**	**0.76**	**5.1**	0.0088J	0.0060J	0.084	<0.0040
Dibenzo(a,h)anthracene	0.115	---	0.12	<0.0083	<0.0080	<0.0071	0.33	<0.0077	<0.0075	0.011J	<0.0069	0.044	0.072	0.27	1.6	<0.0031	<0.0026	0.022	<0.0027
Fluoranthene	2,390	88.8778	1.2	<0.011	<0.011	<0.0097	2.2	<0.010	<0.010	0.065	0.040	0.34	0.46	1.4	6.3	<0.0072	<0.0061	0.075	<0.0062
Fluorene	2,390	14.8299	0.22	<0.011	0.031	<0.0097	0.063J	<0.010	<0.010	<0.0095	<0.0094	0.045	0.010J	0.026J	0.099J	<0.0057	<0.0049	<0.0052	<0.0049
Indeno(1,2,3-cd)pyrene	1.15	---	0.26	<0.0086	<0.0083	<0.0074	0.84	<0.0080	<0.0078	0.029	0.016J	0.11	0.17	0.60	4.1	<0.0031	<0.0026	0.037	<0.0026
1-methyl naphthalene	17.6	---	0.29	0.05	0.20	0.063	<0.057	<0.010	0.028	<0.0095	<0.0094	0.016J	0.0096J	<0.019	<0.088	<0.0056	<0.0047	<0.0050	<0.0048
2-methyl naphthalene	239	---	0.26	0.051	0.28	<0.0097	<0.057	<0.010	0.026	<0.0095	<0.0094	0.025	0.012J	<0.024	<0.11	<0.0069	<0.0059	<0.0062	<0.0060
Naphthalene	5.52	0.6582	0.11	0.031	0.13	<0.0097	<0.057	<0.010	<0.010	<0.0095	<0.0094	0.032J	0.013J	<0.040	<0.18	<0.012	<0.0099	<0.010	<0.010
Phenanthrene	---	---	0.41	0.020J	0.073	<0.0097	0.96	<0.010	0.037	0.022	0.022	0.26	0.16	0.47	1.8	<0.016	<0.014	0.050	<0.014
Pyrene	1,790	54.5455	1.1	0.013J	0.032	<0.0097	1.8	<0.010	<0.010	0.057	0.035	0.37	0.37	1.1	5.3	0.0094J	0.0054J	0.063	<0.0054

Notes:

Bold values exceed the NR 720 RCL for protection of groundwater

Boxed values exceed the NR 720 RCL for non-industrial direct contact (applicable 0 to 4 feet bgs)

--- - no standard established

quanititation

bgs - below ground surface

mg/kg - milligrams per kilogram

PAHs - polynuclear aromatic hydrocarbons

VOCs - volatile organic compounds

Table 1
Pre-Grading Soil Sample Analytical Results
Former Boys and Girls Club 1632 Franklin Place Milwaukee, Wisconsin
BRRTS No 03-41-578482

PARAMETERS	Non-Industrial Direct Contact RCL	Protection of Groundwater RCL	Sample Identification													
			GP-6			GP-7		GP-8			GP-9			GP-10		
Date Collected			12/9/2016			12/9/2016		12/9/2016			12/9/2016			12/9/2016		
Depth (feet bgs)			2-4	14-15	34-36	2-4	6-8	0-2	2-4	6-8	0-2	2-4	6-8	0-2	2-4	6-8
Saturated(s)/Unsaturated(u)			u	u	u	u	u	u	u	u	u	u	u	u	u	u
Detected VOCs (mg/kg)																
Benzene	1.6	0.0051	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
n-Butylbenzene	108															
sec-Butylbenzene	145															
Naphthalene	5.52	0.6582														
n-Propylbenzene	---	---														
Toluene	818	1.1072														
1,2,4-Trimethylbenzene	219	---														
1,3,5-Trimethylbenzene	182	---														
Trimethylbenzenes	---	1.3821														
m&p-Xylene	---	---														
o-Xylene	---	---														
Xylenes	260	3.96														
Detected PAHs (mg/kg)																
Acenaphthene	3,590	---	<0.019	<0.0046	<0.0045	<0.0050	<0.0047	0.018	<0.0049	<0.0045	<0.0046	<0.0041	<0.0047	0.093	<0.0043	<0.0054
Acenaphthylene	---	---	<0.016	<0.0039	<0.0039	<0.0042	<0.0040	<0.0040	<0.0042	<0.0038	<0.0039	<0.0035	<0.0040	0.010J	<0.0036	<0.0046
Anthracene	17,900	196.9492	0.094	<0.0068	<0.0067	<0.0073	<0.0069	0.044	<0.0073	<0.0066	<0.0067	<0.0060	<0.0069	0.20	<0.0063	<0.0080
Benzo(a)anthracene	1.14	---	0.51	<0.0038	<0.0037	0.039	<0.0038	0.21	0.0062J	<0.0037	0.035	<0.0033	<0.0038	0.37	0.012	<0.0044
Benzo(a)pyrene	0.115	0.47	**0.55**	<0.0030	<0.0029	0.021	<0.0030	0.22	<0.0032	<0.0029	0.036	<0.0026	<0.0030	0.29	0.0096	<0.0035
Benzo(b)fluoranthene	1.15	0.4793	**1.1**	<0.0033	<0.0033	0.052	<0.0034	0.29	0.0038J	<0.0033	0.051	<0.0030	<0.0034	0.37	0.011	<0.0039
Benzo(g,h,i)perylene	---	---	0.54	<0.0024	<0.0024	0.023	<0.0025	0.13	<0.0026	<0.0024	0.020	<0.0021	<0.0024	0.16	0.0063J	<0.0028
Benzo(k)fluoranthene	11.5	---	0.42	<0.0030	<0.0029	0.026	<0.0030	0.10	<0.0032	<0.0029	0.019	<0.0026	<0.0030	0.16	0.0051J	<0.0035
Chrysene	115	0.1446	**0.86**	<0.0040	<0.0039	0.049	<0.0041	**0.24**	<0.0043	<0.0039	0.045	<0.0035	<0.0041	**0.36**	0.011J	<0.0047
Dibenzo(a,h)anthracene	0.115	---	0.15	<0.0026	<0.0026	0.0078J	<0.0027	0.029	<0.0028	<0.0026	0.0049J	<0.0023	<0.0027	0.045	<0.0025	<0.0031
Fluoranthene	2,390	88.8778	1.0	<0.0062	<0.0061	0.088	<0.0063	0.38	0.0072J	<0.0061	0.067	<0.0055	<0.0063	0.81	0.019J	<0.0073
Fluorene	2,390	14.8299	<0.020	<0.0049	<0.0048	<0.0053	<0.0050	0.013J	<0.0053	<0.0048	<0.0049	<0.0043	<0.0050	0.089	<0.0045	<0.0058
Indeno(1,2,3-cd)pyrene	1.15	---	0.49	<0.0026	<0.0026	0.020	<0.0027	0.11	<0.0028	<0.0026	0.017	<0.0023	<0.0026	0.14	0.0052J	<0.0031
1-methyl naphthalene	17.6	---	<0.019	<0.0048	<0.0047	<0.0051	<0.0049	<0.0049	<0.0051	<0.0047	<0.0048	<0.0042	<0.0048	0.035	<0.0044	<0.0056
2-methyl naphthalene	239	---	<0.024	<0.0059	<0.0059	<0.0064	<0.0060	<0.0060	<0.0064	<0.0058	<0.0059	<0.0053	<0.0060	0.043	<0.0055	<0.0070
Naphthalene	5.52	0.6582	<0.040	<0.010	<0.0099	<0.011	<0.010	<0.010	<0.011	<0.0098	<0.0099	<0.0088	<0.010	0.080	<0.0092	<0.012
Phenanthrene	---	---	0.26	<0.014	<0.014	0.029J	<0.014	0.19	<0.015	<0.014	0.025J	<0.012	<0.014	0.84	<0.013	<0.016
Pyrene	1,790	54.5455	0.81	<0.0053	<0.0053	0.067	<0.0055	0.40	0.0071J	<0.0052	0.067	<0.0047	<0.0054	0.70	0.019	<0.0063

Notes:

Bold values exceed the NR 720 RCL for protection of groundwater

Boxed values exceed the NR 720 RCL for non-industrial direct contact (applicable 0 to 4 feet bgs)

--- - no standard established

quanititation

bgs - below ground surface

mg/kg - milligrams per kilogram

PAHs - polynuclear aromatic hydrocarbons

VOCs - volatile organic compounds

Table 2
Post-Grading Soil Sample Analytical Results
Former Boys and Girls Club 1632 Franklin Place Milwaukee, Wisconsin
BRRTS No 03-41-578482

PARAMETERS	Non-Industrial Direct Contact RCL	Protection of Groundwater RCL	Background Threshold Value	Sample Identification																					
				B-1				B-2								B-3						B-4		B-5	
Date Collected																									
Depth (feet bgs)				0-2.5	2.5-5	5-7.5	7.5-10	0-2.5	2.5-5	5-7.5	7.5-10	10-12.5	12.5-15	15-17.5	17.5-20	0-2.5	2.5-5	5-7.5	7.5-10	10-12.5	12.5-15	0-2.5	2.5-5	0-2.5	2.5-5
Detected PAHs (mg/kg)																									
Acenaphthene	3,590	---	---	<0.0046	<0.0047	<0.0045	<0.0046	<0.0045	<0.0047	<0.0045	<0.0044	<0.0050	<0.0050	<0.0046	<0.0051	0.0890J	<0.0484	<0.0046	<0.0046	<0.0045	<0.0045	0.0101J	0.0166J	0.0149	0.0129J
Acenaphthylene	---	---	---	0.0046J	<0.0040	<0.0039	<0.0039	<0.0038	<0.0040	<0.0038	<0.0038	<0.0042	<0.0043	<0.0039	<0.0043	0.0867J	0.145	<0.0039	<0.0039	<0.0038	<0.0039	0.0091J	0.0077J	0.0034J	0.0065J
Anthracene	17,900	196.9492	---	0.0147J	0.0093J	<0.0067	<0.0068	<0.0067	<0.0069	0.0069J	<0.0065	<0.0073	0.0108J	<0.0068	<0.0075	0.360	0.324	<0.0067	<0.0067	<0.0066	<0.0067	0.0728	0.113	0.0625	0.069
Benzo(a)anthracene	1.14	---	---	0.0686	0.0242	<0.0037	<0.0038	<0.0037	<0.0038	0.0197	<0.0036	0.0048J	0.0237	<0.0038	<0.0042	1.27	1.32	0.0038J	<0.0037	<0.0037	<0.0037	0.346	0.618	0.172	0.356
Benzo(a)pyrene	0.115	0.47	---	0.0753	0.0211	<0.0029	<0.0030	<0.0029	<0.0030	0.0171	<0.0029	<0.0032	0.0138	0.0031J	<0.0033	**1.24**	**1.21**	0.0040J	<0.0030	<0.0029	<0.0029	0.326	**0.497**	0.152	0.358
Benzo(b)fluoranthene	1.15	0.4793	---	0.0617	0.0221	<0.0033	<0.0033	<0.0033	<0.0034	0.0171	<0.0032	<0.0036	0.0184	0.0038J	<0.0037	**1.09**	**1.52**	0.0053J	<0.0033	<0.0033	0.0036J	0.282	**0.495**	0.156	0.314
Benzo(g,h,i)perylene	---	---	---	0.0502	0.0084	<0.0024	<0.0024	<0.0024	<0.0025	0.0051J	<0.0023	<0.0026	0.0050J	<0.0024	<0.0027	0.774	0.577	<0.0024	<0.0024	<0.0024	<0.0024	0.206	0.324	0.117	0.258
Benzo(k)fluoranthene	11.5	---	---	0.0814	0.0202	<0.0029	<0.0030	<0.0029	<0.0030	0.0169	<0.0029	<0.0032	0.0084J	<0.0030	<0.0033	1.24	0.689	<0.0029	<0.0030	<0.0029	<0.0029	0.280	0.488	0.143	0.315
Chrysene	115	0.1446	---	0.0865	0.0251	<0.0040	<0.0040	<0.0039	<0.0041	0.0221	<0.0039	<0.0043	0.0191	<0.0040	<0.0044	**1.53**	**1.25**	0.0047J	<0.0040	<0.0039	<0.0040	**0.350**	**0.638**	**0.172**	**0.395**
Dibenzo(a,h)anthracene	0.115	---	---	0.0163	0.0031J	<0.0026	<0.0027	<0.0026	<0.0027	<0.0026	<0.0026	<0.0029	<0.0029	<0.0027	<0.0029	0.240	0.177	<0.0026	<0.0026	<0.0026	<0.0026	0.0664	0.105	0.0395	0.0819
Fluoranthene	2,390	88.8778	---	0.175	0.0654	<0.0061	<0.0062	<0.0061	<0.0063	0.0451	<0.0060	<0.0067	0.0541	0.0082J	<0.0069	3.20	2.54	0.0103J	<0.0061	<0.0060	<0.0061	0.669	1.33	0.349	0.801
Fluorene	2,390	14.8299	---	<0.0049	<0.0050	<0.0049	<0.0049	<0.0048	<0.0050	<0.0048	<0.0047	<0.0053	<0.0053	<0.0049	<0.0055	0.196	<0.0516	<0.0049	<0.0049	<0.0048	<0.0048	0.0112J	0.0202J	0.0142	0.0139J
Indeno(1,2,3-cd)pyrene	1.15	---	---	0.0473	0.0087J	<0.0026	<0.0026	<0.0026	<0.0027	0.0054J	<0.0025	<0.0028	0.0054J	<0.0026	<0.0029	0.720	0.586	<0.0026	<0.0026	<0.0025	<0.0026	0.194	0.302	0.106	0.232
1-methyl naphthalene	17.6	---	---	0.0866	<0.0048	<0.0047	<0.0048	<0.0047	<0.0049	<0.0047	<0.0046	<0.0052	<0.0052	<0.0048	<0.0053	0.179	<0.0502	<0.0047	<0.0047	<0.0047	<0.0047	0.0086J	0.0133J	0.0054J	0.0099J
2-methyl naphthalene	239	---	---	0.1060	<0.0060	<0.0059	<0.0059	<0.0058	<0.0060	<0.0048	<0.0057	<0.0064	<0.0065	<0.0060	<0.0066	0.232	<0.0624	<0.0059	<0.0059	<0.0058	<0.0059	0.0085J	0.0101J	0.0041J	0.0066J
Naphthalene	5.52	0.6582	---	0.0927	<0.0101	<0.0099	<0.0100	<0.0098	<0.0102	<0.0098	<0.0097	<0.0108	<0.0109	<0.0101	<0.0111	0.135J	<0.105	<0.0099	<0.0099	<0.0097	<0.0099	0.0189J	0.0153J	0.0097J	0.0149J
Phenanthrene	---	---	---	0.0994	0.0397J	<0.0137	<0.0138	<0.0136	<0.0141	0.0232J	<0.0134	<0.0150	0.0376J	<0.0139	<0.0154	1.56	0.759	<0.0137	<0.0137	<0.0135	<0.0136	0.281	0.374	0.168	0.292
Pyrene	1,790	54.5455	---	0.150	0.0497	<0.0053	<0.0053	<0.0053	<0.0055	0.0359	<0.0052	<0.0058	0.0373	0.0072J	<0.0059	2.60	2.30	0.0079J	<0.0053	<0.0052	<0.0053	0.619	1.12	0.317	0.692
RCRA Metals (mg/kg)																									
Arsenic	0.677	0.584	8	NS	4.1J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	15,300	164.8	364	NS	89.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	71.1	0.752	1	NS	<0.16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chromium	---	360,000	44	NS	31.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	400	27	52	NS	21.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	3.13	0.208	---	NS	<0.013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	391	0.52	---	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Silver	391	0.8491	---	NS	<0.40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

Bold values exceed the NR 720 RCL for protection of groundwater

Boxed values exceed the NR 720 RCL for non-industrial direct contact (applicable 0 to 4 feet bgs)

--- - no standard established

J - Results between laboratory limit of detection and limit of quanititation

bgs - below ground surface

mg/kg - milligrams per kilogram

NS - no sample collected

PAHs - polynuclear aromatic hydrocarbons

VOCs - volatile organic compounds

RCL Values were obtained from the WDNR RCL Table dated March 2017

Table 2
Post-Grading Soil Sample Analytical Results
Former Boys and Girls Club 1632 Franklin Place Milwaukee, Wisconsin
BRRTS No 03-41-578482

PARAMETERS	Non-Industrial Direct Contact RCL	Protection of Groundwater RCL	Background Threshold Value	Sample Identification																							
				B-6						B-7				B-8				B-9					B-10					
Date Collected																											
Depth (feet bgs)				0-2.5	2.5-5	5-7.5	7.5-10	10-12.5	12.5-15	0-2.5	2.5-5	5-7.5	7.5-10	0-2.5	2.5-5	5-7.5	7.5-10	0-2.5	2.5-5	5-7.5	7.5-10	10-12.5	0-2.5	2.5-5	5-7.5	7.5-10	10-12.5	12.5-15
Detected PAHs (mg/kg)																											
Acenaphthene	3,590	---	---	<0.0046	<0.0046	<0.0046	<0.0048	<0.0046	<0.0046	<0.0046	<0.0049	<0.0046	<0.0049	0.0075J	0.31J	<0.0052	<0.0049	0.016J	0.092J	0.099	<0.0047	0.0054J	0.0229	0.0291	<0.0019	<0.00019	<0.00019	<0.00019
Acenaphthylene	---	---	---	<0.0039	<0.0039	<0.0039	<0.0040	<0.0039	<0.0039	<0.0039	<0.0042	<0.0039	<0.0042	<0.0040	<0.082	<0.0044	<0.0042	0.020J	<0.031	<0.019	<0.0040	<0.0040	0.00094J	<0.0018	<0.0018	<0.00018	<0.00018	<0.00017
Anthracene	17,900	196.9492	---	<0.0067	<0.0067	<0.0067	<0.0070	<0.0067	<0.0067	<0.0067	<0.0072	<0.0068	<0.0073	0.031	1.1	<0.0077	<0.0073	0.083	0.34	0.30	0.012J	0.015J	0.0745	0.106	0.00046J	0.00052J	<0.00026	<0.00026
Benzo(a)anthracene	1.14	---	---	<0.0037	<0.0037	<0.0037	<0.0039	0.0099J	<0.0037	0.026	<0.0040	<0.0038	<0.0040	0.11	3.0	<0.0043	<0.0040	0.35	1.0	0.54	0.039	0.043	0.138	0.242	0.0019J	0.0037	0.00060J	0.00079J
Benzo(a)pyrene	0.115	0.47	---	<0.0029	<0.0030	<0.0029	<0.0031	0.0078J	<0.0029	0.026	<0.0032	<0.0030	<0.0032	0.12	**2.7**	<0.0034	<0.0032	0.38	**0.99**	**0.52**	0.043	0.044	0.0971	0.199	0.0016J	0.0030	0.00057J	0.00074J
Benzo(b)fluoranthene	1.15	0.4793	---	<0.0033	<0.0033	<0.0033	<0.0035	0.011J	<0.0033	0.034	<0.0036	<0.0034	<0.0036	0.13	**2.9**	<0.0038	<0.0036	0.36	1.0	0.47	0.038	0.047	0.101	0.193	0.0017J	0.0034	0.00076J	0.00081J
Benzo(g,h,i)perylene	---	---	---	<0.0024	<0.0024	<0.0024	<0.0025	0.0040J	<0.0024	0.0095	<0.0026	<0.0024	<0.0026	0.082	1.9	<0.0027	<0.0026	0.29	0.70	0.36	0.014	0.037	0.0651	0.131	0.0020J	0.0032	0.0010J	0.0011J
Benzo(k)fluoranthene	11.5	---	---	<0.0029	<0.0030	<0.0029	<0.0031	0.0050J	<0.0029	0.014	<0.0032	<0.0030	<0.0032	0.098	2.5	<0.0034	<0.0032	0.34	0.84	0.54	0.041	0.04	0.107	0.185	0.0016J	0.0028J	0.00055J	0.00079J
Chrysene	115	0.1446	---	<0.0040	<0.0040	<0.0040	<0.0041	0.0075J	<0.0040	0.029	<0.0043	<0.0040	<0.0043	0.13	**3.6**	<0.0045	<0.0043	**0.46**	**1.2**	**0.62**	0.048	0.053	0.135	**0.229**	0.0028J	0.0049	0.0014J	0.0015J
Dibenzo(a,h)anthracene	0.115	---	---	<0.0026	<0.0026	<0.0026	<0.0027	<0.0026	<0.0026	0.0034J	<0.0028	<0.0027	<0.0028	0.026	0.64	<0.0030	<0.0029	0.098	0.23	0.12	0.0070J	0.011	0.0211	0.0451	<0.00089	0.00092J	<0.00090	<0.00087
Fluoranthene	2,390	88.8778	---	<0.0061	<0.0061	<0.0061	<0.0064	0.014J	<0.0061	0.049	<0.0066	<0.0062	<0.0066	0.31	9.3	<0.0070	<0.0066	0.93	2.9	1.8	0.11	0.13	0.328	0.602	0.0032	0.0061	0.00088J	0.0013J
Fluorene	2,390	14.8299	---	<0.0049	<0.0049	<0.0049	<0.0051	<0.0049	<0.0049	<0.0049	<0.0052	<0.0049	<0.0053	0.0084J	0.30J	<0.0056	<0.0053	0.019J	0.096J	0.11	<0.0050	0.0066J	0.0265	0.0401	<0.00020	<0.00020	<0.00020	<0.00020
Indeno(1,2,3-cd)pyrene	1.15	---	---	<0.0026	<0.0026	<0.0026	<0.0027	0.0038J	<0.0026	0.011	<0.0028	<0.0026	<0.0028	0.075	1.7	<0.0030	<0.0028	0.25	0.62	0.33	0.017	0.031	0.0608	0.120	0.0013J	0.0023J	<0.00075	<0.00073
1-methyl naphthalene	17.6	---	---	<0.0047	<0.0047	<0.0047	<0.0049	<0.0047	<0.0047	<0.0047	<0.0051	<0.0048	<0.0051	<0.0049	<0.10	<0.0054	<0.0051	<0.0092	<0.038	<0.024	<0.0048	<0.0049	0.0093	0.0084J	<0.00023	<0.00023	<0.00023	<0.00022
2-methyl naphthalene	239	---	---	<0.0059	<0.0059	<0.0059	<0.0061	<0.0059	<0.0059	<0.0059	<0.0063	<0.0060	<0.0064	<0.0061	<0.12	<0.0067	<0.0064	<0.011	<0.047	<0.029	<0.0060	<0.0061	0.0117	0.0057J	<0.00025	<0.00025	<0.00025	<0.00024
Naphthalene	5.52	0.6582	---	<0.0099	<0.0099	<0.0099	<0.0103	<0.0099	<0.0099	<0.0099	<0.011	<0.010	<0.011	<0.010	<0.21	<0.011	<0.011	<0.019	<0.079	0.050J	<0.010	0.014J	0.0223	0.0160J	0.00031J	0.00032J	<0.00030	<0.00029
Phenanthrene	---	---	---	<0.0137	<0.0137	<0.0137	<0.0143	<0.014	<0.014	0.019J	<0.015	<0.014	<0.015	0.15	5.2	<0.016	<0.015	0.47	1.5	1.3	0.055	0.077	0.295	0.411	0.0025	0.0030	0.00092J	0.0013J
Pyrene	1,790	54.5455	---	<0.0053	<0.0053	<0.0053	<0.0055	0.012J	<0.0053	0.045	<0.0057	<0.0054	<0.0057	0.24	6.9	<0.0061	<0.0058	0.88	2.2	1.2	0.084	0.095	0.297	0.479	0.0042	0.0069	0.0013J	0.0016J
RCRA Metals (mg/kg)																											
Arsenic	0.677	0.584	8	NS	NS	3.8J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	6.2	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	15,300	164.8	364	NS	NS	74.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	108	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	71.1	0.752	1	NS	NS	<0.15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.32J	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chromium	---	360,000	44	NS	NS	26.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	25.0	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	400	27	52	NS	NS	7.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**108**	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	3.13	0.208	---	NS	NS	0.013J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.023J	NS	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	391	0.52	---	NS	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1.2	NS	NS	NS	NS	NS	NS	NS	NS	NS
Silver	391	0.8491	---	NS	NS	<0.40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.37	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

Bold values exceed the NR 720 RCL for protection of groundwater

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Former Boys and Girls Club 1632 Franklin Place Milwaukee, Wisconsin
BRRTS No 03-41-578482

PARAMETERS	Non-Industrial Direct Contact RCL	Protection of Groundwater RCL	Background Threshold Value	Sample Identification																									
				B-11								B-12					B-13								B-14				
Date Collected																													
Depth (feet bgs)				0-2.5	2.5-5	5-7.5	7.5-10	10-12.5	12.5-15	15-17.5	17.5-20	0-2.5	2.5-5	5-7.5	7.5-10	10-12.5	0-2.5	2.5-5	5-7.5	7.5-10	10-12.5	12.5-15	15-17.5	17.5-20	0-2.5	2.5-5	5-7.5	7.5-10	10-12.5
Detected PAHs (mg/kg)																													
Acenaphthene	3,590	---	---	<0.00019	<0.00019	<0.00020	<0.00037	<0.00021	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00020	<0.00019	<0.00022	<0.00021	<0.00022	<0.00020	0.0015J	<0.00021	0.0012J	<0.00018	0.021J	<0.0049	0.12	0.017	<0.0046
Acenaphthylene	---	---	---	<0.00018	<0.00018	<0.00019	<0.00035	<0.00020	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00017	<0.00019	<0.00018	<0.00020	<0.00020	<0.00020	<0.00018	0.00030J	<0.00019	<0.00019	<0.00016	<0.016	<0.0042	0.11	0.0046J	<0.0039
Anthracene	17,900	196.9492	---	<0.00026	0.00029J	<0.00027	0.0018J	<0.00029	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00027	<0.00026	<0.00030	<0.00029	0.0011J	<0.00027	0.0061	<0.00028	0.0044	<0.00024	0.12	0.021J	0.14	0.031	<0.0068
Benzo(a)anthracene	1.14	---	---	0.00083J	0.0014J	0.0011J	0.0067	0.00077J	0.0012J	0.0010J	0.00077J	0.00043J	0.00085J	0.00041J	0.00068J	0.00057J	0.00072J	0.00053J	0.0055	0.0011J	0.0216	0.00074J	0.0105	0.0013J	0.58	0.10	0.19	0.17	0.0074J
Benzo(a)pyrene	0.115	0.47	---	0.00059J	0.0012J	0.00076J	0.0061	0.00065J	0.0012J	0.0010J	<0.00058	<0.00056	0.00067J	<0.00056	0.0019J	<0.00057	<0.00065	<0.00064	0.0048	0.00078J	0.0201	<0.00062	0.0081	0.00098J	**0.56**	0.11	0.37	0.18	0.0073J
Benzo(b)fluoranthene	1.15	0.4793	---	0.00066J	0.0013J	0.00092J	0.0073	0.00068J	0.0013J	0.0011J	0.00071J	0.00046J	0.0010J	0.00049J	0.00091J	0.00061J	0.00067J	0.00063J	0.0041	0.00094J	0.0197	0.00055J	0.0089	0.0012J	**0.54**	0.11	0.27	0.15	0.0062J
Benzo(g,h,i)perylene	---	---	---	<0.00077	0.0012J	0.00084J	0.0060	0.0016J	0.0015J	0.0013J	<0.00078	0.00084J	0.00096J	<0.00076	0.0017J	<0.00077	<0.00089	<0.00086	0.0029J	<0.00079	0.0121	<0.00084	0.0057	0.0017J	0.35	0.045	0.39	0.067	0.0025J
Benzo(k)fluoranthene	11.5	---	---	0.00070J	0.0011J	0.00088J	0.0069	0.00049J	0.0010J	0.00091J	0.00069J	0.00042J	0.00078J	0.00042J	0.00057J	0.00053J	0.00067J	0.00041J	0.0040	0.00084J	0.0178	0.00052J	0.0069	0.00092J	0.50	0.11	0.29	0.20	0.0080J
Chrysene	115	0.1446	---	0.00087J	0.0015J	0.0017J	0.0098	0.0022J	0.0022J	0.0019J	0.0015J	0.0012J	0.0017J	0.0011J	0.0021J	0.00090J	0.00074J	0.0016J	0.0056	0.0013J	0.0221	0.00099J	0.0103	0.0031	**0.67**	0.12	**0.21**	**0.20**	0.010J
Dibenzo(a,h)anthracene	0.115	---	---	<0.00088	<0.00090	<0.00093	0.0024J	<0.00098	<0.00089	<0.00090	<0.00090	<0.00088	<0.00090	<0.00087	<0.00093	<0.00089	<0.0010	<0.00099	0.0012J	<0.00091	0.0041	<0.00097	0.0018J	<0.00082	0.13	0.019	0.10	0.033	<0.0027
Fluoranthene	2,390	88.8778	---	0.00078J	0.0021J	0.0020J	0.0083	0.00085J	0.0018J	0.0018J	0.00082J	0.00069J	0.0017J	0.00059J	0.0010J	0.00096J	0.0013J	0.00062J	0.0096	0.0017J	0.0412	0.0012J	0.0259	0.0017J	1.4	0.25	0.34	0.38	0.021
Fluorene	2,390	14.8299	---	<0.00020	<0.00020	<0.00021	0.0014J	<0.00022	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00021	<0.00020	<0.00023	<0.00023	<0.00023	<0.00021	0.0018J	<0.00022	0.0011J	<0.00019	0.025J	<0.0053	0.16	0.011J	<0.0049
Indeno(1,2,3-cd)pyrene	1.15	---	---	<0.00074	0.00095J	<0.00078	0.0050	<0.00082	<0.00075	<0.00075	<0.00076	<0.00074	<0.00076	<0.00073	<0.00078	<0.00075	<0.00086	<0.00084	0.0025J	<0.00077	0.0115	<0.00081	0.0048	0.00069J	0.33	0.053	0.35	0.082	0.0029J
1-methyl naphthalene	17.6	---	---	<0.00023	<0.00023	<0.00024	0.0094	0.00078J	0.00036J	0.00063J	0.00035J	<0.00023	0.00054J	0.00072J	<0.00024	0.0014J	<0.00026	0.00032J	<0.00026	<0.00023	0.00078J	<0.00025	0.00037J	0.0010J	<0.020	<0.0051	0.88	<0.0050	<0.0048
2-methyl naphthalene	239	---	---	<0.00025	<0.00025	<0.00026	0.0116	0.00072J	0.00044J	0.0011J	0.00066J	<0.00025	0.00042J	0.0012J	<0.00026	0.0020J	<0.00029	0.00047J	<0.00028	<0.00026	0.00088J	<0.00027	0.00054J	0.0021J	<0.024	<0.0064	1.0	<0.0062	<0.0059
Naphthalene	5.52	0.6582	---	<0.00029	<0.00030	0.00039J	0.0049	0.00034J	0.0010J	<0.00030	0.00082J	<0.00029	0.00041J	0.00036J	<0.00031	0.00087J	<0.00034	0.00068J	0.00041J	<0.00030	0.0016J	<0.00032	0.0011J	0.0012J	<0.041	<0.011	0.14	0.014J	0.15
Phenanthrene	---	---	---	0.00067J	0.0015J	0.0017J	0.0088	0.0018J	0.0016J	0.0025	0.0012J	0.00090J	0.0020J	0.00073J	0.0011J	0.0017J	0.0010J	0.00097J	0.0034	0.0012J	0.027	0.00062J	0.0183	0.0017J	0.45	0.078	0.79	0.14	0.015J
Pyrene	1,790	54.5455	---	0.00088J	0.0019J	0.0018J	0.0144	0.0015J	0.0022J	0.0021J	0.00070J	0.00097J	0.0019J	0.00061J	0.0016J	0.0011J	0.0011J	0.00065J	0.0099	0.0017J	0.0371	0.0011J	0.0217	0.0018J	1.0	0.19	0.31	0.31	0.017J
RCRA Metals (mg/kg)																													
Arsenic	0.677	0.584	8	NS	NS	4.4J	NS	NS	NS	NS	NS	NS	5.2J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	15,300	164.8	364	NS	NS	96.3	NS	NS	NS	NS	NS	NS	86.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	71.1	0.752	1	NS	NS	0.18J	NS	NS	NS	NS	NS	NS	<0.15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chromium	---	360,000	44	NS	NS	30.4	NS	NS	NS	NS	NS	NS	28.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	400	27	52	NS	NS	8.0	NS	NS	NS	NS	NS	NS	8.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	3.13	0.208	---	NS	NS	<0.013	NS	NS	NS	NS	NS	NS	<0.013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	391	0.52	---	NS	NS	<1.2	NS	NS	NS	NS	NS	NS	<1.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Silver	391	0.8491	---	NS	NS	<0.38	NS	NS	NS	NS	NS	NS	<0.38	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

Bold values exceed the NR 720 RCL for protection of groundwater

Boxed values exceed the NR 720 RCL for non-industrial direct contact (applicable 0 to 4 feet bgs)

--- - no standard established

J - Results between laboratory limit of detection and limit of quanititation

bgs - below ground surface

mg/kg - milligrams per kilogram

NS - no sample collected

PAHs - polynuclear aromatic hydrocarbons

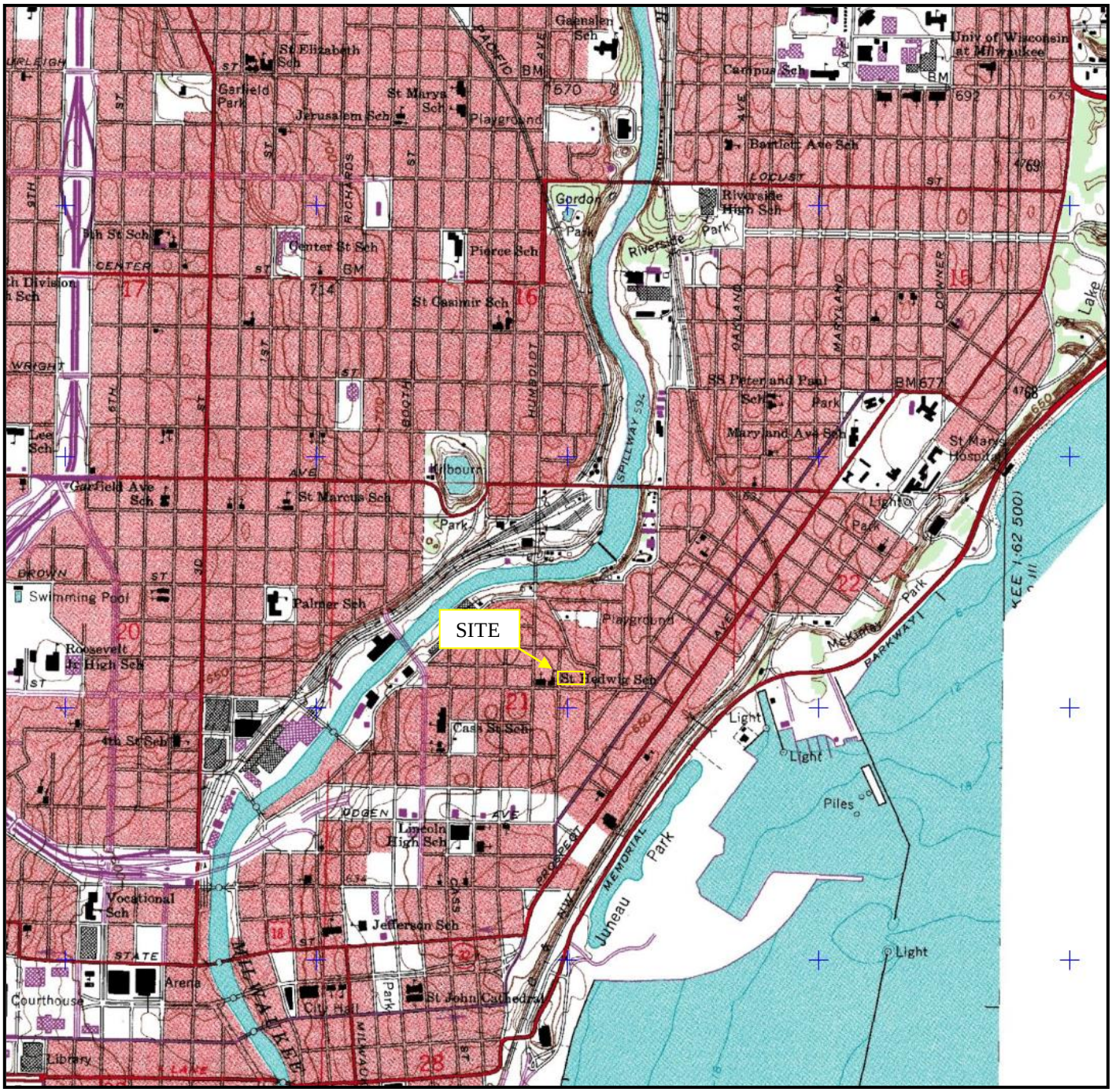
VOCs - volatile organic compounds

RCL Values were obtained from the WDNR RCL Table dated March 2017

Table 3
Groundwater Sample Analytical Results
Former Boys and Girls Club 1632 Franklin Place Milwaukee, Wisconsin
BRRTS No 03-41-578482

PARAMETERS	Preventive Action Limit	Enforcement Standard	SAMPLE IDENTIFICATION								
			MW-1			MW-2		MW-3		MW-4	
Date Collected	---	---	8/16/2016	9/26/2017	9/26/2017 D	8/16/2016	9/26/2017	8/16/2016	9/26/2017	8/16/2016	9/26/2017
Detected VOCs (ug/l)											
p-Isopropyltoluene	---	---	<0.50	NA	NA	10.2	NA	<0.50	NA	<0.50	NA
PAHs (ug/l)											
Acenaphthene	---	---	0.022J	<0.0057	0.011J	<0.0047	0.011J	<0.0047	<0.0057	<0.0051	0.0068J
Acenaphthylene	---	---	0.031J	<0.0047	<0.0046	<0.0047	0.032	<0.0047	<0.0047	<0.0051	<0.0046
Anthracene	600	3,000	0.15	0.010J	0.05	<0.0038	<0.0098	<0.0038	<0.0098	0.022J	<0.0097
Benzo(a)anthracene	---	---	0.29	0.029J	0.14	<0.0048	0.025J	<0.0049	<0.0071	<0.0053	<0.0070
Benzo(a)pyrene	0.02	0.2	**0.37**	*0.030J*	*0.17*	<0.0042	*0.036J*	<0.0042	<0.0098	0.0064J	<0.0098
Benzo(b)fluoranthene	0.02	0.2	**0.49**	*0.050*	**0.24**	<0.0050	*0.048*	<0.0051	<0.0054	0.016J	<0.0053
Benzo(g,h,i)perylene	---	---	0.26	0.030J	0.15	<0.0033	0.039	<0.0033	<0.0063	0.0081J	<0.0063
Benzo(k)fluoranthene	---	---	0.25	0.031J	0.14	<0.0053	0.028J	<0.0054	<0.0071	0.0091J	<0.0070
Chrysene	0.02	0.2	**0.46**	*0.062*	**0.27**	<0.0040	*0.036J*	<0.0040	<0.012	*0.030J*	<0.012
Dibenzo(a,h)anthracene	---	---	0.045J	<0.0094	0.023J	<0.0052	<0.0094	<0.0053	<0.0094	<0.0057	<0.0093
Fluoranthrene	80	400	0.92	0.11	0.59	<0.0089	0.056	<0.0090	<0.010	0.022J	0.011J
Fluorene	80	400	0.026J	<0.0074	0.010J	<0.0038	0.0093J	<0.0038	<0.0074	<0.0042	<0.0074
Indeno(1,2,3-cd)pyrene	---	---	0.22	0.024J	0.11	<0.0034	0.032J	<0.0034	<0.016	0.0044J	<0.016
1-Methyl Naphthalene	---	---	0.0054J	<0.0055	<0.0055	0.0098J	0.010J	<0.0029	0.010J	0.0037J	0.0081J
2-Methyl Naphthalene	---	---	0.0080J	<0.0046	<0.0045	0.012J	0.016J	<0.0026	0.012J	0.0064J	0.0066J
Naphthalene	10	100	0.0093J	<0.017	<0.017	0.0095J	0.040J	<0.0043	<0.017	0.0078J	<0.017
Phenanthrene	---	---	0.36	0.042J	0.20	0.018J	0.043J	<0.0073	0.013J	0.014J	0.015J
Pyrene	50	250	0.77	0.087	0.41	<0.0073	0.044	<0.0073	0.0083J	0.021J	0.011J

Notes:
Bold concentrations exceed NR 140 enforcement standards
Italicized concentrations exceed NR 140 preventive action limits
--- - no standard established
D- Duplicate
J - Results between the limit of detection and limit of quantitation
NA - Not Analyzed
PAHs - polynuclear aromatic hydrocarbons
ug/l - micrograms per liter
VOCs - volatile organic compounds



SOURCE: United States Geological Survey, Milwaukee Wisconsin Quadrangle. 7.5 Minutes Series. 1971

USGS Location: Milwaukee	Map Year: 1971	FIGURE 1 SITE LOCATION MAP FORMER BOYS & GIRLS CLUB 1632 NORTH FRANKLIN STREET MILWAUKEE, WISCONSIN	KEY ENGINEERING GROUP LTD.
Project: 1606-0975-0001	Date: 9/21/2016		
N W E S	Scale: 1:24000		
	Series: 7.5 Minute		

DESIGNED BY: TLS	DATE: 9/27/16
DRAWN BY: RJN	PROJECT: 1606-0975
APPROVED BY: TLS	SHEET NO.
CADFILE G:\Projects\1606-0975 Boys and Girls Club\Base.dwg	
XREF	
LMAN	

FIGURE 2
SITE LAYOUT MAP
BOYS & GIRLS CLUB
1632 N FRANKLIN PLACE
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

Oct 13, 2016 - 8:29am G:\Projects\1606-0975 Boys and Girls Club\Base.dwg

LEGEND

● Sample Location

N FRANKLIN PL

N ARLINGTON PL

CHAIN LINK FENCE

PROPERTY LINE

PROPERTY LINE

B–1 B–2 B–3 B–4 B–5 B–6 B–7 B–8 B–9 B–10 B–11 B–12 B–13 B–14

EXISTING BUILDING

EXISTING BUILDING

SCALE IN FEET

30' 0 30'

DESIGNED BY TLS	DATE 11/15/2017
DRAWN BY RJN	PROJECT 1606–0975
APPROVED BY TLS	SHEET NO.

CADFILE G:\Projects\1606–0975 Boys and Girls Club\2017–11–15\Base.dwg
XREF
LMAN

FIGURE 3
POST–GRADING SOIL SAMPLE LOCATION MAP
BOYS & GIRLS CLUB
1632 N FRANKLIN PLACE
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

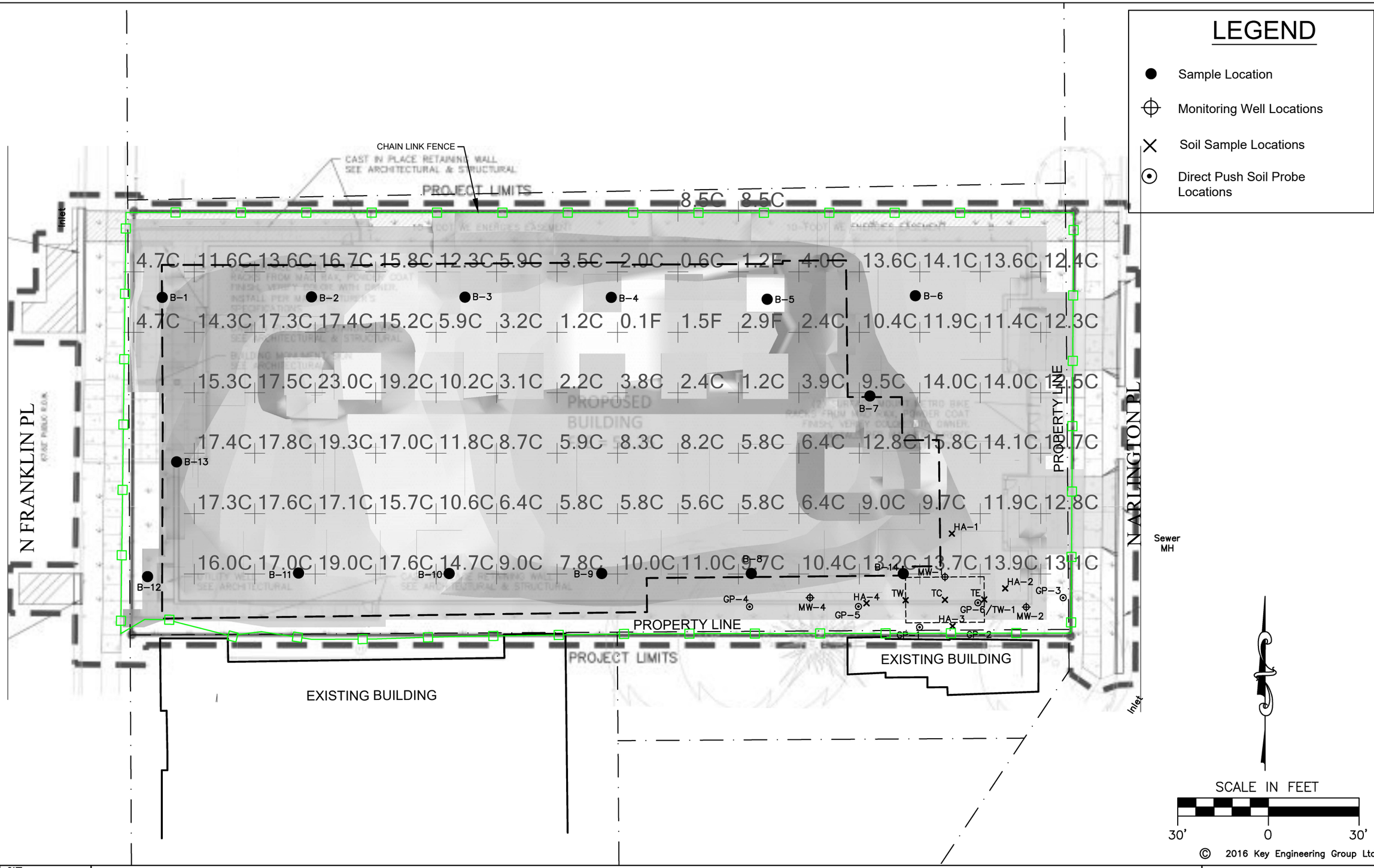
Nov 15, 2017 – 10:12am G:\Projects\1606–0975 Boys and Girls Club\2017–11–15\Base.dwg

DESIGNED BY TLS	DATE 11/15/2017
DRAWN BY RJN	PROJECT 1606-0975
APPROVED BY TLS	SHEET NO.
CADFILE G:\Projects\1606-0975 Boys and Girls Club\2017-11-15\Base.dwg XREF LMAN	

FIGURE 4
LOCATION OF SOIL RCL EXCEEDANCES
BOYS & GIRLS CLUB
1632 N FRANKLIN PLACE
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

Nov 15, 2017 - 10:13am G:\Projects\1606-0975 Boys and Girls Club\2017-11-15\Base.dwg



DESIGNED BY TLS	DATE 11/15/2017
DRAWN BY RJN	PROJECT 1606-0975
APPROVED BY TLS	SHEET NO.
CADFILE G:\Projects\1606-0975 Boys and Girls Club\2017-11-15\Base.dwg	
XREF LMAN	

FIGURE 5
CUT AND FILL PLAN
BOYS & GIRLS CLUB
1632 N FRANKLIN PLACE
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

Nov 15, 2017 - 10:14am G:\Projects\1606-0975 Boys and Girls Club\2017-11-15\Base.dwg

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 09, 2017

Kurt McClung
Key Engineering Group, LTD.
735 North Water Street
Milwaukee, WI 53202

RE: Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Dear Kurt McClung:
Enclosed are the analytical results for sample(s) received by the laboratory on November 02, 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,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Valerie Collins, Key Engineering Group, LTD.
Cassie Haupt, KEY ENGINEERING GROUP, LTD.
Toni Schoen, KEY ENGINEERING GROUP, LTD.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

Grand Rapids Certification ID's

5560 Corporate Exchange Ct SE, Grand Rapids, MI 49512
ISO/IEC 17025:2005, Certificate #AT-1542.01
DoD-ELAP, Certificate #ADE-1542
Minnesota Department of Health, Certificate #1177224
Arkansas Department of Environmental Quality, Certificate #17-046-0
Georgia Environmental Protection Division, Stipulation
Illinois Environmental Protection Agency, Certificate #004097
Michigan Department of Environmental Quality, Laboratory #0034
New York State Department of Health, Serial #56192 and 56193
North Carolina Division of Water Resources, Certificate #659
Virginia Department of General Services, Certificate #9028
Wisconsin Department of Natural Resources, Laboratory #999472650
U.S. Department of Agriculture Permit to Receive Soil, Permit #P330-14-00305

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40159995001	B3 2.5-5.0	Solid	10/30/17 14:08	11/02/17 07:35
40159995002	B6 5.0-7.5	Solid	10/30/17 16:29	11/02/17 07:35
40159995003	B10 2.5-5.0	Solid	10/31/17 09:53	11/02/17 07:35
40159995004	B12 5.0-7.5	Solid	10/31/17 12:38	11/02/17 07:35
40159995005	B13 7.5-10.0	Solid	10/31/17 13:48	11/02/17 07:35
40159995006	TRIP	Solid	10/31/17 00:00	11/02/17 07:35
40159995007	B1 2.5-5.0	Solid	10/30/17 12:49	11/02/17 07:35
40159995008	B6 5.0-7.5	Solid	10/30/17 16:27	11/02/17 07:35
40159995009	B9 2.5-5.0	Solid	10/31/17 09:24	11/02/17 07:35
40159995010	B11 5.0-7.5	Solid	10/31/17 10:37	11/02/17 07:35
40159995011	B12 2.5-5.0	Solid	10/31/17 12:33	11/02/17 07:35
40159995012	B1 0-2.5	Solid	10/30/17 12:30	11/02/17 07:35
40159995013	B1 2.5-5.0	Solid	10/30/17 12:45	11/02/17 07:35
40159995014	B1 5.0-7.5	Solid	10/30/17 12:55	11/02/17 07:35
40159995015	B1 7.5-10.0	Solid	10/30/17 13:00	11/02/17 07:35
40159995016	B2 0-2.5	Solid	10/30/17 13:15	11/02/17 07:35
40159995017	B2 2.5-5.0	Solid	10/30/17 13:20	11/02/17 07:35
40159995018	B2 5.0-7.5	Solid	10/30/17 13:25	11/02/17 07:35
40159995019	B2 7.5-10.0	Solid	10/30/17 13:30	11/02/17 07:35
40159995020	B2 10-12.5	Solid	10/30/17 13:35	11/02/17 07:35
40159995021	B2 12.5-15.0	Solid	10/30/17 13:40	11/02/17 07:35
40159995022	B2 15.0-17.5	Solid	10/30/17 13:45	11/02/17 07:35
40159995023	B2 17.5-20.0	Solid	10/30/17 13:50	11/02/17 07:35
40159995024	B3 0-2.5	Solid	10/30/17 14:00	11/02/17 07:35
40159995025	B3 2.5-5.0	Solid	10/30/17 14:05	11/02/17 07:35
40159995026	B3 5.0-7.5	Solid	10/30/17 14:10	11/02/17 07:35
40159995027	B3 7.5-10.0	Solid	10/30/17 14:15	11/02/17 07:35
40159995028	B3 10-12.5	Solid	10/30/17 14:20	11/02/17 07:35
40159995029	B3 12.5-15.0	Solid	10/30/17 14:25	11/02/17 07:35
40159995030	B4 0-2.5	Solid	10/30/17 14:45	11/02/17 07:35
40159995031	B4 2.5-5.0	Solid	10/30/17 14:50	11/02/17 07:35
40159995032	B5 0-2.5	Solid	10/30/17 14:55	11/02/17 07:35
40159995033	B5 2.5-5.0	Solid	10/30/17 16:00	11/02/17 07:35
40159995034	B6 0-2.5	Solid	10/30/17 16:15	11/02/17 07:35
40159995035	B6 2.5-5.0	Solid	10/30/17 16:20	11/02/17 07:35
40159995036	B6 5.0-7.5	Solid	10/30/17 16:25	11/02/17 07:35
40159995037	B6 7.5-10.0	Solid	10/30/17 16:30	11/02/17 07:35

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40159995038	B6 10-12.5	Solid	10/30/17 16:35	11/02/17 07:35
40159995039	B6 12.5-15.0	Solid	10/30/17 16:40	11/02/17 07:35
40159995040	B7 0-2.5	Solid	10/30/17 16:45	11/02/17 07:35
40159995041	B7 2.5-5.0	Solid	10/30/17 16:50	11/02/17 07:35
40159995042	B7 5.0-7.5	Solid	10/30/17 16:55	11/02/17 07:35
40159995043	B7 7.5-10.0	Solid	10/30/17 17:00	11/02/17 07:35
40159995044	B8 0-2.5	Solid	10/31/17 08:45	11/02/17 07:35
40159995045	B8 2.5-5.0	Solid	10/31/17 08:50	11/02/17 07:35
40159995046	B8 5.0-7.5	Solid	10/31/17 08:55	11/02/17 07:35
40159995047	B8 7.5-10.0	Solid	10/31/17 09:00	11/02/17 07:35
40159995048	B9 0-2.5	Solid	10/31/17 09:10	11/02/17 07:35
40159995049	B9 2.5-5.0	Solid	10/31/17 09:15	11/02/17 07:35
40159995050	B9 5.0-7.5	Solid	10/31/17 09:20	11/02/17 07:35
40159995051	B9 10-12.5	Solid	10/31/17 09:30	11/02/17 07:35
40159995052	B10 0-2.5	Solid	10/31/17 09:45	11/02/17 07:35
40159995053	B10 2.5-5.0	Solid	10/31/17 09:50	11/02/17 07:35
40159995054	B10 5.0-7.5	Solid	10/31/17 09:55	11/02/17 07:35
40159995055	B10 7.5-10.0	Solid	10/31/17 10:00	11/02/17 07:35
40159995056	B10 10-12.5	Solid	10/31/17 10:05	11/02/17 07:35
40159995057	B10 12.5-15.0	Solid	10/31/17 10:10	11/02/17 07:35
40159995058	B11 0-2.5	Solid	10/31/17 10:25	11/02/17 07:35
40159995059	B11 2.5-5.0	Solid	10/31/17 10:30	11/02/17 07:35
40159995060	B11 5.0-7.5	Solid	10/31/17 10:35	11/02/17 07:35
40159995061	B11 7.5-10.0	Solid	10/31/17 10:40	11/02/17 07:35
40159995062	B11 10.0-12.5	Solid	10/31/17 10:45	11/02/17 07:35
40159995063	B11 12.5-15.0	Solid	10/31/17 10:50	11/02/17 07:35
40159995064	B11 15.0-17.5	Solid	10/31/17 11:45	11/02/17 07:35
40159995065	B11 17.5-20.0	Solid	10/31/17 11:50	11/02/17 07:35
40159995066	B12 0-2.5	Solid	10/31/17 12:15	11/02/17 07:35
40159995067	B12 2.5-5.0	Solid	10/31/17 12:30	11/02/17 07:35
40159995068	B12 5.0-7.5	Solid	10/31/17 12:35	11/02/17 07:35
40159995069	B12 7.5-10.0	Solid	10/31/17 12:45	11/02/17 07:35
40159995070	B12 10.0-12.5	Solid	10/31/17 13:00	11/02/17 07:35
40159995071	B13 0-2.5	Solid	10/31/17 13:10	11/02/17 07:35
40159995072	B13 2.5-5.0	Solid	10/31/17 13:20	11/02/17 07:35
40159995073	B13 5.0-7.5	Solid	10/31/17 13:30	11/02/17 07:35
40159995074	B13 7.5-10.0	Solid	10/31/17 13:45	11/02/17 07:35

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40159995075	**B13 10.0-12.5**	Solid	10/31/17 13:50	11/02/17 07:35
40159995076	**B13 12.5-15.0**	Solid	10/31/17 13:55	11/02/17 07:35
40159995077	**B13 15.0-17.5**	Solid	10/31/17 14:00	11/02/17 07:35
40159995078	**B13 17.5-20.0**	Solid	10/31/17 14:05	11/02/17 07:35
40159995079	**B14 0-2.5**	Solid	10/30/17 15:00	11/02/17 07:35
40159995080	**B14 2.5-5.0**	Solid	10/30/17 15:10	11/02/17 07:35
40159995081	**B14 5.0-7.5**	Solid	10/30/17 15:20	11/02/17 07:35
40159995082	**B14 7.5-10.0**	Solid	10/30/17 15:30	11/02/17 07:35
40159995083	**B14 10.0-12.5**	Solid	10/30/17 15:40	11/02/17 07:35
40159995084	**B2 5.0-7.5**	Solid	10/30/17 12:40	11/02/17 07:35
40159995085	**B4 2.5-5.0**	Solid	10/30/17 14:52	11/02/17 07:35
40159995086	**B6 2.5-5.0**	Solid	10/30/17 16:23	11/02/17 07:35
40159995087	**B13 7.5-10**	Solid	10/31/17 13:48	11/02/17 07:35
40159995088	**B14 7.5-10**	Solid	10/30/17 15:30	11/02/17 07:35
40159995089	**B9 7.5-10.00**	Solid	10/30/17 00:00	11/02/17 07:35

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SAMPLE ANALYTE COUNT

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40159995001	**B3 2.5-5.0**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995002	**B6 5.0-7.5**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995003	**B10 2.5-5.0**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995004	**B12 5.0-7.5**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995005	**B13 7.5-10.0**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995006	**TRIP**	EPA 8260	SMT	64	PASI-G
40159995007	**B1 2.5-5.0**	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995008	**B6 5.0-7.5**	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995009	**B9 2.5-5.0**	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995010	**B11 5.0-7.5**	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995011	**B12 2.5-5.0**	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995012	**B1 0-2.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995013	**B1 2.5-5.0**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995014	**B1 5.0-7.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995015	**B1 7.5-10.0**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995016	**B2 0-2.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995017	**B2 2.5-5.0**	EPA 8270 by SIM	ARO	20	PASI-G

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SAMPLE ANALYTE COUNT

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	AH	1	PASI-G
40159995018	**B2 5.0-7.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995019	**B2 7.5-10.0**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995020	**B2 10-12.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995021	**B2 12.5-15.0**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995022	**B2 15.0-17.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995023	**B2 17.5-20.0**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995024	**B3 0-2.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995025	**B3 2.5-5.0**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995026	**B3 5.0-7.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995027	**B3 7.5-10.0**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995028	**B3 10-12.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995029	**B3 12.5-15.0**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995030	**B4 0-2.5**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995031	**B4 2.5-5.0**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995032	**B5 0-2.5**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995033	**B5 2.5-5.0**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995034	**B6 0-2.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995035	**B6 2.5-5.0**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40159995036	**B6 5.0-7.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995037	**B6 7.5-10.0**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995038	**B6 10-12.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995039	**B6 12.5-15.0**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995040	**B7 0-2.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995041	**B7 2.5-5.0**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995042	**B7 5.0-7.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995043	**B7 7.5-10.0**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995044	**B8 0-2.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995045	**B8 2.5-5.0**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995046	**B8 5.0-7.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995047	**B8 7.5-10.0**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995048	**B9 0-2.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995049	**B9 2.5-5.0**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995050	**B9 5.0-7.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995051	**B9 10-12.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995052	**B10 0-2.5**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995053	**B10 2.5-5.0**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995054	**B10 5.0-7.5**	EPA 8270C SIM	JLB	20	PASI-GRMI

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SAMPLE ANALYTE COUNT

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995055	**B10 7.5-10.0**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995056	**B10 10-12.5**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995057	**B10 12.5-15.0**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995058	**B11 0-2.5**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995059	**B11 2.5-5.0**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995060	**B11 5.0-7.5**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995061	**B11 7.5-10.0**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995062	**B11 10.0-12.5**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995063	**B11 12.5-15.0**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995064	**B11 15.0-17.5**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995065	**B11 17.5-20.0**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995066	**B12 0-2.5**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995067	**B12 2.5-5.0**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995068	**B12 5.0-7.5**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995069	**B12 7.5-10.0**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995070	**B12 10.0-12.5**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995071	**B13 0-2.5**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995072	**B13 2.5-5.0**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI

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SAMPLE ANALYTE COUNT

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40159995073	**B13 5.0-7.5**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995074	**B13 7.5-10.0**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995075	**B13 10.0-12.5**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995076	**B13 12.5-15.0**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995077	**B13 15.0-17.5**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995078	**B13 17.5-20.0**	EPA 8270C SIM	JLB	20	PASI-GRMI
		SM 2540 G-11/3550	NS1	1	PASI-GRMI
40159995079	**B14 0-2.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995080	**B14 2.5-5.0**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995081	**B14 5.0-7.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995082	**B14 7.5-10.0**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995083	**B14 10.0-12.5**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995084	**B2 5.0-7.5**	EPA 8082	BLM	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995085	**B4 2.5-5.0**	EPA 8082	BLM	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995086	**B6 2.5-5.0**	EPA 8082	BLM	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995087	**B13 7.5-10**	EPA 8082	BLM	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995088	**B14 7.5-10**	EPA 8082	BLM	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40159995089	**B9 7.5-10.00**	EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AH	1	PASI-G

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SUMMARY OF DETECTION

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40159995001	**B3 2.5-5.0**					
ASTM D2974-87	Percent Moisture	11.7	%	0.10	11/04/17 07:36	
40159995002	**B6 5.0-7.5**					
ASTM D2974-87	Percent Moisture	16.2	%	0.10	11/04/17 07:36	
40159995003	**B10 2.5-5.0**					
ASTM D2974-87	Percent Moisture	18.8	%	0.10	11/04/17 07:36	
40159995004	**B12 5.0-7.5**					
ASTM D2974-87	Percent Moisture	14.8	%	0.10	11/04/17 07:36	
40159995005	**B13 7.5-10.0**					
ASTM D2974-87	Percent Moisture	14.5	%	0.10	11/04/17 07:36	
40159995007	**B1 2.5-5.0**					
EPA 6010	Arsenic	4.1J	mg/kg	5.9	11/07/17 19:20	
EPA 6010	Barium	89.1	mg/kg	0.59	11/07/17 19:20	
EPA 6010	Chromium	31.6	mg/kg	1.2	11/07/17 19:20	
EPA 6010	Lead	21.1	mg/kg	1.5	11/07/17 19:20	M0
ASTM D2974-87	Percent Moisture	15.0	%	0.10	11/04/17 07:36	
40159995008	**B6 5.0-7.5**					
EPA 6010	Arsenic	3.8J	mg/kg	5.8	11/07/17 19:27	
EPA 6010	Barium	74.8	mg/kg	0.58	11/07/17 19:27	
EPA 6010	Chromium	26.7	mg/kg	1.2	11/07/17 19:27	
EPA 6010	Lead	7.5	mg/kg	1.5	11/07/17 19:27	
EPA 7471	Mercury	0.013J	mg/kg	0.043	11/08/17 10:11	
ASTM D2974-87	Percent Moisture	14.4	%	0.10	11/04/17 07:36	
40159995009	**B9 2.5-5.0**					
EPA 6010	Arsenic	6.2	mg/kg	5.4	11/07/17 19:29	
EPA 6010	Barium	108	mg/kg	0.54	11/07/17 19:29	
EPA 6010	Cadmium	0.32J	mg/kg	0.54	11/07/17 19:29	
EPA 6010	Chromium	25.0	mg/kg	1.1	11/07/17 19:29	
EPA 6010	Lead	108	mg/kg	1.4	11/07/17 19:29	
EPA 7471	Mercury	0.023J	mg/kg	0.040	11/08/17 10:14	
ASTM D2974-87	Percent Moisture	12.9	%	0.10	11/04/17 07:37	
40159995010	**B11 5.0-7.5**					
EPA 6010	Arsenic	4.4J	mg/kg	5.5	11/07/17 19:32	
EPA 6010	Barium	96.3	mg/kg	0.55	11/07/17 19:32	
EPA 6010	Cadmium	0.18J	mg/kg	0.55	11/07/17 19:32	
EPA 6010	Chromium	30.4	mg/kg	1.1	11/07/17 19:32	
EPA 6010	Lead	8.0	mg/kg	1.4	11/07/17 19:32	
ASTM D2974-87	Percent Moisture	16.0	%	0.10	11/04/17 07:37	
40159995011	**B12 2.5-5.0**					
EPA 6010	Arsenic	5.2J	mg/kg	5.5	11/07/17 19:34	
EPA 6010	Barium	86.4	mg/kg	0.55	11/07/17 19:34	
EPA 6010	Chromium	28.7	mg/kg	1.1	11/07/17 19:34	
EPA 6010	Lead	8.2	mg/kg	1.4	11/07/17 19:34	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40159995011	**B12 2.5-5.0**					
ASTM D2974-87	Percent Moisture	16.1	%	0.10	11/04/17 07:37	
40159995012	**B1 0-2.5**					
EPA 8270 by SIM	Acenaphthylene	4.6J	ug/kg	13.0	11/06/17 11:46	
EPA 8270 by SIM	Anthracene	14.7J	ug/kg	22.5	11/06/17 11:46	
EPA 8270 by SIM	Benzo(a)anthracene	68.6	ug/kg	12.6	11/06/17 11:46	
EPA 8270 by SIM	Benzo(a)pyrene	75.3	ug/kg	9.9	11/06/17 11:46	
EPA 8270 by SIM	Benzo(b)fluoranthene	61.7	ug/kg	11.2	11/06/17 11:46	
EPA 8270 by SIM	Benzo(g,h,i)perylene	50.2	ug/kg	8.0	11/06/17 11:46	
EPA 8270 by SIM	Benzo(k)fluoranthene	81.4	ug/kg	9.9	11/06/17 11:46	
EPA 8270 by SIM	Chrysene	86.5	ug/kg	13.3	11/06/17 11:46	
EPA 8270 by SIM	Dibenz(a,h)anthracene	16.3	ug/kg	8.8	11/06/17 11:46	
EPA 8270 by SIM	Fluoranthene	175	ug/kg	20.6	11/06/17 11:46	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	47.3	ug/kg	8.7	11/06/17 11:46	
EPA 8270 by SIM	1-Methylnaphthalene	86.6	ug/kg	15.9	11/06/17 11:46	
EPA 8270 by SIM	2-Methylnaphthalene	106	ug/kg	19.8	11/06/17 11:46	
EPA 8270 by SIM	Naphthalene	92.7	ug/kg	33.3	11/06/17 11:46	
EPA 8270 by SIM	Phenanthrene	99.4	ug/kg	46.0	11/06/17 11:46	
EPA 8270 by SIM	Pyrene	150	ug/kg	17.8	11/06/17 11:46	
ASTM D2974-87	Percent Moisture	15.6	%	0.10	11/04/17 07:37	
40159995013	**B1 2.5-5.0**					
EPA 8270 by SIM	Anthracene	9.3J	ug/kg	22.8	11/03/17 14:47	
EPA 8270 by SIM	Benzo(a)anthracene	24.2	ug/kg	12.7	11/03/17 14:47	
EPA 8270 by SIM	Benzo(a)pyrene	21.1	ug/kg	10.0	11/03/17 14:47	
EPA 8270 by SIM	Benzo(b)fluoranthene	22.1	ug/kg	11.3	11/03/17 14:47	
EPA 8270 by SIM	Benzo(g,h,i)perylene	8.4	ug/kg	8.1	11/03/17 14:47	
EPA 8270 by SIM	Benzo(k)fluoranthene	20.2	ug/kg	10.0	11/03/17 14:47	
EPA 8270 by SIM	Chrysene	25.1	ug/kg	13.4	11/03/17 14:47	
EPA 8270 by SIM	Dibenz(a,h)anthracene	3.1J	ug/kg	8.9	11/03/17 14:47	
EPA 8270 by SIM	Fluoranthene	65.4	ug/kg	20.9	11/03/17 14:47	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	8.7J	ug/kg	8.8	11/03/17 14:47	
EPA 8270 by SIM	Phenanthrene	39.7J	ug/kg	46.5	11/03/17 14:47	
EPA 8270 by SIM	Pyrene	49.7	ug/kg	18.0	11/03/17 14:47	
ASTM D2974-87	Percent Moisture	16.6	%	0.10	11/04/17 07:37	
40159995014	**B1 5.0-7.5**					
ASTM D2974-87	Percent Moisture	14.8	%	0.10	11/04/17 07:37	
40159995015	**B1 7.5-10.0**					
ASTM D2974-87	Percent Moisture	15.8	%	0.10	11/04/17 07:37	
40159995016	**B2 0-2.5**					
ASTM D2974-87	Percent Moisture	14.3	%	0.10	11/04/17 13:36	
40159995017	**B2 2.5-5.0**					
ASTM D2974-87	Percent Moisture	17.1	%	0.10	11/04/17 13:37	
40159995018	**B2 5.0-7.5**					
EPA 8270 by SIM	Anthracene	6.9J	ug/kg	22.2	11/03/17 16:14	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40159995018	**B2 5.0-7.5**					
EPA 8270 by SIM	Benzo(a)anthracene	19.7	ug/kg	12.4	11/03/17 16:14	
EPA 8270 by SIM	Benzo(a)pyrene	17.1	ug/kg	9.8	11/03/17 16:14	
EPA 8270 by SIM	Benzo(b)fluoranthene	17.1	ug/kg	11.0	11/03/17 16:14	
EPA 8270 by SIM	Benzo(g,h,i)perylene	5.1J	ug/kg	7.9	11/03/17 16:14	
EPA 8270 by SIM	Benzo(k)fluoranthene	16.9	ug/kg	9.7	11/03/17 16:14	
EPA 8270 by SIM	Chrysene	22.1	ug/kg	13.1	11/03/17 16:14	
EPA 8270 by SIM	Fluoranthene	45.1	ug/kg	20.3	11/03/17 16:14	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	5.4J	ug/kg	8.5	11/03/17 16:14	
EPA 8270 by SIM	Phenanthrene	23.2J	ug/kg	45.2	11/03/17 16:14	
EPA 8270 by SIM	Pyrene	35.9	ug/kg	17.5	11/03/17 16:14	
ASTM D2974-87	Percent Moisture	14.3	%	0.10	11/04/17 13:37	
40159995019	**B2 7.5-10.0**					
ASTM D2974-87	Percent Moisture	13.0	%	0.10	11/04/17 13:37	
40159995020	**B2 10-12.5**					
EPA 8270 by SIM	Benzo(a)anthracene	4.8J	ug/kg	13.6	11/06/17 17:41	
ASTM D2974-87	Percent Moisture	22.1	%	0.10	11/04/17 13:37	
40159995021	**B2 12.5-15.0**					
EPA 8270 by SIM	Anthracene	10.8J	ug/kg	24.5	11/06/17 18:50	
EPA 8270 by SIM	Benzo(a)anthracene	23.7	ug/kg	13.7	11/06/17 18:50	
EPA 8270 by SIM	Benzo(a)pyrene	13.8	ug/kg	10.8	11/06/17 18:50	
EPA 8270 by SIM	Benzo(b)fluoranthene	18.4	ug/kg	12.2	11/06/17 18:50	
EPA 8270 by SIM	Benzo(g,h,i)perylene	5.0J	ug/kg	8.7	11/06/17 18:50	
EPA 8270 by SIM	Benzo(k)fluoranthene	8.4J	ug/kg	10.8	11/06/17 18:50	
EPA 8270 by SIM	Chrysene	19.1	ug/kg	14.5	11/06/17 18:50	
EPA 8270 by SIM	Fluoranthene	54.1	ug/kg	22.5	11/06/17 18:50	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	5.4J	ug/kg	9.5	11/06/17 18:50	
EPA 8270 by SIM	Phenanthrene	37.6J	ug/kg	50.1	11/06/17 18:50	
EPA 8270 by SIM	Pyrene	37.3	ug/kg	19.4	11/06/17 18:50	
ASTM D2974-87	Percent Moisture	22.5	%	0.10	11/06/17 13:47	
40159995022	**B2 15.0-17.5**					
EPA 8270 by SIM	Benzo(a)pyrene	3.1J	ug/kg	10.0	11/06/17 19:07	
EPA 8270 by SIM	Benzo(b)fluoranthene	3.8J	ug/kg	11.3	11/06/17 19:07	
EPA 8270 by SIM	Fluoranthene	8.2J	ug/kg	20.8	11/06/17 19:07	
EPA 8270 by SIM	Pyrene	7.2J	ug/kg	17.9	11/06/17 19:07	
ASTM D2974-87	Percent Moisture	16.5	%	0.10	11/06/17 13:47	
40159995023	**B2 17.5-20.0**					
ASTM D2974-87	Percent Moisture	24.2	%	0.10	11/06/17 13:47	
40159995024	**B3 0-2.5**					
EPA 8270 by SIM	Acenaphthene	89.0J	ug/kg	158	11/07/17 13:48	
EPA 8270 by SIM	Acenaphthylene	86.7J	ug/kg	135	11/07/17 13:48	
EPA 8270 by SIM	Anthracene	360	ug/kg	233	11/07/17 13:48	
EPA 8270 by SIM	Benzo(a)anthracene	1270	ug/kg	130	11/07/17 13:48	
EPA 8270 by SIM	Benzo(a)pyrene	1240	ug/kg	103	11/07/17 13:48	
EPA 8270 by SIM	Benzo(b)fluoranthene	1090	ug/kg	116	11/07/17 13:48	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40159995024	**B3 0-2.5**					
EPA 8270 by SIM	Benzo(g,h,i)perylene	744	ug/kg	83.1	11/07/17 13:48	
EPA 8270 by SIM	Benzo(k)fluoranthene	1240	ug/kg	103	11/07/17 13:48	
EPA 8270 by SIM	Chrysene	1530	ug/kg	138	11/07/17 13:48	
EPA 8270 by SIM	Dibenz(a,h)anthracene	240	ug/kg	91.5	11/07/17 13:48	
EPA 8270 by SIM	Fluoranthene	3200	ug/kg	214	11/07/17 13:48	
EPA 8270 by SIM	Fluorene	196	ug/kg	169	11/07/17 13:48	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	720	ug/kg	90.0	11/07/17 13:48	
EPA 8270 by SIM	1-Methylnaphthalene	179	ug/kg	165	11/07/17 13:48	
EPA 8270 by SIM	2-Methylnaphthalene	232	ug/kg	205	11/07/17 13:48	
EPA 8270 by SIM	Naphthalene	135J	ug/kg	345	11/07/17 13:48	
EPA 8270 by SIM	Phenanthrene	1560	ug/kg	477	11/07/17 13:48	
EPA 8270 by SIM	Pyrene	2600	ug/kg	184	11/07/17 13:48	
ASTM D2974-87	Percent Moisture	18.6	%	0.10	11/06/17 13:47	
40159995025	**B3 2.5-5.0**					
EPA 8270 by SIM	Acenaphthylene	145	ug/kg	137	11/07/17 16:33	
EPA 8270 by SIM	Anthracene	324	ug/kg	237	11/07/17 16:33	
EPA 8270 by SIM	Benzo(a)anthracene	1320	ug/kg	132	11/07/17 16:33	
EPA 8270 by SIM	Benzo(a)pyrene	1210	ug/kg	104	11/07/17 16:33	
EPA 8270 by SIM	Benzo(b)fluoranthene	1520	ug/kg	117	11/07/17 16:33	
EPA 8270 by SIM	Benzo(g,h,i)perylene	577	ug/kg	84.5	11/07/17 16:33	
EPA 8270 by SIM	Benzo(k)fluoranthene	689	ug/kg	104	11/07/17 16:33	
EPA 8270 by SIM	Chrysene	1250	ug/kg	140	11/07/17 16:33	
EPA 8270 by SIM	Dibenz(a,h)anthracene	177	ug/kg	92.9	11/07/17 16:33	
EPA 8270 by SIM	Fluoranthene	2540	ug/kg	217	11/07/17 16:33	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	586	ug/kg	91.5	11/07/17 16:33	
EPA 8270 by SIM	Phenanthrene	759	ug/kg	484	11/07/17 16:33	
EPA 8270 by SIM	Pyrene	2300	ug/kg	187	11/07/17 16:33	
ASTM D2974-87	Percent Moisture	19.9	%	0.10	11/06/17 13:47	
40159995026	**B3 5.0-7.5**					
EPA 8270 by SIM	Benzo(a)anthracene	3.8J	ug/kg	12.4	11/06/17 19:41	
EPA 8270 by SIM	Benzo(a)pyrene	4.0J	ug/kg	9.8	11/06/17 19:41	
EPA 8270 by SIM	Benzo(b)fluoranthene	5.3J	ug/kg	11.0	11/06/17 19:41	
EPA 8270 by SIM	Chrysene	4.7J	ug/kg	13.1	11/06/17 19:41	
EPA 8270 by SIM	Fluoranthene	10.3J	ug/kg	20.4	11/06/17 19:41	
EPA 8270 by SIM	Pyrene	7.9J	ug/kg	17.6	11/06/17 19:41	
ASTM D2974-87	Percent Moisture	14.9	%	0.10	11/06/17 13:48	
40159995027	**B3 7.5-10.0**					
ASTM D2974-87	Percent Moisture	15.1	%	0.10	11/06/17 13:48	
40159995028	**B3 10-12.5**					
ASTM D2974-87	Percent Moisture	13.8	%	0.10	11/06/17 13:48	
40159995029	**B3 12.5-15.0**					
EPA 8270 by SIM	Benzo(b)fluoranthene	3.6J	ug/kg	11.0	11/07/17 17:24	
ASTM D2974-87	Percent Moisture	14.5	%	0.10	11/06/17 13:48	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40159995030	**B4 0-2.5**					
EPA 8270C SIM	Acenaphthene	10.1J	ug/kg	22.3	11/07/17 02:11	M6
EPA 8270C SIM	Acenaphthylene	9.1J	ug/kg	22.3	11/07/17 02:11	
EPA 8270C SIM	Anthracene	72.8	ug/kg	22.3	11/07/17 02:11	M6
EPA 8270C SIM	Benzo(a)anthracene	346	ug/kg	89.0	11/07/17 17:19	M6
EPA 8270C SIM	Benzo(a)pyrene	326	ug/kg	89.0	11/07/17 17:19	M6
EPA 8270C SIM	Benzo(b)fluoranthene	282	ug/kg	27.8	11/07/17 02:11	M6
EPA 8270C SIM	Benzo(g,h,i)perylene	206	ug/kg	27.8	11/07/17 02:11	M6
EPA 8270C SIM	Benzo(k)fluoranthene	280	ug/kg	27.8	11/07/17 02:11	M6
EPA 8270C SIM	Chrysene	350	ug/kg	111	11/07/17 17:19	M6
EPA 8270C SIM	Dibenz(a,h)anthracene	66.4	ug/kg	27.8	11/07/17 02:11	M6
EPA 8270C SIM	Fluoranthene	669	ug/kg	89.0	11/07/17 17:19	M6
EPA 8270C SIM	Fluorene	11.2J	ug/kg	22.3	11/07/17 02:11	M6
EPA 8270C SIM	Indeno(1,2,3-cd)pyrene	194	ug/kg	22.3	11/07/17 02:11	M6
EPA 8270C SIM	1-Methylnaphthalene	8.6J	ug/kg	22.3	11/07/17 02:11	M6,N2
EPA 8270C SIM	2-Methylnaphthalene	8.5J	ug/kg	22.3	11/07/17 02:11	
EPA 8270C SIM	Naphthalene	18.9J	ug/kg	22.3	11/07/17 02:11	B,ED
EPA 8270C SIM	Phenanthrene	281	ug/kg	22.3	11/07/17 02:11	M6
EPA 8270C SIM	Pyrene	619	ug/kg	89.0	11/07/17 17:19	M6
SM 2540 G-11/3550	Percent Moisture	10.1	%	0.10	11/06/17 14:35	
40159995031	**B4 2.5-5.0**					
EPA 8270C SIM	Acenaphthene	16.6J	ug/kg	23.7	11/07/17 02:43	
EPA 8270C SIM	Acenaphthylene	7.7J	ug/kg	23.7	11/07/17 02:43	
EPA 8270C SIM	Anthracene	113	ug/kg	23.7	11/07/17 02:43	
EPA 8270C SIM	Benzo(a)anthracene	618	ug/kg	119	11/07/17 17:51	
EPA 8270C SIM	Benzo(a)pyrene	497	ug/kg	119	11/07/17 17:51	
EPA 8270C SIM	Benzo(b)fluoranthene	495	ug/kg	148	11/07/17 17:51	
EPA 8270C SIM	Benzo(g,h,i)perylene	324	ug/kg	148	11/07/17 17:51	
EPA 8270C SIM	Benzo(k)fluoranthene	488	ug/kg	148	11/07/17 17:51	
EPA 8270C SIM	Chrysene	638	ug/kg	148	11/07/17 17:51	
EPA 8270C SIM	Dibenz(a,h)anthracene	105	ug/kg	29.7	11/07/17 02:43	
EPA 8270C SIM	Fluoranthene	1330	ug/kg	119	11/07/17 17:51	
EPA 8270C SIM	Fluorene	20.2J	ug/kg	23.7	11/07/17 02:43	
EPA 8270C SIM	Indeno(1,2,3-cd)pyrene	302	ug/kg	23.7	11/07/17 02:43	
EPA 8270C SIM	1-Methylnaphthalene	13.3J	ug/kg	23.7	11/07/17 02:43	N2
EPA 8270C SIM	2-Methylnaphthalene	10.1J	ug/kg	23.7	11/07/17 02:43	
EPA 8270C SIM	Naphthalene	15.3J	ug/kg	23.7	11/07/17 02:43	B,ED
EPA 8270C SIM	Phenanthrene	374	ug/kg	119	11/07/17 17:51	
EPA 8270C SIM	Pyrene	1120	ug/kg	119	11/07/17 17:51	
SM 2540 G-11/3550	Percent Moisture	12.5	%	0.10	11/06/17 14:40	
40159995032	**B5 0-2.5**					
EPA 8270C SIM	Acenaphthene	14.9	ug/kg	11.8	11/07/17 22:41	
EPA 8270C SIM	Acenaphthylene	3.4J	ug/kg	11.8	11/07/17 22:41	
EPA 8270C SIM	Anthracene	62.5	ug/kg	11.8	11/07/17 22:41	
EPA 8270C SIM	Benzo(a)anthracene	172	ug/kg	47.2	11/07/17 19:27	
EPA 8270C SIM	Benzo(a)pyrene	152	ug/kg	47.2	11/07/17 19:27	
EPA 8270C SIM	Benzo(b)fluoranthene	156	ug/kg	14.8	11/07/17 22:41	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40159995032	**B5 0-2.5**					
EPA 8270C SIM	Benzo(g,h,i)perylene	117	ug/kg	14.8	11/07/17 22:41	
EPA 8270C SIM	Benzo(k)fluoranthene	143	ug/kg	14.8	11/07/17 22:41	
EPA 8270C SIM	Chrysene	172	ug/kg	59.1	11/07/17 19:27	
EPA 8270C SIM	Dibenz(a,h)anthracene	39.5	ug/kg	14.8	11/07/17 22:41	
EPA 8270C SIM	Fluoranthene	349	ug/kg	47.2	11/07/17 19:27	
EPA 8270C SIM	Fluorene	14.2	ug/kg	11.8	11/07/17 22:41	
EPA 8270C SIM	Indeno(1,2,3-cd)pyrene	106	ug/kg	11.8	11/07/17 22:41	
EPA 8270C SIM	1-Methylnaphthalene	5.4J	ug/kg	11.8	11/07/17 22:41	N2
EPA 8270C SIM	2-Methylnaphthalene	4.1J	ug/kg	11.8	11/07/17 22:41	
EPA 8270C SIM	Naphthalene	9.7J	ug/kg	11.8	11/07/17 22:41	B,ED
EPA 8270C SIM	Phenanthrene	168	ug/kg	47.2	11/07/17 19:27	
EPA 8270C SIM	Pyrene	317	ug/kg	47.2	11/07/17 19:27	
SM 2540 G-11/3550	Percent Moisture	15.1	%	0.10	11/06/17 14:42	
40159995033	**B5 2.5-5.0**					
EPA 8270C SIM	Acenaphthene	12.9J	ug/kg	24.6	11/07/17 03:15	
EPA 8270C SIM	Acenaphthylene	6.5J	ug/kg	24.6	11/07/17 03:15	
EPA 8270C SIM	Anthracene	69.0	ug/kg	24.6	11/07/17 03:15	
EPA 8270C SIM	Benzo(a)anthracene	356	ug/kg	98.3	11/07/17 16:47	
EPA 8270C SIM	Benzo(a)pyrene	358	ug/kg	98.3	11/07/17 16:47	
EPA 8270C SIM	Benzo(b)fluoranthene	314	ug/kg	123	11/07/17 16:47	
EPA 8270C SIM	Benzo(g,h,i)perylene	258	ug/kg	30.7	11/07/17 03:15	
EPA 8270C SIM	Benzo(k)fluoranthene	315	ug/kg	123	11/07/17 16:47	
EPA 8270C SIM	Chrysene	395	ug/kg	123	11/07/17 16:47	
EPA 8270C SIM	Dibenz(a,h)anthracene	81.9	ug/kg	30.7	11/07/17 03:15	
EPA 8270C SIM	Fluoranthene	801	ug/kg	98.3	11/07/17 16:47	
EPA 8270C SIM	Fluorene	13.9J	ug/kg	24.6	11/07/17 03:15	
EPA 8270C SIM	Indeno(1,2,3-cd)pyrene	232	ug/kg	24.6	11/07/17 03:15	
EPA 8270C SIM	1-Methylnaphthalene	9.9J	ug/kg	24.6	11/07/17 03:15	N2
EPA 8270C SIM	2-Methylnaphthalene	6.6J	ug/kg	24.6	11/07/17 03:15	
EPA 8270C SIM	Naphthalene	14.9J	ug/kg	24.6	11/07/17 03:15	B,ED
EPA 8270C SIM	Phenanthrene	292	ug/kg	24.6	11/07/17 03:15	
EPA 8270C SIM	Pyrene	692	ug/kg	98.3	11/07/17 16:47	
SM 2540 G-11/3550	Percent Moisture	16.8	%	0.10	11/06/17 14:43	
40159995034	**B6 0-2.5**					
ASTM D2974-87	Percent Moisture	14.9	%	0.10	11/06/17 13:48	
40159995035	**B6 2.5-5.0**					
ASTM D2974-87	Percent Moisture	15.1	%	0.10	11/06/17 13:48	
40159995036	**B6 5.0-7.5**					
ASTM D2974-87	Percent Moisture	15.0	%	0.10	11/06/17 13:48	
40159995037	**B6 7.5-10.0**					
ASTM D2974-87	Percent Moisture	18.3	%	0.10	11/06/17 13:48	
40159995038	**B6 10-12.5**					
EPA 8270 by SIM	Benzo(a)anthracene	0.0099J	mg/kg	0.012	11/07/17 19:07	
EPA 8270 by SIM	Benzo(a)pyrene	0.0078J	mg/kg	0.0098	11/07/17 19:07	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40159995038	**B6 10-12.5**					
EPA 8270 by SIM	Benzo(b)fluoranthene	0.011J	mg/kg	0.011	11/07/17 19:07	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.0040J	mg/kg	0.0079	11/07/17 19:07	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.0050J	mg/kg	0.0098	11/07/17 19:07	
EPA 8270 by SIM	Chrysene	0.0075J	mg/kg	0.013	11/07/17 19:07	
EPA 8270 by SIM	Fluoranthene	0.014J	mg/kg	0.020	11/07/17 19:07	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.0038J	mg/kg	0.0086	11/07/17 19:07	
EPA 8270 by SIM	Pyrene	0.012J	mg/kg	0.018	11/07/17 19:07	
ASTM D2974-87	Percent Moisture	14.8	%	0.10	11/06/17 13:48	
40159995039	**B6 12.5-15.0**					
ASTM D2974-87	Percent Moisture	14.8	%	0.10	11/06/17 13:49	
40159995040	**B7 0-2.5**					
EPA 8270 by SIM	Benzo(a)anthracene	0.026	mg/kg	0.012	11/07/17 18:33	
EPA 8270 by SIM	Benzo(a)pyrene	0.026	mg/kg	0.0098	11/07/17 18:33	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.034	mg/kg	0.011	11/07/17 18:33	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.0095	mg/kg	0.0079	11/07/17 18:33	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.014	mg/kg	0.0098	11/07/17 18:33	
EPA 8270 by SIM	Chrysene	0.029	mg/kg	0.013	11/07/17 18:33	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.0034J	mg/kg	0.0087	11/07/17 18:33	
EPA 8270 by SIM	Fluoranthene	0.049	mg/kg	0.020	11/07/17 18:33	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.011	mg/kg	0.0086	11/07/17 18:33	
EPA 8270 by SIM	Phenanthrene	0.019J	mg/kg	0.046	11/07/17 18:33	
EPA 8270 by SIM	Pyrene	0.045	mg/kg	0.018	11/07/17 18:33	
ASTM D2974-87	Percent Moisture	14.7	%	0.10	11/06/17 13:49	
40159995041	**B7 2.5-5.0**					
ASTM D2974-87	Percent Moisture	21.2	%	0.10	11/06/17 13:49	
40159995042	**B7 5.0-7.5**					
ASTM D2974-87	Percent Moisture	16.3	%	0.10	11/06/17 13:49	
40159995043	**B7 7.5-10.0**					
ASTM D2974-87	Percent Moisture	21.4	%	0.10	11/06/17 10:21	
40159995044	**B8 0-2.5**					
EPA 8270 by SIM	Acenaphthene	0.0075J	mg/kg	0.016	11/08/17 11:14	
EPA 8270 by SIM	Anthracene	0.031	mg/kg	0.023	11/08/17 11:14	
EPA 8270 by SIM	Benzo(a)anthracene	0.11	mg/kg	0.013	11/08/17 11:14	
EPA 8270 by SIM	Benzo(a)pyrene	0.12	mg/kg	0.010	11/08/17 11:14	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.13	mg/kg	0.011	11/08/17 11:14	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.082	mg/kg	0.0083	11/08/17 11:14	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.098	mg/kg	0.010	11/08/17 11:14	
EPA 8270 by SIM	Chrysene	0.13	mg/kg	0.014	11/08/17 11:14	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.026	mg/kg	0.0091	11/08/17 11:14	
EPA 8270 by SIM	Fluoranthene	0.31	mg/kg	0.021	11/08/17 11:14	
EPA 8270 by SIM	Fluorene	0.0084J	mg/kg	0.017	11/08/17 11:14	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.075	mg/kg	0.0090	11/08/17 11:14	
EPA 8270 by SIM	Phenanthrene	0.15	mg/kg	0.047	11/08/17 11:14	
EPA 8270 by SIM	Pyrene	0.24	mg/kg	0.018	11/08/17 11:14	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40159995044	**B8 0-2.5**					
ASTM D2974-87	Percent Moisture	18.1	%	0.10	11/06/17 10:21	
40159995045	**B8 2.5-5.0**					
EPA 8270 by SIM	Acenaphthene	0.31J	mg/kg	0.32	11/08/17 10:39	
EPA 8270 by SIM	Anthracene	1.1	mg/kg	0.47	11/08/17 10:39	
EPA 8270 by SIM	Benzo(a)anthracene	3.0	mg/kg	0.26	11/08/17 10:39	
EPA 8270 by SIM	Benzo(a)pyrene	2.7	mg/kg	0.21	11/08/17 10:39	
EPA 8270 by SIM	Benzo(b)fluoranthene	2.9	mg/kg	0.23	11/08/17 10:39	
EPA 8270 by SIM	Benzo(g,h,i)perylene	1.9	mg/kg	0.17	11/08/17 10:39	
EPA 8270 by SIM	Benzo(k)fluoranthene	2.5	mg/kg	0.21	11/08/17 10:39	
EPA 8270 by SIM	Chrysene	3.6	mg/kg	0.28	11/08/17 10:39	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.64	mg/kg	0.19	11/08/17 10:39	
EPA 8270 by SIM	Fluoranthene	9.3	mg/kg	0.43	11/08/17 10:39	
EPA 8270 by SIM	Fluorene	0.30J	mg/kg	0.34	11/08/17 10:39	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	1.7	mg/kg	0.18	11/08/17 10:39	
EPA 8270 by SIM	Phenanthrene	5.2	mg/kg	0.97	11/08/17 10:39	
EPA 8270 by SIM	Pyrene	6.9	mg/kg	0.37	11/08/17 10:39	
ASTM D2974-87	Percent Moisture	19.6	%	0.10	11/06/17 10:21	
40159995046	**B8 5.0-7.5**					
ASTM D2974-87	Percent Moisture	25.6	%	0.10	11/06/17 10:22	
40159995047	**B8 7.5-10.0**					
ASTM D2974-87	Percent Moisture	21.5	%	0.10	11/06/17 10:22	
40159995048	**B9 0-2.5**					
EPA 8270 by SIM	Acenaphthene	0.016J	mg/kg	0.029	11/08/17 11:48	
EPA 8270 by SIM	Acenaphthylene	0.020J	mg/kg	0.025	11/08/17 11:48	
EPA 8270 by SIM	Anthracene	0.083	mg/kg	0.043	11/08/17 11:48	
EPA 8270 by SIM	Benzo(a)anthracene	0.35	mg/kg	0.024	11/08/17 11:48	
EPA 8270 by SIM	Benzo(a)pyrene	0.38	mg/kg	0.019	11/08/17 11:48	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.36	mg/kg	0.021	11/08/17 11:48	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.29	mg/kg	0.015	11/08/17 11:48	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.34	mg/kg	0.019	11/08/17 11:48	
EPA 8270 by SIM	Chrysene	0.46	mg/kg	0.025	11/08/17 11:48	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.098	mg/kg	0.017	11/08/17 11:48	
EPA 8270 by SIM	Fluoranthene	0.93	mg/kg	0.040	11/08/17 11:48	
EPA 8270 by SIM	Fluorene	0.019J	mg/kg	0.031	11/08/17 11:48	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.25	mg/kg	0.017	11/08/17 11:48	
EPA 8270 by SIM	Phenanthrene	0.47	mg/kg	0.088	11/08/17 11:48	
EPA 8270 by SIM	Pyrene	0.88	mg/kg	0.034	11/08/17 11:48	
ASTM D2974-87	Percent Moisture	12.0	%	0.10	11/06/17 10:22	
40159995049	**B9 2.5-5.0**					
EPA 8270 by SIM	Acenaphthene	0.092J	mg/kg	0.12	11/08/17 10:22	
EPA 8270 by SIM	Anthracene	0.34	mg/kg	0.18	11/08/17 10:22	
EPA 8270 by SIM	Benzo(a)anthracene	1.0	mg/kg	0.10	11/08/17 10:22	
EPA 8270 by SIM	Benzo(a)pyrene	0.99	mg/kg	0.079	11/08/17 10:22	
EPA 8270 by SIM	Benzo(b)fluoranthene	1.0	mg/kg	0.088	11/08/17 10:22	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40159995049	**B9 2.5-5.0**					
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.70	mg/kg	0.064	11/08/17 10:22	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.84	mg/kg	0.079	11/08/17 10:22	
EPA 8270 by SIM	Chrysene	1.2	mg/kg	0.11	11/08/17 10:22	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.23	mg/kg	0.070	11/08/17 10:22	
EPA 8270 by SIM	Fluoranthene	2.9	mg/kg	0.16	11/08/17 10:22	
EPA 8270 by SIM	Fluorene	0.096J	mg/kg	0.13	11/08/17 10:22	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.62	mg/kg	0.069	11/08/17 10:22	
EPA 8270 by SIM	Phenanthrene	1.5	mg/kg	0.36	11/08/17 10:22	
EPA 8270 by SIM	Pyrene	2.2	mg/kg	0.14	11/08/17 10:22	
ASTM D2974-87	Percent Moisture	15.0	%	0.10	11/06/17 10:22	
40159995050	**B9 5.0-7.5**					
EPA 8270 by SIM	Acenaphthene	0.099	mg/kg	0.076	11/08/17 09:47	
EPA 8270 by SIM	Anthracene	0.30	mg/kg	0.11	11/08/17 09:47	
EPA 8270 by SIM	Benzo(a)anthracene	0.54	mg/kg	0.062	11/08/17 09:47	
EPA 8270 by SIM	Benzo(a)pyrene	0.52	mg/kg	0.049	11/08/17 09:47	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.47	mg/kg	0.055	11/08/17 09:47	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.36	mg/kg	0.040	11/08/17 09:47	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.54	mg/kg	0.049	11/08/17 09:47	
EPA 8270 by SIM	Chrysene	0.62	mg/kg	0.066	11/08/17 09:47	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.12	mg/kg	0.044	11/08/17 09:47	
EPA 8270 by SIM	Fluoranthene	1.8	mg/kg	0.10	11/08/17 09:47	
EPA 8270 by SIM	Fluorene	0.11	mg/kg	0.081	11/08/17 09:47	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.33	mg/kg	0.043	11/08/17 09:47	
EPA 8270 by SIM	Naphthalene	0.050J	mg/kg	0.17	11/08/17 09:47	
EPA 8270 by SIM	Phenanthrene	1.3	mg/kg	0.23	11/08/17 09:47	
EPA 8270 by SIM	Pyrene	1.2	mg/kg	0.088	11/08/17 09:47	
ASTM D2974-87	Percent Moisture	15.1	%	0.10	11/06/17 10:22	
40159995051	**B9 10-12.5**					
EPA 8270 by SIM	Acenaphthene	0.0054J	mg/kg	0.016	11/08/17 11:31	
EPA 8270 by SIM	Anthracene	0.015J	mg/kg	0.023	11/08/17 11:31	
EPA 8270 by SIM	Benzo(a)anthracene	0.043	mg/kg	0.013	11/08/17 11:31	
EPA 8270 by SIM	Benzo(a)pyrene	0.044	mg/kg	0.010	11/08/17 11:31	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.047	mg/kg	0.012	11/08/17 11:31	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.037	mg/kg	0.0083	11/08/17 11:31	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.040	mg/kg	0.010	11/08/17 11:31	
EPA 8270 by SIM	Chrysene	0.053	mg/kg	0.014	11/08/17 11:31	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.011	mg/kg	0.0091	11/08/17 11:31	
EPA 8270 by SIM	Fluoranthene	0.13	mg/kg	0.021	11/08/17 11:31	
EPA 8270 by SIM	Fluorene	0.0066J	mg/kg	0.017	11/08/17 11:31	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.031	mg/kg	0.0090	11/08/17 11:31	
EPA 8270 by SIM	Naphthalene	0.014J	mg/kg	0.034	11/08/17 11:31	
EPA 8270 by SIM	Phenanthrene	0.077	mg/kg	0.047	11/08/17 11:31	
EPA 8270 by SIM	Pyrene	0.095	mg/kg	0.018	11/08/17 11:31	
ASTM D2974-87	Percent Moisture	18.2	%	0.10	11/06/17 10:22	
40159995052	**B10 0-2.5**					
EPA 8270C SIM	Acenaphthene	22.9	ug/kg	5.0	11/07/17 23:13	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40159995052	**B10 0-2.5**					
EPA 8270C SIM	Acenaphthylene	0.94J	ug/kg	5.0	11/07/17 23:13	
EPA 8270C SIM	Anthracene	74.5	ug/kg	49.7	11/07/17 19:59	
EPA 8270C SIM	Benzo(a)anthracene	138	ug/kg	49.7	11/07/17 19:59	
EPA 8270C SIM	Benzo(a)pyrene	97.1	ug/kg	49.7	11/07/17 19:59	
EPA 8270C SIM	Benzo(b)fluoranthene	101	ug/kg	62.1	11/07/17 19:59	
EPA 8270C SIM	Benzo(g,h,i)perylene	65.1	ug/kg	6.2	11/07/17 23:13	
EPA 8270C SIM	Benzo(k)fluoranthene	107	ug/kg	62.1	11/07/17 19:59	
EPA 8270C SIM	Chrysene	135	ug/kg	62.1	11/07/17 19:59	
EPA 8270C SIM	Dibenz(a,h)anthracene	21.1	ug/kg	6.2	11/07/17 23:13	
EPA 8270C SIM	Fluoranthene	328	ug/kg	49.7	11/07/17 19:59	
EPA 8270C SIM	Fluorene	26.5	ug/kg	5.0	11/07/17 23:13	
EPA 8270C SIM	Indeno(1,2,3-cd)pyrene	60.8	ug/kg	5.0	11/07/17 23:13	
EPA 8270C SIM	1-Methylnaphthalene	9.3	ug/kg	5.0	11/07/17 23:13	N2
EPA 8270C SIM	2-Methylnaphthalene	11.7	ug/kg	5.0	11/07/17 23:13	
EPA 8270C SIM	Naphthalene	22.3	ug/kg	5.0	11/07/17 23:13	ED
EPA 8270C SIM	Phenanthrene	295	ug/kg	49.7	11/07/17 19:59	
EPA 8270C SIM	Pyrene	297	ug/kg	49.7	11/07/17 19:59	
SM 2540 G-11/3550	Percent Moisture	16.8	%	0.10	11/06/17 14:44	
40159995053	**B10 2.5-5.0**					
EPA 8270C SIM	Acenaphthene	29.1	ug/kg	23.8	11/07/17 23:45	
EPA 8270C SIM	Anthracene	106	ug/kg	23.8	11/07/17 23:45	
EPA 8270C SIM	Benzo(a)anthracene	242	ug/kg	23.8	11/07/17 23:45	
EPA 8270C SIM	Benzo(a)pyrene	199	ug/kg	23.8	11/07/17 23:45	
EPA 8270C SIM	Benzo(b)fluoranthene	193	ug/kg	29.8	11/07/17 23:45	
EPA 8270C SIM	Benzo(g,h,i)perylene	131	ug/kg	29.8	11/07/17 23:45	
EPA 8270C SIM	Benzo(k)fluoranthene	185	ug/kg	29.8	11/07/17 23:45	
EPA 8270C SIM	Chrysene	229	ug/kg	29.8	11/07/17 23:45	
EPA 8270C SIM	Dibenz(a,h)anthracene	45.1	ug/kg	29.8	11/07/17 23:45	
EPA 8270C SIM	Fluoranthene	602	ug/kg	95.3	11/07/17 20:31	
EPA 8270C SIM	Fluorene	40.1	ug/kg	23.8	11/07/17 23:45	
EPA 8270C SIM	Indeno(1,2,3-cd)pyrene	120	ug/kg	23.8	11/07/17 23:45	
EPA 8270C SIM	1-Methylnaphthalene	8.4J	ug/kg	23.8	11/07/17 23:45	N2
EPA 8270C SIM	2-Methylnaphthalene	5.7J	ug/kg	23.8	11/07/17 23:45	
EPA 8270C SIM	Naphthalene	16.0J	ug/kg	23.8	11/07/17 23:45	B,ED
EPA 8270C SIM	Phenanthrene	411	ug/kg	95.3	11/07/17 20:31	
EPA 8270C SIM	Pyrene	479	ug/kg	95.3	11/07/17 20:31	
SM 2540 G-11/3550	Percent Moisture	16.0	%	0.10	11/06/17 14:45	
40159995054	**B10 5.0-7.5**					
EPA 8270C SIM	Anthracene	0.46J	ug/kg	2.4	11/06/17 18:07	
EPA 8270C SIM	Benzo(a)anthracene	1.9J	ug/kg	2.4	11/06/17 18:07	B
EPA 8270C SIM	Benzo(a)pyrene	1.6J	ug/kg	2.4	11/06/17 18:07	
EPA 8270C SIM	Benzo(b)fluoranthene	1.7J	ug/kg	3.0	11/06/17 18:07	
EPA 8270C SIM	Benzo(g,h,i)perylene	2.0J	ug/kg	3.0	11/06/17 18:07	
EPA 8270C SIM	Benzo(k)fluoranthene	1.6J	ug/kg	3.0	11/06/17 18:07	B
EPA 8270C SIM	Chrysene	2.8J	ug/kg	3.0	11/06/17 18:07	B
EPA 8270C SIM	Fluoranthene	3.2	ug/kg	2.4	11/06/17 18:07	

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SUMMARY OF DETECTION

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40159995054	**B10 5.0-7.5**					
EPA 8270C SIM	Indeno(1,2,3-cd)pyrene	1.3J	ug/kg	2.4	11/06/17 18:07	
EPA 8270C SIM	Naphthalene	0.31J	ug/kg	2.4	11/06/17 18:07	B
EPA 8270C SIM	Phenanthrene	2.5	ug/kg	2.4	11/06/17 18:07	
EPA 8270C SIM	Pyrene	4.2	ug/kg	2.4	11/06/17 18:07	
SM 2540 G-11/3550	Percent Moisture	14.1	%	0.10	11/06/17 14:47	
40159995055	**B10 7.5-10.0**					
EPA 8270C SIM	Anthracene	0.52J	ug/kg	2.3	11/06/17 18:40	
EPA 8270C SIM	Benzo(a)anthracene	3.7	ug/kg	2.3	11/06/17 18:40	B
EPA 8270C SIM	Benzo(a)pyrene	3.0	ug/kg	2.3	11/06/17 18:40	
EPA 8270C SIM	Benzo(b)fluoranthene	3.4	ug/kg	2.9	11/06/17 18:40	
EPA 8270C SIM	Benzo(g,h,i)perylene	3.2	ug/kg	2.9	11/06/17 18:40	
EPA 8270C SIM	Benzo(k)fluoranthene	2.8J	ug/kg	2.9	11/06/17 18:40	B
EPA 8270C SIM	Chrysene	4.9	ug/kg	2.9	11/06/17 18:40	
EPA 8270C SIM	Dibenz(a,h)anthracene	0.92J	ug/kg	2.9	11/06/17 18:40	
EPA 8270C SIM	Fluoranthene	6.1	ug/kg	2.3	11/06/17 18:40	
EPA 8270C SIM	Indeno(1,2,3-cd)pyrene	2.3J	ug/kg	2.3	11/06/17 18:40	
EPA 8270C SIM	Naphthalene	0.32J	ug/kg	2.3	11/06/17 18:40	B
EPA 8270C SIM	Phenanthrene	3.0	ug/kg	2.3	11/06/17 18:40	
EPA 8270C SIM	Pyrene	6.9	ug/kg	2.3	11/06/17 18:40	
SM 2540 G-11/3550	Percent Moisture	14.9	%	0.10	11/06/17 14:48	
40159995056	**B10 10-12.5**					
EPA 8270C SIM	Benzo(a)anthracene	0.60J	ug/kg	2.4	11/06/17 19:12	B
EPA 8270C SIM	Benzo(a)pyrene	0.57J	ug/kg	2.4	11/06/17 19:12	
EPA 8270C SIM	Benzo(b)fluoranthene	0.76J	ug/kg	3.0	11/06/17 19:12	
EPA 8270C SIM	Benzo(g,h,i)perylene	1.0J	ug/kg	3.0	11/06/17 19:12	
EPA 8270C SIM	Benzo(k)fluoranthene	0.55J	ug/kg	3.0	11/06/17 19:12	B
EPA 8270C SIM	Chrysene	1.4J	ug/kg	3.0	11/06/17 19:12	B
EPA 8270C SIM	Fluoranthene	0.88J	ug/kg	2.4	11/06/17 19:12	
EPA 8270C SIM	Phenanthrene	0.92J	ug/kg	2.4	11/06/17 19:12	
EPA 8270C SIM	Pyrene	1.3J	ug/kg	2.4	11/06/17 19:12	
SM 2540 G-11/3550	Percent Moisture	15.4	%	0.10	11/06/17 14:50	
40159995057	**B10 12.5-15.0**					
EPA 8270C SIM	Benzo(a)anthracene	0.79J	ug/kg	2.3	11/06/17 19:45	B
EPA 8270C SIM	Benzo(a)pyrene	0.74J	ug/kg	2.3	11/06/17 19:45	
EPA 8270C SIM	Benzo(b)fluoranthene	0.81J	ug/kg	2.9	11/06/17 19:45	
EPA 8270C SIM	Benzo(g,h,i)perylene	1.1J	ug/kg	2.9	11/06/17 19:45	
EPA 8270C SIM	Benzo(k)fluoranthene	0.79J	ug/kg	2.9	11/06/17 19:45	B
EPA 8270C SIM	Chrysene	1.5J	ug/kg	2.9	11/06/17 19:45	B
EPA 8270C SIM	Fluoranthene	1.3J	ug/kg	2.3	11/06/17 19:45	
EPA 8270C SIM	Phenanthrene	1.3J	ug/kg	2.3	11/06/17 19:45	
EPA 8270C SIM	Pyrene	1.6J	ug/kg	2.3	11/06/17 19:45	B
SM 2540 G-11/3550	Percent Moisture	15.2	%	0.10	11/06/17 18:23	
40159995058	**B11 0-2.5**					
EPA 8270C SIM	Benzo(a)anthracene	0.83J	ug/kg	2.4	11/06/17 15:11	B
EPA 8270C SIM	Benzo(a)pyrene	0.59J	ug/kg	2.4	11/06/17 15:11	

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SUMMARY OF DETECTION

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40159995058	**B11 0-2.5**					
EPA 8270C SIM	Benzo(b)fluoranthene	0.66J	ug/kg	2.9	11/06/17 15:11	
EPA 8270C SIM	Benzo(k)fluoranthene	0.70J	ug/kg	2.9	11/06/17 15:11	B
EPA 8270C SIM	Chrysene	0.87J	ug/kg	2.9	11/06/17 15:11	B
EPA 8270C SIM	Fluoranthene	0.78J	ug/kg	2.4	11/06/17 15:11	
EPA 8270C SIM	Phenanthrene	0.67J	ug/kg	2.4	11/06/17 15:11	
EPA 8270C SIM	Pyrene	0.88J	ug/kg	2.4	11/06/17 15:11	
SM 2540 G-11/3550	Percent Moisture	13.7	%	0.10	11/06/17 18:28	
40159995059	**B11 2.5-5.0**					
EPA 8270C SIM	Anthracene	0.29J	ug/kg	2.4	11/06/17 20:17	
EPA 8270C SIM	Benzo(a)anthracene	1.4J	ug/kg	2.4	11/06/17 20:17	B
EPA 8270C SIM	Benzo(a)pyrene	1.2J	ug/kg	2.4	11/06/17 20:17	
EPA 8270C SIM	Benzo(b)fluoranthene	1.3J	ug/kg	3.0	11/06/17 20:17	
EPA 8270C SIM	Benzo(g,h,i)perylene	1.2J	ug/kg	3.0	11/06/17 20:17	
EPA 8270C SIM	Benzo(k)fluoranthene	1.1J	ug/kg	3.0	11/06/17 20:17	B
EPA 8270C SIM	Chrysene	1.5J	ug/kg	3.0	11/06/17 20:17	B
EPA 8270C SIM	Fluoranthene	2.1J	ug/kg	2.4	11/06/17 20:17	
EPA 8270C SIM	Indeno(1,2,3-cd)pyrene	0.95J	ug/kg	2.4	11/06/17 20:17	
EPA 8270C SIM	Phenanthrene	1.5J	ug/kg	2.4	11/06/17 20:17	
EPA 8270C SIM	Pyrene	1.9J	ug/kg	2.4	11/06/17 20:17	
SM 2540 G-11/3550	Percent Moisture	14.5	%	0.10	11/06/17 18:29	
40159995060	**B11 5.0-7.5**					
EPA 8270C SIM	Benzo(a)anthracene	1.1J	ug/kg	2.5	11/06/17 20:49	B
EPA 8270C SIM	Benzo(a)pyrene	0.76J	ug/kg	2.5	11/06/17 20:49	
EPA 8270C SIM	Benzo(b)fluoranthene	0.92J	ug/kg	3.1	11/06/17 20:49	
EPA 8270C SIM	Benzo(g,h,i)perylene	0.84J	ug/kg	3.1	11/06/17 20:49	
EPA 8270C SIM	Benzo(k)fluoranthene	0.88J	ug/kg	3.1	11/06/17 20:49	B
EPA 8270C SIM	Chrysene	1.7J	ug/kg	3.1	11/06/17 20:49	B
EPA 8270C SIM	Fluoranthene	2.0J	ug/kg	2.5	11/06/17 20:49	
EPA 8270C SIM	Naphthalene	0.39J	ug/kg	2.5	11/06/17 20:49	B
EPA 8270C SIM	Phenanthrene	1.7J	ug/kg	2.5	11/06/17 20:49	
EPA 8270C SIM	Pyrene	1.8J	ug/kg	2.5	11/06/17 20:49	
SM 2540 G-11/3550	Percent Moisture	16.2	%	0.10	11/06/17 18:30	
40159995061	**B11 7.5-10.0**					
EPA 8270C SIM	Anthracene	1.8J	ug/kg	4.6	11/07/17 14:34	
EPA 8270C SIM	Benzo(a)anthracene	6.7	ug/kg	4.6	11/07/17 14:34	B
EPA 8270C SIM	Benzo(a)pyrene	6.1	ug/kg	4.6	11/07/17 14:34	
EPA 8270C SIM	Benzo(b)fluoranthene	7.3	ug/kg	5.8	11/07/17 14:34	
EPA 8270C SIM	Benzo(g,h,i)perylene	6.0	ug/kg	5.8	11/07/17 14:34	
EPA 8270C SIM	Benzo(k)fluoranthene	6.9	ug/kg	5.8	11/07/17 14:34	B
EPA 8270C SIM	Chrysene	9.8	ug/kg	5.8	11/07/17 14:34	
EPA 8270C SIM	Dibenz(a,h)anthracene	2.4J	ug/kg	5.8	11/07/17 14:34	
EPA 8270C SIM	Fluoranthene	8.3	ug/kg	4.6	11/07/17 14:34	
EPA 8270C SIM	Fluorene	1.4J	ug/kg	4.6	11/07/17 14:34	
EPA 8270C SIM	Indeno(1,2,3-cd)pyrene	5.0	ug/kg	4.6	11/07/17 14:34	
EPA 8270C SIM	1-Methylnaphthalene	9.4	ug/kg	4.6	11/07/17 14:34	N2
EPA 8270C SIM	2-Methylnaphthalene	11.6	ug/kg	4.6	11/07/17 14:34	

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SUMMARY OF DETECTION

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40159995061	**B11 7.5-10.0**					
EPA 8270C SIM	Naphthalene	4.9	ug/kg	4.6	11/07/17 14:34	B,ED
EPA 8270C SIM	Phenanthrene	8.8	ug/kg	4.6	11/07/17 14:34	
EPA 8270C SIM	Pyrene	14.4	ug/kg	4.6	11/07/17 14:34	
SM 2540 G-11/3550	Percent Moisture	13.7	%	0.10	11/06/17 18:31	
40159995062	**B11 10.0-12.5**					
EPA 8270C SIM	Benzo(a)anthracene	0.77J	ug/kg	2.6	11/06/17 21:22	
EPA 8270C SIM	Benzo(a)pyrene	0.65J	ug/kg	2.6	11/06/17 21:22	
EPA 8270C SIM	Benzo(b)fluoranthene	0.68J	ug/kg	3.3	11/06/17 21:22	
EPA 8270C SIM	Benzo(g,h,i)perylene	1.6J	ug/kg	3.3	11/06/17 21:22	
EPA 8270C SIM	Benzo(k)fluoranthene	0.49J	ug/kg	3.3	11/06/17 21:22	B
EPA 8270C SIM	Chrysene	2.2J	ug/kg	3.3	11/06/17 21:22	B
EPA 8270C SIM	Fluoranthene	0.85J	ug/kg	2.6	11/06/17 21:22	
EPA 8270C SIM	1-Methylnaphthalene	0.78J	ug/kg	2.6	11/06/17 21:22	N2
EPA 8270C SIM	2-Methylnaphthalene	0.72J	ug/kg	2.6	11/06/17 21:22	
EPA 8270C SIM	Naphthalene	0.34J	ug/kg	2.6	11/06/17 21:22	B
EPA 8270C SIM	Phenanthrene	1.8J	ug/kg	2.6	11/06/17 21:22	
EPA 8270C SIM	Pyrene	1.5J	ug/kg	2.6	11/06/17 21:22	
SM 2540 G-11/3550	Percent Moisture	25.6	%	0.10	11/06/17 18:34	
40159995063	**B11 12.5-15.0**					
EPA 8270C SIM	Benzo(a)anthracene	1.2J	ug/kg	2.4	11/06/17 21:53	B
EPA 8270C SIM	Benzo(a)pyrene	1.2J	ug/kg	2.4	11/06/17 21:53	
EPA 8270C SIM	Benzo(b)fluoranthene	1.3J	ug/kg	3.0	11/06/17 21:53	
EPA 8270C SIM	Benzo(g,h,i)perylene	1.5J	ug/kg	3.0	11/06/17 21:53	
EPA 8270C SIM	Benzo(k)fluoranthene	1.0J	ug/kg	3.0	11/06/17 21:53	B
EPA 8270C SIM	Chrysene	2.2J	ug/kg	3.0	11/06/17 21:53	B
EPA 8270C SIM	Fluoranthene	1.8J	ug/kg	2.4	11/06/17 21:53	
EPA 8270C SIM	1-Methylnaphthalene	0.36J	ug/kg	2.4	11/06/17 21:53	N2
EPA 8270C SIM	2-Methylnaphthalene	0.44J	ug/kg	2.4	11/06/17 21:53	
EPA 8270C SIM	Naphthalene	1.0J	ug/kg	2.4	11/06/17 21:53	B
EPA 8270C SIM	Phenanthrene	1.6J	ug/kg	2.4	11/06/17 21:53	
EPA 8270C SIM	Pyrene	2.2J	ug/kg	2.4	11/06/17 21:53	
SM 2540 G-11/3550	Percent Moisture	15.5	%	0.10	11/06/17 18:37	
40159995064	**B11 15.0-17.5**					
EPA 8270C SIM	Benzo(a)anthracene	1.0J	ug/kg	2.4	11/06/17 22:26	B
EPA 8270C SIM	Benzo(a)pyrene	1.0J	ug/kg	2.4	11/06/17 22:26	
EPA 8270C SIM	Benzo(b)fluoranthene	1.1J	ug/kg	3.0	11/06/17 22:26	
EPA 8270C SIM	Benzo(g,h,i)perylene	1.3J	ug/kg	3.0	11/06/17 22:26	
EPA 8270C SIM	Benzo(k)fluoranthene	0.91J	ug/kg	3.0	11/06/17 22:26	B
EPA 8270C SIM	Chrysene	1.9J	ug/kg	3.0	11/06/17 22:26	B
EPA 8270C SIM	Fluoranthene	1.8J	ug/kg	2.4	11/06/17 22:26	
EPA 8270C SIM	1-Methylnaphthalene	0.63J	ug/kg	2.4	11/06/17 22:26	N2
EPA 8270C SIM	2-Methylnaphthalene	1.1J	ug/kg	2.4	11/06/17 22:26	
EPA 8270C SIM	Phenanthrene	2.5	ug/kg	2.4	11/06/17 22:26	
EPA 8270C SIM	Pyrene	2.1J	ug/kg	2.4	11/06/17 22:26	
SM 2540 G-11/3550	Percent Moisture	15.9	%	0.10	11/06/17 18:39	

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SUMMARY OF DETECTION

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40159995065	**B11 17.5-20.0**					
EPA 8270C SIM	Benzo(a)anthracene	0.77J	ug/kg	2.4	11/06/17 17:35	B
EPA 8270C SIM	Benzo(b)fluoranthene	0.71J	ug/kg	3.0	11/06/17 17:35	
EPA 8270C SIM	Benzo(k)fluoranthene	0.69J	ug/kg	3.0	11/06/17 17:35	B
EPA 8270C SIM	Chrysene	1.5J	ug/kg	3.0	11/06/17 17:35	B
EPA 8270C SIM	Fluoranthene	0.82J	ug/kg	2.4	11/06/17 17:35	
EPA 8270C SIM	1-Methylnaphthalene	0.35J	ug/kg	2.4	11/06/17 17:35	N2
EPA 8270C SIM	2-Methylnaphthalene	0.66J	ug/kg	2.4	11/06/17 17:35	
EPA 8270C SIM	Naphthalene	0.82J	ug/kg	2.4	11/06/17 17:35	B
EPA 8270C SIM	Phenanthrene	1.2J	ug/kg	2.4	11/06/17 17:35	
EPA 8270C SIM	Pyrene	0.70J	ug/kg	2.4	11/06/17 17:35	
SM 2540 G-11/3550	Percent Moisture	15.8	%	0.10	11/06/17 18:44	
40159995066	**B12 0-2.5**					
EPA 8270C SIM	Benzo(a)anthracene	0.43J	ug/kg	2.3	11/06/17 22:58	B
EPA 8270C SIM	Benzo(b)fluoranthene	0.46J	ug/kg	2.9	11/06/17 22:58	
EPA 8270C SIM	Benzo(g,h,i)perylene	0.84J	ug/kg	2.9	11/06/17 22:58	
EPA 8270C SIM	Benzo(k)fluoranthene	0.42J	ug/kg	2.9	11/06/17 22:58	B
EPA 8270C SIM	Chrysene	1.2J	ug/kg	2.9	11/06/17 22:58	B
EPA 8270C SIM	Fluoranthene	0.69J	ug/kg	2.3	11/06/17 22:58	
EPA 8270C SIM	Phenanthrene	0.90J	ug/kg	2.3	11/06/17 22:58	
EPA 8270C SIM	Pyrene	0.97J	ug/kg	2.3	11/06/17 22:58	
SM 2540 G-11/3550	Percent Moisture	15.8	%	0.10	11/06/17 18:45	
40159995067	**B12 2.5-5.0**					
EPA 8270C SIM	Benzo(a)anthracene	0.85J	ug/kg	2.4	11/06/17 23:30	B
EPA 8270C SIM	Benzo(a)pyrene	0.67J	ug/kg	2.4	11/06/17 23:30	
EPA 8270C SIM	Benzo(b)fluoranthene	1.0J	ug/kg	3.0	11/06/17 23:30	
EPA 8270C SIM	Benzo(g,h,i)perylene	0.96J	ug/kg	3.0	11/06/17 23:30	
EPA 8270C SIM	Benzo(k)fluoranthene	0.78J	ug/kg	3.0	11/06/17 23:30	B
EPA 8270C SIM	Chrysene	1.7J	ug/kg	3.0	11/06/17 23:30	B
EPA 8270C SIM	Fluoranthene	1.7J	ug/kg	2.4	11/06/17 23:30	
EPA 8270C SIM	1-Methylnaphthalene	0.54J	ug/kg	2.4	11/06/17 23:30	N2
EPA 8270C SIM	2-Methylnaphthalene	0.42J	ug/kg	2.4	11/06/17 23:30	
EPA 8270C SIM	Naphthalene	0.41J	ug/kg	2.4	11/06/17 23:30	B
EPA 8270C SIM	Phenanthrene	2.0J	ug/kg	2.4	11/06/17 23:30	
EPA 8270C SIM	Pyrene	1.9J	ug/kg	2.4	11/06/17 23:30	
SM 2540 G-11/3550	Percent Moisture	15.3	%	0.10	11/06/17 18:46	
40159995068	**B12 5.0-7.5**					
EPA 8270C SIM	Benzo(a)anthracene	0.41J	ug/kg	2.3	11/07/17 00:02	B
EPA 8270C SIM	Benzo(b)fluoranthene	0.49J	ug/kg	2.9	11/07/17 00:02	
EPA 8270C SIM	Benzo(k)fluoranthene	0.42J	ug/kg	2.9	11/07/17 00:02	B
EPA 8270C SIM	Chrysene	1.1J	ug/kg	2.9	11/07/17 00:02	B
EPA 8270C SIM	Fluoranthene	0.59J	ug/kg	2.3	11/07/17 00:02	
EPA 8270C SIM	1-Methylnaphthalene	0.72J	ug/kg	2.3	11/07/17 00:02	N2
EPA 8270C SIM	2-Methylnaphthalene	1.2J	ug/kg	2.3	11/07/17 00:02	
EPA 8270C SIM	Naphthalene	0.36J	ug/kg	2.3	11/07/17 00:02	B
EPA 8270C SIM	Phenanthrene	0.73J	ug/kg	2.3	11/07/17 00:02	
EPA 8270C SIM	Pyrene	0.61J	ug/kg	2.3	11/07/17 00:02	B

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SUMMARY OF DETECTION

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40159995068	**B12 5.0-7.5**					
SM 2540 G-11/3550	Percent Moisture	14.8	%	0.10	11/06/17 18:49	
40159995069	**B12 7.5-10.0**					
EPA 8270C SIM	Benzo(a)anthracene	0.68J	ug/kg	2.5	11/07/17 00:34	
EPA 8270C SIM	Benzo(a)pyrene	1.9J	ug/kg	2.5	11/07/17 00:34	
EPA 8270C SIM	Benzo(b)fluoranthene	0.91J	ug/kg	3.1	11/07/17 00:34	
EPA 8270C SIM	Benzo(g,h,i)perylene	1.7J	ug/kg	3.1	11/07/17 00:34	
EPA 8270C SIM	Benzo(k)fluoranthene	0.57J	ug/kg	3.1	11/07/17 00:34	B
EPA 8270C SIM	Chrysene	2.1J	ug/kg	3.1	11/07/17 00:34	B
EPA 8270C SIM	Fluoranthene	1.0J	ug/kg	2.5	11/07/17 00:34	
EPA 8270C SIM	Phenanthrene	1.1J	ug/kg	2.5	11/07/17 00:34	
EPA 8270C SIM	Pyrene	1.6J	ug/kg	2.5	11/07/17 00:34	
SM 2540 G-11/3550	Percent Moisture	15.2	%	0.10	11/06/17 18:56	
40159995070	**B12 10.0-12.5**					
EPA 8270C SIM	Benzo(a)anthracene	0.57J	ug/kg	2.4	11/07/17 01:07	
EPA 8270C SIM	Benzo(b)fluoranthene	0.61J	ug/kg	3.0	11/07/17 01:07	
EPA 8270C SIM	Benzo(k)fluoranthene	0.53J	ug/kg	3.0	11/07/17 01:07	B
EPA 8270C SIM	Chrysene	0.90J	ug/kg	3.0	11/07/17 01:07	B
EPA 8270C SIM	Fluoranthene	0.96J	ug/kg	2.4	11/07/17 01:07	
EPA 8270C SIM	1-Methylnaphthalene	1.4J	ug/kg	2.4	11/07/17 01:07	N2
EPA 8270C SIM	2-Methylnaphthalene	2.0J	ug/kg	2.4	11/07/17 01:07	
EPA 8270C SIM	Naphthalene	0.87J	ug/kg	2.4	11/07/17 01:07	B
EPA 8270C SIM	Phenanthrene	1.7J	ug/kg	2.4	11/07/17 01:07	
EPA 8270C SIM	Pyrene	1.1J	ug/kg	2.4	11/07/17 01:07	
SM 2540 G-11/3550	Percent Moisture	14.3	%	0.10	11/06/17 18:57	
40159995071	**B13 0-2.5**					
EPA 8270C SIM	Benzo(a)anthracene	0.72J	ug/kg	2.7	11/07/17 01:39	
EPA 8270C SIM	Benzo(b)fluoranthene	0.67J	ug/kg	3.4	11/07/17 01:39	
EPA 8270C SIM	Benzo(k)fluoranthene	0.67J	ug/kg	3.4	11/07/17 01:39	
EPA 8270C SIM	Chrysene	0.74J	ug/kg	3.4	11/07/17 01:39	B
EPA 8270C SIM	Fluoranthene	1.3J	ug/kg	2.7	11/07/17 01:39	
EPA 8270C SIM	Phenanthrene	1.0J	ug/kg	2.7	11/07/17 01:39	
EPA 8270C SIM	Pyrene	1.1J	ug/kg	2.7	11/07/17 01:39	
SM 2540 G-11/3550	Percent Moisture	25.3	%	0.10	11/06/17 18:58	
40159995072	**B13 2.5-5.0**					
EPA 8270C SIM	Benzo(a)anthracene	0.53J	ug/kg	2.7	11/07/17 09:43	
EPA 8270C SIM	Benzo(b)fluoranthene	0.63J	ug/kg	3.3	11/07/17 09:43	
EPA 8270C SIM	Benzo(k)fluoranthene	0.41J	ug/kg	3.3	11/07/17 09:43	B
EPA 8270C SIM	Chrysene	1.6J	ug/kg	3.3	11/07/17 09:43	B
EPA 8270C SIM	Fluoranthene	0.62J	ug/kg	2.7	11/07/17 09:43	
EPA 8270C SIM	1-Methylnaphthalene	0.32J	ug/kg	2.7	11/07/17 09:43	N2
EPA 8270C SIM	2-Methylnaphthalene	0.47J	ug/kg	2.7	11/07/17 09:43	
EPA 8270C SIM	Naphthalene	0.68J	ug/kg	2.7	11/07/17 09:43	B
EPA 8270C SIM	Phenanthrene	0.97J	ug/kg	2.7	11/07/17 09:43	
EPA 8270C SIM	Pyrene	0.65J	ug/kg	2.7	11/07/17 09:43	
SM 2540 G-11/3550	Percent Moisture	27.6	%	0.10	11/06/17 18:59	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40159995073	**B13 5.0-7.5**					
EPA 8270C SIM	Anthracene	1.1J	ug/kg	2.7	11/07/17 10:15	
EPA 8270C SIM	Benzo(a)anthracene	5.5	ug/kg	2.7	11/07/17 10:15	
EPA 8270C SIM	Benzo(a)pyrene	4.8	ug/kg	2.7	11/07/17 10:15	
EPA 8270C SIM	Benzo(b)fluoranthene	4.1	ug/kg	3.4	11/07/17 10:15	
EPA 8270C SIM	Benzo(g,h,i)perylene	2.9J	ug/kg	3.4	11/07/17 10:15	
EPA 8270C SIM	Benzo(k)fluoranthene	4.0	ug/kg	3.4	11/07/17 10:15	
EPA 8270C SIM	Chrysene	5.6	ug/kg	3.4	11/07/17 10:15	
EPA 8270C SIM	Dibenz(a,h)anthracene	1.2J	ug/kg	3.4	11/07/17 10:15	
EPA 8270C SIM	Fluoranthene	9.6	ug/kg	2.7	11/07/17 10:15	
EPA 8270C SIM	Indeno(1,2,3-cd)pyrene	2.5J	ug/kg	2.7	11/07/17 10:15	
EPA 8270C SIM	Naphthalene	0.41J	ug/kg	2.7	11/07/17 10:15	B
EPA 8270C SIM	Phenanthrene	3.4	ug/kg	2.7	11/07/17 10:15	
EPA 8270C SIM	Pyrene	9.9	ug/kg	2.7	11/07/17 10:15	
SM 2540 G-11/3550	Percent Moisture	22.8	%	0.10	11/06/17 19:01	
40159995074	**B13 7.5-10.0**					
EPA 8270C SIM	Benzo(a)anthracene	1.1J	ug/kg	2.4	11/07/17 10:48	
EPA 8270C SIM	Benzo(a)pyrene	0.78J	ug/kg	2.4	11/07/17 10:48	
EPA 8270C SIM	Benzo(b)fluoranthene	0.94J	ug/kg	3.0	11/07/17 10:48	
EPA 8270C SIM	Benzo(k)fluoranthene	0.84J	ug/kg	3.0	11/07/17 10:48	B
EPA 8270C SIM	Chrysene	1.3J	ug/kg	3.0	11/07/17 10:48	B
EPA 8270C SIM	Fluoranthene	1.7J	ug/kg	2.4	11/07/17 10:48	
EPA 8270C SIM	Phenanthrene	1.2J	ug/kg	2.4	11/07/17 10:48	
EPA 8270C SIM	Pyrene	1.7J	ug/kg	2.4	11/07/17 10:48	
SM 2540 G-11/3550	Percent Moisture	14.9	%	0.10	11/06/17 19:16	
40159995075	**B13 10.0-12.5**					
EPA 8270C SIM	Acenaphthene	1.5J	ug/kg	2.5	11/07/17 11:20	
EPA 8270C SIM	Acenaphthylene	0.30J	ug/kg	2.5	11/07/17 11:20	B
EPA 8270C SIM	Anthracene	6.1	ug/kg	2.5	11/07/17 11:20	
EPA 8270C SIM	Benzo(a)anthracene	21.6	ug/kg	2.5	11/07/17 11:20	
EPA 8270C SIM	Benzo(a)pyrene	20.1	ug/kg	2.5	11/07/17 11:20	
EPA 8270C SIM	Benzo(b)fluoranthene	19.7	ug/kg	3.1	11/07/17 11:20	
EPA 8270C SIM	Benzo(g,h,i)perylene	12.1	ug/kg	3.1	11/07/17 11:20	
EPA 8270C SIM	Benzo(k)fluoranthene	17.8	ug/kg	3.1	11/07/17 11:20	
EPA 8270C SIM	Chrysene	22.1	ug/kg	3.1	11/07/17 11:20	
EPA 8270C SIM	Dibenz(a,h)anthracene	4.1	ug/kg	3.1	11/07/17 11:20	
EPA 8270C SIM	Fluoranthene	41.2	ug/kg	4.9	11/07/17 21:04	
EPA 8270C SIM	Fluorene	1.8J	ug/kg	2.5	11/07/17 11:20	
EPA 8270C SIM	Indeno(1,2,3-cd)pyrene	11.5	ug/kg	2.5	11/07/17 11:20	
EPA 8270C SIM	1-Methylnaphthalene	0.78J	ug/kg	2.5	11/07/17 11:20	N2
EPA 8270C SIM	2-Methylnaphthalene	0.88J	ug/kg	2.5	11/07/17 11:20	
EPA 8270C SIM	Naphthalene	1.6J	ug/kg	2.5	11/07/17 11:20	B
EPA 8270C SIM	Phenanthrene	27.0	ug/kg	2.5	11/07/17 11:20	
EPA 8270C SIM	Pyrene	37.1	ug/kg	4.9	11/07/17 21:04	
SM 2540 G-11/3550	Percent Moisture	19.4	%	0.10	11/06/17 19:17	
40159995076	**B13 12.5-15.0**					
EPA 8270C SIM	Benzo(a)anthracene	0.74J	ug/kg	2.6	11/07/17 11:52	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40159995076	**B13 12.5-15.0**					
EPA 8270C SIM	Benzo(b)fluoranthene	0.55J	ug/kg	3.2	11/07/17 11:52	
EPA 8270C SIM	Benzo(k)fluoranthene	0.52J	ug/kg	3.2	11/07/17 11:52	B
EPA 8270C SIM	Chrysene	0.99J	ug/kg	3.2	11/07/17 11:52	B
EPA 8270C SIM	Fluoranthene	1.2J	ug/kg	2.6	11/07/17 11:52	
EPA 8270C SIM	Phenanthrene	0.62J	ug/kg	2.6	11/07/17 11:52	
EPA 8270C SIM	Pyrene	1.1J	ug/kg	2.6	11/07/17 11:52	
SM 2540 G-11/3550	Percent Moisture	19.5	%	0.10	11/06/17 19:18	
40159995077	**B13 15.0-17.5**					
EPA 8270C SIM	Acenaphthene	1.2J	ug/kg	2.6	11/07/17 12:24	
EPA 8270C SIM	Anthracene	4.4	ug/kg	2.6	11/07/17 12:24	
EPA 8270C SIM	Benzo(a)anthracene	10.5	ug/kg	2.6	11/07/17 12:24	
EPA 8270C SIM	Benzo(a)pyrene	8.1	ug/kg	2.6	11/07/17 12:24	
EPA 8270C SIM	Benzo(b)fluoranthene	8.9	ug/kg	3.2	11/07/17 12:24	
EPA 8270C SIM	Benzo(g,h,i)perylene	5.7	ug/kg	3.2	11/07/17 12:24	
EPA 8270C SIM	Benzo(k)fluoranthene	6.9	ug/kg	3.2	11/07/17 12:24	
EPA 8270C SIM	Chrysene	10.3	ug/kg	3.2	11/07/17 12:24	
EPA 8270C SIM	Dibenz(a,h)anthracene	1.8J	ug/kg	3.2	11/07/17 12:24	
EPA 8270C SIM	Fluoranthene	25.9	ug/kg	2.6	11/07/17 12:24	
EPA 8270C SIM	Fluorene	1.1J	ug/kg	2.6	11/07/17 12:24	
EPA 8270C SIM	Indeno(1,2,3-cd)pyrene	4.8	ug/kg	2.6	11/07/17 12:24	
EPA 8270C SIM	1-Methylnaphthalene	0.37J	ug/kg	2.6	11/07/17 12:24	N2
EPA 8270C SIM	2-Methylnaphthalene	0.54J	ug/kg	2.6	11/07/17 12:24	
EPA 8270C SIM	Naphthalene	1.1J	ug/kg	2.6	11/07/17 12:24	B
EPA 8270C SIM	Phenanthrene	18.3	ug/kg	2.6	11/07/17 12:24	
EPA 8270C SIM	Pyrene	21.7	ug/kg	2.6	11/07/17 12:24	
SM 2540 G-11/3550	Percent Moisture	22.8	%	0.10	11/06/17 19:19	
40159995078	**B13 17.5-20.0**					
EPA 8270C SIM	Benzo(a)anthracene	1.3J	ug/kg	2.2	11/07/17 12:57	B
EPA 8270C SIM	Benzo(a)pyrene	0.98J	ug/kg	2.2	11/07/17 12:57	
EPA 8270C SIM	Benzo(b)fluoranthene	1.2J	ug/kg	2.7	11/07/17 12:57	
EPA 8270C SIM	Benzo(g,h,i)perylene	1.7J	ug/kg	2.7	11/07/17 12:57	
EPA 8270C SIM	Benzo(k)fluoranthene	0.92J	ug/kg	2.7	11/07/17 12:57	B
EPA 8270C SIM	Chrysene	3.1	ug/kg	2.7	11/07/17 12:57	B
EPA 8270C SIM	Fluoranthene	1.7J	ug/kg	2.2	11/07/17 12:57	B
EPA 8270C SIM	Indeno(1,2,3-cd)pyrene	0.69J	ug/kg	2.2	11/07/17 12:57	
EPA 8270C SIM	1-Methylnaphthalene	1.0J	ug/kg	2.2	11/07/17 12:57	N2
EPA 8270C SIM	2-Methylnaphthalene	2.1J	ug/kg	2.2	11/07/17 12:57	
EPA 8270C SIM	Naphthalene	1.2J	ug/kg	2.2	11/07/17 12:57	B
EPA 8270C SIM	Phenanthrene	1.7J	ug/kg	2.2	11/07/17 12:57	
EPA 8270C SIM	Pyrene	1.8J	ug/kg	2.2	11/07/17 12:57	B
SM 2540 G-11/3550	Percent Moisture	6.4	%	0.10	11/06/17 19:24	
40159995079	**B14 0-2.5**					
EPA 8270 by SIM	Acenaphthene	0.021J	mg/kg	0.063	11/08/17 10:05	
EPA 8270 by SIM	Anthracene	0.12	mg/kg	0.093	11/08/17 10:05	
EPA 8270 by SIM	Benzo(a)anthracene	0.58	mg/kg	0.052	11/08/17 10:05	
EPA 8270 by SIM	Benzo(a)pyrene	0.56	mg/kg	0.041	11/08/17 10:05	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40159995079	**B14 0-2.5**					
EPA 8270 by SIM	Benzo(b)fluoranthene	0.54	mg/kg	0.046	11/08/17 10:05	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.35	mg/kg	0.033	11/08/17 10:05	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.50	mg/kg	0.041	11/08/17 10:05	
EPA 8270 by SIM	Chrysene	0.67	mg/kg	0.055	11/08/17 10:05	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.13	mg/kg	0.036	11/08/17 10:05	
EPA 8270 by SIM	Fluoranthene	1.4	mg/kg	0.085	11/08/17 10:05	
EPA 8270 by SIM	Fluorene	0.025J	mg/kg	0.067	11/08/17 10:05	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.33	mg/kg	0.036	11/08/17 10:05	
EPA 8270 by SIM	Phenanthrene	0.45	mg/kg	0.19	11/08/17 10:05	
EPA 8270 by SIM	Pyrene	1.0	mg/kg	0.073	11/08/17 10:05	
ASTM D2974-87	Percent Moisture	18.0	%	0.10	11/06/17 10:22	
40159995080	**B14 2.5-5.0**					
EPA 8270 by SIM	Anthracene	0.021J	mg/kg	0.024	11/07/17 17:09	
EPA 8270 by SIM	Benzo(a)anthracene	0.10	mg/kg	0.013	11/07/17 17:09	
EPA 8270 by SIM	Benzo(a)pyrene	0.11	mg/kg	0.011	11/07/17 17:09	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.11	mg/kg	0.012	11/07/17 17:09	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.045	mg/kg	0.0086	11/07/17 17:09	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.11	mg/kg	0.011	11/07/17 17:09	
EPA 8270 by SIM	Chrysene	0.12	mg/kg	0.014	11/07/17 17:09	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.019	mg/kg	0.0095	11/07/17 17:09	
EPA 8270 by SIM	Fluoranthene	0.25	mg/kg	0.022	11/07/17 17:09	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.053	mg/kg	0.0093	11/07/17 17:09	
EPA 8270 by SIM	Phenanthrene	0.078	mg/kg	0.049	11/07/17 17:09	
EPA 8270 by SIM	Pyrene	0.19	mg/kg	0.019	11/07/17 17:09	
ASTM D2974-87	Percent Moisture	21.6	%	0.10	11/06/17 10:22	
40159995081	**B14 5.0-7.5**					
EPA 8270 by SIM	Acenaphthene	0.12	mg/kg	0.017	11/08/17 16:26	
EPA 8270 by SIM	Acenaphthylene	0.11	mg/kg	0.014	11/08/17 16:26	
EPA 8270 by SIM	Anthracene	0.14	mg/kg	0.025	11/08/17 16:26	
EPA 8270 by SIM	Benzo(a)anthracene	0.19	mg/kg	0.014	11/08/17 16:26	
EPA 8270 by SIM	Benzo(a)pyrene	0.37	mg/kg	0.011	11/08/17 16:26	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.27	mg/kg	0.012	11/08/17 16:26	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.39	mg/kg	0.0089	11/08/17 16:26	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.29	mg/kg	0.011	11/08/17 16:26	
EPA 8270 by SIM	Chrysene	0.21	mg/kg	0.015	11/08/17 16:26	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.10	mg/kg	0.0097	11/08/17 16:26	
EPA 8270 by SIM	Fluoranthene	0.34	mg/kg	0.023	11/08/17 16:26	
EPA 8270 by SIM	Fluorene	0.16	mg/kg	0.018	11/08/17 16:26	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.35	mg/kg	0.0096	11/08/17 16:26	
EPA 8270 by SIM	1-Methylnaphthalene	0.88	mg/kg	0.018	11/08/17 16:26	
EPA 8270 by SIM	2-Methylnaphthalene	1.0	mg/kg	0.022	11/08/17 16:26	
EPA 8270 by SIM	Naphthalene	0.14	mg/kg	0.037	11/08/17 16:26	
EPA 8270 by SIM	Phenanthrene	0.79	mg/kg	0.051	11/08/17 16:26	
EPA 8270 by SIM	Pyrene	0.31	mg/kg	0.020	11/08/17 16:26	
ASTM D2974-87	Percent Moisture	23.5	%	0.10	11/06/17 10:22	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40159995082	**B14 7.5-10.0**					
EPA 8270 by SIM	Acenaphthene	0.017	mg/kg	0.016	11/07/17 17:26	
EPA 8270 by SIM	Acenaphthylene	0.0046J	mg/kg	0.014	11/07/17 17:26	
EPA 8270 by SIM	Anthracene	0.031	mg/kg	0.024	11/07/17 17:26	
EPA 8270 by SIM	Benzo(a)anthracene	0.17	mg/kg	0.013	11/07/17 17:26	
EPA 8270 by SIM	Benzo(a)pyrene	0.18	mg/kg	0.010	11/07/17 17:26	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.15	mg/kg	0.012	11/07/17 17:26	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.067	mg/kg	0.0084	11/07/17 17:26	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.20	mg/kg	0.010	11/07/17 17:26	
EPA 8270 by SIM	Chrysene	0.20	mg/kg	0.014	11/07/17 17:26	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.033	mg/kg	0.0093	11/07/17 17:26	
EPA 8270 by SIM	Fluoranthene	0.38	mg/kg	0.022	11/07/17 17:26	
EPA 8270 by SIM	Fluorene	0.011J	mg/kg	0.017	11/07/17 17:26	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.082	mg/kg	0.0091	11/07/17 17:26	
EPA 8270 by SIM	Naphthalene	0.014J	mg/kg	0.035	11/07/17 17:26	
EPA 8270 by SIM	Phenanthrene	0.14	mg/kg	0.048	11/07/17 17:26	
EPA 8270 by SIM	Pyrene	0.31	mg/kg	0.019	11/07/17 17:26	
ASTM D2974-87	Percent Moisture	19.6	%	0.10	11/06/17 10:22	
40159995083	**B14 10.0-12.5**					
EPA 8270 by SIM	Benzo(a)anthracene	0.0074J	mg/kg	0.013	11/07/17 17:44	
EPA 8270 by SIM	Benzo(a)pyrene	0.0073J	mg/kg	0.0099	11/07/17 17:44	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.0062J	mg/kg	0.011	11/07/17 17:44	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.0025J	mg/kg	0.0080	11/07/17 17:44	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.0080J	mg/kg	0.0099	11/07/17 17:44	
EPA 8270 by SIM	Chrysene	0.010J	mg/kg	0.013	11/07/17 17:44	
EPA 8270 by SIM	Fluoranthene	0.021	mg/kg	0.021	11/07/17 17:44	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.0029J	mg/kg	0.0087	11/07/17 17:44	
EPA 8270 by SIM	Naphthalene	0.15	mg/kg	0.033	11/07/17 17:44	
EPA 8270 by SIM	Phenanthrene	0.015J	mg/kg	0.046	11/07/17 17:44	
EPA 8270 by SIM	Pyrene	0.017J	mg/kg	0.018	11/07/17 17:44	
ASTM D2974-87	Percent Moisture	15.7	%	0.10	11/06/17 10:22	
40159995084	**B2 5.0-7.5**					
ASTM D2974-87	Percent Moisture	15.3	%	0.10	11/06/17 10:22	
40159995085	**B4 2.5-5.0**					
ASTM D2974-87	Percent Moisture	10.6	%	0.10	11/06/17 10:22	
40159995086	**B6 2.5-5.0**					
ASTM D2974-87	Percent Moisture	13.7	%	0.10	11/06/17 10:22	
40159995087	**B13 7.5-10**					
ASTM D2974-87	Percent Moisture	15.0	%	0.10	11/06/17 10:22	
40159995088	**B14 7.5-10**					
ASTM D2974-87	Percent Moisture	14.3	%	0.10	11/06/17 10:22	
40159995089	**B9 7.5-10.00**					
EPA 8270 by SIM	Anthracene	0.012J	mg/kg	0.023	11/07/17 18:01	
EPA 8270 by SIM	Benzo(a)anthracene	0.039	mg/kg	0.013	11/07/17 18:01	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40159995089	**B9 7.5-10.00**					
EPA 8270 by SIM	Benzo(a)pyrene	0.043	mg/kg	0.010	11/07/17 18:01	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.038	mg/kg	0.011	11/07/17 18:01	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.014	mg/kg	0.0082	11/07/17 18:01	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.041	mg/kg	0.010	11/07/17 18:01	
EPA 8270 by SIM	Chrysene	0.048	mg/kg	0.013	11/07/17 18:01	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.0070J	mg/kg	0.0090	11/07/17 18:01	
EPA 8270 by SIM	Fluoranthene	0.11	mg/kg	0.021	11/07/17 18:01	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.017	mg/kg	0.0088	11/07/17 18:01	
EPA 8270 by SIM	Phenanthrene	0.055	mg/kg	0.047	11/07/17 18:01	
EPA 8270 by SIM	Pyrene	0.084	mg/kg	0.018	11/07/17 18:01	
ASTM D2974-87	Percent Moisture	16.9	%	0.10	11/06/17 10:40	

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B3 2.5-5.0 **Lab ID: 40159995001** Collected: 10/30/17 14:08 Received: 11/02/17 07:35 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	71-43-2	W
Bromobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	108-86-1	W
Bromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	74-97-5	W
Bromodichloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	75-27-4	W
Bromoform	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	75-25-2	W
Bromomethane	**<0.070**	mg/kg	0.25	0.070	1	11/03/17 07:00	11/03/17 19:41	74-83-9	W
n-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	104-51-8	W
sec-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	135-98-8	W
tert-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	98-06-6	W
Carbon tetrachloride	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	56-23-5	W
Chlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	108-90-7	W
Chloroethane	**<0.067**	mg/kg	0.25	0.067	1	11/03/17 07:00	11/03/17 19:41	75-00-3	W
Chloroform	**<0.046**	mg/kg	0.25	0.046	1	11/03/17 07:00	11/03/17 19:41	67-66-3	W
Chloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	74-87-3	W
2-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	95-49-8	W
4-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	106-43-4	W
1,2-Dibromo-3-chloropropane	**<0.091**	mg/kg	0.25	0.091	1	11/03/17 07:00	11/03/17 19:41	96-12-8	W
Dibromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	124-48-1	W
1,2-Dibromoethane (EDB)	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	106-93-4	W
Dibromomethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	74-95-3	W
1,2-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	95-50-1	W
1,3-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	541-73-1	W
1,4-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	106-46-7	W
Dichlorodifluoromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	75-71-8	W
1,1-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	75-34-3	W
1,2-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	107-06-2	W
1,1-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	75-35-4	W
cis-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	156-59-2	W
trans-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	156-60-5	W
1,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	78-87-5	W
1,3-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	142-28-9	W
2,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	594-20-7	W
1,1-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	563-58-6	W
cis-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	10061-01-5	W
trans-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	10061-02-6	W
Diisopropyl ether	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	108-20-3	W
Ethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	100-41-4	W
Hexachloro-1,3-butadiene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	87-68-3	W
Isopropylbenzene (Cumene)	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	98-82-8	W
p-Isopropyltoluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	99-87-6	W
Methylene Chloride	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	75-09-2	W
Methyl-tert-butyl ether	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	1634-04-4	W
Naphthalene	**<0.040**	mg/kg	0.25	0.040	1	11/03/17 07:00	11/03/17 19:41	91-20-3	W
n-Propylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	103-65-1	W
Styrene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B3 2.5-5.0 **Lab ID: 40159995001** Collected: 10/30/17 14:08 Received: 11/02/17 07:35 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	630-20-6	W
1,1,2,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	79-34-5	W
Tetrachloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	127-18-4	W
Toluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	108-88-3	W
1,2,3-Trichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	87-61-6	W
1,2,4-Trichlorobenzene	**<0.048**	mg/kg	0.25	0.048	1	11/03/17 07:00	11/03/17 19:41	120-82-1	W
1,1,1-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	71-55-6	W
1,1,2-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	79-00-5	W
Trichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	79-01-6	W
Trichlorofluoromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	75-69-4	W
1,2,3-Trichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	96-18-4	W
1,2,4-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	95-63-6	W
1,3,5-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	108-67-8	W
Vinyl chloride	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	75-01-4	W
m&p-Xylene	**<0.050**	mg/kg	0.12	0.050	1	11/03/17 07:00	11/03/17 19:41	179601-23-1	W
o-Xylene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:41	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	96	%	68-130		1	11/03/17 07:00	11/03/17 19:41	1868-53-7	
Toluene-d8 (S)	100	%	68-149		1	11/03/17 07:00	11/03/17 19:41	2037-26-5	
4-Bromofluorobenzene (S)	88	%	58-141		1	11/03/17 07:00	11/03/17 19:41	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.7**	%	0.10	0.10	1		11/04/17 07:36		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B6 5.0-7.5 **Lab ID: 40159995002** Collected: 10/30/17 16:29 Received: 11/02/17 07:35 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	71-43-2	W
Bromobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	108-86-1	W
Bromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	74-97-5	W
Bromodichloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	75-27-4	W
Bromoform	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	75-25-2	W
Bromomethane	**<0.070**	mg/kg	0.25	0.070	1	11/03/17 07:00	11/03/17 20:04	74-83-9	W
n-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	104-51-8	W
sec-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	135-98-8	W
tert-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	98-06-6	W
Carbon tetrachloride	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	56-23-5	W
Chlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	108-90-7	W
Chloroethane	**<0.067**	mg/kg	0.25	0.067	1	11/03/17 07:00	11/03/17 20:04	75-00-3	W
Chloroform	**<0.046**	mg/kg	0.25	0.046	1	11/03/17 07:00	11/03/17 20:04	67-66-3	W
Chloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	74-87-3	W
2-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	95-49-8	W
4-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	106-43-4	W
1,2-Dibromo-3-chloropropane	**<0.091**	mg/kg	0.25	0.091	1	11/03/17 07:00	11/03/17 20:04	96-12-8	W
Dibromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	124-48-1	W
1,2-Dibromoethane (EDB)	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	106-93-4	W
Dibromomethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	74-95-3	W
1,2-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	95-50-1	W
1,3-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	541-73-1	W
1,4-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	106-46-7	W
Dichlorodifluoromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	75-71-8	W
1,1-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	75-34-3	W
1,2-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	107-06-2	W
1,1-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	75-35-4	W
cis-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	156-59-2	W
trans-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	156-60-5	W
1,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	78-87-5	W
1,3-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	142-28-9	W
2,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	594-20-7	W
1,1-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	563-58-6	W
cis-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	10061-01-5	W
trans-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	10061-02-6	W
Diisopropyl ether	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	108-20-3	W
Ethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	100-41-4	W
Hexachloro-1,3-butadiene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	87-68-3	W
Isopropylbenzene (Cumene)	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	98-82-8	W
p-Isopropyltoluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	99-87-6	W
Methylene Chloride	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	75-09-2	W
Methyl-tert-butyl ether	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	1634-04-4	W
Naphthalene	**<0.040**	mg/kg	0.25	0.040	1	11/03/17 07:00	11/03/17 20:04	91-20-3	W
n-Propylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	103-65-1	W
Styrene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B6 5.0-7.5 **Lab ID: 40159995002** Collected: 10/30/17 16:29 Received: 11/02/17 07:35 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	630-20-6	W
1,1,2,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	79-34-5	W
Tetrachloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	127-18-4	W
Toluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	108-88-3	W
1,2,3-Trichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	87-61-6	W
1,2,4-Trichlorobenzene	**<0.048**	mg/kg	0.25	0.048	1	11/03/17 07:00	11/03/17 20:04	120-82-1	W
1,1,1-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	71-55-6	W
1,1,2-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	79-00-5	W
Trichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	79-01-6	W
Trichlorofluoromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	75-69-4	W
1,2,3-Trichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	96-18-4	W
1,2,4-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	95-63-6	W
1,3,5-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	108-67-8	W
Vinyl chloride	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	75-01-4	W
m&p-Xylene	**<0.050**	mg/kg	0.12	0.050	1	11/03/17 07:00	11/03/17 20:04	179601-23-1	W
o-Xylene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:04	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	95	%	68-130		1	11/03/17 07:00	11/03/17 20:04	1868-53-7	
Toluene-d8 (S)	94	%	68-149		1	11/03/17 07:00	11/03/17 20:04	2037-26-5	
4-Bromofluorobenzene (S)	82	%	58-141		1	11/03/17 07:00	11/03/17 20:04	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.2**	%	0.10	0.10	1		11/04/17 07:36		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B10 2.5-5.0 **Lab ID: 40159995003** Collected: 10/31/17 09:53 Received: 11/02/17 07:35 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	71-43-2	W
Bromobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	108-86-1	W
Bromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	74-97-5	W
Bromodichloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	75-27-4	W
Bromoform	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	75-25-2	W
Bromomethane	**<0.070**	mg/kg	0.25	0.070	1	11/03/17 07:00	11/03/17 20:28	74-83-9	W
n-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	104-51-8	W
sec-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	135-98-8	W
tert-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	98-06-6	W
Carbon tetrachloride	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	56-23-5	W
Chlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	108-90-7	W
Chloroethane	**<0.067**	mg/kg	0.25	0.067	1	11/03/17 07:00	11/03/17 20:28	75-00-3	W
Chloroform	**<0.046**	mg/kg	0.25	0.046	1	11/03/17 07:00	11/03/17 20:28	67-66-3	W
Chloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	74-87-3	W
2-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	95-49-8	W
4-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	106-43-4	W
1,2-Dibromo-3-chloropropane	**<0.091**	mg/kg	0.25	0.091	1	11/03/17 07:00	11/03/17 20:28	96-12-8	W
Dibromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	124-48-1	W
1,2-Dibromoethane (EDB)	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	106-93-4	W
Dibromomethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	74-95-3	W
1,2-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	95-50-1	W
1,3-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	541-73-1	W
1,4-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	106-46-7	W
Dichlorodifluoromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	75-71-8	W
1,1-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	75-34-3	W
1,2-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	107-06-2	W
1,1-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	75-35-4	W
cis-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	156-59-2	W
trans-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	156-60-5	W
1,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	78-87-5	W
1,3-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	142-28-9	W
2,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	594-20-7	W
1,1-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	563-58-6	W
cis-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	10061-01-5	W
trans-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	10061-02-6	W
Diisopropyl ether	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	108-20-3	W
Ethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	100-41-4	W
Hexachloro-1,3-butadiene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	87-68-3	W
Isopropylbenzene (Cumene)	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	98-82-8	W
p-Isopropyltoluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	99-87-6	W
Methylene Chloride	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	75-09-2	W
Methyl-tert-butyl ether	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	1634-04-4	W
Naphthalene	**<0.040**	mg/kg	0.25	0.040	1	11/03/17 07:00	11/03/17 20:28	91-20-3	W
n-Propylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	103-65-1	W
Styrene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B10 2.5-5.0 **Lab ID: 40159995003** Collected: 10/31/17 09:53 Received: 11/02/17 07:35 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	630-20-6	W
1,1,2,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	79-34-5	W
Tetrachloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	127-18-4	W
Toluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	108-88-3	W
1,2,3-Trichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	87-61-6	W
1,2,4-Trichlorobenzene	**<0.048**	mg/kg	0.25	0.048	1	11/03/17 07:00	11/03/17 20:28	120-82-1	W
1,1,1-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	71-55-6	W
1,1,2-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	79-00-5	W
Trichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	79-01-6	W
Trichlorofluoromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	75-69-4	W
1,2,3-Trichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	96-18-4	W
1,2,4-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	95-63-6	W
1,3,5-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	108-67-8	W
Vinyl chloride	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	75-01-4	W
m&p-Xylene	**<0.050**	mg/kg	0.12	0.050	1	11/03/17 07:00	11/03/17 20:28	179601-23-1	W
o-Xylene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:28	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	68-130		1	11/03/17 07:00	11/03/17 20:28	1868-53-7	1q
Toluene-d8 (S)	94	%	68-149		1	11/03/17 07:00	11/03/17 20:28	2037-26-5	
4-Bromofluorobenzene (S)	80	%	58-141		1	11/03/17 07:00	11/03/17 20:28	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.8**	%	0.10	0.10	1		11/04/17 07:36		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B12 5.0-7.5 **Lab ID: 40159995004** Collected: 10/31/17 12:38 Received: 11/02/17 07:35 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	71-43-2	W
Bromobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	108-86-1	W
Bromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	74-97-5	W
Bromodichloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	75-27-4	W
Bromoform	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	75-25-2	W
Bromomethane	**<0.070**	mg/kg	0.25	0.070	1	11/03/17 07:00	11/03/17 20:51	74-83-9	W
n-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	104-51-8	W
sec-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	135-98-8	W
tert-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	98-06-6	W
Carbon tetrachloride	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	56-23-5	W
Chlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	108-90-7	W
Chloroethane	**<0.067**	mg/kg	0.25	0.067	1	11/03/17 07:00	11/03/17 20:51	75-00-3	W
Chloroform	**<0.046**	mg/kg	0.25	0.046	1	11/03/17 07:00	11/03/17 20:51	67-66-3	W
Chloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	74-87-3	W
2-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	95-49-8	W
4-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	106-43-4	W
1,2-Dibromo-3-chloropropane	**<0.091**	mg/kg	0.25	0.091	1	11/03/17 07:00	11/03/17 20:51	96-12-8	W
Dibromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	124-48-1	W
1,2-Dibromoethane (EDB)	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	106-93-4	W
Dibromomethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	74-95-3	W
1,2-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	95-50-1	W
1,3-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	541-73-1	W
1,4-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	106-46-7	W
Dichlorodifluoromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	75-71-8	W
1,1-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	75-34-3	W
1,2-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	107-06-2	W
1,1-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	75-35-4	W
cis-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	156-59-2	W
trans-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	156-60-5	W
1,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	78-87-5	W
1,3-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	142-28-9	W
2,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	594-20-7	W
1,1-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	563-58-6	W
cis-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	10061-01-5	W
trans-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	10061-02-6	W
Diisopropyl ether	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	108-20-3	W
Ethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	100-41-4	W
Hexachloro-1,3-butadiene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	87-68-3	W
Isopropylbenzene (Cumene)	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	98-82-8	W
p-Isopropyltoluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	99-87-6	W
Methylene Chloride	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	75-09-2	W
Methyl-tert-butyl ether	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	1634-04-4	W
Naphthalene	**<0.040**	mg/kg	0.25	0.040	1	11/03/17 07:00	11/03/17 20:51	91-20-3	W
n-Propylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	103-65-1	W
Styrene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B12 5.0-7.5 **Lab ID: 40159995004** Collected: 10/31/17 12:38 Received: 11/02/17 07:35 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	630-20-6	W
1,1,2,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	79-34-5	W
Tetrachloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	127-18-4	W
Toluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	108-88-3	W
1,2,3-Trichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	87-61-6	W
1,2,4-Trichlorobenzene	**<0.048**	mg/kg	0.25	0.048	1	11/03/17 07:00	11/03/17 20:51	120-82-1	W
1,1,1-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	71-55-6	W
1,1,2-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	79-00-5	W
Trichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	79-01-6	W
Trichlorofluoromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	75-69-4	W
1,2,3-Trichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	96-18-4	W
1,2,4-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	95-63-6	W
1,3,5-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	108-67-8	W
Vinyl chloride	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	75-01-4	W
m&p-Xylene	**<0.050**	mg/kg	0.12	0.050	1	11/03/17 07:00	11/03/17 20:51	179601-23-1	W
o-Xylene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 20:51	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	89	%	68-130		1	11/03/17 07:00	11/03/17 20:51	1868-53-7	
Toluene-d8 (S)	95	%	68-149		1	11/03/17 07:00	11/03/17 20:51	2037-26-5	
4-Bromofluorobenzene (S)	82	%	58-141		1	11/03/17 07:00	11/03/17 20:51	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.8**	%	0.10	0.10	1		11/04/17 07:36		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B13 7.5-10.0 **Lab ID: 40159995005** Collected: 10/31/17 13:48 Received: 11/02/17 07:35 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	71-43-2	W
Bromobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	108-86-1	W
Bromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	74-97-5	W
Bromodichloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	75-27-4	W
Bromoform	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	75-25-2	W
Bromomethane	**<0.070**	mg/kg	0.25	0.070	1	11/03/17 07:00	11/03/17 21:14	74-83-9	W
n-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	104-51-8	W
sec-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	135-98-8	W
tert-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	98-06-6	W
Carbon tetrachloride	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	56-23-5	W
Chlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	108-90-7	W
Chloroethane	**<0.067**	mg/kg	0.25	0.067	1	11/03/17 07:00	11/03/17 21:14	75-00-3	W
Chloroform	**<0.046**	mg/kg	0.25	0.046	1	11/03/17 07:00	11/03/17 21:14	67-66-3	W
Chloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	74-87-3	W
2-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	95-49-8	W
4-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	106-43-4	W
1,2-Dibromo-3-chloropropane	**<0.091**	mg/kg	0.25	0.091	1	11/03/17 07:00	11/03/17 21:14	96-12-8	W
Dibromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	124-48-1	W
1,2-Dibromoethane (EDB)	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	106-93-4	W
Dibromomethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	74-95-3	W
1,2-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	95-50-1	W
1,3-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	541-73-1	W
1,4-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	106-46-7	W
Dichlorodifluoromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	75-71-8	W
1,1-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	75-34-3	W
1,2-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	107-06-2	W
1,1-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	75-35-4	W
cis-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	156-59-2	W
trans-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	156-60-5	W
1,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	78-87-5	W
1,3-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	142-28-9	W
2,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	594-20-7	W
1,1-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	563-58-6	W
cis-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	10061-01-5	W
trans-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	10061-02-6	W
Diisopropyl ether	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	108-20-3	W
Ethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	100-41-4	W
Hexachloro-1,3-butadiene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	87-68-3	W
Isopropylbenzene (Cumene)	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	98-82-8	W
p-Isopropyltoluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	99-87-6	W
Methylene Chloride	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	75-09-2	W
Methyl-tert-butyl ether	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	1634-04-4	W
Naphthalene	**<0.040**	mg/kg	0.25	0.040	1	11/03/17 07:00	11/03/17 21:14	91-20-3	W
n-Propylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	103-65-1	W
Styrene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B13 7.5-10.0 **Lab ID: 40159995005** Collected: 10/31/17 13:48 Received: 11/02/17 07:35 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	630-20-6	W
1,1,2,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	79-34-5	W
Tetrachloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	127-18-4	W
Toluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	108-88-3	W
1,2,3-Trichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	87-61-6	W
1,2,4-Trichlorobenzene	**<0.048**	mg/kg	0.25	0.048	1	11/03/17 07:00	11/03/17 21:14	120-82-1	W
1,1,1-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	71-55-6	W
1,1,2-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	79-00-5	W
Trichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	79-01-6	W
Trichlorofluoromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	75-69-4	W
1,2,3-Trichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	96-18-4	W
1,2,4-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	95-63-6	W
1,3,5-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	108-67-8	W
Vinyl chloride	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	75-01-4	W
m&p-Xylene	**<0.050**	mg/kg	0.12	0.050	1	11/03/17 07:00	11/03/17 21:14	179601-23-1	W
o-Xylene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 21:14	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	106	%	68-130		1	11/03/17 07:00	11/03/17 21:14	1868-53-7	
Toluene-d8 (S)	111	%	68-149		1	11/03/17 07:00	11/03/17 21:14	2037-26-5	
4-Bromofluorobenzene (S)	98	%	58-141		1	11/03/17 07:00	11/03/17 21:14	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.5**	%	0.10	0.10	1		11/04/17 07:36		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: TRIP **Lab ID: 40159995006** Collected: 10/31/17 00:00 Received: 11/02/17 07:35 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	71-43-2	W
Bromobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	108-86-1	W
Bromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	74-97-5	W
Bromodichloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	75-27-4	W
Bromoform	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	75-25-2	W
Bromomethane	**<0.070**	mg/kg	0.25	0.070	1	11/03/17 07:00	11/03/17 19:18	74-83-9	W
n-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	104-51-8	W
sec-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	135-98-8	W
tert-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	98-06-6	W
Carbon tetrachloride	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	56-23-5	W
Chlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	108-90-7	W
Chloroethane	**<0.067**	mg/kg	0.25	0.067	1	11/03/17 07:00	11/03/17 19:18	75-00-3	W
Chloroform	**<0.046**	mg/kg	0.25	0.046	1	11/03/17 07:00	11/03/17 19:18	67-66-3	W
Chloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	74-87-3	W
2-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	95-49-8	W
4-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	106-43-4	W
1,2-Dibromo-3-chloropropane	**<0.091**	mg/kg	0.25	0.091	1	11/03/17 07:00	11/03/17 19:18	96-12-8	W
Dibromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	124-48-1	W
1,2-Dibromoethane (EDB)	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	106-93-4	W
Dibromomethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	74-95-3	W
1,2-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	95-50-1	W
1,3-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	541-73-1	W
1,4-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	106-46-7	W
Dichlorodifluoromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	75-71-8	W
1,1-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	75-34-3	W
1,2-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	107-06-2	W
1,1-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	75-35-4	W
cis-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	156-59-2	W
trans-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	156-60-5	W
1,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	78-87-5	W
1,3-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	142-28-9	W
2,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	594-20-7	W
1,1-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	563-58-6	W
cis-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	10061-01-5	W
trans-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	10061-02-6	W
Diisopropyl ether	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	108-20-3	W
Ethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	100-41-4	W
Hexachloro-1,3-butadiene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	87-68-3	W
Isopropylbenzene (Cumene)	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	98-82-8	W
p-Isopropyltoluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	99-87-6	W
Methylene Chloride	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	75-09-2	W
Methyl-tert-butyl ether	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	1634-04-4	W
Naphthalene	**<0.040**	mg/kg	0.25	0.040	1	11/03/17 07:00	11/03/17 19:18	91-20-3	W
n-Propylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	103-65-1	W
Styrene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: TRIP **Lab ID: 40159995006** Collected: 10/31/17 00:00 Received: 11/02/17 07:35 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	630-20-6	W
1,1,2,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	79-34-5	W
Tetrachloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	127-18-4	W
Toluene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	108-88-3	W
1,2,3-Trichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	87-61-6	W
1,2,4-Trichlorobenzene	**<0.048**	mg/kg	0.25	0.048	1	11/03/17 07:00	11/03/17 19:18	120-82-1	W
1,1,1-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	71-55-6	W
1,1,2-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	79-00-5	W
Trichloroethene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	79-01-6	W
Trichlorofluoromethane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	75-69-4	W
1,2,3-Trichloropropane	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	96-18-4	W
1,2,4-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	95-63-6	W
1,3,5-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	108-67-8	W
Vinyl chloride	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	75-01-4	W
m&p-Xylene	**<0.050**	mg/kg	0.12	0.050	1	11/03/17 07:00	11/03/17 19:18	179601-23-1	W
o-Xylene	**<0.025**	mg/kg	0.060	0.025	1	11/03/17 07:00	11/03/17 19:18	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	83	%	68-130		1	11/03/17 07:00	11/03/17 19:18	1868-53-7	
Toluene-d8 (S)	85	%	68-149		1	11/03/17 07:00	11/03/17 19:18	2037-26-5	
4-Bromofluorobenzene (S)	80	%	58-141		1	11/03/17 07:00	11/03/17 19:18	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B1 2.5-5.0 **Lab ID: 40159995007** Collected: 10/30/17 12:49 Received: 11/02/17 07:35 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**4.1J**	mg/kg	5.9	1.2	1	11/06/17 14:04	11/07/17 19:20	7440-38-2	
Barium	**89.1**	mg/kg	0.59	0.18	1	11/06/17 14:04	11/07/17 19:20	7440-39-3	
Cadmium	**<0.16**	mg/kg	0.59	0.16	1	11/06/17 14:04	11/07/17 19:20	7440-43-9	
Chromium	**31.6**	mg/kg	1.2	0.33	1	11/06/17 14:04	11/07/17 19:20	7440-47-3	
Lead	**21.1**	mg/kg	1.5	0.51	1	11/06/17 14:04	11/07/17 19:20	7439-92-1	M0
Selenium	**<1.3**	mg/kg	5.9	1.3	1	11/06/17 14:04	11/07/17 19:20	7782-49-2	
Silver	**<0.40**	mg/kg	1.2	0.40	1	11/06/17 14:04	11/07/17 19:20	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.013**	mg/kg	0.043	0.013	1	11/08/17 06:27	11/08/17 10:04	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.0**	%	0.10	0.10	1		11/04/17 07:36		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B6 5.0-7.5 **Lab ID: 40159995008** Collected: 10/30/17 16:27 Received: 11/02/17 07:35 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**3.8J**	mg/kg	5.8	1.2	1	11/06/17 14:04	11/07/17 19:27	7440-38-2	
Barium	**74.8**	mg/kg	0.58	0.17	1	11/06/17 14:04	11/07/17 19:27	7440-39-3	
Cadmium	**<0.15**	mg/kg	0.58	0.15	1	11/06/17 14:04	11/07/17 19:27	7440-43-9	
Chromium	**26.7**	mg/kg	1.2	0.32	1	11/06/17 14:04	11/07/17 19:27	7440-47-3	
Lead	**7.5**	mg/kg	1.5	0.50	1	11/06/17 14:04	11/07/17 19:27	7439-92-1	
Selenium	**<1.3**	mg/kg	5.8	1.3	1	11/06/17 14:04	11/07/17 19:27	7782-49-2	
Silver	**<0.40**	mg/kg	1.2	0.40	1	11/06/17 14:04	11/07/17 19:27	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.013J**	mg/kg	0.043	0.013	1	11/08/17 06:27	11/08/17 10:11	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.4**	%	0.10	0.10	1		11/04/17 07:36		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B9 2.5-5.0 **Lab ID: 40159995009** Collected: 10/31/17 09:24 Received: 11/02/17 07:35 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**6.2**	mg/kg	5.4	1.1	1	11/06/17 14:04	11/07/17 19:29	7440-38-2	
Barium	**108**	mg/kg	0.54	0.16	1	11/06/17 14:04	11/07/17 19:29	7440-39-3	
Cadmium	**0.32J**	mg/kg	0.54	0.14	1	11/06/17 14:04	11/07/17 19:29	7440-43-9	
Chromium	**25.0**	mg/kg	1.1	0.30	1	11/06/17 14:04	11/07/17 19:29	7440-47-3	
Lead	**108**	mg/kg	1.4	0.47	1	11/06/17 14:04	11/07/17 19:29	7439-92-1	
Selenium	**<1.2**	mg/kg	5.4	1.2	1	11/06/17 14:04	11/07/17 19:29	7782-49-2	
Silver	**<0.37**	mg/kg	1.1	0.37	1	11/06/17 14:04	11/07/17 19:29	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.023J**	mg/kg	0.040	0.012	1	11/08/17 06:27	11/08/17 10:14	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.9**	%	0.10	0.10	1		11/04/17 07:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B11 5.0-7.5 **Lab ID: 40159995010** Collected: 10/31/17 10:37 Received: 11/02/17 07:35 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**4.4J**	mg/kg	5.5	1.2	1	11/06/17 14:04	11/07/17 19:32	7440-38-2	
Barium	**96.3**	mg/kg	0.55	0.17	1	11/06/17 14:04	11/07/17 19:32	7440-39-3	
Cadmium	**0.18J**	mg/kg	0.55	0.15	1	11/06/17 14:04	11/07/17 19:32	7440-43-9	
Chromium	**30.4**	mg/kg	1.1	0.31	1	11/06/17 14:04	11/07/17 19:32	7440-47-3	
Lead	**8.0**	mg/kg	1.4	0.48	1	11/06/17 14:04	11/07/17 19:32	7439-92-1	
Selenium	**<1.2**	mg/kg	5.5	1.2	1	11/06/17 14:04	11/07/17 19:32	7782-49-2	
Silver	**<0.38**	mg/kg	1.1	0.38	1	11/06/17 14:04	11/07/17 19:32	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.013**	mg/kg	0.043	0.013	1	11/08/17 06:27	11/08/17 10:16	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.0**	%	0.10	0.10	1		11/04/17 07:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B12 2.5-5.0 **Lab ID: 40159995011** Collected: 10/31/17 12:33 Received: 11/02/17 07:35 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**5.2J**	mg/kg	5.5	1.2	1	11/06/17 14:04	11/07/17 19:34	7440-38-2	
Barium	**86.4**	mg/kg	0.55	0.17	1	11/06/17 14:04	11/07/17 19:34	7440-39-3	
Cadmium	**<0.15**	mg/kg	0.55	0.15	1	11/06/17 14:04	11/07/17 19:34	7440-43-9	
Chromium	**28.7**	mg/kg	1.1	0.31	1	11/06/17 14:04	11/07/17 19:34	7440-47-3	
Lead	**8.2**	mg/kg	1.4	0.48	1	11/06/17 14:04	11/07/17 19:34	7439-92-1	
Selenium	**<1.2**	mg/kg	5.5	1.2	1	11/06/17 14:04	11/07/17 19:34	7782-49-2	
Silver	**<0.38**	mg/kg	1.1	0.38	1	11/06/17 14:04	11/07/17 19:34	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.013**	mg/kg	0.042	0.013	1	11/08/17 06:27	11/08/17 10:18	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.1**	%	0.10	0.10	1		11/04/17 07:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B1 0-2.5 **Lab ID: 40159995012** Collected: 10/30/17 12:30 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.6**	ug/kg	15.3	4.6	1	11/03/17 08:36	11/06/17 11:46	83-32-9	
Acenaphthylene	**4.6J**	ug/kg	13.0	3.9	1	11/03/17 08:36	11/06/17 11:46	208-96-8	
Anthracene	**14.7J**	ug/kg	22.5	6.8	1	11/03/17 08:36	11/06/17 11:46	120-12-7	
Benzo(a)anthracene	**68.6**	ug/kg	12.6	3.8	1	11/03/17 08:36	11/06/17 11:46	56-55-3	
Benzo(a)pyrene	**75.3**	ug/kg	9.9	3.0	1	11/03/17 08:36	11/06/17 11:46	50-32-8	
Benzo(b)fluoranthene	**61.7**	ug/kg	11.2	3.4	1	11/03/17 08:36	11/06/17 11:46	205-99-2	
Benzo(g,h,i)perylene	**50.2**	ug/kg	8.0	2.4	1	11/03/17 08:36	11/06/17 11:46	191-24-2	
Benzo(k)fluoranthene	**81.4**	ug/kg	9.9	3.0	1	11/03/17 08:36	11/06/17 11:46	207-08-9	
Chrysene	**86.5**	ug/kg	13.3	4.0	1	11/03/17 08:36	11/06/17 11:46	218-01-9	
Dibenz(a,h)anthracene	**16.3**	ug/kg	8.8	2.7	1	11/03/17 08:36	11/06/17 11:46	53-70-3	
Fluoranthene	**175**	ug/kg	20.6	6.2	1	11/03/17 08:36	11/06/17 11:46	206-44-0	
Fluorene	**<4.9**	ug/kg	16.4	4.9	1	11/03/17 08:36	11/06/17 11:46	86-73-7	
Indeno(1,2,3-cd)pyrene	**47.3**	ug/kg	8.7	2.6	1	11/03/17 08:36	11/06/17 11:46	193-39-5	
1-Methylnaphthalene	**86.6**	ug/kg	15.9	4.8	1	11/03/17 08:36	11/06/17 11:46	90-12-0	
2-Methylnaphthalene	**106**	ug/kg	19.8	5.9	1	11/03/17 08:36	11/06/17 11:46	91-57-6	
Naphthalene	**92.7**	ug/kg	33.3	10	1	11/03/17 08:36	11/06/17 11:46	91-20-3	
Phenanthrene	**99.4**	ug/kg	46.0	13.8	1	11/03/17 08:36	11/06/17 11:46	85-01-8	
Pyrene	**150**	ug/kg	17.8	5.4	1	11/03/17 08:36	11/06/17 11:46	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	81	%	23-106		1	11/03/17 08:36	11/06/17 11:46	321-60-8	
Terphenyl-d14 (S)	89	%	29-106		1	11/03/17 08:36	11/06/17 11:46	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.6**	%	0.10	0.10	1		11/04/17 07:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B1 2.5-5.0 **Lab ID: 40159995013** Collected: 10/30/17 12:45 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.7**	ug/kg	15.5	4.7	1	11/03/17 08:36	11/03/17 14:47	83-32-9	
Acenaphthylene	**<4.0**	ug/kg	13.2	4.0	1	11/03/17 08:36	11/03/17 14:47	208-96-8	
Anthracene	**9.3J**	ug/kg	22.8	6.8	1	11/03/17 08:36	11/03/17 14:47	120-12-7	
Benzo(a)anthracene	**24.2**	ug/kg	12.7	3.8	1	11/03/17 08:36	11/03/17 14:47	56-55-3	
Benzo(a)pyrene	**21.1**	ug/kg	10.0	3.0	1	11/03/17 08:36	11/03/17 14:47	50-32-8	
Benzo(b)fluoranthene	**22.1**	ug/kg	11.3	3.4	1	11/03/17 08:36	11/03/17 14:47	205-99-2	
Benzo(g,h,i)perylene	**8.4**	ug/kg	8.1	2.4	1	11/03/17 08:36	11/03/17 14:47	191-24-2	
Benzo(k)fluoranthene	**20.2**	ug/kg	10.0	3.0	1	11/03/17 08:36	11/03/17 14:47	207-08-9	
Chrysene	**25.1**	ug/kg	13.4	4.0	1	11/03/17 08:36	11/03/17 14:47	218-01-9	
Dibenz(a,h)anthracene	**3.1J**	ug/kg	8.9	2.7	1	11/03/17 08:36	11/03/17 14:47	53-70-3	
Fluoranthene	**65.4**	ug/kg	20.9	6.2	1	11/03/17 08:36	11/03/17 14:47	206-44-0	
Fluorene	**<5.0**	ug/kg	16.5	5.0	1	11/03/17 08:36	11/03/17 14:47	86-73-7	
Indeno(1,2,3-cd)pyrene	**8.7J**	ug/kg	8.8	2.6	1	11/03/17 08:36	11/03/17 14:47	193-39-5	
1-Methylnaphthalene	**<4.8**	ug/kg	16.1	4.8	1	11/03/17 08:36	11/03/17 14:47	90-12-0	
2-Methylnaphthalene	**<6.0**	ug/kg	20.0	6.0	1	11/03/17 08:36	11/03/17 14:47	91-57-6	
Naphthalene	**<10.1**	ug/kg	33.7	10.1	1	11/03/17 08:36	11/03/17 14:47	91-20-3	
Phenanthrene	**39.7J**	ug/kg	46.5	14.0	1	11/03/17 08:36	11/03/17 14:47	85-01-8	
Pyrene	**49.7**	ug/kg	18.0	5.4	1	11/03/17 08:36	11/03/17 14:47	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73	%	23-106		1	11/03/17 08:36	11/03/17 14:47	321-60-8	
Terphenyl-d14 (S)	80	%	29-106		1	11/03/17 08:36	11/03/17 14:47	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.6**	%	0.10	0.10	1		11/04/17 07:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B1 5.0-7.5 **Lab ID: 40159995014** Collected: 10/30/17 12:55 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.5**	ug/kg	15.1	4.5	1	11/03/17 08:36	11/03/17 15:04	83-32-9	
Acenaphthylene	**<3.9**	ug/kg	12.9	3.9	1	11/03/17 08:36	11/03/17 15:04	208-96-8	
Anthracene	**<6.7**	ug/kg	22.3	6.7	1	11/03/17 08:36	11/03/17 15:04	120-12-7	
Benzo(a)anthracene	**<3.7**	ug/kg	12.4	3.7	1	11/03/17 08:36	11/03/17 15:04	56-55-3	
Benzo(a)pyrene	**<2.9**	ug/kg	9.8	2.9	1	11/03/17 08:36	11/03/17 15:04	50-32-8	
Benzo(b)fluoranthene	**<3.3**	ug/kg	11.0	3.3	1	11/03/17 08:36	11/03/17 15:04	205-99-2	
Benzo(g,h,i)perylene	**<2.4**	ug/kg	7.9	2.4	1	11/03/17 08:36	11/03/17 15:04	191-24-2	
Benzo(k)fluoranthene	**<2.9**	ug/kg	9.8	2.9	1	11/03/17 08:36	11/03/17 15:04	207-08-9	
Chrysene	**<4.0**	ug/kg	13.1	4.0	1	11/03/17 08:36	11/03/17 15:04	218-01-9	
Dibenz(a,h)anthracene	**<2.6**	ug/kg	8.7	2.6	1	11/03/17 08:36	11/03/17 15:04	53-70-3	
Fluoranthene	**<6.1**	ug/kg	20.4	6.1	1	11/03/17 08:36	11/03/17 15:04	206-44-0	
Fluorene	**<4.9**	ug/kg	16.2	4.9	1	11/03/17 08:36	11/03/17 15:04	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.6**	ug/kg	8.6	2.6	1	11/03/17 08:36	11/03/17 15:04	193-39-5	
1-Methylnaphthalene	**<4.7**	ug/kg	15.7	4.7	1	11/03/17 08:36	11/03/17 15:04	90-12-0	
2-Methylnaphthalene	**<5.9**	ug/kg	19.6	5.9	1	11/03/17 08:36	11/03/17 15:04	91-57-6	
Naphthalene	**<9.9**	ug/kg	32.9	9.9	1	11/03/17 08:36	11/03/17 15:04	91-20-3	
Phenanthrene	**<13.7**	ug/kg	45.5	13.7	1	11/03/17 08:36	11/03/17 15:04	85-01-8	
Pyrene	**<5.3**	ug/kg	17.6	5.3	1	11/03/17 08:36	11/03/17 15:04	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	77	%	23-106		1	11/03/17 08:36	11/03/17 15:04	321-60-8	
Terphenyl-d14 (S)	90	%	29-106		1	11/03/17 08:36	11/03/17 15:04	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.8**	%	0.10	0.10	1		11/04/17 07:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B1 7.5-10.0 **Lab ID: 40159995015** Collected: 10/30/17 13:00 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.6**	ug/kg	15.3	4.6	1	11/03/17 08:36	11/03/17 15:22	83-32-9	
Acenaphthylene	**<3.9**	ug/kg	13.0	3.9	1	11/03/17 08:36	11/03/17 15:22	208-96-8	
Anthracene	**<6.8**	ug/kg	22.5	6.8	1	11/03/17 08:36	11/03/17 15:22	120-12-7	
Benzo(a)anthracene	**<3.8**	ug/kg	12.6	3.8	1	11/03/17 08:36	11/03/17 15:22	56-55-3	
Benzo(a)pyrene	**<3.0**	ug/kg	9.9	3.0	1	11/03/17 08:36	11/03/17 15:22	50-32-8	
Benzo(b)fluoranthene	**<3.3**	ug/kg	11.2	3.3	1	11/03/17 08:36	11/03/17 15:22	205-99-2	
Benzo(g,h,i)perylene	**<2.4**	ug/kg	8.0	2.4	1	11/03/17 08:36	11/03/17 15:22	191-24-2	
Benzo(k)fluoranthene	**<3.0**	ug/kg	9.9	3.0	1	11/03/17 08:36	11/03/17 15:22	207-08-9	
Chrysene	**<4.0**	ug/kg	13.3	4.0	1	11/03/17 08:36	11/03/17 15:22	218-01-9	
Dibenz(a,h)anthracene	**<2.7**	ug/kg	8.8	2.7	1	11/03/17 08:36	11/03/17 15:22	53-70-3	
Fluoranthene	**<6.2**	ug/kg	20.6	6.2	1	11/03/17 08:36	11/03/17 15:22	206-44-0	
Fluorene	**<4.9**	ug/kg	16.4	4.9	1	11/03/17 08:36	11/03/17 15:22	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.6**	ug/kg	8.7	2.6	1	11/03/17 08:36	11/03/17 15:22	193-39-5	
1-Methylnaphthalene	**<4.8**	ug/kg	15.9	4.8	1	11/03/17 08:36	11/03/17 15:22	90-12-0	
2-Methylnaphthalene	**<5.9**	ug/kg	19.8	5.9	1	11/03/17 08:36	11/03/17 15:22	91-57-6	
Naphthalene	**<10**	ug/kg	33.3	10	1	11/03/17 08:36	11/03/17 15:22	91-20-3	
Phenanthrene	**<13.8**	ug/kg	46.0	13.8	1	11/03/17 08:36	11/03/17 15:22	85-01-8	
Pyrene	**<5.4**	ug/kg	17.8	5.4	1	11/03/17 08:36	11/03/17 15:22	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68	%	23-106		1	11/03/17 08:36	11/03/17 15:22	321-60-8	
Terphenyl-d14 (S)	80	%	29-106		1	11/03/17 08:36	11/03/17 15:22	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.8**	%	0.10	0.10	1		11/04/17 07:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B2 0-2.5 **Lab ID: 40159995016** Collected: 10/30/17 13:15 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.5**	ug/kg	15.0	4.5	1	11/03/17 08:36	11/03/17 15:39	83-32-9	
Acenaphthylene	**<3.8**	ug/kg	12.8	3.8	1	11/03/17 08:36	11/03/17 15:39	208-96-8	
Anthracene	**<6.7**	ug/kg	22.1	6.7	1	11/03/17 08:36	11/03/17 15:39	120-12-7	
Benzo(a)anthracene	**<3.7**	ug/kg	12.3	3.7	1	11/03/17 08:36	11/03/17 15:39	56-55-3	
Benzo(a)pyrene	**<2.9**	ug/kg	9.8	2.9	1	11/03/17 08:36	11/03/17 15:39	50-32-8	
Benzo(b)fluoranthene	**<3.3**	ug/kg	11.0	3.3	1	11/03/17 08:36	11/03/17 15:39	205-99-2	
Benzo(g,h,i)perylene	**<2.4**	ug/kg	7.9	2.4	1	11/03/17 08:36	11/03/17 15:39	191-24-2	
Benzo(k)fluoranthene	**<2.9**	ug/kg	9.7	2.9	1	11/03/17 08:36	11/03/17 15:39	207-08-9	
Chrysene	**<3.9**	ug/kg	13.0	3.9	1	11/03/17 08:36	11/03/17 15:39	218-01-9	
Dibenz(a,h)anthracene	**<2.6**	ug/kg	8.7	2.6	1	11/03/17 08:36	11/03/17 15:39	53-70-3	
Fluoranthene	**<6.1**	ug/kg	20.3	6.1	1	11/03/17 08:36	11/03/17 15:39	206-44-0	
Fluorene	**<4.8**	ug/kg	16.1	4.8	1	11/03/17 08:36	11/03/17 15:39	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.6**	ug/kg	8.5	2.6	1	11/03/17 08:36	11/03/17 15:39	193-39-5	
1-Methylnaphthalene	**<4.7**	ug/kg	15.6	4.7	1	11/03/17 08:36	11/03/17 15:39	90-12-0	
2-Methylnaphthalene	**<5.8**	ug/kg	19.5	5.8	1	11/03/17 08:36	11/03/17 15:39	91-57-6	
Naphthalene	**<9.8**	ug/kg	32.7	9.8	1	11/03/17 08:36	11/03/17 15:39	91-20-3	
Phenanthrene	**<13.6**	ug/kg	45.2	13.6	1	11/03/17 08:36	11/03/17 15:39	85-01-8	
Pyrene	**<5.3**	ug/kg	17.5	5.3	1	11/03/17 08:36	11/03/17 15:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	75	%	23-106		1	11/03/17 08:36	11/03/17 15:39	321-60-8	
Terphenyl-d14 (S)	85	%	29-106		1	11/03/17 08:36	11/03/17 15:39	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.3**	%	0.10	0.10	1		11/04/17 13:36		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B2 2.5-5.0 **Lab ID: 40159995017** Collected: 10/30/17 13:20 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.7**	ug/kg	15.6	4.7	1	11/03/17 08:36	11/03/17 15:56	83-32-9	
Acenaphthylene	**<4.0**	ug/kg	13.3	4.0	1	11/03/17 08:36	11/03/17 15:56	208-96-8	
Anthracene	**<6.9**	ug/kg	22.9	6.9	1	11/03/17 08:36	11/03/17 15:56	120-12-7	
Benzo(a)anthracene	**<3.8**	ug/kg	12.8	3.8	1	11/03/17 08:36	11/03/17 15:56	56-55-3	
Benzo(a)pyrene	**<3.0**	ug/kg	10.1	3.0	1	11/03/17 08:36	11/03/17 15:56	50-32-8	
Benzo(b)fluoranthene	**<3.4**	ug/kg	11.4	3.4	1	11/03/17 08:36	11/03/17 15:56	205-99-2	
Benzo(g,h,i)perylene	**<2.5**	ug/kg	8.2	2.5	1	11/03/17 08:36	11/03/17 15:56	191-24-2	
Benzo(k)fluoranthene	**<3.0**	ug/kg	10.1	3.0	1	11/03/17 08:36	11/03/17 15:56	207-08-9	
Chrysene	**<4.1**	ug/kg	13.5	4.1	1	11/03/17 08:36	11/03/17 15:56	218-01-9	
Dibenz(a,h)anthracene	**<2.7**	ug/kg	9.0	2.7	1	11/03/17 08:36	11/03/17 15:56	53-70-3	
Fluoranthene	**<6.3**	ug/kg	21.0	6.3	1	11/03/17 08:36	11/03/17 15:56	206-44-0	
Fluorene	**<5.0**	ug/kg	16.7	5.0	1	11/03/17 08:36	11/03/17 15:56	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.7**	ug/kg	8.9	2.7	1	11/03/17 08:36	11/03/17 15:56	193-39-5	
1-Methylnaphthalene	**<4.9**	ug/kg	16.2	4.9	1	11/03/17 08:36	11/03/17 15:56	90-12-0	
2-Methylnaphthalene	**<6.0**	ug/kg	20.2	6.0	1	11/03/17 08:36	11/03/17 15:56	91-57-6	
Naphthalene	**<10.2**	ug/kg	33.9	10.2	1	11/03/17 08:36	11/03/17 15:56	91-20-3	
Phenanthrene	**<14.1**	ug/kg	46.9	14.1	1	11/03/17 08:36	11/03/17 15:56	85-01-8	
Pyrene	**<5.5**	ug/kg	18.1	5.5	1	11/03/17 08:36	11/03/17 15:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%	23-106		1	11/03/17 08:36	11/03/17 15:56	321-60-8	
Terphenyl-d14 (S)	94	%	29-106		1	11/03/17 08:36	11/03/17 15:56	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.1**	%	0.10	0.10	1		11/04/17 13:37		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B2 5.0-7.5 **Lab ID: 40159995018** Collected: 10/30/17 13:25 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.5**	ug/kg	15.0	4.5	1	11/03/17 08:36	11/03/17 16:14	83-32-9	
Acenaphthylene	**<3.8**	ug/kg	12.8	3.8	1	11/03/17 08:36	11/03/17 16:14	208-96-8	
Anthracene	**6.9J**	ug/kg	22.2	6.7	1	11/03/17 08:36	11/03/17 16:14	120-12-7	
Benzo(a)anthracene	**19.7**	ug/kg	12.4	3.7	1	11/03/17 08:36	11/03/17 16:14	56-55-3	
Benzo(a)pyrene	**17.1**	ug/kg	9.8	2.9	1	11/03/17 08:36	11/03/17 16:14	50-32-8	
Benzo(b)fluoranthene	**17.1**	ug/kg	11.0	3.3	1	11/03/17 08:36	11/03/17 16:14	205-99-2	
Benzo(g,h,i)perylene	**5.1J**	ug/kg	7.9	2.4	1	11/03/17 08:36	11/03/17 16:14	191-24-2	
Benzo(k)fluoranthene	**16.9**	ug/kg	9.7	2.9	1	11/03/17 08:36	11/03/17 16:14	207-08-9	
Chrysene	**22.1**	ug/kg	13.1	3.9	1	11/03/17 08:36	11/03/17 16:14	218-01-9	
Dibenz(a,h)anthracene	**<2.6**	ug/kg	8.7	2.6	1	11/03/17 08:36	11/03/17 16:14	53-70-3	
Fluoranthene	**45.1**	ug/kg	20.3	6.1	1	11/03/17 08:36	11/03/17 16:14	206-44-0	
Fluorene	**<4.8**	ug/kg	16.1	4.8	1	11/03/17 08:36	11/03/17 16:14	86-73-7	
Indeno(1,2,3-cd)pyrene	**5.4J**	ug/kg	8.5	2.6	1	11/03/17 08:36	11/03/17 16:14	193-39-5	
1-Methylnaphthalene	**<4.7**	ug/kg	15.6	4.7	1	11/03/17 08:36	11/03/17 16:14	90-12-0	
2-Methylnaphthalene	**<5.8**	ug/kg	19.5	5.8	1	11/03/17 08:36	11/03/17 16:14	91-57-6	
Naphthalene	**<9.8**	ug/kg	32.8	9.8	1	11/03/17 08:36	11/03/17 16:14	91-20-3	
Phenanthrene	**23.2J**	ug/kg	45.2	13.6	1	11/03/17 08:36	11/03/17 16:14	85-01-8	
Pyrene	**35.9**	ug/kg	17.5	5.3	1	11/03/17 08:36	11/03/17 16:14	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	74	%	23-106		1	11/03/17 08:36	11/03/17 16:14	321-60-8	
Terphenyl-d14 (S)	82	%	29-106		1	11/03/17 08:36	11/03/17 16:14	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.3**	%	0.10	0.10	1		11/04/17 13:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B2 7.5-10.0 **Lab ID: 40159995019** Collected: 10/30/17 13:30 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.4**	ug/kg	14.8	4.4	1	11/06/17 10:08	11/06/17 18:33	83-32-9	
Acenaphthylene	**<3.8**	ug/kg	12.6	3.8	1	11/06/17 10:08	11/06/17 18:33	208-96-8	
Anthracene	**<6.5**	ug/kg	21.8	6.5	1	11/06/17 10:08	11/06/17 18:33	120-12-7	
Benzo(a)anthracene	**<3.6**	ug/kg	12.1	3.6	1	11/06/17 10:08	11/06/17 18:33	56-55-3	
Benzo(a)pyrene	**<2.9**	ug/kg	9.6	2.9	1	11/06/17 10:08	11/06/17 18:33	50-32-8	
Benzo(b)fluoranthene	**<3.2**	ug/kg	10.8	3.2	1	11/06/17 10:08	11/06/17 18:33	205-99-2	
Benzo(g,h,i)perylene	**<2.3**	ug/kg	7.8	2.3	1	11/06/17 10:08	11/06/17 18:33	191-24-2	
Benzo(k)fluoranthene	**<2.9**	ug/kg	9.6	2.9	1	11/06/17 10:08	11/06/17 18:33	207-08-9	
Chrysene	**<3.9**	ug/kg	12.8	3.9	1	11/06/17 10:08	11/06/17 18:33	218-01-9	
Dibenz(a,h)anthracene	**<2.6**	ug/kg	8.5	2.6	1	11/06/17 10:08	11/06/17 18:33	53-70-3	
Fluoranthene	**<6.0**	ug/kg	19.9	6.0	1	11/06/17 10:08	11/06/17 18:33	206-44-0	
Fluorene	**<4.7**	ug/kg	15.8	4.7	1	11/06/17 10:08	11/06/17 18:33	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.5**	ug/kg	8.4	2.5	1	11/06/17 10:08	11/06/17 18:33	193-39-5	
1-Methylnaphthalene	**<4.6**	ug/kg	15.4	4.6	1	11/06/17 10:08	11/06/17 18:33	90-12-0	
2-Methylnaphthalene	**<5.7**	ug/kg	19.1	5.7	1	11/06/17 10:08	11/06/17 18:33	91-57-6	
Naphthalene	**<9.7**	ug/kg	32.2	9.7	1	11/06/17 10:08	11/06/17 18:33	91-20-3	
Phenanthrene	**<13.4**	ug/kg	44.5	13.4	1	11/06/17 10:08	11/06/17 18:33	85-01-8	
Pyrene	**<5.2**	ug/kg	17.2	5.2	1	11/06/17 10:08	11/06/17 18:33	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%	23-106		1	11/06/17 10:08	11/06/17 18:33	321-60-8	
Terphenyl-d14 (S)	75	%	29-106		1	11/06/17 10:08	11/06/17 18:33	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.0**	%	0.10	0.10	1		11/04/17 13:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B2 10-12.5 **Lab ID: 40159995020** Collected: 10/30/17 13:35 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<5.0**	ug/kg	16.6	5.0	1	11/06/17 10:08	11/06/17 17:41	83-32-9	
Acenaphthylene	**<4.2**	ug/kg	14.1	4.2	1	11/06/17 10:08	11/06/17 17:41	208-96-8	
Anthracene	**<7.3**	ug/kg	24.4	7.3	1	11/06/17 10:08	11/06/17 17:41	120-12-7	
Benzo(a)anthracene	**4.8J**	ug/kg	13.6	4.1	1	11/06/17 10:08	11/06/17 17:41	56-55-3	
Benzo(a)pyrene	**<3.2**	ug/kg	10.8	3.2	1	11/06/17 10:08	11/06/17 17:41	50-32-8	
Benzo(b)fluoranthene	**<3.6**	ug/kg	12.1	3.6	1	11/06/17 10:08	11/06/17 17:41	205-99-2	
Benzo(g,h,i)perylene	**<2.6**	ug/kg	8.7	2.6	1	11/06/17 10:08	11/06/17 17:41	191-24-2	
Benzo(k)fluoranthene	**<3.2**	ug/kg	10.7	3.2	1	11/06/17 10:08	11/06/17 17:41	207-08-9	
Chrysene	**<4.3**	ug/kg	14.4	4.3	1	11/06/17 10:08	11/06/17 17:41	218-01-9	
Dibenz(a,h)anthracene	**<2.9**	ug/kg	9.6	2.9	1	11/06/17 10:08	11/06/17 17:41	53-70-3	
Fluoranthene	**<6.7**	ug/kg	22.4	6.7	1	11/06/17 10:08	11/06/17 17:41	206-44-0	
Fluorene	**<5.3**	ug/kg	17.7	5.3	1	11/06/17 10:08	11/06/17 17:41	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.8**	ug/kg	9.4	2.8	1	11/06/17 10:08	11/06/17 17:41	193-39-5	
1-Methylnaphthalene	**<5.2**	ug/kg	17.2	5.2	1	11/06/17 10:08	11/06/17 17:41	90-12-0	
2-Methylnaphthalene	**<6.4**	ug/kg	21.5	6.4	1	11/06/17 10:08	11/06/17 17:41	91-57-6	
Naphthalene	**<10.8**	ug/kg	36.1	10.8	1	11/06/17 10:08	11/06/17 17:41	91-20-3	
Phenanthrene	**<15.0**	ug/kg	49.9	15.0	1	11/06/17 10:08	11/06/17 17:41	85-01-8	
Pyrene	**<5.8**	ug/kg	19.3	5.8	1	11/06/17 10:08	11/06/17 17:41	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	82	%	23-106		1	11/06/17 10:08	11/06/17 17:41	321-60-8	
Terphenyl-d14 (S)	71	%	29-106		1	11/06/17 10:08	11/06/17 17:41	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.1**	%	0.10	0.10	1		11/04/17 13:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B2 12.5-15.0 **Lab ID: 40159995021** Collected: 10/30/17 13:40 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<5.0**	ug/kg	16.7	5.0	1	11/06/17 10:08	11/06/17 18:50	83-32-9	
Acenaphthylene	**<4.3**	ug/kg	14.2	4.3	1	11/06/17 10:08	11/06/17 18:50	208-96-8	
Anthracene	**10.8J**	ug/kg	24.5	7.4	1	11/06/17 10:08	11/06/17 18:50	120-12-7	
Benzo(a)anthracene	**23.7**	ug/kg	13.7	4.1	1	11/06/17 10:08	11/06/17 18:50	56-55-3	
Benzo(a)pyrene	**13.8**	ug/kg	10.8	3.2	1	11/06/17 10:08	11/06/17 18:50	50-32-8	
Benzo(b)fluoranthene	**18.4**	ug/kg	12.2	3.6	1	11/06/17 10:08	11/06/17 18:50	205-99-2	
Benzo(g,h,i)perylene	**5.0J**	ug/kg	8.7	2.6	1	11/06/17 10:08	11/06/17 18:50	191-24-2	
Benzo(k)fluoranthene	**8.4J**	ug/kg	10.8	3.2	1	11/06/17 10:08	11/06/17 18:50	207-08-9	
Chrysene	**19.1**	ug/kg	14.5	4.4	1	11/06/17 10:08	11/06/17 18:50	218-01-9	
Dibenz(a,h)anthracene	**<2.9**	ug/kg	9.6	2.9	1	11/06/17 10:08	11/06/17 18:50	53-70-3	
Fluoranthene	**54.1**	ug/kg	22.5	6.7	1	11/06/17 10:08	11/06/17 18:50	206-44-0	
Fluorene	**<5.3**	ug/kg	17.8	5.3	1	11/06/17 10:08	11/06/17 18:50	86-73-7	
Indeno(1,2,3-cd)pyrene	**5.4J**	ug/kg	9.5	2.8	1	11/06/17 10:08	11/06/17 18:50	193-39-5	
1-Methylnaphthalene	**<5.2**	ug/kg	17.3	5.2	1	11/06/17 10:08	11/06/17 18:50	90-12-0	
2-Methylnaphthalene	**<6.5**	ug/kg	21.6	6.5	1	11/06/17 10:08	11/06/17 18:50	91-57-6	
Naphthalene	**<10.9**	ug/kg	36.3	10.9	1	11/06/17 10:08	11/06/17 18:50	91-20-3	
Phenanthrene	**37.6J**	ug/kg	50.1	15.0	1	11/06/17 10:08	11/06/17 18:50	85-01-8	
Pyrene	**37.3**	ug/kg	19.4	5.8	1	11/06/17 10:08	11/06/17 18:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	60	%	23-106		1	11/06/17 10:08	11/06/17 18:50	321-60-8	
Terphenyl-d14 (S)	70	%	29-106		1	11/06/17 10:08	11/06/17 18:50	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.5**	%	0.10	0.10	1		11/06/17 13:47		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B2 15.0-17.5 **Lab ID: 40159995022** Collected: 10/30/17 13:45 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.6**	ug/kg	15.4	4.6	1	11/06/17 10:08	11/06/17 19:07	83-32-9	
Acenaphthylene	**<3.9**	ug/kg	13.2	3.9	1	11/06/17 10:08	11/06/17 19:07	208-96-8	
Anthracene	**<6.8**	ug/kg	22.7	6.8	1	11/06/17 10:08	11/06/17 19:07	120-12-7	
Benzo(a)anthracene	**<3.8**	ug/kg	12.7	3.8	1	11/06/17 10:08	11/06/17 19:07	56-55-3	
Benzo(a)pyrene	**3.1J**	ug/kg	10.0	3.0	1	11/06/17 10:08	11/06/17 19:07	50-32-8	
Benzo(b)fluoranthene	**3.8J**	ug/kg	11.3	3.4	1	11/06/17 10:08	11/06/17 19:07	205-99-2	
Benzo(g,h,i)perylene	**<2.4**	ug/kg	8.1	2.4	1	11/06/17 10:08	11/06/17 19:07	191-24-2	
Benzo(k)fluoranthene	**<3.0**	ug/kg	10	3.0	1	11/06/17 10:08	11/06/17 19:07	207-08-9	
Chrysene	**<4.0**	ug/kg	13.4	4.0	1	11/06/17 10:08	11/06/17 19:07	218-01-9	
Dibenz(a,h)anthracene	**<2.7**	ug/kg	8.9	2.7	1	11/06/17 10:08	11/06/17 19:07	53-70-3	
Fluoranthene	**8.2J**	ug/kg	20.8	6.2	1	11/06/17 10:08	11/06/17 19:07	206-44-0	
Fluorene	**<4.9**	ug/kg	16.5	4.9	1	11/06/17 10:08	11/06/17 19:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.6**	ug/kg	8.8	2.6	1	11/06/17 10:08	11/06/17 19:07	193-39-5	
1-Methylnaphthalene	**<4.8**	ug/kg	16.0	4.8	1	11/06/17 10:08	11/06/17 19:07	90-12-0	
2-Methylnaphthalene	**<6.0**	ug/kg	20.0	6.0	1	11/06/17 10:08	11/06/17 19:07	91-57-6	
Naphthalene	**<10.1**	ug/kg	33.6	10.1	1	11/06/17 10:08	11/06/17 19:07	91-20-3	
Phenanthrene	**<13.9**	ug/kg	46.4	13.9	1	11/06/17 10:08	11/06/17 19:07	85-01-8	
Pyrene	**7.2J**	ug/kg	17.9	5.4	1	11/06/17 10:08	11/06/17 19:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	76	%	23-106		1	11/06/17 10:08	11/06/17 19:07	321-60-8	
Terphenyl-d14 (S)	78	%	29-106		1	11/06/17 10:08	11/06/17 19:07	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.5**	%	0.10	0.10	1		11/06/17 13:47		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B2 17.5-20.0 **Lab ID: 40159995023** Collected: 10/30/17 13:50 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<5.1**	ug/kg	17.0	5.1	1	11/06/17 10:08	11/06/17 19:24	83-32-9	
Acenaphthylene	**<4.3**	ug/kg	14.5	4.3	1	11/06/17 10:08	11/06/17 19:24	208-96-8	
Anthracene	**<7.5**	ug/kg	25.0	7.5	1	11/06/17 10:08	11/06/17 19:24	120-12-7	
Benzo(a)anthracene	**<4.2**	ug/kg	14.0	4.2	1	11/06/17 10:08	11/06/17 19:24	56-55-3	
Benzo(a)pyrene	**<3.3**	ug/kg	11.0	3.3	1	11/06/17 10:08	11/06/17 19:24	50-32-8	
Benzo(b)fluoranthene	**<3.7**	ug/kg	12.4	3.7	1	11/06/17 10:08	11/06/17 19:24	205-99-2	
Benzo(g,h,i)perylene	**<2.7**	ug/kg	8.9	2.7	1	11/06/17 10:08	11/06/17 19:24	191-24-2	
Benzo(k)fluoranthene	**<3.3**	ug/kg	11.0	3.3	1	11/06/17 10:08	11/06/17 19:24	207-08-9	
Chrysene	**<4.4**	ug/kg	14.8	4.4	1	11/06/17 10:08	11/06/17 19:24	218-01-9	
Dibenz(a,h)anthracene	**<2.9**	ug/kg	9.8	2.9	1	11/06/17 10:08	11/06/17 19:24	53-70-3	
Fluoranthene	**<6.9**	ug/kg	22.9	6.9	1	11/06/17 10:08	11/06/17 19:24	206-44-0	
Fluorene	**<5.5**	ug/kg	18.2	5.5	1	11/06/17 10:08	11/06/17 19:24	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.9**	ug/kg	9.7	2.9	1	11/06/17 10:08	11/06/17 19:24	193-39-5	
1-Methylnaphthalene	**<5.3**	ug/kg	17.7	5.3	1	11/06/17 10:08	11/06/17 19:24	90-12-0	
2-Methylnaphthalene	**<6.6**	ug/kg	22.0	6.6	1	11/06/17 10:08	11/06/17 19:24	91-57-6	
Naphthalene	**<11.1**	ug/kg	37.0	11.1	1	11/06/17 10:08	11/06/17 19:24	91-20-3	
Phenanthrene	**<15.4**	ug/kg	51.1	15.4	1	11/06/17 10:08	11/06/17 19:24	85-01-8	
Pyrene	**<5.9**	ug/kg	19.8	5.9	1	11/06/17 10:08	11/06/17 19:24	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%	23-106		1	11/06/17 10:08	11/06/17 19:24	321-60-8	
Terphenyl-d14 (S)	64	%	29-106		1	11/06/17 10:08	11/06/17 19:24	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**24.2**	%	0.10	0.10	1		11/06/17 13:47		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B3 0-2.5 **Lab ID: 40159995024** Collected: 10/30/17 14:00 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**89.0J**	ug/kg	158	47.7	10	11/06/17 10:08	11/07/17 13:48	83-32-9	
Acenaphthylene	**86.7J**	ug/kg	135	40.5	10	11/06/17 10:08	11/07/17 13:48	208-96-8	
Anthracene	**360**	ug/kg	233	70.1	10	11/06/17 10:08	11/07/17 13:48	120-12-7	
Benzo(a)anthracene	**1270**	ug/kg	130	38.9	10	11/06/17 10:08	11/07/17 13:48	56-55-3	
Benzo(a)pyrene	**1240**	ug/kg	103	30.9	10	11/06/17 10:08	11/07/17 13:48	50-32-8	
Benzo(b)fluoranthene	**1090**	ug/kg	116	34.7	10	11/06/17 10:08	11/07/17 13:48	205-99-2	
Benzo(g,h,i)perylene	**744**	ug/kg	83.1	25.0	10	11/06/17 10:08	11/07/17 13:48	191-24-2	
Benzo(k)fluoranthene	**1240**	ug/kg	103	30.8	10	11/06/17 10:08	11/07/17 13:48	207-08-9	
Chrysene	**1530**	ug/kg	138	41.4	10	11/06/17 10:08	11/07/17 13:48	218-01-9	
Dibenz(a,h)anthracene	**240**	ug/kg	91.5	27.5	10	11/06/17 10:08	11/07/17 13:48	53-70-3	
Fluoranthene	**3200**	ug/kg	214	64.0	10	11/06/17 10:08	11/07/17 13:48	206-44-0	
Fluorene	**196**	ug/kg	169	50.8	10	11/06/17 10:08	11/07/17 13:48	86-73-7	
Indeno(1,2,3-cd)pyrene	**720**	ug/kg	90.0	27.0	10	11/06/17 10:08	11/07/17 13:48	193-39-5	
1-Methylnaphthalene	**179**	ug/kg	165	49.4	10	11/06/17 10:08	11/07/17 13:48	90-12-0	
2-Methylnaphthalene	**232**	ug/kg	205	61.4	10	11/06/17 10:08	11/07/17 13:48	91-57-6	
Naphthalene	**135J**	ug/kg	345	103	10	11/06/17 10:08	11/07/17 13:48	91-20-3	
Phenanthrene	**1560**	ug/kg	477	143	10	11/06/17 10:08	11/07/17 13:48	85-01-8	
Pyrene	**2600**	ug/kg	184	55.4	10	11/06/17 10:08	11/07/17 13:48	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	57	%	23-106		10	11/06/17 10:08	11/07/17 13:48	321-60-8	
Terphenyl-d14 (S)	60	%	29-106		10	11/06/17 10:08	11/07/17 13:48	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.6**	%	0.10	0.10	1		11/06/17 13:47		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B3 2.5-5.0 **Lab ID: 40159995025** Collected: 10/30/17 14:05 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<48.4**	ug/kg	161	48.4	10	11/06/17 10:08	11/07/17 16:33	83-32-9	
Acenaphthylene	**145**	ug/kg	137	41.1	10	11/06/17 10:08	11/07/17 16:33	208-96-8	
Anthracene	**324**	ug/kg	237	71.3	10	11/06/17 10:08	11/07/17 16:33	120-12-7	
Benzo(a)anthracene	**1320**	ug/kg	132	39.6	10	11/06/17 10:08	11/07/17 16:33	56-55-3	
Benzo(a)pyrene	**1210**	ug/kg	104	31.3	10	11/06/17 10:08	11/07/17 16:33	50-32-8	
Benzo(b)fluoranthene	**1520**	ug/kg	117	35.2	10	11/06/17 10:08	11/07/17 16:33	205-99-2	
Benzo(g,h,i)perylene	**577**	ug/kg	84.5	25.4	10	11/06/17 10:08	11/07/17 16:33	191-24-2	
Benzo(k)fluoranthene	**689**	ug/kg	104	31.3	10	11/06/17 10:08	11/07/17 16:33	207-08-9	
Chrysene	**1250**	ug/kg	140	42.1	10	11/06/17 10:08	11/07/17 16:33	218-01-9	
Dibenz(a,h)anthracene	**177**	ug/kg	92.9	27.9	10	11/06/17 10:08	11/07/17 16:33	53-70-3	
Fluoranthene	**2540**	ug/kg	217	65.0	10	11/06/17 10:08	11/07/17 16:33	206-44-0	
Fluorene	**<51.6**	ug/kg	172	51.6	10	11/06/17 10:08	11/07/17 16:33	86-73-7	
Indeno(1,2,3-cd)pyrene	**586**	ug/kg	91.5	27.4	10	11/06/17 10:08	11/07/17 16:33	193-39-5	
1-Methylnaphthalene	**<50.2**	ug/kg	167	50.2	10	11/06/17 10:08	11/07/17 16:33	90-12-0	
2-Methylnaphthalene	**<62.4**	ug/kg	208	62.4	10	11/06/17 10:08	11/07/17 16:33	91-57-6	
Naphthalene	**<105**	ug/kg	351	105	10	11/06/17 10:08	11/07/17 16:33	91-20-3	
Phenanthrene	**759**	ug/kg	484	145	10	11/06/17 10:08	11/07/17 16:33	85-01-8	
Pyrene	**2300**	ug/kg	187	56.3	10	11/06/17 10:08	11/07/17 16:33	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%	23-106		10	11/06/17 10:08	11/07/17 16:33	321-60-8	
Terphenyl-d14 (S)	74	%	29-106		10	11/06/17 10:08	11/07/17 16:33	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.9**	%	0.10	0.10	1		11/06/17 13:47		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B3 5.0-7.5 **Lab ID: 40159995026** Collected: 10/30/17 14:10 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.6**	ug/kg	15.1	4.6	1	11/06/17 10:08	11/06/17 19:41	83-32-9	
Acenaphthylene	**<3.9**	ug/kg	12.9	3.9	1	11/06/17 10:08	11/06/17 19:41	208-96-8	
Anthracene	**<6.7**	ug/kg	22.3	6.7	1	11/06/17 10:08	11/06/17 19:41	120-12-7	
Benzo(a)anthracene	**3.8J**	ug/kg	12.4	3.7	1	11/06/17 10:08	11/06/17 19:41	56-55-3	
Benzo(a)pyrene	**4.0J**	ug/kg	9.8	2.9	1	11/06/17 10:08	11/06/17 19:41	50-32-8	
Benzo(b)fluoranthene	**5.3J**	ug/kg	11.0	3.3	1	11/06/17 10:08	11/06/17 19:41	205-99-2	
Benzo(g,h,i)perylene	**<2.4**	ug/kg	7.9	2.4	1	11/06/17 10:08	11/06/17 19:41	191-24-2	
Benzo(k)fluoranthene	**<2.9**	ug/kg	9.8	2.9	1	11/06/17 10:08	11/06/17 19:41	207-08-9	
Chrysene	**4.7J**	ug/kg	13.1	4.0	1	11/06/17 10:08	11/06/17 19:41	218-01-9	
Dibenz(a,h)anthracene	**<2.6**	ug/kg	8.7	2.6	1	11/06/17 10:08	11/06/17 19:41	53-70-3	
Fluoranthene	**10.3J**	ug/kg	20.4	6.1	1	11/06/17 10:08	11/06/17 19:41	206-44-0	
Fluorene	**<4.9**	ug/kg	16.2	4.9	1	11/06/17 10:08	11/06/17 19:41	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.6**	ug/kg	8.6	2.6	1	11/06/17 10:08	11/06/17 19:41	193-39-5	
1-Methylnaphthalene	**<4.7**	ug/kg	15.7	4.7	1	11/06/17 10:08	11/06/17 19:41	90-12-0	
2-Methylnaphthalene	**<5.9**	ug/kg	19.6	5.9	1	11/06/17 10:08	11/06/17 19:41	91-57-6	
Naphthalene	**<9.9**	ug/kg	33.0	9.9	1	11/06/17 10:08	11/06/17 19:41	91-20-3	
Phenanthrene	**<13.7**	ug/kg	45.5	13.7	1	11/06/17 10:08	11/06/17 19:41	85-01-8	
Pyrene	**7.9J**	ug/kg	17.6	5.3	1	11/06/17 10:08	11/06/17 19:41	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	85	%	23-106		1	11/06/17 10:08	11/06/17 19:41	321-60-8	
Terphenyl-d14 (S)	83	%	29-106		1	11/06/17 10:08	11/06/17 19:41	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.9**	%	0.10	0.10	1		11/06/17 13:48		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B3 7.5-10.0 **Lab ID: 40159995027** Collected: 10/30/17 14:15 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.6**	ug/kg	15.2	4.6	1	11/06/17 10:08	11/07/17 16:50	83-32-9	
Acenaphthylene	**<3.9**	ug/kg	13.0	3.9	1	11/06/17 10:08	11/07/17 16:50	208-96-8	
Anthracene	**<6.7**	ug/kg	22.4	6.7	1	11/06/17 10:08	11/07/17 16:50	120-12-7	
Benzo(a)anthracene	**<3.7**	ug/kg	12.5	3.7	1	11/06/17 10:08	11/07/17 16:50	56-55-3	
Benzo(a)pyrene	**<3.0**	ug/kg	9.9	3.0	1	11/06/17 10:08	11/07/17 16:50	50-32-8	
Benzo(b)fluoranthene	**<3.3**	ug/kg	11.1	3.3	1	11/06/17 10:08	11/07/17 16:50	205-99-2	
Benzo(g,h,i)perylene	**<2.4**	ug/kg	8.0	2.4	1	11/06/17 10:08	11/07/17 16:50	191-24-2	
Benzo(k)fluoranthene	**<3.0**	ug/kg	9.9	3.0	1	11/06/17 10:08	11/07/17 16:50	207-08-9	
Chrysene	**<4.0**	ug/kg	13.2	4.0	1	11/06/17 10:08	11/07/17 16:50	218-01-9	
Dibenz(a,h)anthracene	**<2.6**	ug/kg	8.8	2.6	1	11/06/17 10:08	11/07/17 16:50	53-70-3	
Fluoranthene	**<6.1**	ug/kg	20.5	6.1	1	11/06/17 10:08	11/07/17 16:50	206-44-0	
Fluorene	**<4.9**	ug/kg	16.3	4.9	1	11/06/17 10:08	11/07/17 16:50	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.6**	ug/kg	8.6	2.6	1	11/06/17 10:08	11/07/17 16:50	193-39-5	
1-Methylnaphthalene	**<4.7**	ug/kg	15.8	4.7	1	11/06/17 10:08	11/07/17 16:50	90-12-0	
2-Methylnaphthalene	**<5.9**	ug/kg	19.7	5.9	1	11/06/17 10:08	11/07/17 16:50	91-57-6	
Naphthalene	**<9.9**	ug/kg	33.1	9.9	1	11/06/17 10:08	11/07/17 16:50	91-20-3	
Phenanthrene	**<13.7**	ug/kg	45.7	13.7	1	11/06/17 10:08	11/07/17 16:50	85-01-8	
Pyrene	**<5.3**	ug/kg	17.7	5.3	1	11/06/17 10:08	11/07/17 16:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	75	%	23-106		1	11/06/17 10:08	11/07/17 16:50	321-60-8	
Terphenyl-d14 (S)	85	%	29-106		1	11/06/17 10:08	11/07/17 16:50	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.1**	%	0.10	0.10	1		11/06/17 13:48		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B3 10-12.5 **Lab ID: 40159995028** Collected: 10/30/17 14:20 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.5**	ug/kg	14.9	4.5	1	11/06/17 10:08	11/07/17 17:07	83-32-9	
Acenaphthylene	**<3.8**	ug/kg	12.7	3.8	1	11/06/17 10:08	11/07/17 17:07	208-96-8	
Anthracene	**<6.6**	ug/kg	22.0	6.6	1	11/06/17 10:08	11/07/17 17:07	120-12-7	
Benzo(a)anthracene	**<3.7**	ug/kg	12.3	3.7	1	11/06/17 10:08	11/07/17 17:07	56-55-3	
Benzo(a)pyrene	**<2.9**	ug/kg	9.7	2.9	1	11/06/17 10:08	11/07/17 17:07	50-32-8	
Benzo(b)fluoranthene	**<3.3**	ug/kg	10.9	3.3	1	11/06/17 10:08	11/07/17 17:07	205-99-2	
Benzo(g,h,i)perylene	**<2.4**	ug/kg	7.8	2.4	1	11/06/17 10:08	11/07/17 17:07	191-24-2	
Benzo(k)fluoranthene	**<2.9**	ug/kg	9.7	2.9	1	11/06/17 10:08	11/07/17 17:07	207-08-9	
Chrysene	**<3.9**	ug/kg	13.0	3.9	1	11/06/17 10:08	11/07/17 17:07	218-01-9	
Dibenz(a,h)anthracene	**<2.6**	ug/kg	8.6	2.6	1	11/06/17 10:08	11/07/17 17:07	53-70-3	
Fluoranthene	**<6.0**	ug/kg	20.1	6.0	1	11/06/17 10:08	11/07/17 17:07	206-44-0	
Fluorene	**<4.8**	ug/kg	16.0	4.8	1	11/06/17 10:08	11/07/17 17:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.5**	ug/kg	8.5	2.5	1	11/06/17 10:08	11/07/17 17:07	193-39-5	
1-Methylnaphthalene	**<4.7**	ug/kg	15.5	4.7	1	11/06/17 10:08	11/07/17 17:07	90-12-0	
2-Methylnaphthalene	**<5.8**	ug/kg	19.3	5.8	1	11/06/17 10:08	11/07/17 17:07	91-57-6	
Naphthalene	**<9.7**	ug/kg	32.5	9.7	1	11/06/17 10:08	11/07/17 17:07	91-20-3	
Phenanthrene	**<13.5**	ug/kg	44.9	13.5	1	11/06/17 10:08	11/07/17 17:07	85-01-8	
Pyrene	**<5.2**	ug/kg	17.4	5.2	1	11/06/17 10:08	11/07/17 17:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	75	%	23-106		1	11/06/17 10:08	11/07/17 17:07	321-60-8	
Terphenyl-d14 (S)	93	%	29-106		1	11/06/17 10:08	11/07/17 17:07	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.8**	%	0.10	0.10	1		11/06/17 13:48		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B3 12.5-15.0 **Lab ID: 40159995029** Collected: 10/30/17 14:25 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.5**	ug/kg	15.1	4.5	1	11/06/17 10:08	11/07/17 17:24	83-32-9	
Acenaphthylene	**<3.9**	ug/kg	12.9	3.9	1	11/06/17 10:08	11/07/17 17:24	208-96-8	
Anthracene	**<6.7**	ug/kg	22.3	6.7	1	11/06/17 10:08	11/07/17 17:24	120-12-7	
Benzo(a)anthracene	**<3.7**	ug/kg	12.4	3.7	1	11/06/17 10:08	11/07/17 17:24	56-55-3	
Benzo(a)pyrene	**<2.9**	ug/kg	9.8	2.9	1	11/06/17 10:08	11/07/17 17:24	50-32-8	
Benzo(b)fluoranthene	**3.6J**	ug/kg	11.0	3.3	1	11/06/17 10:08	11/07/17 17:24	205-99-2	
Benzo(g,h,i)perylene	**<2.4**	ug/kg	7.9	2.4	1	11/06/17 10:08	11/07/17 17:24	191-24-2	
Benzo(k)fluoranthene	**<2.9**	ug/kg	9.8	2.9	1	11/06/17 10:08	11/07/17 17:24	207-08-9	
Chrysene	**<4.0**	ug/kg	13.1	4.0	1	11/06/17 10:08	11/07/17 17:24	218-01-9	
Dibenz(a,h)anthracene	**<2.6**	ug/kg	8.7	2.6	1	11/06/17 10:08	11/07/17 17:24	53-70-3	
Fluoranthene	**<6.1**	ug/kg	20.4	6.1	1	11/06/17 10:08	11/07/17 17:24	206-44-0	
Fluorene	**<4.8**	ug/kg	16.2	4.8	1	11/06/17 10:08	11/07/17 17:24	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.6**	ug/kg	8.6	2.6	1	11/06/17 10:08	11/07/17 17:24	193-39-5	
1-Methylnaphthalene	**<4.7**	ug/kg	15.7	4.7	1	11/06/17 10:08	11/07/17 17:24	90-12-0	
2-Methylnaphthalene	**<5.9**	ug/kg	19.6	5.9	1	11/06/17 10:08	11/07/17 17:24	91-57-6	
Naphthalene	**<9.9**	ug/kg	32.9	9.9	1	11/06/17 10:08	11/07/17 17:24	91-20-3	
Phenanthrene	**<13.6**	ug/kg	45.5	13.6	1	11/06/17 10:08	11/07/17 17:24	85-01-8	
Pyrene	**<5.3**	ug/kg	17.6	5.3	1	11/06/17 10:08	11/07/17 17:24	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	81	%	23-106		1	11/06/17 10:08	11/07/17 17:24	321-60-8	
Terphenyl-d14 (S)	89	%	29-106		1	11/06/17 10:08	11/07/17 17:24	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.5**	%	0.10	0.10	1		11/06/17 13:48		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B4 0-2.5 **Lab ID: 40159995030** Collected: 10/30/17 14:45 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**10.1J**	ug/kg	22.3	1.8	10	11/06/17 08:06	11/07/17 02:11	83-32-9	M6
Acenaphthylene	**9.1J**	ug/kg	22.3	1.7	10	11/06/17 08:06	11/07/17 02:11	208-96-8	
Anthracene	**72.8**	ug/kg	22.3	2.4	10	11/06/17 08:06	11/07/17 02:11	120-12-7	M6
Benzo(a)anthracene	**346**	ug/kg	89.0	15.6	40	11/06/17 08:06	11/07/17 17:19	56-55-3	M6
Benzo(a)pyrene	**326**	ug/kg	89.0	21.4	40	11/06/17 08:06	11/07/17 17:19	50-32-8	M6
Benzo(b)fluoranthene	**282**	ug/kg	27.8	3.9	10	11/06/17 08:06	11/07/17 02:11	205-99-2	M6
Benzo(g,h,i)perylene	**206**	ug/kg	27.8	7.2	10	11/06/17 08:06	11/07/17 02:11	191-24-2	M6
Benzo(k)fluoranthene	**280**	ug/kg	27.8	2.7	10	11/06/17 08:06	11/07/17 02:11	207-08-9	M6
Chrysene	**350**	ug/kg	111	7.1	40	11/06/17 08:06	11/07/17 17:19	218-01-9	M6
Dibenz(a,h)anthracene	**66.4**	ug/kg	27.8	8.3	10	11/06/17 08:06	11/07/17 02:11	53-70-3	M6
Fluoranthene	**669**	ug/kg	89.0	13.4	40	11/06/17 08:06	11/07/17 17:19	206-44-0	M6
Fluorene	**11.2J**	ug/kg	22.3	1.9	10	11/06/17 08:06	11/07/17 02:11	86-73-7	M6
Indeno(1,2,3-cd)pyrene	**194**	ug/kg	22.3	7.0	10	11/06/17 08:06	11/07/17 02:11	193-39-5	M6
1-Methylnaphthalene	**8.6J**	ug/kg	22.3	2.1	10	11/06/17 08:06	11/07/17 02:11	90-12-0	M6,N2
2-Methylnaphthalene	**8.5J**	ug/kg	22.3	2.3	10	11/06/17 08:06	11/07/17 02:11	91-57-6	
Naphthalene	**18.9J**	ug/kg	22.3	2.8	10	11/06/17 08:06	11/07/17 02:11	91-20-3	B,ED
Phenanthrene	**281**	ug/kg	22.3	2.8	10	11/06/17 08:06	11/07/17 02:11	85-01-8	M6
Pyrene	**619**	ug/kg	89.0	12.0	40	11/06/17 08:06	11/07/17 17:19	129-00-0	M6
Surrogates									
Fluoranthene-d10 (S)	86	%.	50-150		10	11/06/17 08:06	11/07/17 02:11	93951-69-0	
2-Methylnaphthalene-d10 (S)	86	%.	50-150		10	11/06/17 08:06	11/07/17 02:11	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**10.1**	%	0.10	0.10	1		11/06/17 14:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B4 2.5-5.0 **Lab ID: 40159995031** Collected: 10/30/17 14:50 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**16.6J**	ug/kg	23.7	1.9	10	11/06/17 08:06	11/07/17 02:43	83-32-9	
Acenaphthylene	**7.7J**	ug/kg	23.7	1.8	10	11/06/17 08:06	11/07/17 02:43	208-96-8	
Anthracene	**113**	ug/kg	23.7	2.6	10	11/06/17 08:06	11/07/17 02:43	120-12-7	
Benzo(a)anthracene	**618**	ug/kg	119	20.8	50	11/06/17 08:06	11/07/17 17:51	56-55-3	
Benzo(a)pyrene	**497**	ug/kg	119	28.5	50	11/06/17 08:06	11/07/17 17:51	50-32-8	
Benzo(b)fluoranthene	**495**	ug/kg	148	20.8	50	11/06/17 08:06	11/07/17 17:51	205-99-2	
Benzo(g,h,i)perylene	**324**	ug/kg	148	38.6	50	11/06/17 08:06	11/07/17 17:51	191-24-2	
Benzo(k)fluoranthene	**488**	ug/kg	148	14.2	50	11/06/17 08:06	11/07/17 17:51	207-08-9	
Chrysene	**638**	ug/kg	148	9.5	50	11/06/17 08:06	11/07/17 17:51	218-01-9	
Dibenz(a,h)anthracene	**105**	ug/kg	29.7	8.9	10	11/06/17 08:06	11/07/17 02:43	53-70-3	
Fluoranthene	**1330**	ug/kg	119	17.8	50	11/06/17 08:06	11/07/17 17:51	206-44-0	
Fluorene	**20.2J**	ug/kg	23.7	2.0	10	11/06/17 08:06	11/07/17 02:43	86-73-7	
Indeno(1,2,3-cd)pyrene	**302**	ug/kg	23.7	7.5	10	11/06/17 08:06	11/07/17 02:43	193-39-5	
1-Methylnaphthalene	**13.3J**	ug/kg	23.7	2.3	10	11/06/17 08:06	11/07/17 02:43	90-12-0	N2
2-Methylnaphthalene	**10.1J**	ug/kg	23.7	2.5	10	11/06/17 08:06	11/07/17 02:43	91-57-6	
Naphthalene	**15.3J**	ug/kg	23.7	3.0	10	11/06/17 08:06	11/07/17 02:43	91-20-3	B,ED
Phenanthrene	**374**	ug/kg	119	14.8	50	11/06/17 08:06	11/07/17 17:51	85-01-8	
Pyrene	**1120**	ug/kg	119	16.0	50	11/06/17 08:06	11/07/17 17:51	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	74	%.	50-150		10	11/06/17 08:06	11/07/17 02:43	93951-69-0	
2-Methylnaphthalene-d10 (S)	86	%.	50-150		10	11/06/17 08:06	11/07/17 02:43	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**12.5**	%	0.10	0.10	1		11/06/17 14:40		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B5 0-2.5 **Lab ID: 40159995032** Collected: 10/30/17 14:55 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**14.9**	ug/kg	11.8	0.94	5	11/06/17 08:06	11/07/17 22:41	83-32-9	
Acenaphthylene	**3.4J**	ug/kg	11.8	0.89	5	11/06/17 08:06	11/07/17 22:41	208-96-8	
Anthracene	**62.5**	ug/kg	11.8	1.3	5	11/06/17 08:06	11/07/17 22:41	120-12-7	
Benzo(a)anthracene	**172**	ug/kg	47.2	8.3	20	11/06/17 08:06	11/07/17 19:27	56-55-3	
Benzo(a)pyrene	**152**	ug/kg	47.2	11.3	20	11/06/17 08:06	11/07/17 19:27	50-32-8	
Benzo(b)fluoranthene	**156**	ug/kg	14.8	2.1	5	11/06/17 08:06	11/07/17 22:41	205-99-2	
Benzo(g,h,i)perylene	**117**	ug/kg	14.8	3.8	5	11/06/17 08:06	11/07/17 22:41	191-24-2	
Benzo(k)fluoranthene	**143**	ug/kg	14.8	1.4	5	11/06/17 08:06	11/07/17 22:41	207-08-9	
Chrysene	**172**	ug/kg	59.1	3.8	20	11/06/17 08:06	11/07/17 19:27	218-01-9	
Dibenz(a,h)anthracene	**39.5**	ug/kg	14.8	4.4	5	11/06/17 08:06	11/07/17 22:41	53-70-3	
Fluoranthene	**349**	ug/kg	47.2	7.1	20	11/06/17 08:06	11/07/17 19:27	206-44-0	
Fluorene	**14.2**	ug/kg	11.8	1.0	5	11/06/17 08:06	11/07/17 22:41	86-73-7	
Indeno(1,2,3-cd)pyrene	**106**	ug/kg	11.8	3.7	5	11/06/17 08:06	11/07/17 22:41	193-39-5	
1-Methylnaphthalene	**5.4J**	ug/kg	11.8	1.1	5	11/06/17 08:06	11/07/17 22:41	90-12-0	N2
2-Methylnaphthalene	**4.1J**	ug/kg	11.8	1.2	5	11/06/17 08:06	11/07/17 22:41	91-57-6	
Naphthalene	**9.7J**	ug/kg	11.8	1.5	5	11/06/17 08:06	11/07/17 22:41	91-20-3	B,ED
Phenanthrene	**168**	ug/kg	47.2	5.9	20	11/06/17 08:06	11/07/17 19:27	85-01-8	
Pyrene	**317**	ug/kg	47.2	6.4	20	11/06/17 08:06	11/07/17 19:27	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	79	%.	50-150		5	11/06/17 08:06	11/07/17 22:41	93951-69-0	
2-Methylnaphthalene-d10 (S)	77	%.	50-150		5	11/06/17 08:06	11/07/17 22:41	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**15.1**	%	0.10	0.10	1		11/06/17 14:42		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B5 2.5-5.0 **Lab ID: 40159995033** Collected: 10/30/17 16:00 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**12.9J**	ug/kg	24.6	2.0	10	11/06/17 08:06	11/07/17 03:15	83-32-9	
Acenaphthylene	**6.5J**	ug/kg	24.6	1.8	10	11/06/17 08:06	11/07/17 03:15	208-96-8	
Anthracene	**69.0**	ug/kg	24.6	2.7	10	11/06/17 08:06	11/07/17 03:15	120-12-7	
Benzo(a)anthracene	**356**	ug/kg	98.3	17.2	40	11/06/17 08:06	11/07/17 16:47	56-55-3	
Benzo(a)pyrene	**358**	ug/kg	98.3	23.6	40	11/06/17 08:06	11/07/17 16:47	50-32-8	
Benzo(b)fluoranthene	**314**	ug/kg	123	17.2	40	11/06/17 08:06	11/07/17 16:47	205-99-2	
Benzo(g,h,i)perylene	**258**	ug/kg	30.7	8.0	10	11/06/17 08:06	11/07/17 03:15	191-24-2	
Benzo(k)fluoranthene	**315**	ug/kg	123	11.8	40	11/06/17 08:06	11/07/17 16:47	207-08-9	
Chrysene	**395**	ug/kg	123	7.9	40	11/06/17 08:06	11/07/17 16:47	218-01-9	
Dibenz(a,h)anthracene	**81.9**	ug/kg	30.7	9.2	10	11/06/17 08:06	11/07/17 03:15	53-70-3	
Fluoranthene	**801**	ug/kg	98.3	14.8	40	11/06/17 08:06	11/07/17 16:47	206-44-0	
Fluorene	**13.9J**	ug/kg	24.6	2.1	10	11/06/17 08:06	11/07/17 03:15	86-73-7	
Indeno(1,2,3-cd)pyrene	**232**	ug/kg	24.6	7.7	10	11/06/17 08:06	11/07/17 03:15	193-39-5	
1-Methylnaphthalene	**9.9J**	ug/kg	24.6	2.4	10	11/06/17 08:06	11/07/17 03:15	90-12-0	N2
2-Methylnaphthalene	**6.6J**	ug/kg	24.6	2.6	10	11/06/17 08:06	11/07/17 03:15	91-57-6	
Naphthalene	**14.9J**	ug/kg	24.6	3.1	10	11/06/17 08:06	11/07/17 03:15	91-20-3	B,ED
Phenanthrene	**292**	ug/kg	24.6	3.1	10	11/06/17 08:06	11/07/17 03:15	85-01-8	
Pyrene	**692**	ug/kg	98.3	13.3	40	11/06/17 08:06	11/07/17 16:47	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	79	%.	50-150		10	11/06/17 08:06	11/07/17 03:15	93951-69-0	
2-Methylnaphthalene-d10 (S)	82	%.	50-150		10	11/06/17 08:06	11/07/17 03:15	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**16.8**	%	0.10	0.10	1		11/06/17 14:43		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B6 0-2.5 **Lab ID: 40159995034** Collected: 10/30/17 16:15 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.6**	ug/kg	15.1	4.6	1	11/06/17 10:08	11/07/17 17:41	83-32-9	
Acenaphthylene	**<3.9**	ug/kg	12.9	3.9	1	11/06/17 10:08	11/07/17 17:41	208-96-8	
Anthracene	**<6.7**	ug/kg	22.3	6.7	1	11/06/17 10:08	11/07/17 17:41	120-12-7	
Benzo(a)anthracene	**<3.7**	ug/kg	12.4	3.7	1	11/06/17 10:08	11/07/17 17:41	56-55-3	
Benzo(a)pyrene	**<2.9**	ug/kg	9.8	2.9	1	11/06/17 10:08	11/07/17 17:41	50-32-8	
Benzo(b)fluoranthene	**<3.3**	ug/kg	11.0	3.3	1	11/06/17 10:08	11/07/17 17:41	205-99-2	
Benzo(g,h,i)perylene	**<2.4**	ug/kg	7.9	2.4	1	11/06/17 10:08	11/07/17 17:41	191-24-2	
Benzo(k)fluoranthene	**<2.9**	ug/kg	9.8	2.9	1	11/06/17 10:08	11/07/17 17:41	207-08-9	
Chrysene	**<4.0**	ug/kg	13.1	4.0	1	11/06/17 10:08	11/07/17 17:41	218-01-9	
Dibenz(a,h)anthracene	**<2.6**	ug/kg	8.7	2.6	1	11/06/17 10:08	11/07/17 17:41	53-70-3	
Fluoranthene	**<6.1**	ug/kg	20.4	6.1	1	11/06/17 10:08	11/07/17 17:41	206-44-0	
Fluorene	**<4.9**	ug/kg	16.2	4.9	1	11/06/17 10:08	11/07/17 17:41	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.6**	ug/kg	8.6	2.6	1	11/06/17 10:08	11/07/17 17:41	193-39-5	
1-Methylnaphthalene	**<4.7**	ug/kg	15.7	4.7	1	11/06/17 10:08	11/07/17 17:41	90-12-0	
2-Methylnaphthalene	**<5.9**	ug/kg	19.6	5.9	1	11/06/17 10:08	11/07/17 17:41	91-57-6	
Naphthalene	**<9.9**	ug/kg	33.0	9.9	1	11/06/17 10:08	11/07/17 17:41	91-20-3	
Phenanthrene	**<13.7**	ug/kg	45.5	13.7	1	11/06/17 10:08	11/07/17 17:41	85-01-8	
Pyrene	**<5.3**	ug/kg	17.6	5.3	1	11/06/17 10:08	11/07/17 17:41	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%	23-106		1	11/06/17 10:08	11/07/17 17:41	321-60-8	
Terphenyl-d14 (S)	86	%	29-106		1	11/06/17 10:08	11/07/17 17:41	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.9**	%	0.10	0.10	1		11/06/17 13:48		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B6 2.5-5.0 **Lab ID: 40159995035** Collected: 10/30/17 16:20 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.6**	ug/kg	15.2	4.6	1	11/06/17 10:08	11/07/17 17:58	83-32-9	
Acenaphthylene	**<3.9**	ug/kg	13.0	3.9	1	11/06/17 10:08	11/07/17 17:58	208-96-8	
Anthracene	**<6.7**	ug/kg	22.4	6.7	1	11/06/17 10:08	11/07/17 17:58	120-12-7	
Benzo(a)anthracene	**<3.7**	ug/kg	12.5	3.7	1	11/06/17 10:08	11/07/17 17:58	56-55-3	
Benzo(a)pyrene	**<3.0**	ug/kg	9.9	3.0	1	11/06/17 10:08	11/07/17 17:58	50-32-8	
Benzo(b)fluoranthene	**<3.3**	ug/kg	11.1	3.3	1	11/06/17 10:08	11/07/17 17:58	205-99-2	
Benzo(g,h,i)perylene	**<2.4**	ug/kg	8.0	2.4	1	11/06/17 10:08	11/07/17 17:58	191-24-2	
Benzo(k)fluoranthene	**<3.0**	ug/kg	9.8	3.0	1	11/06/17 10:08	11/07/17 17:58	207-08-9	
Chrysene	**<4.0**	ug/kg	13.2	4.0	1	11/06/17 10:08	11/07/17 17:58	218-01-9	
Dibenz(a,h)anthracene	**<2.6**	ug/kg	8.8	2.6	1	11/06/17 10:08	11/07/17 17:58	53-70-3	
Fluoranthene	**<6.1**	ug/kg	20.5	6.1	1	11/06/17 10:08	11/07/17 17:58	206-44-0	
Fluorene	**<4.9**	ug/kg	16.2	4.9	1	11/06/17 10:08	11/07/17 17:58	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.6**	ug/kg	8.6	2.6	1	11/06/17 10:08	11/07/17 17:58	193-39-5	
1-Methylnaphthalene	**<4.7**	ug/kg	15.8	4.7	1	11/06/17 10:08	11/07/17 17:58	90-12-0	
2-Methylnaphthalene	**<5.9**	ug/kg	19.7	5.9	1	11/06/17 10:08	11/07/17 17:58	91-57-6	
Naphthalene	**<9.9**	ug/kg	33.1	9.9	1	11/06/17 10:08	11/07/17 17:58	91-20-3	
Phenanthrene	**<13.7**	ug/kg	45.7	13.7	1	11/06/17 10:08	11/07/17 17:58	85-01-8	
Pyrene	**<5.3**	ug/kg	17.7	5.3	1	11/06/17 10:08	11/07/17 17:58	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	30	%	23-106		1	11/06/17 10:08	11/07/17 17:58	321-60-8	
Terphenyl-d14 (S)	53	%	29-106		1	11/06/17 10:08	11/07/17 17:58	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.1**	%	0.10	0.10	1		11/06/17 13:48		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B6 5.0-7.5 **Lab ID: 40159995036** Collected: 10/30/17 16:25 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.6**	ug/kg	15.1	4.6	1	11/06/17 10:08	11/07/17 18:15	83-32-9	
Acenaphthylene	**<3.9**	ug/kg	12.9	3.9	1	11/06/17 10:08	11/07/17 18:15	208-96-8	
Anthracene	**<6.7**	ug/kg	22.3	6.7	1	11/06/17 10:08	11/07/17 18:15	120-12-7	
Benzo(a)anthracene	**<3.7**	ug/kg	12.4	3.7	1	11/06/17 10:08	11/07/17 18:15	56-55-3	
Benzo(a)pyrene	**<2.9**	ug/kg	9.8	2.9	1	11/06/17 10:08	11/07/17 18:15	50-32-8	
Benzo(b)fluoranthene	**<3.3**	ug/kg	11.0	3.3	1	11/06/17 10:08	11/07/17 18:15	205-99-2	
Benzo(g,h,i)perylene	**<2.4**	ug/kg	7.9	2.4	1	11/06/17 10:08	11/07/17 18:15	191-24-2	
Benzo(k)fluoranthene	**<2.9**	ug/kg	9.8	2.9	1	11/06/17 10:08	11/07/17 18:15	207-08-9	
Chrysene	**<4.0**	ug/kg	13.1	4.0	1	11/06/17 10:08	11/07/17 18:15	218-01-9	
Dibenz(a,h)anthracene	**<2.6**	ug/kg	8.7	2.6	1	11/06/17 10:08	11/07/17 18:15	53-70-3	
Fluoranthene	**<6.1**	ug/kg	20.4	6.1	1	11/06/17 10:08	11/07/17 18:15	206-44-0	
Fluorene	**<4.9**	ug/kg	16.2	4.9	1	11/06/17 10:08	11/07/17 18:15	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.6**	ug/kg	8.6	2.6	1	11/06/17 10:08	11/07/17 18:15	193-39-5	
1-Methylnaphthalene	**<4.7**	ug/kg	15.7	4.7	1	11/06/17 10:08	11/07/17 18:15	90-12-0	
2-Methylnaphthalene	**<5.9**	ug/kg	19.6	5.9	1	11/06/17 10:08	11/07/17 18:15	91-57-6	
Naphthalene	**<9.9**	ug/kg	33.0	9.9	1	11/06/17 10:08	11/07/17 18:15	91-20-3	
Phenanthrene	**<13.7**	ug/kg	45.5	13.7	1	11/06/17 10:08	11/07/17 18:15	85-01-8	
Pyrene	**<5.3**	ug/kg	17.6	5.3	1	11/06/17 10:08	11/07/17 18:15	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73	%	23-106		1	11/06/17 10:08	11/07/17 18:15	321-60-8	
Terphenyl-d14 (S)	78	%	29-106		1	11/06/17 10:08	11/07/17 18:15	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.0**	%	0.10	0.10	1		11/06/17 13:48		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B6 7.5-10.0 **Lab ID: 40159995037** Collected: 10/30/17 16:30 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.8**	ug/kg	15.8	4.8	1	11/06/17 10:08	11/07/17 15:58	83-32-9	
Acenaphthylene	**<4.0**	ug/kg	13.5	4.0	1	11/06/17 10:08	11/07/17 15:58	208-96-8	
Anthracene	**<7.0**	ug/kg	23.3	7.0	1	11/06/17 10:08	11/07/17 15:58	120-12-7	
Benzo(a)anthracene	**<3.9**	ug/kg	13.0	3.9	1	11/06/17 10:08	11/07/17 15:58	56-55-3	
Benzo(a)pyrene	**<3.1**	ug/kg	10.3	3.1	1	11/06/17 10:08	11/07/17 15:58	50-32-8	
Benzo(b)fluoranthene	**<3.5**	ug/kg	11.5	3.5	1	11/06/17 10:08	11/07/17 15:58	205-99-2	
Benzo(g,h,i)perylene	**<2.5**	ug/kg	8.3	2.5	1	11/06/17 10:08	11/07/17 15:58	191-24-2	
Benzo(k)fluoranthene	**<3.1**	ug/kg	10.2	3.1	1	11/06/17 10:08	11/07/17 15:58	207-08-9	
Chrysene	**<4.1**	ug/kg	13.7	4.1	1	11/06/17 10:08	11/07/17 15:58	218-01-9	
Dibenz(a,h)anthracene	**<2.7**	ug/kg	9.1	2.7	1	11/06/17 10:08	11/07/17 15:58	53-70-3	
Fluoranthene	**<6.4**	ug/kg	21.3	6.4	1	11/06/17 10:08	11/07/17 15:58	206-44-0	
Fluorene	**<5.1**	ug/kg	16.9	5.1	1	11/06/17 10:08	11/07/17 15:58	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.7**	ug/kg	9.0	2.7	1	11/06/17 10:08	11/07/17 15:58	193-39-5	
1-Methylnaphthalene	**<4.9**	ug/kg	16.4	4.9	1	11/06/17 10:08	11/07/17 15:58	90-12-0	
2-Methylnaphthalene	**<6.1**	ug/kg	20.5	6.1	1	11/06/17 10:08	11/07/17 15:58	91-57-6	
Naphthalene	**<10.3**	ug/kg	34.4	10.3	1	11/06/17 10:08	11/07/17 15:58	91-20-3	
Phenanthrene	**<14.3**	ug/kg	47.5	14.3	1	11/06/17 10:08	11/07/17 15:58	85-01-8	
Pyrene	**<5.5**	ug/kg	18.4	5.5	1	11/06/17 10:08	11/07/17 15:58	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	23-106		1	11/06/17 10:08	11/07/17 15:58	321-60-8	
Terphenyl-d14 (S)	77	%	29-106		1	11/06/17 10:08	11/07/17 15:58	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.3**	%	0.10	0.10	1		11/06/17 13:48		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B6 10-12.5 **Lab ID: 40159995038** Collected: 10/30/17 16:35 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<0.0046**	mg/kg	0.015	0.0046	1	11/06/17 10:08	11/07/17 19:07	83-32-9	
Acenaphthylene	**<0.0039**	mg/kg	0.013	0.0039	1	11/06/17 10:08	11/07/17 19:07	208-96-8	
Anthracene	**<0.0067**	mg/kg	0.022	0.0067	1	11/06/17 10:08	11/07/17 19:07	120-12-7	
Benzo(a)anthracene	**0.0099J**	mg/kg	0.012	0.0037	1	11/06/17 10:08	11/07/17 19:07	56-55-3	
Benzo(a)pyrene	**0.0078J**	mg/kg	0.0098	0.0029	1	11/06/17 10:08	11/07/17 19:07	50-32-8	
Benzo(b)fluoranthene	**0.011J**	mg/kg	0.011	0.0033	1	11/06/17 10:08	11/07/17 19:07	205-99-2	
Benzo(g,h,i)perylene	**0.0040J**	mg/kg	0.0079	0.0024	1	11/06/17 10:08	11/07/17 19:07	191-24-2	
Benzo(k)fluoranthene	**0.0050J**	mg/kg	0.0098	0.0029	1	11/06/17 10:08	11/07/17 19:07	207-08-9	
Chrysene	**0.0075J**	mg/kg	0.013	0.0040	1	11/06/17 10:08	11/07/17 19:07	218-01-9	
Dibenz(a,h)anthracene	**<0.0026**	mg/kg	0.0087	0.0026	1	11/06/17 10:08	11/07/17 19:07	53-70-3	
Fluoranthene	**0.014J**	mg/kg	0.020	0.0061	1	11/06/17 10:08	11/07/17 19:07	206-44-0	
Fluorene	**<0.0049**	mg/kg	0.016	0.0049	1	11/06/17 10:08	11/07/17 19:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.0038J**	mg/kg	0.0086	0.0026	1	11/06/17 10:08	11/07/17 19:07	193-39-5	
1-Methylnaphthalene	**<0.0047**	mg/kg	0.016	0.0047	1	11/06/17 10:08	11/07/17 19:07	90-12-0	
2-Methylnaphthalene	**<0.0059**	mg/kg	0.020	0.0059	1	11/06/17 10:08	11/07/17 19:07	91-57-6	
Naphthalene	**<0.0099**	mg/kg	0.033	0.0099	1	11/06/17 10:08	11/07/17 19:07	91-20-3	
Phenanthrene	**<0.014**	mg/kg	0.046	0.014	1	11/06/17 10:08	11/07/17 19:07	85-01-8	
Pyrene	**0.012J**	mg/kg	0.018	0.0053	1	11/06/17 10:08	11/07/17 19:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%	23-106		1	11/06/17 10:08	11/07/17 19:07	321-60-8	
Terphenyl-d14 (S)	85	%	29-106		1	11/06/17 10:08	11/07/17 19:07	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.8**	%	0.10	0.10	1		11/06/17 13:48		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B6 12.5-15.0 **Lab ID: 40159995039** Collected: 10/30/17 16:40 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<0.0046**	mg/kg	0.015	0.0046	1	11/06/17 10:08	11/07/17 15:41	83-32-9	
Acenaphthylene	**<0.0039**	mg/kg	0.013	0.0039	1	11/06/17 10:08	11/07/17 15:41	208-96-8	
Anthracene	**<0.0067**	mg/kg	0.022	0.0067	1	11/06/17 10:08	11/07/17 15:41	120-12-7	
Benzo(a)anthracene	**<0.0037**	mg/kg	0.012	0.0037	1	11/06/17 10:08	11/07/17 15:41	56-55-3	
Benzo(a)pyrene	**<0.0029**	mg/kg	0.0098	0.0029	1	11/06/17 10:08	11/07/17 15:41	50-32-8	
Benzo(b)fluoranthene	**<0.0033**	mg/kg	0.011	0.0033	1	11/06/17 10:08	11/07/17 15:41	205-99-2	
Benzo(g,h,i)perylene	**<0.0024**	mg/kg	0.0079	0.0024	1	11/06/17 10:08	11/07/17 15:41	191-24-2	
Benzo(k)fluoranthene	**<0.0029**	mg/kg	0.0098	0.0029	1	11/06/17 10:08	11/07/17 15:41	207-08-9	
Chrysene	**<0.0040**	mg/kg	0.013	0.0040	1	11/06/17 10:08	11/07/17 15:41	218-01-9	
Dibenz(a,h)anthracene	**<0.0026**	mg/kg	0.0087	0.0026	1	11/06/17 10:08	11/07/17 15:41	53-70-3	
Fluoranthene	**<0.0061**	mg/kg	0.020	0.0061	1	11/06/17 10:08	11/07/17 15:41	206-44-0	
Fluorene	**<0.0049**	mg/kg	0.016	0.0049	1	11/06/17 10:08	11/07/17 15:41	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0026**	mg/kg	0.0086	0.0026	1	11/06/17 10:08	11/07/17 15:41	193-39-5	
1-Methylnaphthalene	**<0.0047**	mg/kg	0.016	0.0047	1	11/06/17 10:08	11/07/17 15:41	90-12-0	
2-Methylnaphthalene	**<0.0059**	mg/kg	0.020	0.0059	1	11/06/17 10:08	11/07/17 15:41	91-57-6	
Naphthalene	**<0.0099**	mg/kg	0.033	0.0099	1	11/06/17 10:08	11/07/17 15:41	91-20-3	
Phenanthrene	**<0.014**	mg/kg	0.046	0.014	1	11/06/17 10:08	11/07/17 15:41	85-01-8	
Pyrene	**<0.0053**	mg/kg	0.018	0.0053	1	11/06/17 10:08	11/07/17 15:41	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%	23-106		1	11/06/17 10:08	11/07/17 15:41	321-60-8	
Terphenyl-d14 (S)	85	%	29-106		1	11/06/17 10:08	11/07/17 15:41	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.8**	%	0.10	0.10	1		11/06/17 13:49		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B7 0-2.5 **Lab ID: 40159995040** Collected: 10/30/17 16:45 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<0.0046**	mg/kg	0.015	0.0046	1	11/06/17 10:08	11/07/17 18:33	83-32-9	
Acenaphthylene	**<0.0039**	mg/kg	0.013	0.0039	1	11/06/17 10:08	11/07/17 18:33	208-96-8	
Anthracene	**<0.0067**	mg/kg	0.022	0.0067	1	11/06/17 10:08	11/07/17 18:33	120-12-7	
Benzo(a)anthracene	**0.026**	mg/kg	0.012	0.0037	1	11/06/17 10:08	11/07/17 18:33	56-55-3	
Benzo(a)pyrene	**0.026**	mg/kg	0.0098	0.0029	1	11/06/17 10:08	11/07/17 18:33	50-32-8	
Benzo(b)fluoranthene	**0.034**	mg/kg	0.011	0.0033	1	11/06/17 10:08	11/07/17 18:33	205-99-2	
Benzo(g,h,i)perylene	**0.0095**	mg/kg	0.0079	0.0024	1	11/06/17 10:08	11/07/17 18:33	191-24-2	
Benzo(k)fluoranthene	**0.014**	mg/kg	0.0098	0.0029	1	11/06/17 10:08	11/07/17 18:33	207-08-9	
Chrysene	**0.029**	mg/kg	0.013	0.0040	1	11/06/17 10:08	11/07/17 18:33	218-01-9	
Dibenz(a,h)anthracene	**0.0034J**	mg/kg	0.0087	0.0026	1	11/06/17 10:08	11/07/17 18:33	53-70-3	
Fluoranthene	**0.049**	mg/kg	0.020	0.0061	1	11/06/17 10:08	11/07/17 18:33	206-44-0	
Fluorene	**<0.0049**	mg/kg	0.016	0.0049	1	11/06/17 10:08	11/07/17 18:33	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.011**	mg/kg	0.0086	0.0026	1	11/06/17 10:08	11/07/17 18:33	193-39-5	
1-Methylnaphthalene	**<0.0047**	mg/kg	0.016	0.0047	1	11/06/17 10:08	11/07/17 18:33	90-12-0	
2-Methylnaphthalene	**<0.0059**	mg/kg	0.020	0.0059	1	11/06/17 10:08	11/07/17 18:33	91-57-6	
Naphthalene	**<0.0099**	mg/kg	0.033	0.0099	1	11/06/17 10:08	11/07/17 18:33	91-20-3	
Phenanthrene	**0.019J**	mg/kg	0.046	0.014	1	11/06/17 10:08	11/07/17 18:33	85-01-8	
Pyrene	**0.045**	mg/kg	0.018	0.0053	1	11/06/17 10:08	11/07/17 18:33	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	79	%	23-106		1	11/06/17 10:08	11/07/17 18:33	321-60-8	
Terphenyl-d14 (S)	89	%	29-106		1	11/06/17 10:08	11/07/17 18:33	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.7**	%	0.10	0.10	1		11/06/17 13:49		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B7 2.5-5.0 **Lab ID: 40159995041** Collected: 10/30/17 16:50 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<0.0049**	mg/kg	0.016	0.0049	1	11/06/17 10:08	11/07/17 18:50	83-32-9	
Acenaphthylene	**<0.0042**	mg/kg	0.014	0.0042	1	11/06/17 10:08	11/07/17 18:50	208-96-8	
Anthracene	**<0.0072**	mg/kg	0.024	0.0072	1	11/06/17 10:08	11/07/17 18:50	120-12-7	
Benzo(a)anthracene	**<0.0040**	mg/kg	0.013	0.0040	1	11/06/17 10:08	11/07/17 18:50	56-55-3	
Benzo(a)pyrene	**<0.0032**	mg/kg	0.011	0.0032	1	11/06/17 10:08	11/07/17 18:50	50-32-8	
Benzo(b)fluoranthene	**<0.0036**	mg/kg	0.012	0.0036	1	11/06/17 10:08	11/07/17 18:50	205-99-2	
Benzo(g,h,i)perylene	**<0.0026**	mg/kg	0.0086	0.0026	1	11/06/17 10:08	11/07/17 18:50	191-24-2	
Benzo(k)fluoranthene	**<0.0032**	mg/kg	0.011	0.0032	1	11/06/17 10:08	11/07/17 18:50	207-08-9	
Chrysene	**<0.0043**	mg/kg	0.014	0.0043	1	11/06/17 10:08	11/07/17 18:50	218-01-9	
Dibenz(a,h)anthracene	**<0.0028**	mg/kg	0.0094	0.0028	1	11/06/17 10:08	11/07/17 18:50	53-70-3	
Fluoranthene	**<0.0066**	mg/kg	0.022	0.0066	1	11/06/17 10:08	11/07/17 18:50	206-44-0	
Fluorene	**<0.0052**	mg/kg	0.017	0.0052	1	11/06/17 10:08	11/07/17 18:50	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0028**	mg/kg	0.0093	0.0028	1	11/06/17 10:08	11/07/17 18:50	193-39-5	
1-Methylnaphthalene	**<0.0051**	mg/kg	0.017	0.0051	1	11/06/17 10:08	11/07/17 18:50	90-12-0	
2-Methylnaphthalene	**<0.0063**	mg/kg	0.021	0.0063	1	11/06/17 10:08	11/07/17 18:50	91-57-6	
Naphthalene	**<0.011**	mg/kg	0.036	0.011	1	11/06/17 10:08	11/07/17 18:50	91-20-3	
Phenanthrene	**<0.015**	mg/kg	0.049	0.015	1	11/06/17 10:08	11/07/17 18:50	85-01-8	
Pyrene	**<0.0057**	mg/kg	0.019	0.0057	1	11/06/17 10:08	11/07/17 18:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	62	%	23-106		1	11/06/17 10:08	11/07/17 18:50	321-60-8	
Terphenyl-d14 (S)	84	%	29-106		1	11/06/17 10:08	11/07/17 18:50	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.2**	%	0.10	0.10	1		11/06/17 13:49		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B7 5.0-7.5 **Lab ID: 40159995042** Collected: 10/30/17 16:55 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<0.0046**	mg/kg	0.015	0.0046	1	11/06/17 10:08	11/07/17 13:13	83-32-9	
Acenaphthylene	**<0.0039**	mg/kg	0.013	0.0039	1	11/06/17 10:08	11/07/17 13:13	208-96-8	
Anthracene	**<0.0068**	mg/kg	0.023	0.0068	1	11/06/17 10:08	11/07/17 13:13	120-12-7	
Benzo(a)anthracene	**<0.0038**	mg/kg	0.013	0.0038	1	11/06/17 10:08	11/07/17 13:13	56-55-3	
Benzo(a)pyrene	**<0.0030**	mg/kg	0.010	0.0030	1	11/06/17 10:08	11/07/17 13:13	50-32-8	
Benzo(b)fluoranthene	**<0.0034**	mg/kg	0.011	0.0034	1	11/06/17 10:08	11/07/17 13:13	205-99-2	
Benzo(g,h,i)perylene	**<0.0024**	mg/kg	0.0081	0.0024	1	11/06/17 10:08	11/07/17 13:13	191-24-2	
Benzo(k)fluoranthene	**<0.0030**	mg/kg	0.010	0.0030	1	11/06/17 10:08	11/07/17 13:13	207-08-9	
Chrysene	**<0.0040**	mg/kg	0.013	0.0040	1	11/06/17 10:08	11/07/17 13:13	218-01-9	
Dibenz(a,h)anthracene	**<0.0027**	mg/kg	0.0089	0.0027	1	11/06/17 10:08	11/07/17 13:13	53-70-3	
Fluoranthene	**<0.0062**	mg/kg	0.021	0.0062	1	11/06/17 10:08	11/07/17 13:13	206-44-0	
Fluorene	**<0.0049**	mg/kg	0.016	0.0049	1	11/06/17 10:08	11/07/17 13:13	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0026**	mg/kg	0.0088	0.0026	1	11/06/17 10:08	11/07/17 13:13	193-39-5	
1-Methylnaphthalene	**<0.0048**	mg/kg	0.016	0.0048	1	11/06/17 10:08	11/07/17 13:13	90-12-0	
2-Methylnaphthalene	**<0.0060**	mg/kg	0.020	0.0060	1	11/06/17 10:08	11/07/17 13:13	91-57-6	
Naphthalene	**<0.010**	mg/kg	0.034	0.010	1	11/06/17 10:08	11/07/17 13:13	91-20-3	
Phenanthrene	**<0.014**	mg/kg	0.046	0.014	1	11/06/17 10:08	11/07/17 13:13	85-01-8	
Pyrene	**<0.0054**	mg/kg	0.018	0.0054	1	11/06/17 10:08	11/07/17 13:13	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	74	%	23-106		1	11/06/17 10:08	11/07/17 13:13	321-60-8	
Terphenyl-d14 (S)	81	%	29-106		1	11/06/17 10:08	11/07/17 13:13	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.3**	%	0.10	0.10	1		11/06/17 13:49		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B7 7.5-10.0 **Lab ID: 40159995043** Collected: 10/30/17 17:00 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<0.0049**	mg/kg	0.016	0.0049	1	11/07/17 08:32	11/07/17 16:17	83-32-9	
Acenaphthylene	**<0.0042**	mg/kg	0.014	0.0042	1	11/07/17 08:32	11/07/17 16:17	208-96-8	
Anthracene	**<0.0073**	mg/kg	0.024	0.0073	1	11/07/17 08:32	11/07/17 16:17	120-12-7	
Benzo(a)anthracene	**<0.0040**	mg/kg	0.013	0.0040	1	11/07/17 08:32	11/07/17 16:17	56-55-3	
Benzo(a)pyrene	**<0.0032**	mg/kg	0.011	0.0032	1	11/07/17 08:32	11/07/17 16:17	50-32-8	
Benzo(b)fluoranthene	**<0.0036**	mg/kg	0.012	0.0036	1	11/07/17 08:32	11/07/17 16:17	205-99-2	
Benzo(g,h,i)perylene	**<0.0026**	mg/kg	0.0086	0.0026	1	11/07/17 08:32	11/07/17 16:17	191-24-2	
Benzo(k)fluoranthene	**<0.0032**	mg/kg	0.011	0.0032	1	11/07/17 08:32	11/07/17 16:17	207-08-9	
Chrysene	**<0.0043**	mg/kg	0.014	0.0043	1	11/07/17 08:32	11/07/17 16:17	218-01-9	
Dibenz(a,h)anthracene	**<0.0028**	mg/kg	0.0095	0.0028	1	11/07/17 08:32	11/07/17 16:17	53-70-3	
Fluoranthene	**<0.0066**	mg/kg	0.022	0.0066	1	11/07/17 08:32	11/07/17 16:17	206-44-0	
Fluorene	**<0.0053**	mg/kg	0.018	0.0053	1	11/07/17 08:32	11/07/17 16:17	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0028**	mg/kg	0.0093	0.0028	1	11/07/17 08:32	11/07/17 16:17	193-39-5	
1-Methylnaphthalene	**<0.0051**	mg/kg	0.017	0.0051	1	11/07/17 08:32	11/07/17 16:17	90-12-0	
2-Methylnaphthalene	**<0.0064**	mg/kg	0.021	0.0064	1	11/07/17 08:32	11/07/17 16:17	91-57-6	
Naphthalene	**<0.011**	mg/kg	0.036	0.011	1	11/07/17 08:32	11/07/17 16:17	91-20-3	
Phenanthrene	**<0.015**	mg/kg	0.049	0.015	1	11/07/17 08:32	11/07/17 16:17	85-01-8	
Pyrene	**<0.0057**	mg/kg	0.019	0.0057	1	11/07/17 08:32	11/07/17 16:17	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68	%	23-106		1	11/07/17 08:32	11/07/17 16:17	321-60-8	
Terphenyl-d14 (S)	93	%	29-106		1	11/07/17 08:32	11/07/17 16:17	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.4**	%	0.10	0.10	1		11/06/17 10:21		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B8 0-2.5 **Lab ID: 40159995044** Collected: 10/31/17 08:45 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**0.0075J**	mg/kg	0.016	0.0047	1	11/07/17 08:32	11/08/17 11:14	83-32-9	
Acenaphthylene	**<0.0040**	mg/kg	0.013	0.0040	1	11/07/17 08:32	11/08/17 11:14	208-96-8	
Anthracene	**0.031**	mg/kg	0.023	0.0070	1	11/07/17 08:32	11/08/17 11:14	120-12-7	
Benzo(a)anthracene	**0.11**	mg/kg	0.013	0.0039	1	11/07/17 08:32	11/08/17 11:14	56-55-3	
Benzo(a)pyrene	**0.12**	mg/kg	0.010	0.0031	1	11/07/17 08:32	11/08/17 11:14	50-32-8	
Benzo(b)fluoranthene	**0.13**	mg/kg	0.011	0.0035	1	11/07/17 08:32	11/08/17 11:14	205-99-2	
Benzo(g,h,i)perylene	**0.082**	mg/kg	0.0083	0.0025	1	11/07/17 08:32	11/08/17 11:14	191-24-2	
Benzo(k)fluoranthene	**0.098**	mg/kg	0.010	0.0031	1	11/07/17 08:32	11/08/17 11:14	207-08-9	
Chrysene	**0.13**	mg/kg	0.014	0.0041	1	11/07/17 08:32	11/08/17 11:14	218-01-9	
Dibenz(a,h)anthracene	**0.026**	mg/kg	0.0091	0.0027	1	11/07/17 08:32	11/08/17 11:14	53-70-3	
Fluoranthene	**0.31**	mg/kg	0.021	0.0064	1	11/07/17 08:32	11/08/17 11:14	206-44-0	
Fluorene	**0.0084J**	mg/kg	0.017	0.0051	1	11/07/17 08:32	11/08/17 11:14	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.075**	mg/kg	0.0090	0.0027	1	11/07/17 08:32	11/08/17 11:14	193-39-5	
1-Methylnaphthalene	**<0.0049**	mg/kg	0.016	0.0049	1	11/07/17 08:32	11/08/17 11:14	90-12-0	
2-Methylnaphthalene	**<0.0061**	mg/kg	0.020	0.0061	1	11/07/17 08:32	11/08/17 11:14	91-57-6	
Naphthalene	**<0.010**	mg/kg	0.034	0.010	1	11/07/17 08:32	11/08/17 11:14	91-20-3	
Phenanthrene	**0.15**	mg/kg	0.047	0.014	1	11/07/17 08:32	11/08/17 11:14	85-01-8	
Pyrene	**0.24**	mg/kg	0.018	0.0055	1	11/07/17 08:32	11/08/17 11:14	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73	%	23-106		1	11/07/17 08:32	11/08/17 11:14	321-60-8	
Terphenyl-d14 (S)	73	%	29-106		1	11/07/17 08:32	11/08/17 11:14	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.1**	%	0.10	0.10	1		11/06/17 10:21		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B8 2.5-5.0 **Lab ID: 40159995045** Collected: 10/31/17 08:50 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**0.31J**	mg/kg	0.32	0.097	20	11/07/17 08:32	11/08/17 10:39	83-32-9	
Acenaphthylene	**<0.082**	mg/kg	0.27	0.082	20	11/07/17 08:32	11/08/17 10:39	208-96-8	
Anthracene	**1.1**	mg/kg	0.47	0.14	20	11/07/17 08:32	11/08/17 10:39	120-12-7	
Benzo(a)anthracene	**3.0**	mg/kg	0.26	0.079	20	11/07/17 08:32	11/08/17 10:39	56-55-3	
Benzo(a)pyrene	**2.7**	mg/kg	0.21	0.062	20	11/07/17 08:32	11/08/17 10:39	50-32-8	
Benzo(b)fluoranthene	**2.9**	mg/kg	0.23	0.070	20	11/07/17 08:32	11/08/17 10:39	205-99-2	
Benzo(g,h,i)perylene	**1.9**	mg/kg	0.17	0.051	20	11/07/17 08:32	11/08/17 10:39	191-24-2	
Benzo(k)fluoranthene	**2.5**	mg/kg	0.21	0.062	20	11/07/17 08:32	11/08/17 10:39	207-08-9	
Chrysene	**3.6**	mg/kg	0.28	0.084	20	11/07/17 08:32	11/08/17 10:39	218-01-9	
Dibenz(a,h)anthracene	**0.64**	mg/kg	0.19	0.056	20	11/07/17 08:32	11/08/17 10:39	53-70-3	
Fluoranthene	**9.3**	mg/kg	0.43	0.13	20	11/07/17 08:32	11/08/17 10:39	206-44-0	
Fluorene	**0.30J**	mg/kg	0.34	0.10	20	11/07/17 08:32	11/08/17 10:39	86-73-7	
Indeno(1,2,3-cd)pyrene	**1.7**	mg/kg	0.18	0.055	20	11/07/17 08:32	11/08/17 10:39	193-39-5	
1-Methylnaphthalene	**<0.10**	mg/kg	0.33	0.10	20	11/07/17 08:32	11/08/17 10:39	90-12-0	
2-Methylnaphthalene	**<0.12**	mg/kg	0.42	0.12	20	11/07/17 08:32	11/08/17 10:39	91-57-6	
Naphthalene	**<0.21**	mg/kg	0.70	0.21	20	11/07/17 08:32	11/08/17 10:39	91-20-3	
Phenanthrene	**5.2**	mg/kg	0.97	0.29	20	11/07/17 08:32	11/08/17 10:39	85-01-8	
Pyrene	**6.9**	mg/kg	0.37	0.11	20	11/07/17 08:32	11/08/17 10:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%	23-106		20	11/07/17 08:32	11/08/17 10:39	321-60-8	
Terphenyl-d14 (S)	64	%	29-106		20	11/07/17 08:32	11/08/17 10:39	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.6**	%	0.10	0.10	1		11/06/17 10:21		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B8 5.0-7.5 **Lab ID: 40159995046** Collected: 10/31/17 08:55 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<0.0052**	mg/kg	0.017	0.0052	1	11/07/17 08:32	11/07/17 16:34	83-32-9	
Acenaphthylene	**<0.0044**	mg/kg	0.015	0.0044	1	11/07/17 08:32	11/07/17 16:34	208-96-8	
Anthracene	**<0.0077**	mg/kg	0.026	0.0077	1	11/07/17 08:32	11/07/17 16:34	120-12-7	
Benzo(a)anthracene	**<0.0043**	mg/kg	0.014	0.0043	1	11/07/17 08:32	11/07/17 16:34	56-55-3	
Benzo(a)pyrene	**<0.0034**	mg/kg	0.011	0.0034	1	11/07/17 08:32	11/07/17 16:34	50-32-8	
Benzo(b)fluoranthene	**<0.0038**	mg/kg	0.013	0.0038	1	11/07/17 08:32	11/07/17 16:34	205-99-2	
Benzo(g,h,i)perylene	**<0.0027**	mg/kg	0.0091	0.0027	1	11/07/17 08:32	11/07/17 16:34	191-24-2	
Benzo(k)fluoranthene	**<0.0034**	mg/kg	0.011	0.0034	1	11/07/17 08:32	11/07/17 16:34	207-08-9	
Chrysene	**<0.0045**	mg/kg	0.015	0.0045	1	11/07/17 08:32	11/07/17 16:34	218-01-9	
Dibenz(a,h)anthracene	**<0.0030**	mg/kg	0.010	0.0030	1	11/07/17 08:32	11/07/17 16:34	53-70-3	
Fluoranthene	**<0.0070**	mg/kg	0.023	0.0070	1	11/07/17 08:32	11/07/17 16:34	206-44-0	
Fluorene	**<0.0056**	mg/kg	0.019	0.0056	1	11/07/17 08:32	11/07/17 16:34	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0030**	mg/kg	0.0099	0.0030	1	11/07/17 08:32	11/07/17 16:34	193-39-5	
1-Methylnaphthalene	**<0.0054**	mg/kg	0.018	0.0054	1	11/07/17 08:32	11/07/17 16:34	90-12-0	
2-Methylnaphthalene	**<0.0067**	mg/kg	0.022	0.0067	1	11/07/17 08:32	11/07/17 16:34	91-57-6	
Naphthalene	**<0.011**	mg/kg	0.038	0.011	1	11/07/17 08:32	11/07/17 16:34	91-20-3	
Phenanthrene	**<0.016**	mg/kg	0.052	0.016	1	11/07/17 08:32	11/07/17 16:34	85-01-8	
Pyrene	**<0.0061**	mg/kg	0.020	0.0061	1	11/07/17 08:32	11/07/17 16:34	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%	23-106		1	11/07/17 08:32	11/07/17 16:34	321-60-8	
Terphenyl-d14 (S)	78	%	29-106		1	11/07/17 08:32	11/07/17 16:34	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**25.6**	%	0.10	0.10	1		11/06/17 10:22		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B8 7.5-10.0 **Lab ID: 40159995047** Collected: 10/31/17 09:00 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<0.0049**	mg/kg	0.016	0.0049	1	11/07/17 08:32	11/07/17 16:52	83-32-9	
Acenaphthylene	**<0.0042**	mg/kg	0.014	0.0042	1	11/07/17 08:32	11/07/17 16:52	208-96-8	
Anthracene	**<0.0073**	mg/kg	0.024	0.0073	1	11/07/17 08:32	11/07/17 16:52	120-12-7	
Benzo(a)anthracene	**<0.0040**	mg/kg	0.014	0.0040	1	11/07/17 08:32	11/07/17 16:52	56-55-3	
Benzo(a)pyrene	**<0.0032**	mg/kg	0.011	0.0032	1	11/07/17 08:32	11/07/17 16:52	50-32-8	
Benzo(b)fluoranthene	**<0.0036**	mg/kg	0.012	0.0036	1	11/07/17 08:32	11/07/17 16:52	205-99-2	
Benzo(g,h,i)perylene	**<0.0026**	mg/kg	0.0086	0.0026	1	11/07/17 08:32	11/07/17 16:52	191-24-2	
Benzo(k)fluoranthene	**<0.0032**	mg/kg	0.011	0.0032	1	11/07/17 08:32	11/07/17 16:52	207-08-9	
Chrysene	**<0.0043**	mg/kg	0.014	0.0043	1	11/07/17 08:32	11/07/17 16:52	218-01-9	
Dibenz(a,h)anthracene	**<0.0029**	mg/kg	0.0095	0.0029	1	11/07/17 08:32	11/07/17 16:52	53-70-3	
Fluoranthene	**<0.0066**	mg/kg	0.022	0.0066	1	11/07/17 08:32	11/07/17 16:52	206-44-0	
Fluorene	**<0.0053**	mg/kg	0.018	0.0053	1	11/07/17 08:32	11/07/17 16:52	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0028**	mg/kg	0.0093	0.0028	1	11/07/17 08:32	11/07/17 16:52	193-39-5	
1-Methylnaphthalene	**<0.0051**	mg/kg	0.017	0.0051	1	11/07/17 08:32	11/07/17 16:52	90-12-0	
2-Methylnaphthalene	**<0.0064**	mg/kg	0.021	0.0064	1	11/07/17 08:32	11/07/17 16:52	91-57-6	
Naphthalene	**<0.011**	mg/kg	0.036	0.011	1	11/07/17 08:32	11/07/17 16:52	91-20-3	
Phenanthrene	**<0.015**	mg/kg	0.049	0.015	1	11/07/17 08:32	11/07/17 16:52	85-01-8	
Pyrene	**<0.0058**	mg/kg	0.019	0.0058	1	11/07/17 08:32	11/07/17 16:52	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68	%	23-106		1	11/07/17 08:32	11/07/17 16:52	321-60-8	
Terphenyl-d14 (S)	69	%	29-106		1	11/07/17 08:32	11/07/17 16:52	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.5**	%	0.10	0.10	1		11/06/17 10:22		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B9 0-2.5 **Lab ID: 40159995048** Collected: 10/31/17 09:10 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**0.016J**	mg/kg	0.029	0.0088	2	11/07/17 08:32	11/08/17 11:48	83-32-9	
Acenaphthylene	**0.020J**	mg/kg	0.025	0.0075	2	11/07/17 08:32	11/08/17 11:48	208-96-8	
Anthracene	**0.083**	mg/kg	0.043	0.013	2	11/07/17 08:32	11/08/17 11:48	120-12-7	
Benzo(a)anthracene	**0.35**	mg/kg	0.024	0.0072	2	11/07/17 08:32	11/08/17 11:48	56-55-3	
Benzo(a)pyrene	**0.38**	mg/kg	0.019	0.0057	2	11/07/17 08:32	11/08/17 11:48	50-32-8	
Benzo(b)fluoranthene	**0.36**	mg/kg	0.021	0.0064	2	11/07/17 08:32	11/08/17 11:48	205-99-2	
Benzo(g,h,i)perylene	**0.29**	mg/kg	0.015	0.0046	2	11/07/17 08:32	11/08/17 11:48	191-24-2	
Benzo(k)fluoranthene	**0.34**	mg/kg	0.019	0.0057	2	11/07/17 08:32	11/08/17 11:48	207-08-9	
Chrysene	**0.46**	mg/kg	0.025	0.0077	2	11/07/17 08:32	11/08/17 11:48	218-01-9	
Dibenz(a,h)anthracene	**0.098**	mg/kg	0.017	0.0051	2	11/07/17 08:32	11/08/17 11:48	53-70-3	
Fluoranthene	**0.93**	mg/kg	0.040	0.012	2	11/07/17 08:32	11/08/17 11:48	206-44-0	
Fluorene	**0.019J**	mg/kg	0.031	0.0094	2	11/07/17 08:32	11/08/17 11:48	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.25**	mg/kg	0.017	0.0050	2	11/07/17 08:32	11/08/17 11:48	193-39-5	
1-Methylnaphthalene	**<0.0092**	mg/kg	0.030	0.0092	2	11/07/17 08:32	11/08/17 11:48	90-12-0	
2-Methylnaphthalene	**<0.011**	mg/kg	0.038	0.011	2	11/07/17 08:32	11/08/17 11:48	91-57-6	
Naphthalene	**<0.019**	mg/kg	0.064	0.019	2	11/07/17 08:32	11/08/17 11:48	91-20-3	
Phenanthrene	**0.47**	mg/kg	0.088	0.027	2	11/07/17 08:32	11/08/17 11:48	85-01-8	
Pyrene	**0.88**	mg/kg	0.034	0.010	2	11/07/17 08:32	11/08/17 11:48	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68	%	23-106		2	11/07/17 08:32	11/08/17 11:48	321-60-8	
Terphenyl-d14 (S)	70	%	29-106		2	11/07/17 08:32	11/08/17 11:48	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.0**	%	0.10	0.10	1		11/06/17 10:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B9 2.5-5.0 **Lab ID: 40159995049** Collected: 10/31/17 09:15 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**0.092J**	mg/kg	0.12	0.036	8	11/07/17 08:32	11/08/17 10:22	83-32-9	
Acenaphthylene	**<0.031**	mg/kg	0.10	0.031	8	11/07/17 08:32	11/08/17 10:22	208-96-8	
Anthracene	**0.34**	mg/kg	0.18	0.054	8	11/07/17 08:32	11/08/17 10:22	120-12-7	
Benzo(a)anthracene	**1.0**	mg/kg	0.10	0.030	8	11/07/17 08:32	11/08/17 10:22	56-55-3	
Benzo(a)pyrene	**0.99**	mg/kg	0.079	0.024	8	11/07/17 08:32	11/08/17 10:22	50-32-8	
Benzo(b)fluoranthene	**1.0**	mg/kg	0.088	0.027	8	11/07/17 08:32	11/08/17 10:22	205-99-2	
Benzo(g,h,i)perylene	**0.70**	mg/kg	0.064	0.019	8	11/07/17 08:32	11/08/17 10:22	191-24-2	
Benzo(k)fluoranthene	**0.84**	mg/kg	0.079	0.024	8	11/07/17 08:32	11/08/17 10:22	207-08-9	
Chrysene	**1.2**	mg/kg	0.11	0.032	8	11/07/17 08:32	11/08/17 10:22	218-01-9	
Dibenz(a,h)anthracene	**0.23**	mg/kg	0.070	0.021	8	11/07/17 08:32	11/08/17 10:22	53-70-3	
Fluoranthene	**2.9**	mg/kg	0.16	0.049	8	11/07/17 08:32	11/08/17 10:22	206-44-0	
Fluorene	**0.096J**	mg/kg	0.13	0.039	8	11/07/17 08:32	11/08/17 10:22	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.62**	mg/kg	0.069	0.021	8	11/07/17 08:32	11/08/17 10:22	193-39-5	
1-Methylnaphthalene	**<0.038**	mg/kg	0.13	0.038	8	11/07/17 08:32	11/08/17 10:22	90-12-0	
2-Methylnaphthalene	**<0.047**	mg/kg	0.16	0.047	8	11/07/17 08:32	11/08/17 10:22	91-57-6	
Naphthalene	**<0.079**	mg/kg	0.26	0.079	8	11/07/17 08:32	11/08/17 10:22	91-20-3	
Phenanthrene	**1.5**	mg/kg	0.36	0.11	8	11/07/17 08:32	11/08/17 10:22	85-01-8	
Pyrene	**2.2**	mg/kg	0.14	0.042	8	11/07/17 08:32	11/08/17 10:22	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%	23-106		8	11/07/17 08:32	11/08/17 10:22	321-60-8	
Terphenyl-d14 (S)	63	%	29-106		8	11/07/17 08:32	11/08/17 10:22	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.0**	%	0.10	0.10	1		11/06/17 10:22		

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B9 5.0-7.5 **Lab ID: 40159995050** Collected: 10/31/17 09:20 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**0.099**	mg/kg	0.076	0.023	5	11/07/17 08:32	11/08/17 09:47	83-32-9	
Acenaphthylene	**<0.019**	mg/kg	0.065	0.019	5	11/07/17 08:32	11/08/17 09:47	208-96-8	
Anthracene	**0.30**	mg/kg	0.11	0.034	5	11/07/17 08:32	11/08/17 09:47	120-12-7	
Benzo(a)anthracene	**0.54**	mg/kg	0.062	0.019	5	11/07/17 08:32	11/08/17 09:47	56-55-3	
Benzo(a)pyrene	**0.52**	mg/kg	0.049	0.015	5	11/07/17 08:32	11/08/17 09:47	50-32-8	
Benzo(b)fluoranthene	**0.47**	mg/kg	0.055	0.017	5	11/07/17 08:32	11/08/17 09:47	205-99-2	
Benzo(g,h,i)perylene	**0.36**	mg/kg	0.040	0.012	5	11/07/17 08:32	11/08/17 09:47	191-24-2	
Benzo(k)fluoranthene	**0.54**	mg/kg	0.049	0.015	5	11/07/17 08:32	11/08/17 09:47	207-08-9	
Chrysene	**0.62**	mg/kg	0.066	0.020	5	11/07/17 08:32	11/08/17 09:47	218-01-9	
Dibenz(a,h)anthracene	**0.12**	mg/kg	0.044	0.013	5	11/07/17 08:32	11/08/17 09:47	53-70-3	
Fluoranthene	**1.8**	mg/kg	0.10	0.031	5	11/07/17 08:32	11/08/17 09:47	206-44-0	
Fluorene	**0.11**	mg/kg	0.081	0.024	5	11/07/17 08:32	11/08/17 09:47	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.33**	mg/kg	0.043	0.013	5	11/07/17 08:32	11/08/17 09:47	193-39-5	
1-Methylnaphthalene	**<0.024**	mg/kg	0.079	0.024	5	11/07/17 08:32	11/08/17 09:47	90-12-0	
2-Methylnaphthalene	**<0.029**	mg/kg	0.098	0.029	5	11/07/17 08:32	11/08/17 09:47	91-57-6	
Naphthalene	**0.050J**	mg/kg	0.17	0.050	5	11/07/17 08:32	11/08/17 09:47	91-20-3	
Phenanthrene	**1.3**	mg/kg	0.23	0.069	5	11/07/17 08:32	11/08/17 09:47	85-01-8	
Pyrene	**1.2**	mg/kg	0.088	0.027	5	11/07/17 08:32	11/08/17 09:47	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	59	%	23-106		5	11/07/17 08:32	11/08/17 09:47	321-60-8	
Terphenyl-d14 (S)	60	%	29-106		5	11/07/17 08:32	11/08/17 09:47	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.1**	%	0.10	0.10	1		11/06/17 10:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B9 10-12.5 **Lab ID: 40159995051** Collected: 10/31/17 09:30 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**0.0054J**	mg/kg	0.016	0.0047	1	11/07/17 08:32	11/08/17 11:31	83-32-9	
Acenaphthylene	**<0.0040**	mg/kg	0.013	0.0040	1	11/07/17 08:32	11/08/17 11:31	208-96-8	
Anthracene	**0.015J**	mg/kg	0.023	0.0070	1	11/07/17 08:32	11/08/17 11:31	120-12-7	
Benzo(a)anthracene	**0.043**	mg/kg	0.013	0.0039	1	11/07/17 08:32	11/08/17 11:31	56-55-3	
Benzo(a)pyrene	**0.044**	mg/kg	0.010	0.0031	1	11/07/17 08:32	11/08/17 11:31	50-32-8	
Benzo(b)fluoranthene	**0.047**	mg/kg	0.012	0.0035	1	11/07/17 08:32	11/08/17 11:31	205-99-2	
Benzo(g,h,i)perylene	**0.037**	mg/kg	0.0083	0.0025	1	11/07/17 08:32	11/08/17 11:31	191-24-2	
Benzo(k)fluoranthene	**0.040**	mg/kg	0.010	0.0031	1	11/07/17 08:32	11/08/17 11:31	207-08-9	
Chrysene	**0.053**	mg/kg	0.014	0.0041	1	11/07/17 08:32	11/08/17 11:31	218-01-9	
Dibenz(a,h)anthracene	**0.011**	mg/kg	0.0091	0.0027	1	11/07/17 08:32	11/08/17 11:31	53-70-3	
Fluoranthene	**0.13**	mg/kg	0.021	0.0064	1	11/07/17 08:32	11/08/17 11:31	206-44-0	
Fluorene	**0.0066J**	mg/kg	0.017	0.0051	1	11/07/17 08:32	11/08/17 11:31	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.031**	mg/kg	0.0090	0.0027	1	11/07/17 08:32	11/08/17 11:31	193-39-5	
1-Methylnaphthalene	**<0.0049**	mg/kg	0.016	0.0049	1	11/07/17 08:32	11/08/17 11:31	90-12-0	
2-Methylnaphthalene	**<0.0061**	mg/kg	0.020	0.0061	1	11/07/17 08:32	11/08/17 11:31	91-57-6	
Naphthalene	**0.014J**	mg/kg	0.034	0.010	1	11/07/17 08:32	11/08/17 11:31	91-20-3	
Phenanthrene	**0.077**	mg/kg	0.047	0.014	1	11/07/17 08:32	11/08/17 11:31	85-01-8	
Pyrene	**0.095**	mg/kg	0.018	0.0055	1	11/07/17 08:32	11/08/17 11:31	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	23-106		1	11/07/17 08:32	11/08/17 11:31	321-60-8	
Terphenyl-d14 (S)	59	%	29-106		1	11/07/17 08:32	11/08/17 11:31	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.2**	%	0.10	0.10	1		11/06/17 10:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B10 0-2.5 **Lab ID: 40159995052** Collected: 10/31/17 09:45 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**22.9**	ug/kg	5.0	0.40	2	11/06/17 08:06	11/07/17 23:13	83-32-9	
Acenaphthylene	**0.94J**	ug/kg	5.0	0.37	2	11/06/17 08:06	11/07/17 23:13	208-96-8	
Anthracene	**74.5**	ug/kg	49.7	5.5	20	11/06/17 08:06	11/07/17 19:59	120-12-7	
Benzo(a)anthracene	**138**	ug/kg	49.7	8.7	20	11/06/17 08:06	11/07/17 19:59	56-55-3	
Benzo(a)pyrene	**97.1**	ug/kg	49.7	11.9	20	11/06/17 08:06	11/07/17 19:59	50-32-8	
Benzo(b)fluoranthene	**101**	ug/kg	62.1	8.7	20	11/06/17 08:06	11/07/17 19:59	205-99-2	
Benzo(g,h,i)perylene	**65.1**	ug/kg	6.2	1.6	2	11/06/17 08:06	11/07/17 23:13	191-24-2	
Benzo(k)fluoranthene	**107**	ug/kg	62.1	6.0	20	11/06/17 08:06	11/07/17 19:59	207-08-9	
Chrysene	**135**	ug/kg	62.1	4.0	20	11/06/17 08:06	11/07/17 19:59	218-01-9	
Dibenz(a,h)anthracene	**21.1**	ug/kg	6.2	1.9	2	11/06/17 08:06	11/07/17 23:13	53-70-3	
Fluoranthene	**328**	ug/kg	49.7	7.5	20	11/06/17 08:06	11/07/17 19:59	206-44-0	
Fluorene	**26.5**	ug/kg	5.0	0.42	2	11/06/17 08:06	11/07/17 23:13	86-73-7	
Indeno(1,2,3-cd)pyrene	**60.8**	ug/kg	5.0	1.6	2	11/06/17 08:06	11/07/17 23:13	193-39-5	
1-Methylnaphthalene	**9.3**	ug/kg	5.0	0.48	2	11/06/17 08:06	11/07/17 23:13	90-12-0	N2
2-Methylnaphthalene	**11.7**	ug/kg	5.0	0.52	2	11/06/17 08:06	11/07/17 23:13	91-57-6	
Naphthalene	**22.3**	ug/kg	5.0	0.62	2	11/06/17 08:06	11/07/17 23:13	91-20-3	ED
Phenanthrene	**295**	ug/kg	49.7	6.2	20	11/06/17 08:06	11/07/17 19:59	85-01-8	
Pyrene	**297**	ug/kg	49.7	6.7	20	11/06/17 08:06	11/07/17 19:59	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	63	%.	50-150		2	11/06/17 08:06	11/07/17 23:13	93951-69-0	
2-Methylnaphthalene-d10 (S)	69	%.	50-150		2	11/06/17 08:06	11/07/17 23:13	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**16.8**	%	0.10	0.10	1		11/06/17 14:44		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B10 2.5-5.0 **Lab ID: 40159995053** Collected: 10/31/17 09:50 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**29.1**	ug/kg	23.8	1.9	10	11/06/17 08:06	11/07/17 23:45	83-32-9	
Acenaphthylene	**<1.8**	ug/kg	23.8	1.8	10	11/06/17 08:06	11/07/17 23:45	208-96-8	
Anthracene	**106**	ug/kg	23.8	2.6	10	11/06/17 08:06	11/07/17 23:45	120-12-7	
Benzo(a)anthracene	**242**	ug/kg	23.8	4.2	10	11/06/17 08:06	11/07/17 23:45	56-55-3	
Benzo(a)pyrene	**199**	ug/kg	23.8	5.7	10	11/06/17 08:06	11/07/17 23:45	50-32-8	
Benzo(b)fluoranthene	**193**	ug/kg	29.8	4.2	10	11/06/17 08:06	11/07/17 23:45	205-99-2	
Benzo(g,h,i)perylene	**131**	ug/kg	29.8	7.7	10	11/06/17 08:06	11/07/17 23:45	191-24-2	
Benzo(k)fluoranthene	**185**	ug/kg	29.8	2.9	10	11/06/17 08:06	11/07/17 23:45	207-08-9	
Chrysene	**229**	ug/kg	29.8	1.9	10	11/06/17 08:06	11/07/17 23:45	218-01-9	
Dibenz(a,h)anthracene	**45.1**	ug/kg	29.8	8.9	10	11/06/17 08:06	11/07/17 23:45	53-70-3	
Fluoranthene	**602**	ug/kg	95.3	14.3	40	11/06/17 08:06	11/07/17 20:31	206-44-0	
Fluorene	**40.1**	ug/kg	23.8	2.0	10	11/06/17 08:06	11/07/17 23:45	86-73-7	
Indeno(1,2,3-cd)pyrene	**120**	ug/kg	23.8	7.5	10	11/06/17 08:06	11/07/17 23:45	193-39-5	
1-Methylnaphthalene	**8.4J**	ug/kg	23.8	2.3	10	11/06/17 08:06	11/07/17 23:45	90-12-0	N2
2-Methylnaphthalene	**5.7J**	ug/kg	23.8	2.5	10	11/06/17 08:06	11/07/17 23:45	91-57-6	
Naphthalene	**16.0J**	ug/kg	23.8	3.0	10	11/06/17 08:06	11/07/17 23:45	91-20-3	B,ED
Phenanthrene	**411**	ug/kg	95.3	11.9	40	11/06/17 08:06	11/07/17 20:31	85-01-8	
Pyrene	**479**	ug/kg	95.3	12.9	40	11/06/17 08:06	11/07/17 20:31	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	87	%.	50-150		10	11/06/17 08:06	11/07/17 23:45	93951-69-0	
2-Methylnaphthalene-d10 (S)	69	%.	50-150		10	11/06/17 08:06	11/07/17 23:45	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**16.0**	%	0.10	0.10	1		11/06/17 14:45		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B10 5.0-7.5 **Lab ID: 40159995054** Collected: 10/31/17 09:55 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.19**	ug/kg	2.4	0.19	1	11/06/17 08:06	11/06/17 18:07	83-32-9	
Acenaphthylene	**<0.18**	ug/kg	2.4	0.18	1	11/06/17 08:06	11/06/17 18:07	208-96-8	
Anthracene	**0.46J**	ug/kg	2.4	0.26	1	11/06/17 08:06	11/06/17 18:07	120-12-7	
Benzo(a)anthracene	**1.9J**	ug/kg	2.4	0.42	1	11/06/17 08:06	11/06/17 18:07	56-55-3	B
Benzo(a)pyrene	**1.6J**	ug/kg	2.4	0.57	1	11/06/17 08:06	11/06/17 18:07	50-32-8	
Benzo(b)fluoranthene	**1.7J**	ug/kg	3.0	0.42	1	11/06/17 08:06	11/06/17 18:07	205-99-2	
Benzo(g,h,i)perylene	**2.0J**	ug/kg	3.0	0.77	1	11/06/17 08:06	11/06/17 18:07	191-24-2	
Benzo(k)fluoranthene	**1.6J**	ug/kg	3.0	0.29	1	11/06/17 08:06	11/06/17 18:07	207-08-9	B
Chrysene	**2.8J**	ug/kg	3.0	0.19	1	11/06/17 08:06	11/06/17 18:07	218-01-9	B
Dibenz(a,h)anthracene	**<0.89**	ug/kg	3.0	0.89	1	11/06/17 08:06	11/06/17 18:07	53-70-3	
Fluoranthene	**3.2**	ug/kg	2.4	0.36	1	11/06/17 08:06	11/06/17 18:07	206-44-0	
Fluorene	**<0.20**	ug/kg	2.4	0.20	1	11/06/17 08:06	11/06/17 18:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**1.3J**	ug/kg	2.4	0.75	1	11/06/17 08:06	11/06/17 18:07	193-39-5	
1-Methylnaphthalene	**<0.23**	ug/kg	2.4	0.23	1	11/06/17 08:06	11/06/17 18:07	90-12-0	N2
2-Methylnaphthalene	**<0.25**	ug/kg	2.4	0.25	1	11/06/17 08:06	11/06/17 18:07	91-57-6	
Naphthalene	**0.31J**	ug/kg	2.4	0.30	1	11/06/17 08:06	11/06/17 18:07	91-20-3	B
Phenanthrene	**2.5**	ug/kg	2.4	0.30	1	11/06/17 08:06	11/06/17 18:07	85-01-8	
Pyrene	**4.2**	ug/kg	2.4	0.32	1	11/06/17 08:06	11/06/17 18:07	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	73	%.	50-150		1	11/06/17 08:06	11/06/17 18:07	93951-69-0	
2-Methylnaphthalene-d10 (S)	70	%.	50-150		1	11/06/17 08:06	11/06/17 18:07	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**14.1**	%	0.10	0.10	1		11/06/17 14:47		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B10 7.5-10.0 **Lab ID: 40159995055** Collected: 10/31/17 10:00 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.19**	ug/kg	2.3	0.19	1	11/06/17 08:06	11/06/17 18:40	83-32-9	
Acenaphthylene	**<0.18**	ug/kg	2.3	0.18	1	11/06/17 08:06	11/06/17 18:40	208-96-8	
Anthracene	**0.52J**	ug/kg	2.3	0.26	1	11/06/17 08:06	11/06/17 18:40	120-12-7	
Benzo(a)anthracene	**3.7**	ug/kg	2.3	0.41	1	11/06/17 08:06	11/06/17 18:40	56-55-3	B
Benzo(a)pyrene	**3.0**	ug/kg	2.3	0.56	1	11/06/17 08:06	11/06/17 18:40	50-32-8	
Benzo(b)fluoranthene	**3.4**	ug/kg	2.9	0.41	1	11/06/17 08:06	11/06/17 18:40	205-99-2	
Benzo(g,h,i)perylene	**3.2**	ug/kg	2.9	0.76	1	11/06/17 08:06	11/06/17 18:40	191-24-2	
Benzo(k)fluoranthene	**2.8J**	ug/kg	2.9	0.28	1	11/06/17 08:06	11/06/17 18:40	207-08-9	B
Chrysene	**4.9**	ug/kg	2.9	0.19	1	11/06/17 08:06	11/06/17 18:40	218-01-9	
Dibenz(a,h)anthracene	**0.92J**	ug/kg	2.9	0.88	1	11/06/17 08:06	11/06/17 18:40	53-70-3	
Fluoranthene	**6.1**	ug/kg	2.3	0.35	1	11/06/17 08:06	11/06/17 18:40	206-44-0	
Fluorene	**<0.20**	ug/kg	2.3	0.20	1	11/06/17 08:06	11/06/17 18:40	86-73-7	
Indeno(1,2,3-cd)pyrene	**2.3J**	ug/kg	2.3	0.74	1	11/06/17 08:06	11/06/17 18:40	193-39-5	
1-Methylnaphthalene	**<0.23**	ug/kg	2.3	0.23	1	11/06/17 08:06	11/06/17 18:40	90-12-0	N2
2-Methylnaphthalene	**<0.25**	ug/kg	2.3	0.25	1	11/06/17 08:06	11/06/17 18:40	91-57-6	
Naphthalene	**0.32J**	ug/kg	2.3	0.29	1	11/06/17 08:06	11/06/17 18:40	91-20-3	B
Phenanthrene	**3.0**	ug/kg	2.3	0.29	1	11/06/17 08:06	11/06/17 18:40	85-01-8	
Pyrene	**6.9**	ug/kg	2.3	0.32	1	11/06/17 08:06	11/06/17 18:40	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	65	%.	50-150		1	11/06/17 08:06	11/06/17 18:40	93951-69-0	
2-Methylnaphthalene-d10 (S)	65	%.	50-150		1	11/06/17 08:06	11/06/17 18:40	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**14.9**	%	0.10	0.10	1		11/06/17 14:48		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B10 10-12.5 **Lab ID: 40159995056** Collected: 10/31/17 10:05 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.19**	ug/kg	2.4	0.19	1	11/06/17 08:06	11/06/17 19:12	83-32-9	
Acenaphthylene	**<0.18**	ug/kg	2.4	0.18	1	11/06/17 08:06	11/06/17 19:12	208-96-8	
Anthracene	**<0.26**	ug/kg	2.4	0.26	1	11/06/17 08:06	11/06/17 19:12	120-12-7	
Benzo(a)anthracene	**0.60J**	ug/kg	2.4	0.42	1	11/06/17 08:06	11/06/17 19:12	56-55-3	B
Benzo(a)pyrene	**0.57J**	ug/kg	2.4	0.57	1	11/06/17 08:06	11/06/17 19:12	50-32-8	
Benzo(b)fluoranthene	**0.76J**	ug/kg	3.0	0.42	1	11/06/17 08:06	11/06/17 19:12	205-99-2	
Benzo(g,h,i)perylene	**1.0J**	ug/kg	3.0	0.78	1	11/06/17 08:06	11/06/17 19:12	191-24-2	
Benzo(k)fluoranthene	**0.55J**	ug/kg	3.0	0.29	1	11/06/17 08:06	11/06/17 19:12	207-08-9	B
Chrysene	**1.4J**	ug/kg	3.0	0.19	1	11/06/17 08:06	11/06/17 19:12	218-01-9	B
Dibenz(a,h)anthracene	**<0.90**	ug/kg	3.0	0.90	1	11/06/17 08:06	11/06/17 19:12	53-70-3	
Fluoranthene	**0.88J**	ug/kg	2.4	0.36	1	11/06/17 08:06	11/06/17 19:12	206-44-0	
Fluorene	**<0.20**	ug/kg	2.4	0.20	1	11/06/17 08:06	11/06/17 19:12	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.75**	ug/kg	2.4	0.75	1	11/06/17 08:06	11/06/17 19:12	193-39-5	
1-Methylnaphthalene	**<0.23**	ug/kg	2.4	0.23	1	11/06/17 08:06	11/06/17 19:12	90-12-0	N2
2-Methylnaphthalene	**<0.25**	ug/kg	2.4	0.25	1	11/06/17 08:06	11/06/17 19:12	91-57-6	
Naphthalene	**<0.30**	ug/kg	2.4	0.30	1	11/06/17 08:06	11/06/17 19:12	91-20-3	
Phenanthrene	**0.92J**	ug/kg	2.4	0.30	1	11/06/17 08:06	11/06/17 19:12	85-01-8	
Pyrene	**1.3J**	ug/kg	2.4	0.32	1	11/06/17 08:06	11/06/17 19:12	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	69	%.	50-150		1	11/06/17 08:06	11/06/17 19:12	93951-69-0	
2-Methylnaphthalene-d10 (S)	70	%.	50-150		1	11/06/17 08:06	11/06/17 19:12	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**15.4**	%	0.10	0.10	1		11/06/17 14:50		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B10 12.5-15.0 **Lab ID: 40159995057** Collected: 10/31/17 10:10 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.19**	ug/kg	2.3	0.19	1	11/06/17 08:06	11/06/17 19:45	83-32-9	
Acenaphthylene	**<0.17**	ug/kg	2.3	0.17	1	11/06/17 08:06	11/06/17 19:45	208-96-8	
Anthracene	**<0.26**	ug/kg	2.3	0.26	1	11/06/17 08:06	11/06/17 19:45	120-12-7	
Benzo(a)anthracene	**0.79J**	ug/kg	2.3	0.41	1	11/06/17 08:06	11/06/17 19:45	56-55-3	B
Benzo(a)pyrene	**0.74J**	ug/kg	2.3	0.56	1	11/06/17 08:06	11/06/17 19:45	50-32-8	
Benzo(b)fluoranthene	**0.81J**	ug/kg	2.9	0.41	1	11/06/17 08:06	11/06/17 19:45	205-99-2	
Benzo(g,h,i)perylene	**1.1J**	ug/kg	2.9	0.76	1	11/06/17 08:06	11/06/17 19:45	191-24-2	
Benzo(k)fluoranthene	**0.79J**	ug/kg	2.9	0.28	1	11/06/17 08:06	11/06/17 19:45	207-08-9	B
Chrysene	**1.5J**	ug/kg	2.9	0.19	1	11/06/17 08:06	11/06/17 19:45	218-01-9	B
Dibenz(a,h)anthracene	**<0.87**	ug/kg	2.9	0.87	1	11/06/17 08:06	11/06/17 19:45	53-70-3	
Fluoranthene	**1.3J**	ug/kg	2.3	0.35	1	11/06/17 08:06	11/06/17 19:45	206-44-0	
Fluorene	**<0.20**	ug/kg	2.3	0.20	1	11/06/17 08:06	11/06/17 19:45	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.73**	ug/kg	2.3	0.73	1	11/06/17 08:06	11/06/17 19:45	193-39-5	
1-Methylnaphthalene	**<0.22**	ug/kg	2.3	0.22	1	11/06/17 08:06	11/06/17 19:45	90-12-0	N2
2-Methylnaphthalene	**<0.24**	ug/kg	2.3	0.24	1	11/06/17 08:06	11/06/17 19:45	91-57-6	
Naphthalene	**<0.29**	ug/kg	2.3	0.29	1	11/06/17 08:06	11/06/17 19:45	91-20-3	
Phenanthrene	**1.3J**	ug/kg	2.3	0.29	1	11/06/17 08:06	11/06/17 19:45	85-01-8	
Pyrene	**1.6J**	ug/kg	2.3	0.31	1	11/06/17 08:06	11/06/17 19:45	129-00-0	B
Surrogates									
Fluoranthene-d10 (S)	60	%.	50-150		1	11/06/17 08:06	11/06/17 19:45	93951-69-0	
2-Methylnaphthalene-d10 (S)	59	%.	50-150		1	11/06/17 08:06	11/06/17 19:45	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**15.2**	%	0.10	0.10	1		11/06/17 18:23		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B11 0-2.5 **Lab ID: 40159995058** Collected: 10/31/17 10:25 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.19**	ug/kg	2.4	0.19	1	11/06/17 08:06	11/06/17 15:11	83-32-9	
Acenaphthylene	**<0.18**	ug/kg	2.4	0.18	1	11/06/17 08:06	11/06/17 15:11	208-96-8	
Anthracene	**<0.26**	ug/kg	2.4	0.26	1	11/06/17 08:06	11/06/17 15:11	120-12-7	
Benzo(a)anthracene	**0.83J**	ug/kg	2.4	0.41	1	11/06/17 08:06	11/06/17 15:11	56-55-3	B
Benzo(a)pyrene	**0.59J**	ug/kg	2.4	0.57	1	11/06/17 08:06	11/06/17 15:11	50-32-8	
Benzo(b)fluoranthene	**0.66J**	ug/kg	2.9	0.41	1	11/06/17 08:06	11/06/17 15:11	205-99-2	
Benzo(g,h,i)perylene	**<0.77**	ug/kg	2.9	0.77	1	11/06/17 08:06	11/06/17 15:11	191-24-2	
Benzo(k)fluoranthene	**0.70J**	ug/kg	2.9	0.28	1	11/06/17 08:06	11/06/17 15:11	207-08-9	B
Chrysene	**0.87J**	ug/kg	2.9	0.19	1	11/06/17 08:06	11/06/17 15:11	218-01-9	B
Dibenz(a,h)anthracene	**<0.88**	ug/kg	2.9	0.88	1	11/06/17 08:06	11/06/17 15:11	53-70-3	
Fluoranthene	**0.78J**	ug/kg	2.4	0.35	1	11/06/17 08:06	11/06/17 15:11	206-44-0	
Fluorene	**<0.20**	ug/kg	2.4	0.20	1	11/06/17 08:06	11/06/17 15:11	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.74**	ug/kg	2.4	0.74	1	11/06/17 08:06	11/06/17 15:11	193-39-5	
1-Methylnaphthalene	**<0.23**	ug/kg	2.4	0.23	1	11/06/17 08:06	11/06/17 15:11	90-12-0	N2
2-Methylnaphthalene	**<0.25**	ug/kg	2.4	0.25	1	11/06/17 08:06	11/06/17 15:11	91-57-6	
Naphthalene	**<0.29**	ug/kg	2.4	0.29	1	11/06/17 08:06	11/06/17 15:11	91-20-3	
Phenanthrene	**0.67J**	ug/kg	2.4	0.29	1	11/06/17 08:06	11/06/17 15:11	85-01-8	
Pyrene	**0.88J**	ug/kg	2.4	0.32	1	11/06/17 08:06	11/06/17 15:11	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	66	%.	50-150		1	11/06/17 08:06	11/06/17 15:11	93951-69-0	
2-Methylnaphthalene-d10 (S)	68	%.	50-150		1	11/06/17 08:06	11/06/17 15:11	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**13.7**	%	0.10	0.10	1		11/06/17 18:28		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B11 2.5-5.0 **Lab ID: 40159995059** Collected: 10/31/17 10:30 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.19**	ug/kg	2.4	0.19	1	11/06/17 08:06	11/06/17 20:17	83-32-9	
Acenaphthylene	**<0.18**	ug/kg	2.4	0.18	1	11/06/17 08:06	11/06/17 20:17	208-96-8	
Anthracene	**0.29J**	ug/kg	2.4	0.26	1	11/06/17 08:06	11/06/17 20:17	120-12-7	
Benzo(a)anthracene	**1.4J**	ug/kg	2.4	0.42	1	11/06/17 08:06	11/06/17 20:17	56-55-3	B
Benzo(a)pyrene	**1.2J**	ug/kg	2.4	0.58	1	11/06/17 08:06	11/06/17 20:17	50-32-8	
Benzo(b)fluoranthene	**1.3J**	ug/kg	3.0	0.42	1	11/06/17 08:06	11/06/17 20:17	205-99-2	
Benzo(g,h,i)perylene	**1.2J**	ug/kg	3.0	0.78	1	11/06/17 08:06	11/06/17 20:17	191-24-2	
Benzo(k)fluoranthene	**1.1J**	ug/kg	3.0	0.29	1	11/06/17 08:06	11/06/17 20:17	207-08-9	B
Chrysene	**1.5J**	ug/kg	3.0	0.19	1	11/06/17 08:06	11/06/17 20:17	218-01-9	B
Dibenz(a,h)anthracene	**<0.90**	ug/kg	3.0	0.90	1	11/06/17 08:06	11/06/17 20:17	53-70-3	
Fluoranthene	**2.1J**	ug/kg	2.4	0.36	1	11/06/17 08:06	11/06/17 20:17	206-44-0	
Fluorene	**<0.20**	ug/kg	2.4	0.20	1	11/06/17 08:06	11/06/17 20:17	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.95J**	ug/kg	2.4	0.76	1	11/06/17 08:06	11/06/17 20:17	193-39-5	
1-Methylnaphthalene	**<0.23**	ug/kg	2.4	0.23	1	11/06/17 08:06	11/06/17 20:17	90-12-0	N2
2-Methylnaphthalene	**<0.25**	ug/kg	2.4	0.25	1	11/06/17 08:06	11/06/17 20:17	91-57-6	
Naphthalene	**<0.30**	ug/kg	2.4	0.30	1	11/06/17 08:06	11/06/17 20:17	91-20-3	
Phenanthrene	**1.5J**	ug/kg	2.4	0.30	1	11/06/17 08:06	11/06/17 20:17	85-01-8	
Pyrene	**1.9J**	ug/kg	2.4	0.32	1	11/06/17 08:06	11/06/17 20:17	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	72	%.	50-150		1	11/06/17 08:06	11/06/17 20:17	93951-69-0	
2-Methylnaphthalene-d10 (S)	70	%.	50-150		1	11/06/17 08:06	11/06/17 20:17	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**14.5**	%	0.10	0.10	1		11/06/17 18:29		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B11 5.0-7.5 **Lab ID: 40159995060** Collected: 10/31/17 10:35 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.20**	ug/kg	2.5	0.20	1	11/06/17 08:06	11/06/17 20:49	83-32-9	
Acenaphthylene	**<0.19**	ug/kg	2.5	0.19	1	11/06/17 08:06	11/06/17 20:49	208-96-8	
Anthracene	**<0.27**	ug/kg	2.5	0.27	1	11/06/17 08:06	11/06/17 20:49	120-12-7	
Benzo(a)anthracene	**1.1J**	ug/kg	2.5	0.43	1	11/06/17 08:06	11/06/17 20:49	56-55-3	B
Benzo(a)pyrene	**0.76J**	ug/kg	2.5	0.59	1	11/06/17 08:06	11/06/17 20:49	50-32-8	
Benzo(b)fluoranthene	**0.92J**	ug/kg	3.1	0.43	1	11/06/17 08:06	11/06/17 20:49	205-99-2	
Benzo(g,h,i)perylene	**0.84J**	ug/kg	3.1	0.80	1	11/06/17 08:06	11/06/17 20:49	191-24-2	
Benzo(k)fluoranthene	**0.88J**	ug/kg	3.1	0.30	1	11/06/17 08:06	11/06/17 20:49	207-08-9	B
Chrysene	**1.7J**	ug/kg	3.1	0.20	1	11/06/17 08:06	11/06/17 20:49	218-01-9	B
Dibenz(a,h)anthracene	**<0.93**	ug/kg	3.1	0.93	1	11/06/17 08:06	11/06/17 20:49	53-70-3	
Fluoranthene	**2.0J**	ug/kg	2.5	0.37	1	11/06/17 08:06	11/06/17 20:49	206-44-0	
Fluorene	**<0.21**	ug/kg	2.5	0.21	1	11/06/17 08:06	11/06/17 20:49	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.78**	ug/kg	2.5	0.78	1	11/06/17 08:06	11/06/17 20:49	193-39-5	
1-Methylnaphthalene	**<0.24**	ug/kg	2.5	0.24	1	11/06/17 08:06	11/06/17 20:49	90-12-0	N2
2-Methylnaphthalene	**<0.26**	ug/kg	2.5	0.26	1	11/06/17 08:06	11/06/17 20:49	91-57-6	
Naphthalene	**0.39J**	ug/kg	2.5	0.31	1	11/06/17 08:06	11/06/17 20:49	91-20-3	B
Phenanthrene	**1.7J**	ug/kg	2.5	0.31	1	11/06/17 08:06	11/06/17 20:49	85-01-8	
Pyrene	**1.8J**	ug/kg	2.5	0.33	1	11/06/17 08:06	11/06/17 20:49	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	67	%.	50-150		1	11/06/17 08:06	11/06/17 20:49	93951-69-0	
2-Methylnaphthalene-d10 (S)	62	%.	50-150		1	11/06/17 08:06	11/06/17 20:49	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**16.2**	%	0.10	0.10	1		11/06/17 18:30		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B11 7.5-10.0 **Lab ID: 40159995061** Collected: 10/31/17 10:40 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.37**	ug/kg	4.6	0.37	2	11/06/17 08:06	11/07/17 14:34	83-32-9	
Acenaphthylene	**<0.35**	ug/kg	4.6	0.35	2	11/06/17 08:06	11/07/17 14:34	208-96-8	
Anthracene	**1.8J**	ug/kg	4.6	0.51	2	11/06/17 08:06	11/07/17 14:34	120-12-7	
Benzo(a)anthracene	**6.7**	ug/kg	4.6	0.81	2	11/06/17 08:06	11/07/17 14:34	56-55-3	B
Benzo(a)pyrene	**6.1**	ug/kg	4.6	1.1	2	11/06/17 08:06	11/07/17 14:34	50-32-8	
Benzo(b)fluoranthene	**7.3**	ug/kg	5.8	0.81	2	11/06/17 08:06	11/07/17 14:34	205-99-2	
Benzo(g,h,i)perylene	**6.0**	ug/kg	5.8	1.5	2	11/06/17 08:06	11/07/17 14:34	191-24-2	
Benzo(k)fluoranthene	**6.9**	ug/kg	5.8	0.55	2	11/06/17 08:06	11/07/17 14:34	207-08-9	B
Chrysene	**9.8**	ug/kg	5.8	0.37	2	11/06/17 08:06	11/07/17 14:34	218-01-9	
Dibenz(a,h)anthracene	**2.4J**	ug/kg	5.8	1.7	2	11/06/17 08:06	11/07/17 14:34	53-70-3	
Fluoranthene	**8.3**	ug/kg	4.6	0.69	2	11/06/17 08:06	11/07/17 14:34	206-44-0	
Fluorene	**1.4J**	ug/kg	4.6	0.39	2	11/06/17 08:06	11/07/17 14:34	86-73-7	
Indeno(1,2,3-cd)pyrene	**5.0**	ug/kg	4.6	1.5	2	11/06/17 08:06	11/07/17 14:34	193-39-5	
1-Methylnaphthalene	**9.4**	ug/kg	4.6	0.44	2	11/06/17 08:06	11/07/17 14:34	90-12-0	N2
2-Methylnaphthalene	**11.6**	ug/kg	4.6	0.48	2	11/06/17 08:06	11/07/17 14:34	91-57-6	
Naphthalene	**4.9**	ug/kg	4.6	0.58	2	11/06/17 08:06	11/07/17 14:34	91-20-3	B,ED
Phenanthrene	**8.8**	ug/kg	4.6	0.58	2	11/06/17 08:06	11/07/17 14:34	85-01-8	
Pyrene	**14.4**	ug/kg	4.6	0.62	2	11/06/17 08:06	11/07/17 14:34	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	76	%.	50-150		2	11/06/17 08:06	11/07/17 14:34	93951-69-0	
2-Methylnaphthalene-d10 (S)	80	%.	50-150		2	11/06/17 08:06	11/07/17 14:34	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**13.7**	%	0.10	0.10	1		11/06/17 18:31		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B11 10.0-12.5 **Lab ID: 40159995062** Collected: 10/31/17 10:45 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.21**	ug/kg	2.6	0.21	1	11/06/17 08:06	11/06/17 21:22	83-32-9	
Acenaphthylene	**<0.20**	ug/kg	2.6	0.20	1	11/06/17 08:06	11/06/17 21:22	208-96-8	
Anthracene	**<0.29**	ug/kg	2.6	0.29	1	11/06/17 08:06	11/06/17 21:22	120-12-7	
Benzo(a)anthracene	**0.77J**	ug/kg	2.6	0.46	1	11/06/17 08:06	11/06/17 21:22	56-55-3	
Benzo(a)pyrene	**0.65J**	ug/kg	2.6	0.63	1	11/06/17 08:06	11/06/17 21:22	50-32-8	
Benzo(b)fluoranthene	**0.68J**	ug/kg	3.3	0.46	1	11/06/17 08:06	11/06/17 21:22	205-99-2	
Benzo(g,h,i)perylene	**1.6J**	ug/kg	3.3	0.85	1	11/06/17 08:06	11/06/17 21:22	191-24-2	
Benzo(k)fluoranthene	**0.49J**	ug/kg	3.3	0.31	1	11/06/17 08:06	11/06/17 21:22	207-08-9	B
Chrysene	**2.2J**	ug/kg	3.3	0.21	1	11/06/17 08:06	11/06/17 21:22	218-01-9	B
Dibenz(a,h)anthracene	**<0.98**	ug/kg	3.3	0.98	1	11/06/17 08:06	11/06/17 21:22	53-70-3	
Fluoranthene	**0.85J**	ug/kg	2.6	0.39	1	11/06/17 08:06	11/06/17 21:22	206-44-0	
Fluorene	**<0.22**	ug/kg	2.6	0.22	1	11/06/17 08:06	11/06/17 21:22	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.82**	ug/kg	2.6	0.82	1	11/06/17 08:06	11/06/17 21:22	193-39-5	
1-Methylnaphthalene	**0.78J**	ug/kg	2.6	0.25	1	11/06/17 08:06	11/06/17 21:22	90-12-0	N2
2-Methylnaphthalene	**0.72J**	ug/kg	2.6	0.27	1	11/06/17 08:06	11/06/17 21:22	91-57-6	
Naphthalene	**0.34J**	ug/kg	2.6	0.33	1	11/06/17 08:06	11/06/17 21:22	91-20-3	B
Phenanthrene	**1.8J**	ug/kg	2.6	0.33	1	11/06/17 08:06	11/06/17 21:22	85-01-8	
Pyrene	**1.5J**	ug/kg	2.6	0.35	1	11/06/17 08:06	11/06/17 21:22	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	64	%.	50-150		1	11/06/17 08:06	11/06/17 21:22	93951-69-0	
2-Methylnaphthalene-d10 (S)	68	%.	50-150		1	11/06/17 08:06	11/06/17 21:22	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**25.6**	%	0.10	0.10	1		11/06/17 18:34		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B11 12.5-15.0 **Lab ID: 40159995063** Collected: 10/31/17 10:50 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.19**	ug/kg	2.4	0.19	1	11/06/17 08:06	11/06/17 21:53	83-32-9	
Acenaphthylene	**<0.18**	ug/kg	2.4	0.18	1	11/06/17 08:06	11/06/17 21:53	208-96-8	
Anthracene	**<0.26**	ug/kg	2.4	0.26	1	11/06/17 08:06	11/06/17 21:53	120-12-7	
Benzo(a)anthracene	**1.2J**	ug/kg	2.4	0.41	1	11/06/17 08:06	11/06/17 21:53	56-55-3	B
Benzo(a)pyrene	**1.2J**	ug/kg	2.4	0.57	1	11/06/17 08:06	11/06/17 21:53	50-32-8	
Benzo(b)fluoranthene	**1.3J**	ug/kg	3.0	0.41	1	11/06/17 08:06	11/06/17 21:53	205-99-2	
Benzo(g,h,i)perylene	**1.5J**	ug/kg	3.0	0.77	1	11/06/17 08:06	11/06/17 21:53	191-24-2	
Benzo(k)fluoranthene	**1.0J**	ug/kg	3.0	0.28	1	11/06/17 08:06	11/06/17 21:53	207-08-9	B
Chrysene	**2.2J**	ug/kg	3.0	0.19	1	11/06/17 08:06	11/06/17 21:53	218-01-9	B
Dibenz(a,h)anthracene	**<0.89**	ug/kg	3.0	0.89	1	11/06/17 08:06	11/06/17 21:53	53-70-3	
Fluoranthene	**1.8J**	ug/kg	2.4	0.35	1	11/06/17 08:06	11/06/17 21:53	206-44-0	
Fluorene	**<0.20**	ug/kg	2.4	0.20	1	11/06/17 08:06	11/06/17 21:53	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.75**	ug/kg	2.4	0.75	1	11/06/17 08:06	11/06/17 21:53	193-39-5	
1-Methylnaphthalene	**0.36J**	ug/kg	2.4	0.23	1	11/06/17 08:06	11/06/17 21:53	90-12-0	N2
2-Methylnaphthalene	**0.44J**	ug/kg	2.4	0.25	1	11/06/17 08:06	11/06/17 21:53	91-57-6	
Naphthalene	**1.0J**	ug/kg	2.4	0.30	1	11/06/17 08:06	11/06/17 21:53	91-20-3	B
Phenanthrene	**1.6J**	ug/kg	2.4	0.30	1	11/06/17 08:06	11/06/17 21:53	85-01-8	
Pyrene	**2.2J**	ug/kg	2.4	0.32	1	11/06/17 08:06	11/06/17 21:53	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	67	%.	50-150		1	11/06/17 08:06	11/06/17 21:53	93951-69-0	
2-Methylnaphthalene-d10 (S)	66	%.	50-150		1	11/06/17 08:06	11/06/17 21:53	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**15.5**	%	0.10	0.10	1		11/06/17 18:37		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B11 15.0-17.5 **Lab ID: 40159995064** Collected: 10/31/17 11:45 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.19**	ug/kg	2.4	0.19	1	11/06/17 08:06	11/06/17 22:26	83-32-9	
Acenaphthylene	**<0.18**	ug/kg	2.4	0.18	1	11/06/17 08:06	11/06/17 22:26	208-96-8	
Anthracene	**<0.26**	ug/kg	2.4	0.26	1	11/06/17 08:06	11/06/17 22:26	120-12-7	
Benzo(a)anthracene	**1.0J**	ug/kg	2.4	0.42	1	11/06/17 08:06	11/06/17 22:26	56-55-3	B
Benzo(a)pyrene	**1.0J**	ug/kg	2.4	0.57	1	11/06/17 08:06	11/06/17 22:26	50-32-8	
Benzo(b)fluoranthene	**1.1J**	ug/kg	3.0	0.42	1	11/06/17 08:06	11/06/17 22:26	205-99-2	
Benzo(g,h,i)perylene	**1.3J**	ug/kg	3.0	0.78	1	11/06/17 08:06	11/06/17 22:26	191-24-2	
Benzo(k)fluoranthene	**0.91J**	ug/kg	3.0	0.29	1	11/06/17 08:06	11/06/17 22:26	207-08-9	B
Chrysene	**1.9J**	ug/kg	3.0	0.19	1	11/06/17 08:06	11/06/17 22:26	218-01-9	B
Dibenz(a,h)anthracene	**<0.90**	ug/kg	3.0	0.90	1	11/06/17 08:06	11/06/17 22:26	53-70-3	
Fluoranthene	**1.8J**	ug/kg	2.4	0.36	1	11/06/17 08:06	11/06/17 22:26	206-44-0	
Fluorene	**<0.20**	ug/kg	2.4	0.20	1	11/06/17 08:06	11/06/17 22:26	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.75**	ug/kg	2.4	0.75	1	11/06/17 08:06	11/06/17 22:26	193-39-5	
1-Methylnaphthalene	**0.63J**	ug/kg	2.4	0.23	1	11/06/17 08:06	11/06/17 22:26	90-12-0	N2
2-Methylnaphthalene	**1.1J**	ug/kg	2.4	0.25	1	11/06/17 08:06	11/06/17 22:26	91-57-6	
Naphthalene	**<0.30**	ug/kg	2.4	0.30	1	11/06/17 08:06	11/06/17 22:26	91-20-3	
Phenanthrene	**2.5**	ug/kg	2.4	0.30	1	11/06/17 08:06	11/06/17 22:26	85-01-8	
Pyrene	**2.1J**	ug/kg	2.4	0.32	1	11/06/17 08:06	11/06/17 22:26	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	66	%.	50-150		1	11/06/17 08:06	11/06/17 22:26	93951-69-0	
2-Methylnaphthalene-d10 (S)	64	%.	50-150		1	11/06/17 08:06	11/06/17 22:26	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**15.9**	%	0.10	0.10	1		11/06/17 18:39		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B11 17.5-20.0 **Lab ID: 40159995065** Collected: 10/31/17 11:50 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.19**	ug/kg	2.4	0.19	1	11/06/17 08:06	11/06/17 17:35	83-32-9	
Acenaphthylene	**<0.18**	ug/kg	2.4	0.18	1	11/06/17 08:06	11/06/17 17:35	208-96-8	
Anthracene	**<0.26**	ug/kg	2.4	0.26	1	11/06/17 08:06	11/06/17 17:35	120-12-7	
Benzo(a)anthracene	**0.77J**	ug/kg	2.4	0.42	1	11/06/17 08:06	11/06/17 17:35	56-55-3	B
Benzo(a)pyrene	**<0.58**	ug/kg	2.4	0.58	1	11/06/17 08:06	11/06/17 17:35	50-32-8	
Benzo(b)fluoranthene	**0.71J**	ug/kg	3.0	0.42	1	11/06/17 08:06	11/06/17 17:35	205-99-2	
Benzo(g,h,i)perylene	**<0.78**	ug/kg	3.0	0.78	1	11/06/17 08:06	11/06/17 17:35	191-24-2	
Benzo(k)fluoranthene	**0.69J**	ug/kg	3.0	0.29	1	11/06/17 08:06	11/06/17 17:35	207-08-9	B
Chrysene	**1.5J**	ug/kg	3.0	0.19	1	11/06/17 08:06	11/06/17 17:35	218-01-9	B
Dibenz(a,h)anthracene	**<0.90**	ug/kg	3.0	0.90	1	11/06/17 08:06	11/06/17 17:35	53-70-3	
Fluoranthene	**0.82J**	ug/kg	2.4	0.36	1	11/06/17 08:06	11/06/17 17:35	206-44-0	
Fluorene	**<0.20**	ug/kg	2.4	0.20	1	11/06/17 08:06	11/06/17 17:35	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.76**	ug/kg	2.4	0.76	1	11/06/17 08:06	11/06/17 17:35	193-39-5	
1-Methylnaphthalene	**0.35J**	ug/kg	2.4	0.23	1	11/06/17 08:06	11/06/17 17:35	90-12-0	N2
2-Methylnaphthalene	**0.66J**	ug/kg	2.4	0.25	1	11/06/17 08:06	11/06/17 17:35	91-57-6	
Naphthalene	**0.82J**	ug/kg	2.4	0.30	1	11/06/17 08:06	11/06/17 17:35	91-20-3	B
Phenanthrene	**1.2J**	ug/kg	2.4	0.30	1	11/06/17 08:06	11/06/17 17:35	85-01-8	
Pyrene	**0.70J**	ug/kg	2.4	0.32	1	11/06/17 08:06	11/06/17 17:35	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	58	%.	50-150		1	11/06/17 08:06	11/06/17 17:35	93951-69-0	
2-Methylnaphthalene-d10 (S)	61	%.	50-150		1	11/06/17 08:06	11/06/17 17:35	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**15.8**	%	0.10	0.10	1		11/06/17 18:44		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B12 0-2.5 **Lab ID: 40159995066** Collected: 10/31/17 12:15 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.19**	ug/kg	2.3	0.19	1	11/06/17 08:06	11/06/17 22:58	83-32-9	
Acenaphthylene	**<0.18**	ug/kg	2.3	0.18	1	11/06/17 08:06	11/06/17 22:58	208-96-8	
Anthracene	**<0.26**	ug/kg	2.3	0.26	1	11/06/17 08:06	11/06/17 22:58	120-12-7	
Benzo(a)anthracene	**0.43J**	ug/kg	2.3	0.41	1	11/06/17 08:06	11/06/17 22:58	56-55-3	B
Benzo(a)pyrene	**<0.56**	ug/kg	2.3	0.56	1	11/06/17 08:06	11/06/17 22:58	50-32-8	
Benzo(b)fluoranthene	**0.46J**	ug/kg	2.9	0.41	1	11/06/17 08:06	11/06/17 22:58	205-99-2	
Benzo(g,h,i)perylene	**0.84J**	ug/kg	2.9	0.76	1	11/06/17 08:06	11/06/17 22:58	191-24-2	
Benzo(k)fluoranthene	**0.42J**	ug/kg	2.9	0.28	1	11/06/17 08:06	11/06/17 22:58	207-08-9	B
Chrysene	**1.2J**	ug/kg	2.9	0.19	1	11/06/17 08:06	11/06/17 22:58	218-01-9	B
Dibenz(a,h)anthracene	**<0.88**	ug/kg	2.9	0.88	1	11/06/17 08:06	11/06/17 22:58	53-70-3	
Fluoranthene	**0.69J**	ug/kg	2.3	0.35	1	11/06/17 08:06	11/06/17 22:58	206-44-0	
Fluorene	**<0.20**	ug/kg	2.3	0.20	1	11/06/17 08:06	11/06/17 22:58	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.74**	ug/kg	2.3	0.74	1	11/06/17 08:06	11/06/17 22:58	193-39-5	
1-Methylnaphthalene	**<0.23**	ug/kg	2.3	0.23	1	11/06/17 08:06	11/06/17 22:58	90-12-0	N2
2-Methylnaphthalene	**<0.25**	ug/kg	2.3	0.25	1	11/06/17 08:06	11/06/17 22:58	91-57-6	
Naphthalene	**<0.29**	ug/kg	2.3	0.29	1	11/06/17 08:06	11/06/17 22:58	91-20-3	
Phenanthrene	**0.90J**	ug/kg	2.3	0.29	1	11/06/17 08:06	11/06/17 22:58	85-01-8	
Pyrene	**0.97J**	ug/kg	2.3	0.32	1	11/06/17 08:06	11/06/17 22:58	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	73	%.	50-150		1	11/06/17 08:06	11/06/17 22:58	93951-69-0	
2-Methylnaphthalene-d10 (S)	66	%.	50-150		1	11/06/17 08:06	11/06/17 22:58	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**15.8**	%	0.10	0.10	1		11/06/17 18:45		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B12 2.5-5.0 **Lab ID: 40159995067** Collected: 10/31/17 12:30 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.19**	ug/kg	2.4	0.19	1	11/06/17 08:06	11/06/17 23:30	83-32-9	
Acenaphthylene	**<0.18**	ug/kg	2.4	0.18	1	11/06/17 08:06	11/06/17 23:30	208-96-8	
Anthracene	**<0.26**	ug/kg	2.4	0.26	1	11/06/17 08:06	11/06/17 23:30	120-12-7	
Benzo(a)anthracene	**0.85J**	ug/kg	2.4	0.42	1	11/06/17 08:06	11/06/17 23:30	56-55-3	B
Benzo(a)pyrene	**0.67J**	ug/kg	2.4	0.58	1	11/06/17 08:06	11/06/17 23:30	50-32-8	
Benzo(b)fluoranthene	**1.0J**	ug/kg	3.0	0.42	1	11/06/17 08:06	11/06/17 23:30	205-99-2	
Benzo(g,h,i)perylene	**0.96J**	ug/kg	3.0	0.78	1	11/06/17 08:06	11/06/17 23:30	191-24-2	
Benzo(k)fluoranthene	**0.78J**	ug/kg	3.0	0.29	1	11/06/17 08:06	11/06/17 23:30	207-08-9	B
Chrysene	**1.7J**	ug/kg	3.0	0.19	1	11/06/17 08:06	11/06/17 23:30	218-01-9	B
Dibenz(a,h)anthracene	**<0.90**	ug/kg	3.0	0.90	1	11/06/17 08:06	11/06/17 23:30	53-70-3	
Fluoranthene	**1.7J**	ug/kg	2.4	0.36	1	11/06/17 08:06	11/06/17 23:30	206-44-0	
Fluorene	**<0.20**	ug/kg	2.4	0.20	1	11/06/17 08:06	11/06/17 23:30	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.76**	ug/kg	2.4	0.76	1	11/06/17 08:06	11/06/17 23:30	193-39-5	
1-Methylnaphthalene	**0.54J**	ug/kg	2.4	0.23	1	11/06/17 08:06	11/06/17 23:30	90-12-0	N2
2-Methylnaphthalene	**0.42J**	ug/kg	2.4	0.25	1	11/06/17 08:06	11/06/17 23:30	91-57-6	
Naphthalene	**0.41J**	ug/kg	2.4	0.30	1	11/06/17 08:06	11/06/17 23:30	91-20-3	B
Phenanthrene	**2.0J**	ug/kg	2.4	0.30	1	11/06/17 08:06	11/06/17 23:30	85-01-8	
Pyrene	**1.9J**	ug/kg	2.4	0.32	1	11/06/17 08:06	11/06/17 23:30	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	71	%.	50-150		1	11/06/17 08:06	11/06/17 23:30	93951-69-0	
2-Methylnaphthalene-d10 (S)	64	%.	50-150		1	11/06/17 08:06	11/06/17 23:30	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**15.3**	%	0.10	0.10	1		11/06/17 18:46		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B12 5.0-7.5 **Lab ID: 40159995068** Collected: 10/31/17 12:35 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.19**	ug/kg	2.3	0.19	1	11/06/17 10:26	11/07/17 00:02	83-32-9	
Acenaphthylene	**<0.17**	ug/kg	2.3	0.17	1	11/06/17 10:26	11/07/17 00:02	208-96-8	
Anthracene	**<0.26**	ug/kg	2.3	0.26	1	11/06/17 10:26	11/07/17 00:02	120-12-7	
Benzo(a)anthracene	**0.41J**	ug/kg	2.3	0.41	1	11/06/17 10:26	11/07/17 00:02	56-55-3	B
Benzo(a)pyrene	**<0.56**	ug/kg	2.3	0.56	1	11/06/17 10:26	11/07/17 00:02	50-32-8	
Benzo(b)fluoranthene	**0.49J**	ug/kg	2.9	0.41	1	11/06/17 10:26	11/07/17 00:02	205-99-2	
Benzo(g,h,i)perylene	**<0.76**	ug/kg	2.9	0.76	1	11/06/17 10:26	11/07/17 00:02	191-24-2	
Benzo(k)fluoranthene	**0.42J**	ug/kg	2.9	0.28	1	11/06/17 10:26	11/07/17 00:02	207-08-9	B
Chrysene	**1.1J**	ug/kg	2.9	0.19	1	11/06/17 10:26	11/07/17 00:02	218-01-9	B
Dibenz(a,h)anthracene	**<0.87**	ug/kg	2.9	0.87	1	11/06/17 10:26	11/07/17 00:02	53-70-3	
Fluoranthene	**0.59J**	ug/kg	2.3	0.35	1	11/06/17 10:26	11/07/17 00:02	206-44-0	
Fluorene	**<0.20**	ug/kg	2.3	0.20	1	11/06/17 10:26	11/07/17 00:02	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.73**	ug/kg	2.3	0.73	1	11/06/17 10:26	11/07/17 00:02	193-39-5	
1-Methylnaphthalene	**0.72J**	ug/kg	2.3	0.22	1	11/06/17 10:26	11/07/17 00:02	90-12-0	N2
2-Methylnaphthalene	**1.2J**	ug/kg	2.3	0.24	1	11/06/17 10:26	11/07/17 00:02	91-57-6	
Naphthalene	**0.36J**	ug/kg	2.3	0.29	1	11/06/17 10:26	11/07/17 00:02	91-20-3	B
Phenanthrene	**0.73J**	ug/kg	2.3	0.29	1	11/06/17 10:26	11/07/17 00:02	85-01-8	
Pyrene	**0.61J**	ug/kg	2.3	0.31	1	11/06/17 10:26	11/07/17 00:02	129-00-0	B
Surrogates									
Fluoranthene-d10 (S)	69	%.	50-150		1	11/06/17 10:26	11/07/17 00:02	93951-69-0	
2-Methylnaphthalene-d10 (S)	62	%.	50-150		1	11/06/17 10:26	11/07/17 00:02	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**14.8**	%	0.10	0.10	1		11/06/17 18:49		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B12 7.5-10.0 **Lab ID: 40159995069** Collected: 10/31/17 12:45 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.20**	ug/kg	2.5	0.20	1	11/06/17 10:26	11/07/17 00:34	83-32-9	
Acenaphthylene	**<0.19**	ug/kg	2.5	0.19	1	11/06/17 10:26	11/07/17 00:34	208-96-8	
Anthracene	**<0.27**	ug/kg	2.5	0.27	1	11/06/17 10:26	11/07/17 00:34	120-12-7	
Benzo(a)anthracene	**0.68J**	ug/kg	2.5	0.44	1	11/06/17 10:26	11/07/17 00:34	56-55-3	
Benzo(a)pyrene	**1.9J**	ug/kg	2.5	0.60	1	11/06/17 10:26	11/07/17 00:34	50-32-8	
Benzo(b)fluoranthene	**0.91J**	ug/kg	3.1	0.44	1	11/06/17 10:26	11/07/17 00:34	205-99-2	
Benzo(g,h,i)perylene	**1.7J**	ug/kg	3.1	0.81	1	11/06/17 10:26	11/07/17 00:34	191-24-2	
Benzo(k)fluoranthene	**0.57J**	ug/kg	3.1	0.30	1	11/06/17 10:26	11/07/17 00:34	207-08-9	B
Chrysene	**2.1J**	ug/kg	3.1	0.20	1	11/06/17 10:26	11/07/17 00:34	218-01-9	B
Dibenz(a,h)anthracene	**<0.93**	ug/kg	3.1	0.93	1	11/06/17 10:26	11/07/17 00:34	53-70-3	
Fluoranthene	**1.0J**	ug/kg	2.5	0.37	1	11/06/17 10:26	11/07/17 00:34	206-44-0	
Fluorene	**<0.21**	ug/kg	2.5	0.21	1	11/06/17 10:26	11/07/17 00:34	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.78**	ug/kg	2.5	0.78	1	11/06/17 10:26	11/07/17 00:34	193-39-5	
1-Methylnaphthalene	**<0.24**	ug/kg	2.5	0.24	1	11/06/17 10:26	11/07/17 00:34	90-12-0	N2
2-Methylnaphthalene	**<0.26**	ug/kg	2.5	0.26	1	11/06/17 10:26	11/07/17 00:34	91-57-6	
Naphthalene	**<0.31**	ug/kg	2.5	0.31	1	11/06/17 10:26	11/07/17 00:34	91-20-3	
Phenanthrene	**1.1J**	ug/kg	2.5	0.31	1	11/06/17 10:26	11/07/17 00:34	85-01-8	
Pyrene	**1.6J**	ug/kg	2.5	0.34	1	11/06/17 10:26	11/07/17 00:34	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	73	%.	50-150		1	11/06/17 10:26	11/07/17 00:34	93951-69-0	
2-Methylnaphthalene-d10 (S)	78	%.	50-150		1	11/06/17 10:26	11/07/17 00:34	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**15.2**	%	0.10	0.10	1		11/06/17 18:56		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B12 10.0-12.5 **Lab ID: 40159995070** Collected: 10/31/17 13:00 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.19**	ug/kg	2.4	0.19	1	11/06/17 10:26	11/07/17 01:07	83-32-9	
Acenaphthylene	**<0.18**	ug/kg	2.4	0.18	1	11/06/17 10:26	11/07/17 01:07	208-96-8	
Anthracene	**<0.26**	ug/kg	2.4	0.26	1	11/06/17 10:26	11/07/17 01:07	120-12-7	
Benzo(a)anthracene	**0.57J**	ug/kg	2.4	0.42	1	11/06/17 10:26	11/07/17 01:07	56-55-3	
Benzo(a)pyrene	**<0.57**	ug/kg	2.4	0.57	1	11/06/17 10:26	11/07/17 01:07	50-32-8	
Benzo(b)fluoranthene	**0.61J**	ug/kg	3.0	0.42	1	11/06/17 10:26	11/07/17 01:07	205-99-2	
Benzo(g,h,i)perylene	**<0.77**	ug/kg	3.0	0.77	1	11/06/17 10:26	11/07/17 01:07	191-24-2	
Benzo(k)fluoranthene	**0.53J**	ug/kg	3.0	0.29	1	11/06/17 10:26	11/07/17 01:07	207-08-9	B
Chrysene	**0.90J**	ug/kg	3.0	0.19	1	11/06/17 10:26	11/07/17 01:07	218-01-9	B
Dibenz(a,h)anthracene	**<0.89**	ug/kg	3.0	0.89	1	11/06/17 10:26	11/07/17 01:07	53-70-3	
Fluoranthene	**0.96J**	ug/kg	2.4	0.36	1	11/06/17 10:26	11/07/17 01:07	206-44-0	
Fluorene	**<0.20**	ug/kg	2.4	0.20	1	11/06/17 10:26	11/07/17 01:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.75**	ug/kg	2.4	0.75	1	11/06/17 10:26	11/07/17 01:07	193-39-5	
1-Methylnaphthalene	**1.4J**	ug/kg	2.4	0.23	1	11/06/17 10:26	11/07/17 01:07	90-12-0	N2
2-Methylnaphthalene	**2.0J**	ug/kg	2.4	0.25	1	11/06/17 10:26	11/07/17 01:07	91-57-6	
Naphthalene	**0.87J**	ug/kg	2.4	0.30	1	11/06/17 10:26	11/07/17 01:07	91-20-3	B
Phenanthrene	**1.7J**	ug/kg	2.4	0.30	1	11/06/17 10:26	11/07/17 01:07	85-01-8	
Pyrene	**1.1J**	ug/kg	2.4	0.32	1	11/06/17 10:26	11/07/17 01:07	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	69	%.	50-150		1	11/06/17 10:26	11/07/17 01:07	93951-69-0	
2-Methylnaphthalene-d10 (S)	73	%.	50-150		1	11/06/17 10:26	11/07/17 01:07	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**14.3**	%	0.10	0.10	1		11/06/17 18:57		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B13 0-2.5 **Lab ID: 40159995071** Collected: 10/31/17 13:10 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.22**	ug/kg	2.7	0.22	1	11/06/17 10:26	11/07/17 01:39	83-32-9	
Acenaphthylene	**<0.20**	ug/kg	2.7	0.20	1	11/06/17 10:26	11/07/17 01:39	208-96-8	
Anthracene	**<0.30**	ug/kg	2.7	0.30	1	11/06/17 10:26	11/07/17 01:39	120-12-7	
Benzo(a)anthracene	**0.72J**	ug/kg	2.7	0.48	1	11/06/17 10:26	11/07/17 01:39	56-55-3	
Benzo(a)pyrene	**<0.65**	ug/kg	2.7	0.65	1	11/06/17 10:26	11/07/17 01:39	50-32-8	
Benzo(b)fluoranthene	**0.67J**	ug/kg	3.4	0.48	1	11/06/17 10:26	11/07/17 01:39	205-99-2	
Benzo(g,h,i)perylene	**<0.89**	ug/kg	3.4	0.89	1	11/06/17 10:26	11/07/17 01:39	191-24-2	
Benzo(k)fluoranthene	**0.67J**	ug/kg	3.4	0.33	1	11/06/17 10:26	11/07/17 01:39	207-08-9	
Chrysene	**0.74J**	ug/kg	3.4	0.22	1	11/06/17 10:26	11/07/17 01:39	218-01-9	B
Dibenz(a,h)anthracene	**<1.0**	ug/kg	3.4	1.0	1	11/06/17 10:26	11/07/17 01:39	53-70-3	
Fluoranthene	**1.3J**	ug/kg	2.7	0.41	1	11/06/17 10:26	11/07/17 01:39	206-44-0	
Fluorene	**<0.23**	ug/kg	2.7	0.23	1	11/06/17 10:26	11/07/17 01:39	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.86**	ug/kg	2.7	0.86	1	11/06/17 10:26	11/07/17 01:39	193-39-5	
1-Methylnaphthalene	**<0.26**	ug/kg	2.7	0.26	1	11/06/17 10:26	11/07/17 01:39	90-12-0	N2
2-Methylnaphthalene	**<0.29**	ug/kg	2.7	0.29	1	11/06/17 10:26	11/07/17 01:39	91-57-6	
Naphthalene	**<0.34**	ug/kg	2.7	0.34	1	11/06/17 10:26	11/07/17 01:39	91-20-3	
Phenanthrene	**1.0J**	ug/kg	2.7	0.34	1	11/06/17 10:26	11/07/17 01:39	85-01-8	
Pyrene	**1.1J**	ug/kg	2.7	0.37	1	11/06/17 10:26	11/07/17 01:39	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	59	%.	50-150		1	11/06/17 10:26	11/07/17 01:39	93951-69-0	
2-Methylnaphthalene-d10 (S)	66	%.	50-150		1	11/06/17 10:26	11/07/17 01:39	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**25.3**	%	0.10	0.10	1		11/06/17 18:58		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B13 2.5-5.0 **Lab ID: 40159995072** Collected: 10/31/17 13:20 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.21**	ug/kg	2.7	0.21	1	11/06/17 10:26	11/07/17 09:43	83-32-9	
Acenaphthylene	**<0.20**	ug/kg	2.7	0.20	1	11/06/17 10:26	11/07/17 09:43	208-96-8	
Anthracene	**<0.29**	ug/kg	2.7	0.29	1	11/06/17 10:26	11/07/17 09:43	120-12-7	
Benzo(a)anthracene	**0.53J**	ug/kg	2.7	0.46	1	11/06/17 10:26	11/07/17 09:43	56-55-3	
Benzo(a)pyrene	**<0.64**	ug/kg	2.7	0.64	1	11/06/17 10:26	11/07/17 09:43	50-32-8	
Benzo(b)fluoranthene	**0.63J**	ug/kg	3.3	0.46	1	11/06/17 10:26	11/07/17 09:43	205-99-2	
Benzo(g,h,i)perylene	**<0.86**	ug/kg	3.3	0.86	1	11/06/17 10:26	11/07/17 09:43	191-24-2	
Benzo(k)fluoranthene	**0.41J**	ug/kg	3.3	0.32	1	11/06/17 10:26	11/07/17 09:43	207-08-9	B
Chrysene	**1.6J**	ug/kg	3.3	0.21	1	11/06/17 10:26	11/07/17 09:43	218-01-9	B
Dibenz(a,h)anthracene	**<0.99**	ug/kg	3.3	0.99	1	11/06/17 10:26	11/07/17 09:43	53-70-3	
Fluoranthene	**0.62J**	ug/kg	2.7	0.40	1	11/06/17 10:26	11/07/17 09:43	206-44-0	
Fluorene	**<0.23**	ug/kg	2.7	0.23	1	11/06/17 10:26	11/07/17 09:43	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.84**	ug/kg	2.7	0.84	1	11/06/17 10:26	11/07/17 09:43	193-39-5	
1-Methylnaphthalene	**0.32J**	ug/kg	2.7	0.25	1	11/06/17 10:26	11/07/17 09:43	90-12-0	N2
2-Methylnaphthalene	**0.47J**	ug/kg	2.7	0.28	1	11/06/17 10:26	11/07/17 09:43	91-57-6	
Naphthalene	**0.68J**	ug/kg	2.7	0.33	1	11/06/17 10:26	11/07/17 09:43	91-20-3	B
Phenanthrene	**0.97J**	ug/kg	2.7	0.33	1	11/06/17 10:26	11/07/17 09:43	85-01-8	
Pyrene	**0.65J**	ug/kg	2.7	0.36	1	11/06/17 10:26	11/07/17 09:43	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	56	%.	50-150		1	11/06/17 10:26	11/07/17 09:43	93951-69-0	
2-Methylnaphthalene-d10 (S)	72	%.	50-150		1	11/06/17 10:26	11/07/17 09:43	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**27.6**	%	0.10	0.10	1		11/06/17 18:59		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B13 5.0-7.5 **Lab ID: 40159995073** Collected: 10/31/17 13:30 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.22**	ug/kg	2.7	0.22	1	11/06/17 10:26	11/07/17 10:15	83-32-9	
Acenaphthylene	**<0.20**	ug/kg	2.7	0.20	1	11/06/17 10:26	11/07/17 10:15	208-96-8	
Anthracene	**1.1J**	ug/kg	2.7	0.30	1	11/06/17 10:26	11/07/17 10:15	120-12-7	
Benzo(a)anthracene	**5.5**	ug/kg	2.7	0.47	1	11/06/17 10:26	11/07/17 10:15	56-55-3	
Benzo(a)pyrene	**4.8**	ug/kg	2.7	0.65	1	11/06/17 10:26	11/07/17 10:15	50-32-8	
Benzo(b)fluoranthene	**4.1**	ug/kg	3.4	0.47	1	11/06/17 10:26	11/07/17 10:15	205-99-2	
Benzo(g,h,i)perylene	**2.9J**	ug/kg	3.4	0.88	1	11/06/17 10:26	11/07/17 10:15	191-24-2	
Benzo(k)fluoranthene	**4.0**	ug/kg	3.4	0.32	1	11/06/17 10:26	11/07/17 10:15	207-08-9	
Chrysene	**5.6**	ug/kg	3.4	0.22	1	11/06/17 10:26	11/07/17 10:15	218-01-9	
Dibenz(a,h)anthracene	**1.2J**	ug/kg	3.4	1.0	1	11/06/17 10:26	11/07/17 10:15	53-70-3	
Fluoranthene	**9.6**	ug/kg	2.7	0.41	1	11/06/17 10:26	11/07/17 10:15	206-44-0	
Fluorene	**<0.23**	ug/kg	2.7	0.23	1	11/06/17 10:26	11/07/17 10:15	86-73-7	
Indeno(1,2,3-cd)pyrene	**2.5J**	ug/kg	2.7	0.85	1	11/06/17 10:26	11/07/17 10:15	193-39-5	
1-Methylnaphthalene	**<0.26**	ug/kg	2.7	0.26	1	11/06/17 10:26	11/07/17 10:15	90-12-0	N2
2-Methylnaphthalene	**<0.28**	ug/kg	2.7	0.28	1	11/06/17 10:26	11/07/17 10:15	91-57-6	
Naphthalene	**0.41J**	ug/kg	2.7	0.34	1	11/06/17 10:26	11/07/17 10:15	91-20-3	B
Phenanthrene	**3.4**	ug/kg	2.7	0.34	1	11/06/17 10:26	11/07/17 10:15	85-01-8	
Pyrene	**9.9**	ug/kg	2.7	0.36	1	11/06/17 10:26	11/07/17 10:15	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	59	%.	50-150		1	11/06/17 10:26	11/07/17 10:15	93951-69-0	
2-Methylnaphthalene-d10 (S)	72	%.	50-150		1	11/06/17 10:26	11/07/17 10:15	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**22.8**	%	0.10	0.10	1		11/06/17 19:01		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B13 7.5-10.0 **Lab ID: 40159995074** Collected: 10/31/17 13:45 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.20**	ug/kg	2.4	0.20	1	11/06/17 10:26	11/07/17 10:48	83-32-9	
Acenaphthylene	**<0.18**	ug/kg	2.4	0.18	1	11/06/17 10:26	11/07/17 10:48	208-96-8	
Anthracene	**<0.27**	ug/kg	2.4	0.27	1	11/06/17 10:26	11/07/17 10:48	120-12-7	
Benzo(a)anthracene	**1.1J**	ug/kg	2.4	0.43	1	11/06/17 10:26	11/07/17 10:48	56-55-3	
Benzo(a)pyrene	**0.78J**	ug/kg	2.4	0.59	1	11/06/17 10:26	11/07/17 10:48	50-32-8	
Benzo(b)fluoranthene	**0.94J**	ug/kg	3.0	0.43	1	11/06/17 10:26	11/07/17 10:48	205-99-2	
Benzo(g,h,i)perylene	**<0.79**	ug/kg	3.0	0.79	1	11/06/17 10:26	11/07/17 10:48	191-24-2	
Benzo(k)fluoranthene	**0.84J**	ug/kg	3.0	0.29	1	11/06/17 10:26	11/07/17 10:48	207-08-9	B
Chrysene	**1.3J**	ug/kg	3.0	0.20	1	11/06/17 10:26	11/07/17 10:48	218-01-9	B
Dibenz(a,h)anthracene	**<0.91**	ug/kg	3.0	0.91	1	11/06/17 10:26	11/07/17 10:48	53-70-3	
Fluoranthene	**1.7J**	ug/kg	2.4	0.37	1	11/06/17 10:26	11/07/17 10:48	206-44-0	
Fluorene	**<0.21**	ug/kg	2.4	0.21	1	11/06/17 10:26	11/07/17 10:48	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.77**	ug/kg	2.4	0.77	1	11/06/17 10:26	11/07/17 10:48	193-39-5	
1-Methylnaphthalene	**<0.23**	ug/kg	2.4	0.23	1	11/06/17 10:26	11/07/17 10:48	90-12-0	N2
2-Methylnaphthalene	**<0.26**	ug/kg	2.4	0.26	1	11/06/17 10:26	11/07/17 10:48	91-57-6	
Naphthalene	**<0.30**	ug/kg	2.4	0.30	1	11/06/17 10:26	11/07/17 10:48	91-20-3	
Phenanthrene	**1.2J**	ug/kg	2.4	0.30	1	11/06/17 10:26	11/07/17 10:48	85-01-8	
Pyrene	**1.7J**	ug/kg	2.4	0.33	1	11/06/17 10:26	11/07/17 10:48	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	70	%.	50-150		1	11/06/17 10:26	11/07/17 10:48	93951-69-0	
2-Methylnaphthalene-d10 (S)	73	%.	50-150		1	11/06/17 10:26	11/07/17 10:48	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**14.9**	%	0.10	0.10	1		11/06/17 19:16		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B13 10.0-12.5 **Lab ID: 40159995075** Collected: 10/31/17 13:50 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**1.5J**	ug/kg	2.5	0.20	1	11/06/17 10:26	11/07/17 11:20	83-32-9	
Acenaphthylene	**0.30J**	ug/kg	2.5	0.18	1	11/06/17 10:26	11/07/17 11:20	208-96-8	B
Anthracene	**6.1**	ug/kg	2.5	0.27	1	11/06/17 10:26	11/07/17 11:20	120-12-7	
Benzo(a)anthracene	**21.6**	ug/kg	2.5	0.43	1	11/06/17 10:26	11/07/17 11:20	56-55-3	
Benzo(a)pyrene	**20.1**	ug/kg	2.5	0.59	1	11/06/17 10:26	11/07/17 11:20	50-32-8	
Benzo(b)fluoranthene	**19.7**	ug/kg	3.1	0.43	1	11/06/17 10:26	11/07/17 11:20	205-99-2	
Benzo(g,h,i)perylene	**12.1**	ug/kg	3.1	0.80	1	11/06/17 10:26	11/07/17 11:20	191-24-2	
Benzo(k)fluoranthene	**17.8**	ug/kg	3.1	0.30	1	11/06/17 10:26	11/07/17 11:20	207-08-9	
Chrysene	**22.1**	ug/kg	3.1	0.20	1	11/06/17 10:26	11/07/17 11:20	218-01-9	
Dibenz(a,h)anthracene	**4.1**	ug/kg	3.1	0.92	1	11/06/17 10:26	11/07/17 11:20	53-70-3	
Fluoranthene	**41.2**	ug/kg	4.9	0.74	2	11/06/17 10:26	11/07/17 21:04	206-44-0	
Fluorene	**1.8J**	ug/kg	2.5	0.21	1	11/06/17 10:26	11/07/17 11:20	86-73-7	
Indeno(1,2,3-cd)pyrene	**11.5**	ug/kg	2.5	0.78	1	11/06/17 10:26	11/07/17 11:20	193-39-5	
1-Methylnaphthalene	**0.78J**	ug/kg	2.5	0.24	1	11/06/17 10:26	11/07/17 11:20	90-12-0	N2
2-Methylnaphthalene	**0.88J**	ug/kg	2.5	0.26	1	11/06/17 10:26	11/07/17 11:20	91-57-6	
Naphthalene	**1.6J**	ug/kg	2.5	0.31	1	11/06/17 10:26	11/07/17 11:20	91-20-3	B
Phenanthrene	**27.0**	ug/kg	2.5	0.31	1	11/06/17 10:26	11/07/17 11:20	85-01-8	
Pyrene	**37.1**	ug/kg	4.9	0.67	2	11/06/17 10:26	11/07/17 21:04	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	57	%.	50-150		1	11/06/17 10:26	11/07/17 11:20	93951-69-0	
2-Methylnaphthalene-d10 (S)	70	%.	50-150		1	11/06/17 10:26	11/07/17 11:20	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**19.4**	%	0.10	0.10	1		11/06/17 19:17		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B13 12.5-15.0 **Lab ID: 40159995076** Collected: 10/31/17 13:55 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.21**	ug/kg	2.6	0.21	1	11/06/17 10:26	11/07/17 11:52	83-32-9	
Acenaphthylene	**<0.19**	ug/kg	2.6	0.19	1	11/06/17 10:26	11/07/17 11:52	208-96-8	
Anthracene	**<0.28**	ug/kg	2.6	0.28	1	11/06/17 10:26	11/07/17 11:52	120-12-7	
Benzo(a)anthracene	**0.74J**	ug/kg	2.6	0.45	1	11/06/17 10:26	11/07/17 11:52	56-55-3	
Benzo(a)pyrene	**<0.62**	ug/kg	2.6	0.62	1	11/06/17 10:26	11/07/17 11:52	50-32-8	
Benzo(b)fluoranthene	**0.55J**	ug/kg	3.2	0.45	1	11/06/17 10:26	11/07/17 11:52	205-99-2	
Benzo(g,h,i)perylene	**<0.84**	ug/kg	3.2	0.84	1	11/06/17 10:26	11/07/17 11:52	191-24-2	
Benzo(k)fluoranthene	**0.52J**	ug/kg	3.2	0.31	1	11/06/17 10:26	11/07/17 11:52	207-08-9	B
Chrysene	**0.99J**	ug/kg	3.2	0.21	1	11/06/17 10:26	11/07/17 11:52	218-01-9	B
Dibenz(a,h)anthracene	**<0.97**	ug/kg	3.2	0.97	1	11/06/17 10:26	11/07/17 11:52	53-70-3	
Fluoranthene	**1.2J**	ug/kg	2.6	0.39	1	11/06/17 10:26	11/07/17 11:52	206-44-0	
Fluorene	**<0.22**	ug/kg	2.6	0.22	1	11/06/17 10:26	11/07/17 11:52	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.81**	ug/kg	2.6	0.81	1	11/06/17 10:26	11/07/17 11:52	193-39-5	
1-Methylnaphthalene	**<0.25**	ug/kg	2.6	0.25	1	11/06/17 10:26	11/07/17 11:52	90-12-0	N2
2-Methylnaphthalene	**<0.27**	ug/kg	2.6	0.27	1	11/06/17 10:26	11/07/17 11:52	91-57-6	
Naphthalene	**<0.32**	ug/kg	2.6	0.32	1	11/06/17 10:26	11/07/17 11:52	91-20-3	
Phenanthrene	**0.62J**	ug/kg	2.6	0.32	1	11/06/17 10:26	11/07/17 11:52	85-01-8	
Pyrene	**1.1J**	ug/kg	2.6	0.35	1	11/06/17 10:26	11/07/17 11:52	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	73	%.	50-150		1	11/06/17 10:26	11/07/17 11:52	93951-69-0	
2-Methylnaphthalene-d10 (S)	79	%.	50-150		1	11/06/17 10:26	11/07/17 11:52	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**19.5**	%	0.10	0.10	1		11/06/17 19:18		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B13 15.0-17.5 **Lab ID: 40159995077** Collected: 10/31/17 14:00 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**1.2J**	ug/kg	2.6	0.21	1	11/06/17 10:26	11/07/17 12:24	83-32-9	
Acenaphthylene	**<0.19**	ug/kg	2.6	0.19	1	11/06/17 10:26	11/07/17 12:24	208-96-8	
Anthracene	**4.4**	ug/kg	2.6	0.29	1	11/06/17 10:26	11/07/17 12:24	120-12-7	
Benzo(a)anthracene	**10.5**	ug/kg	2.6	0.45	1	11/06/17 10:26	11/07/17 12:24	56-55-3	
Benzo(a)pyrene	**8.1**	ug/kg	2.6	0.62	1	11/06/17 10:26	11/07/17 12:24	50-32-8	
Benzo(b)fluoranthene	**8.9**	ug/kg	3.2	0.45	1	11/06/17 10:26	11/07/17 12:24	205-99-2	
Benzo(g,h,i)perylene	**5.7**	ug/kg	3.2	0.84	1	11/06/17 10:26	11/07/17 12:24	191-24-2	
Benzo(k)fluoranthene	**6.9**	ug/kg	3.2	0.31	1	11/06/17 10:26	11/07/17 12:24	207-08-9	
Chrysene	**10.3**	ug/kg	3.2	0.21	1	11/06/17 10:26	11/07/17 12:24	218-01-9	
Dibenz(a,h)anthracene	**1.8J**	ug/kg	3.2	0.97	1	11/06/17 10:26	11/07/17 12:24	53-70-3	
Fluoranthene	**25.9**	ug/kg	2.6	0.39	1	11/06/17 10:26	11/07/17 12:24	206-44-0	
Fluorene	**1.1J**	ug/kg	2.6	0.22	1	11/06/17 10:26	11/07/17 12:24	86-73-7	
Indeno(1,2,3-cd)pyrene	**4.8**	ug/kg	2.6	0.82	1	11/06/17 10:26	11/07/17 12:24	193-39-5	
1-Methylnaphthalene	**0.37J**	ug/kg	2.6	0.25	1	11/06/17 10:26	11/07/17 12:24	90-12-0	N2
2-Methylnaphthalene	**0.54J**	ug/kg	2.6	0.27	1	11/06/17 10:26	11/07/17 12:24	91-57-6	
Naphthalene	**1.1J**	ug/kg	2.6	0.32	1	11/06/17 10:26	11/07/17 12:24	91-20-3	B
Phenanthrene	**18.3**	ug/kg	2.6	0.32	1	11/06/17 10:26	11/07/17 12:24	85-01-8	
Pyrene	**21.7**	ug/kg	2.6	0.35	1	11/06/17 10:26	11/07/17 12:24	129-00-0	
Surrogates									
Fluoranthene-d10 (S)	72	%.	50-150		1	11/06/17 10:26	11/07/17 12:24	93951-69-0	
2-Methylnaphthalene-d10 (S)	71	%.	50-150		1	11/06/17 10:26	11/07/17 12:24	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**22.8**	%	0.10	0.10	1		11/06/17 19:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B13 17.5-20.0 **Lab ID: 40159995078** Collected: 10/31/17 14:05 Received: 11/02/17 07:35 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
8270C MSSV PAH by SIM	Analytical Method: EPA 8270C SIM Preparation Method: EPA 3545A								
Acenaphthene	**<0.18**	ug/kg	2.2	0.18	1	11/06/17 10:26	11/07/17 12:57	83-32-9	
Acenaphthylene	**<0.16**	ug/kg	2.2	0.16	1	11/06/17 10:26	11/07/17 12:57	208-96-8	
Anthracene	**<0.24**	ug/kg	2.2	0.24	1	11/06/17 10:26	11/07/17 12:57	120-12-7	
Benzo(a)anthracene	**1.3J**	ug/kg	2.2	0.38	1	11/06/17 10:26	11/07/17 12:57	56-55-3	B
Benzo(a)pyrene	**0.98J**	ug/kg	2.2	0.53	1	11/06/17 10:26	11/07/17 12:57	50-32-8	
Benzo(b)fluoranthene	**1.2J**	ug/kg	2.7	0.38	1	11/06/17 10:26	11/07/17 12:57	205-99-2	
Benzo(g,h,i)perylene	**1.7J**	ug/kg	2.7	0.71	1	11/06/17 10:26	11/07/17 12:57	191-24-2	
Benzo(k)fluoranthene	**0.92J**	ug/kg	2.7	0.26	1	11/06/17 10:26	11/07/17 12:57	207-08-9	B
Chrysene	**3.1**	ug/kg	2.7	0.18	1	11/06/17 10:26	11/07/17 12:57	218-01-9	B
Dibenz(a,h)anthracene	**<0.82**	ug/kg	2.7	0.82	1	11/06/17 10:26	11/07/17 12:57	53-70-3	
Fluoranthene	**1.7J**	ug/kg	2.2	0.33	1	11/06/17 10:26	11/07/17 12:57	206-44-0	B
Fluorene	**<0.19**	ug/kg	2.2	0.19	1	11/06/17 10:26	11/07/17 12:57	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.69J**	ug/kg	2.2	0.69	1	11/06/17 10:26	11/07/17 12:57	193-39-5	
1-Methylnaphthalene	**1.0J**	ug/kg	2.2	0.21	1	11/06/17 10:26	11/07/17 12:57	90-12-0	N2
2-Methylnaphthalene	**2.1J**	ug/kg	2.2	0.23	1	11/06/17 10:26	11/07/17 12:57	91-57-6	
Naphthalene	**1.2J**	ug/kg	2.2	0.27	1	11/06/17 10:26	11/07/17 12:57	91-20-3	B
Phenanthrene	**1.7J**	ug/kg	2.2	0.27	1	11/06/17 10:26	11/07/17 12:57	85-01-8	
Pyrene	**1.8J**	ug/kg	2.2	0.30	1	11/06/17 10:26	11/07/17 12:57	129-00-0	B
Surrogates									
Fluoranthene-d10 (S)	62	%.	50-150		1	11/06/17 10:26	11/07/17 12:57	93951-69-0	
2-Methylnaphthalene-d10 (S)	79	%.	50-150		1	11/06/17 10:26	11/07/17 12:57	7297-45-2	
Percent Moisture	Analytical Method: SM 2540 G-11/3550								
Percent Moisture	**6.4**	%	0.10	0.10	1		11/06/17 19:24		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B14 0-2.5 **Lab ID: 40159995079** Collected: 10/30/17 15:00 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**0.021J**	mg/kg	0.063	0.019	4	11/07/17 08:32	11/08/17 10:05	83-32-9	
Acenaphthylene	**<0.016**	mg/kg	0.054	0.016	4	11/07/17 08:32	11/08/17 10:05	208-96-8	
Anthracene	**0.12**	mg/kg	0.093	0.028	4	11/07/17 08:32	11/08/17 10:05	120-12-7	
Benzo(a)anthracene	**0.58**	mg/kg	0.052	0.015	4	11/07/17 08:32	11/08/17 10:05	56-55-3	
Benzo(a)pyrene	**0.56**	mg/kg	0.041	0.012	4	11/07/17 08:32	11/08/17 10:05	50-32-8	
Benzo(b)fluoranthene	**0.54**	mg/kg	0.046	0.014	4	11/07/17 08:32	11/08/17 10:05	205-99-2	
Benzo(g,h,i)perylene	**0.35**	mg/kg	0.033	0.0099	4	11/07/17 08:32	11/08/17 10:05	191-24-2	
Benzo(k)fluoranthene	**0.50**	mg/kg	0.041	0.012	4	11/07/17 08:32	11/08/17 10:05	207-08-9	
Chrysene	**0.67**	mg/kg	0.055	0.016	4	11/07/17 08:32	11/08/17 10:05	218-01-9	
Dibenz(a,h)anthracene	**0.13**	mg/kg	0.036	0.011	4	11/07/17 08:32	11/08/17 10:05	53-70-3	
Fluoranthene	**1.4**	mg/kg	0.085	0.025	4	11/07/17 08:32	11/08/17 10:05	206-44-0	
Fluorene	**0.025J**	mg/kg	0.067	0.020	4	11/07/17 08:32	11/08/17 10:05	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.33**	mg/kg	0.036	0.011	4	11/07/17 08:32	11/08/17 10:05	193-39-5	
1-Methylnaphthalene	**<0.020**	mg/kg	0.065	0.020	4	11/07/17 08:32	11/08/17 10:05	90-12-0	
2-Methylnaphthalene	**<0.024**	mg/kg	0.081	0.024	4	11/07/17 08:32	11/08/17 10:05	91-57-6	
Naphthalene	**<0.041**	mg/kg	0.14	0.041	4	11/07/17 08:32	11/08/17 10:05	91-20-3	
Phenanthrene	**0.45**	mg/kg	0.19	0.057	4	11/07/17 08:32	11/08/17 10:05	85-01-8	
Pyrene	**1.0**	mg/kg	0.073	0.022	4	11/07/17 08:32	11/08/17 10:05	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	55	%	23-106		4	11/07/17 08:32	11/08/17 10:05	321-60-8	
Terphenyl-d14 (S)	57	%	29-106		4	11/07/17 08:32	11/08/17 10:05	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.0**	%	0.10	0.10	1		11/06/17 10:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B14 2.5-5.0 **Lab ID: 40159995080** Collected: 10/30/17 15:10 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<0.0049**	mg/kg	0.016	0.0049	1	11/07/17 08:32	11/07/17 17:09	83-32-9	
Acenaphthylene	**<0.0042**	mg/kg	0.014	0.0042	1	11/07/17 08:32	11/07/17 17:09	208-96-8	
Anthracene	**0.021J**	mg/kg	0.024	0.0073	1	11/07/17 08:32	11/07/17 17:09	120-12-7	
Benzo(a)anthracene	**0.10**	mg/kg	0.013	0.0040	1	11/07/17 08:32	11/07/17 17:09	56-55-3	
Benzo(a)pyrene	**0.11**	mg/kg	0.011	0.0032	1	11/07/17 08:32	11/07/17 17:09	50-32-8	
Benzo(b)fluoranthene	**0.11**	mg/kg	0.012	0.0036	1	11/07/17 08:32	11/07/17 17:09	205-99-2	
Benzo(g,h,i)perylene	**0.045**	mg/kg	0.0086	0.0026	1	11/07/17 08:32	11/07/17 17:09	191-24-2	
Benzo(k)fluoranthene	**0.11**	mg/kg	0.011	0.0032	1	11/07/17 08:32	11/07/17 17:09	207-08-9	
Chrysene	**0.12**	mg/kg	0.014	0.0043	1	11/07/17 08:32	11/07/17 17:09	218-01-9	
Dibenz(a,h)anthracene	**0.019**	mg/kg	0.0095	0.0028	1	11/07/17 08:32	11/07/17 17:09	53-70-3	
Fluoranthene	**0.25**	mg/kg	0.022	0.0066	1	11/07/17 08:32	11/07/17 17:09	206-44-0	
Fluorene	**<0.0053**	mg/kg	0.018	0.0053	1	11/07/17 08:32	11/07/17 17:09	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.053**	mg/kg	0.0093	0.0028	1	11/07/17 08:32	11/07/17 17:09	193-39-5	
1-Methylnaphthalene	**<0.0051**	mg/kg	0.017	0.0051	1	11/07/17 08:32	11/07/17 17:09	90-12-0	
2-Methylnaphthalene	**<0.0064**	mg/kg	0.021	0.0064	1	11/07/17 08:32	11/07/17 17:09	91-57-6	
Naphthalene	**<0.011**	mg/kg	0.036	0.011	1	11/07/17 08:32	11/07/17 17:09	91-20-3	
Phenanthrene	**0.078**	mg/kg	0.049	0.015	1	11/07/17 08:32	11/07/17 17:09	85-01-8	
Pyrene	**0.19**	mg/kg	0.019	0.0057	1	11/07/17 08:32	11/07/17 17:09	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	71	%	23-106		1	11/07/17 08:32	11/07/17 17:09	321-60-8	
Terphenyl-d14 (S)	80	%	29-106		1	11/07/17 08:32	11/07/17 17:09	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.6**	%	0.10	0.10	1		11/06/17 10:22		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B14 5.0-7.5 **Lab ID: 40159995081** Collected: 10/30/17 15:20 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**0.12**	mg/kg	0.017	0.0051	1	11/07/17 08:32	11/08/17 16:26	83-32-9	
Acenaphthylene	**0.11**	mg/kg	0.014	0.0043	1	11/07/17 08:32	11/08/17 16:26	208-96-8	
Anthracene	**0.14**	mg/kg	0.025	0.0075	1	11/07/17 08:32	11/08/17 16:26	120-12-7	
Benzo(a)anthracene	**0.19**	mg/kg	0.014	0.0041	1	11/07/17 08:32	11/08/17 16:26	56-55-3	
Benzo(a)pyrene	**0.37**	mg/kg	0.011	0.0033	1	11/07/17 08:32	11/08/17 16:26	50-32-8	
Benzo(b)fluoranthene	**0.27**	mg/kg	0.012	0.0037	1	11/07/17 08:32	11/08/17 16:26	205-99-2	
Benzo(g,h,i)perylene	**0.39**	mg/kg	0.0089	0.0027	1	11/07/17 08:32	11/08/17 16:26	191-24-2	
Benzo(k)fluoranthene	**0.29**	mg/kg	0.011	0.0033	1	11/07/17 08:32	11/08/17 16:26	207-08-9	
Chrysene	**0.21**	mg/kg	0.015	0.0044	1	11/07/17 08:32	11/08/17 16:26	218-01-9	
Dibenz(a,h)anthracene	**0.10**	mg/kg	0.0097	0.0029	1	11/07/17 08:32	11/08/17 16:26	53-70-3	
Fluoranthene	**0.34**	mg/kg	0.023	0.0068	1	11/07/17 08:32	11/08/17 16:26	206-44-0	
Fluorene	**0.16**	mg/kg	0.018	0.0054	1	11/07/17 08:32	11/08/17 16:26	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.35**	mg/kg	0.0096	0.0029	1	11/07/17 08:32	11/08/17 16:26	193-39-5	
1-Methylnaphthalene	**0.88**	mg/kg	0.018	0.0053	1	11/07/17 08:32	11/08/17 16:26	90-12-0	
2-Methylnaphthalene	**1.0**	mg/kg	0.022	0.0065	1	11/07/17 08:32	11/08/17 16:26	91-57-6	
Naphthalene	**0.14**	mg/kg	0.037	0.011	1	11/07/17 08:32	11/08/17 16:26	91-20-3	
Phenanthrene	**0.79**	mg/kg	0.051	0.015	1	11/07/17 08:32	11/08/17 16:26	85-01-8	
Pyrene	**0.31**	mg/kg	0.020	0.0059	1	11/07/17 08:32	11/08/17 16:26	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	71	%	23-106		1	11/07/17 08:32	11/08/17 16:26	321-60-8	
Terphenyl-d14 (S)	75	%	29-106		1	11/07/17 08:32	11/08/17 16:26	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.5**	%	0.10	0.10	1		11/06/17 10:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B14 7.5-10.0 **Lab ID: 40159995082** Collected: 10/30/17 15:30 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**0.017**	mg/kg	0.016	0.0048	1	11/07/17 08:32	11/07/17 17:26	83-32-9	
Acenaphthylene	**0.0046J**	mg/kg	0.014	0.0041	1	11/07/17 08:32	11/07/17 17:26	208-96-8	
Anthracene	**0.031**	mg/kg	0.024	0.0071	1	11/07/17 08:32	11/07/17 17:26	120-12-7	
Benzo(a)anthracene	**0.17**	mg/kg	0.013	0.0040	1	11/07/17 08:32	11/07/17 17:26	56-55-3	
Benzo(a)pyrene	**0.18**	mg/kg	0.010	0.0031	1	11/07/17 08:32	11/07/17 17:26	50-32-8	
Benzo(b)fluoranthene	**0.15**	mg/kg	0.012	0.0035	1	11/07/17 08:32	11/07/17 17:26	205-99-2	
Benzo(g,h,i)perylene	**0.067**	mg/kg	0.0084	0.0025	1	11/07/17 08:32	11/07/17 17:26	191-24-2	
Benzo(k)fluoranthene	**0.20**	mg/kg	0.010	0.0031	1	11/07/17 08:32	11/07/17 17:26	207-08-9	
Chrysene	**0.20**	mg/kg	0.014	0.0042	1	11/07/17 08:32	11/07/17 17:26	218-01-9	
Dibenz(a,h)anthracene	**0.033**	mg/kg	0.0093	0.0028	1	11/07/17 08:32	11/07/17 17:26	53-70-3	
Fluoranthene	**0.38**	mg/kg	0.022	0.0065	1	11/07/17 08:32	11/07/17 17:26	206-44-0	
Fluorene	**0.011J**	mg/kg	0.017	0.0052	1	11/07/17 08:32	11/07/17 17:26	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.082**	mg/kg	0.0091	0.0027	1	11/07/17 08:32	11/07/17 17:26	193-39-5	
1-Methylnaphthalene	**<0.0050**	mg/kg	0.017	0.0050	1	11/07/17 08:32	11/07/17 17:26	90-12-0	
2-Methylnaphthalene	**<0.0062**	mg/kg	0.021	0.0062	1	11/07/17 08:32	11/07/17 17:26	91-57-6	
Naphthalene	**0.014J**	mg/kg	0.035	0.010	1	11/07/17 08:32	11/07/17 17:26	91-20-3	
Phenanthrene	**0.14**	mg/kg	0.048	0.015	1	11/07/17 08:32	11/07/17 17:26	85-01-8	
Pyrene	**0.31**	mg/kg	0.019	0.0056	1	11/07/17 08:32	11/07/17 17:26	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%	23-106		1	11/07/17 08:32	11/07/17 17:26	321-60-8	
Terphenyl-d14 (S)	82	%	29-106		1	11/07/17 08:32	11/07/17 17:26	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.6**	%	0.10	0.10	1		11/06/17 10:22		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B14 10.0-12.5 **Lab ID: 40159995083** Collected: 10/30/17 15:40 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<0.0046**	mg/kg	0.015	0.0046	1	11/07/17 08:32	11/07/17 17:44	83-32-9	
Acenaphthylene	**<0.0039**	mg/kg	0.013	0.0039	1	11/07/17 08:32	11/07/17 17:44	208-96-8	
Anthracene	**<0.0068**	mg/kg	0.023	0.0068	1	11/07/17 08:32	11/07/17 17:44	120-12-7	
Benzo(a)anthracene	**0.0074J**	mg/kg	0.013	0.0038	1	11/07/17 08:32	11/07/17 17:44	56-55-3	
Benzo(a)pyrene	**0.0073J**	mg/kg	0.0099	0.0030	1	11/07/17 08:32	11/07/17 17:44	50-32-8	
Benzo(b)fluoranthene	**0.0062J**	mg/kg	0.011	0.0034	1	11/07/17 08:32	11/07/17 17:44	205-99-2	
Benzo(g,h,i)perylene	**0.0025J**	mg/kg	0.0080	0.0024	1	11/07/17 08:32	11/07/17 17:44	191-24-2	
Benzo(k)fluoranthene	**0.0080J**	mg/kg	0.0099	0.0030	1	11/07/17 08:32	11/07/17 17:44	207-08-9	
Chrysene	**0.010J**	mg/kg	0.013	0.0040	1	11/07/17 08:32	11/07/17 17:44	218-01-9	
Dibenz(a,h)anthracene	**<0.0027**	mg/kg	0.0088	0.0027	1	11/07/17 08:32	11/07/17 17:44	53-70-3	
Fluoranthene	**0.021**	mg/kg	0.021	0.0062	1	11/07/17 08:32	11/07/17 17:44	206-44-0	
Fluorene	**<0.0049**	mg/kg	0.016	0.0049	1	11/07/17 08:32	11/07/17 17:44	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.0029J**	mg/kg	0.0087	0.0026	1	11/07/17 08:32	11/07/17 17:44	193-39-5	
1-Methylnaphthalene	**<0.0048**	mg/kg	0.016	0.0048	1	11/07/17 08:32	11/07/17 17:44	90-12-0	
2-Methylnaphthalene	**<0.0059**	mg/kg	0.020	0.0059	1	11/07/17 08:32	11/07/17 17:44	91-57-6	
Naphthalene	**0.15**	mg/kg	0.033	0.010	1	11/07/17 08:32	11/07/17 17:44	91-20-3	
Phenanthrene	**0.015J**	mg/kg	0.046	0.014	1	11/07/17 08:32	11/07/17 17:44	85-01-8	
Pyrene	**0.017J**	mg/kg	0.018	0.0054	1	11/07/17 08:32	11/07/17 17:44	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%	23-106		1	11/07/17 08:32	11/07/17 17:44	321-60-8	
Terphenyl-d14 (S)	83	%	29-106		1	11/07/17 08:32	11/07/17 17:44	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.7**	%	0.10	0.10	1		11/06/17 10:22		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B2 5.0-7.5 **Lab ID: 40159995084** Collected: 10/30/17 12:40 Received: 11/02/17 07:35 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
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<29.5**	ug/kg	59.1	29.5	1	11/06/17 10:22	11/07/17 05:24	12674-11-2	
PCB-1221 (Aroclor 1221)	**<29.5**	ug/kg	59.1	29.5	1	11/06/17 10:22	11/07/17 05:24	11104-28-2	
PCB-1232 (Aroclor 1232)	**<29.5**	ug/kg	59.1	29.5	1	11/06/17 10:22	11/07/17 05:24	11141-16-5	
PCB-1242 (Aroclor 1242)	**<29.5**	ug/kg	59.1	29.5	1	11/06/17 10:22	11/07/17 05:24	53469-21-9	
PCB-1248 (Aroclor 1248)	**<29.5**	ug/kg	59.1	29.5	1	11/06/17 10:22	11/07/17 05:24	12672-29-6	
PCB-1254 (Aroclor 1254)	**<29.5**	ug/kg	59.1	29.5	1	11/06/17 10:22	11/07/17 05:24	11097-69-1	
PCB-1260 (Aroclor 1260)	**<29.5**	ug/kg	59.1	29.5	1	11/06/17 10:22	11/07/17 05:24	11096-82-5	
PCB, Total	**<29.5**	ug/kg	59.1	29.5	1	11/06/17 10:22	11/07/17 05:24	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	50-102		1	11/06/17 10:22	11/07/17 05:24	877-09-8	
Decachlorobiphenyl (S)	80	%	53-105		1	11/06/17 10:22	11/07/17 05:24	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.3**	%	0.10	0.10	1		11/06/17 10:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B4 2.5-5.0 **Lab ID: 40159995085** Collected: 10/30/17 14:52 Received: 11/02/17 07:35 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
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<28.0**	ug/kg	55.9	28.0	1	11/06/17 10:22	11/07/17 05:41	12674-11-2	
PCB-1221 (Aroclor 1221)	**<28.0**	ug/kg	55.9	28.0	1	11/06/17 10:22	11/07/17 05:41	11104-28-2	
PCB-1232 (Aroclor 1232)	**<28.0**	ug/kg	55.9	28.0	1	11/06/17 10:22	11/07/17 05:41	11141-16-5	
PCB-1242 (Aroclor 1242)	**<28.0**	ug/kg	55.9	28.0	1	11/06/17 10:22	11/07/17 05:41	53469-21-9	
PCB-1248 (Aroclor 1248)	**<28.0**	ug/kg	55.9	28.0	1	11/06/17 10:22	11/07/17 05:41	12672-29-6	
PCB-1254 (Aroclor 1254)	**<28.0**	ug/kg	55.9	28.0	1	11/06/17 10:22	11/07/17 05:41	11097-69-1	
PCB-1260 (Aroclor 1260)	**<28.0**	ug/kg	55.9	28.0	1	11/06/17 10:22	11/07/17 05:41	11096-82-5	
PCB, Total	**<28.0**	ug/kg	55.9	28.0	1	11/06/17 10:22	11/07/17 05:41	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	50-102		1	11/06/17 10:22	11/07/17 05:41	877-09-8	
Decachlorobiphenyl (S)	73	%	53-105		1	11/06/17 10:22	11/07/17 05:41	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.6**	%	0.10	0.10	1		11/06/17 10:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B6 2.5-5.0 **Lab ID: 40159995086** Collected: 10/30/17 16:23 Received: 11/02/17 07:35 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
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<29.0**	ug/kg	57.9	29.0	1	11/06/17 10:22	11/07/17 05:59	12674-11-2	
PCB-1221 (Aroclor 1221)	**<29.0**	ug/kg	57.9	29.0	1	11/06/17 10:22	11/07/17 05:59	11104-28-2	
PCB-1232 (Aroclor 1232)	**<29.0**	ug/kg	57.9	29.0	1	11/06/17 10:22	11/07/17 05:59	11141-16-5	
PCB-1242 (Aroclor 1242)	**<29.0**	ug/kg	57.9	29.0	1	11/06/17 10:22	11/07/17 05:59	53469-21-9	
PCB-1248 (Aroclor 1248)	**<29.0**	ug/kg	57.9	29.0	1	11/06/17 10:22	11/07/17 05:59	12672-29-6	
PCB-1254 (Aroclor 1254)	**<29.0**	ug/kg	57.9	29.0	1	11/06/17 10:22	11/07/17 05:59	11097-69-1	
PCB-1260 (Aroclor 1260)	**<29.0**	ug/kg	57.9	29.0	1	11/06/17 10:22	11/07/17 05:59	11096-82-5	
PCB, Total	**<29.0**	ug/kg	57.9	29.0	1	11/06/17 10:22	11/07/17 05:59	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	50-102		1	11/06/17 10:22	11/07/17 05:59	877-09-8	
Decachlorobiphenyl (S)	80	%	53-105		1	11/06/17 10:22	11/07/17 05:59	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.7**	%	0.10	0.10	1		11/06/17 10:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B13 7.5-10 **Lab ID: 40159995087** Collected: 10/31/17 13:48 Received: 11/02/17 07:35 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
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<29.4**	ug/kg	58.8	29.4	1	11/06/17 10:22	11/07/17 06:16	12674-11-2	
PCB-1221 (Aroclor 1221)	**<29.4**	ug/kg	58.8	29.4	1	11/06/17 10:22	11/07/17 06:16	11104-28-2	
PCB-1232 (Aroclor 1232)	**<29.4**	ug/kg	58.8	29.4	1	11/06/17 10:22	11/07/17 06:16	11141-16-5	
PCB-1242 (Aroclor 1242)	**<29.4**	ug/kg	58.8	29.4	1	11/06/17 10:22	11/07/17 06:16	53469-21-9	
PCB-1248 (Aroclor 1248)	**<29.4**	ug/kg	58.8	29.4	1	11/06/17 10:22	11/07/17 06:16	12672-29-6	
PCB-1254 (Aroclor 1254)	**<29.4**	ug/kg	58.8	29.4	1	11/06/17 10:22	11/07/17 06:16	11097-69-1	
PCB-1260 (Aroclor 1260)	**<29.4**	ug/kg	58.8	29.4	1	11/06/17 10:22	11/07/17 06:16	11096-82-5	
PCB, Total	**<29.4**	ug/kg	58.8	29.4	1	11/06/17 10:22	11/07/17 06:16	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	50-102		1	11/06/17 10:22	11/07/17 06:16	877-09-8	
Decachlorobiphenyl (S)	83	%	53-105		1	11/06/17 10:22	11/07/17 06:16	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.0**	%	0.10	0.10	1		11/06/17 10:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B14 7.5-10 **Lab ID: 40159995088** Collected: 10/30/17 15:30 Received: 11/02/17 07:35 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
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<29.2**	ug/kg	58.4	29.2	1	11/06/17 10:22	11/07/17 06:34	12674-11-2	
PCB-1221 (Aroclor 1221)	**<29.2**	ug/kg	58.4	29.2	1	11/06/17 10:22	11/07/17 06:34	11104-28-2	
PCB-1232 (Aroclor 1232)	**<29.2**	ug/kg	58.4	29.2	1	11/06/17 10:22	11/07/17 06:34	11141-16-5	
PCB-1242 (Aroclor 1242)	**<29.2**	ug/kg	58.4	29.2	1	11/06/17 10:22	11/07/17 06:34	53469-21-9	
PCB-1248 (Aroclor 1248)	**<29.2**	ug/kg	58.4	29.2	1	11/06/17 10:22	11/07/17 06:34	12672-29-6	
PCB-1254 (Aroclor 1254)	**<29.2**	ug/kg	58.4	29.2	1	11/06/17 10:22	11/07/17 06:34	11097-69-1	
PCB-1260 (Aroclor 1260)	**<29.2**	ug/kg	58.4	29.2	1	11/06/17 10:22	11/07/17 06:34	11096-82-5	
PCB, Total	**<29.2**	ug/kg	58.4	29.2	1	11/06/17 10:22	11/07/17 06:34	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	50-102		1	11/06/17 10:22	11/07/17 06:34	877-09-8	
Decachlorobiphenyl (S)	80	%	53-105		1	11/06/17 10:22	11/07/17 06:34	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.3**	%	0.10	0.10	1		11/06/17 10:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Sample: B9 7.5-10.00 **Lab ID: 40159995089** Collected: 10/30/17 00:00 Received: 11/02/17 07:35 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
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<0.0047**	mg/kg	0.016	0.0047	1	11/07/17 08:32	11/07/17 18:01	83-32-9	
Acenaphthylene	**<0.0040**	mg/kg	0.013	0.0040	1	11/07/17 08:32	11/07/17 18:01	208-96-8	
Anthracene	**0.012J**	mg/kg	0.023	0.0069	1	11/07/17 08:32	11/07/17 18:01	120-12-7	
Benzo(a)anthracene	**0.039**	mg/kg	0.013	0.0038	1	11/07/17 08:32	11/07/17 18:01	56-55-3	
Benzo(a)pyrene	**0.043**	mg/kg	0.010	0.0030	1	11/07/17 08:32	11/07/17 18:01	50-32-8	
Benzo(b)fluoranthene	**0.038**	mg/kg	0.011	0.0034	1	11/07/17 08:32	11/07/17 18:01	205-99-2	
Benzo(g,h,i)perylene	**0.014**	mg/kg	0.0082	0.0024	1	11/07/17 08:32	11/07/17 18:01	191-24-2	
Benzo(k)fluoranthene	**0.041**	mg/kg	0.010	0.0030	1	11/07/17 08:32	11/07/17 18:01	207-08-9	
Chrysene	**0.048**	mg/kg	0.013	0.0041	1	11/07/17 08:32	11/07/17 18:01	218-01-9	
Dibenz(a,h)anthracene	**0.0070J**	mg/kg	0.0090	0.0027	1	11/07/17 08:32	11/07/17 18:01	53-70-3	
Fluoranthene	**0.11**	mg/kg	0.021	0.0063	1	11/07/17 08:32	11/07/17 18:01	206-44-0	
Fluorene	**<0.0050**	mg/kg	0.017	0.0050	1	11/07/17 08:32	11/07/17 18:01	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.017**	mg/kg	0.0088	0.0026	1	11/07/17 08:32	11/07/17 18:01	193-39-5	
1-Methylnaphthalene	**<0.0048**	mg/kg	0.016	0.0048	1	11/07/17 08:32	11/07/17 18:01	90-12-0	
2-Methylnaphthalene	**<0.0060**	mg/kg	0.020	0.0060	1	11/07/17 08:32	11/07/17 18:01	91-57-6	
Naphthalene	**<0.010**	mg/kg	0.034	0.010	1	11/07/17 08:32	11/07/17 18:01	91-20-3	
Phenanthrene	**0.055**	mg/kg	0.047	0.014	1	11/07/17 08:32	11/07/17 18:01	85-01-8	
Pyrene	**0.084**	mg/kg	0.018	0.0054	1	11/07/17 08:32	11/07/17 18:01	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68	%	23-106		1	11/07/17 08:32	11/07/17 18:01	321-60-8	
Terphenyl-d14 (S)	81	%	29-106		1	11/07/17 08:32	11/07/17 18:01	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.9**	%	0.10	0.10	1		11/06/17 10:40		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

QC Batch: 273288 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 40159995007, 40159995008, 40159995009, 40159995010, 40159995011

METHOD BLANK: 1608021 Matrix: Solid
Associated Lab Samples: 40159995007, 40159995008, 40159995009, 40159995010, 40159995011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.011	0.037	11/08/17 10:00	

LABORATORY CONTROL SAMPLE: 1608022

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.83	0.84	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1608023 1608024

Parameter	Units	40159995007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	<0.013	.98	.96	1.0	0.95	100	97	85-115	5	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

QC Batch: 273157 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40159995007, 40159995008, 40159995009, 40159995010, 40159995011

METHOD BLANK: 1607378 Matrix: Solid
Associated Lab Samples: 40159995007, 40159995008, 40159995009, 40159995010, 40159995011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.0	5.0	11/07/17 19:11	
Barium	mg/kg	<0.15	0.50	11/07/17 19:11	
Cadmium	mg/kg	<0.13	0.50	11/07/17 19:11	
Chromium	mg/kg	<0.28	1.0	11/07/17 19:11	
Lead	mg/kg	<0.43	1.3	11/07/17 19:11	
Selenium	mg/kg	<1.1	5.0	11/07/17 19:11	
Silver	mg/kg	<0.34	1.0	11/07/17 19:11	

LABORATORY CONTROL SAMPLE: 1607379

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	51.9	104	80-120	
Barium	mg/kg	50	51.0	102	80-120	
Cadmium	mg/kg	50	51.6	103	80-120	
Chromium	mg/kg	50	52.2	104	80-120	
Lead	mg/kg	50	51.7	103	80-120	
Selenium	mg/kg	50	53.0	106	80-120	
Silver	mg/kg	25	24.6	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1607380 1607381

Parameter	Units	40159995007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	4.1J	58.6	58.4	61.0	59.0	97	94	75-125	3	20	
Barium	mg/kg	89.1	58.6	58.4	154	147	110	99	75-125	4	20	
Cadmium	mg/kg	<0.16	58.6	58.4	58.1	57.6	99	99	75-125	1	20	
Chromium	mg/kg	31.6	58.6	58.4	89.6	87.5	99	96	75-125	2	20	
Lead	mg/kg	21.1	58.6	58.4	66.6	62.9	78	72	75-125	6	20	M0
Selenium	mg/kg	<1.3	58.6	58.4	55.0	55.4	94	95	75-125	1	20	
Silver	mg/kg	<0.40	29.3	29.2	28.1	27.6	96	95	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

QC Batch: 272995 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40159995001, 40159995002, 40159995003, 40159995004, 40159995005, 40159995006

METHOD BLANK: 1606195 Matrix: Solid
Associated Lab Samples: 40159995001, 40159995002, 40159995003, 40159995004, 40159995005, 40159995006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	<0.014	0.050	11/03/17 08:39	
1,1,1-Trichloroethane	mg/kg	<0.014	0.050	11/03/17 08:39	
1,1,2,2-Tetrachloroethane	mg/kg	<0.018	0.050	11/03/17 08:39	
1,1,2-Trichloroethane	mg/kg	<0.020	0.050	11/03/17 08:39	
1,1-Dichloroethane	mg/kg	<0.018	0.050	11/03/17 08:39	
1,1-Dichloroethene	mg/kg	<0.018	0.050	11/03/17 08:39	
1,1-Dichloropropene	mg/kg	<0.014	0.050	11/03/17 08:39	
1,2,3-Trichlorobenzene	mg/kg	<0.017	0.050	11/03/17 08:39	
1,2,3-Trichloropropane	mg/kg	<0.022	0.050	11/03/17 08:39	
1,2,4-Trichlorobenzene	mg/kg	<0.048	0.25	11/03/17 08:39	
1,2,4-Trimethylbenzene	mg/kg	<0.012	0.050	11/03/17 08:39	
1,2-Dibromo-3-chloropropane	mg/kg	<0.091	0.25	11/03/17 08:39	
1,2-Dibromoethane (EDB)	mg/kg	<0.015	0.050	11/03/17 08:39	
1,2-Dichlorobenzene	mg/kg	<0.016	0.050	11/03/17 08:39	
1,2-Dichloroethane	mg/kg	<0.015	0.050	11/03/17 08:39	
1,2-Dichloropropane	mg/kg	<0.017	0.050	11/03/17 08:39	
1,3,5-Trimethylbenzene	mg/kg	<0.014	0.050	11/03/17 08:39	
1,3-Dichlorobenzene	mg/kg	<0.013	0.050	11/03/17 08:39	
1,3-Dichloropropane	mg/kg	<0.012	0.050	11/03/17 08:39	
1,4-Dichlorobenzene	mg/kg	<0.016	0.050	11/03/17 08:39	
2,2-Dichloropropane	mg/kg	<0.013	0.050	11/03/17 08:39	
2-Chlorotoluene	mg/kg	<0.016	0.050	11/03/17 08:39	
4-Chlorotoluene	mg/kg	<0.013	0.050	11/03/17 08:39	
Benzene	mg/kg	<0.0092	0.020	11/03/17 08:39	
Bromobenzene	mg/kg	<0.021	0.050	11/03/17 08:39	
Bromochloromethane	mg/kg	<0.021	0.050	11/03/17 08:39	
Bromodichloromethane	mg/kg	<0.0098	0.050	11/03/17 08:39	
Bromoform	mg/kg	<0.020	0.050	11/03/17 08:39	
Bromomethane	mg/kg	<0.070	0.25	11/03/17 08:39	
Carbon tetrachloride	mg/kg	<0.012	0.050	11/03/17 08:39	
Chlorobenzene	mg/kg	<0.015	0.050	11/03/17 08:39	
Chloroethane	mg/kg	<0.067	0.25	11/03/17 08:39	
Chloroform	mg/kg	<0.046	0.25	11/03/17 08:39	
Chloromethane	mg/kg	<0.020	0.050	11/03/17 08:39	
cis-1,2-Dichloroethene	mg/kg	<0.017	0.050	11/03/17 08:39	
cis-1,3-Dichloropropene	mg/kg	<0.017	0.050	11/03/17 08:39	
Dibromochloromethane	mg/kg	<0.018	0.050	11/03/17 08:39	
Dibromomethane	mg/kg	<0.019	0.050	11/03/17 08:39	
Dichlorodifluoromethane	mg/kg	<0.012	0.050	11/03/17 08:39	
Diisopropyl ether	mg/kg	<0.018	0.050	11/03/17 08:39	
Ethylbenzene	mg/kg	<0.012	0.050	11/03/17 08:39	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

METHOD BLANK: 1606195 Matrix: Solid
Associated Lab Samples: 40159995001, 40159995002, 40159995003, 40159995004, 40159995005, 40159995006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	mg/kg	<0.024	0.050	11/03/17 08:39	
Isopropylbenzene (Cumene)	mg/kg	<0.013	0.050	11/03/17 08:39	
m&p-Xylene	mg/kg	<0.034	0.10	11/03/17 08:39	
Methyl-tert-butyl ether	mg/kg	<0.013	0.050	11/03/17 08:39	
Methylene Chloride	mg/kg	<0.016	0.050	11/03/17 08:39	
n-Butylbenzene	mg/kg	<0.011	0.050	11/03/17 08:39	
n-Propylbenzene	mg/kg	<0.012	0.050	11/03/17 08:39	
Naphthalene	mg/kg	<0.040	0.25	11/03/17 08:39	
o-Xylene	mg/kg	<0.014	0.050	11/03/17 08:39	
p-Isopropyltoluene	mg/kg	<0.012	0.050	11/03/17 08:39	
sec-Butylbenzene	mg/kg	<0.012	0.050	11/03/17 08:39	
Styrene	mg/kg	<0.0090	0.050	11/03/17 08:39	
tert-Butylbenzene	mg/kg	<0.0095	0.050	11/03/17 08:39	
Tetrachloroethene	mg/kg	<0.013	0.050	11/03/17 08:39	
Toluene	mg/kg	<0.011	0.050	11/03/17 08:39	
trans-1,2-Dichloroethene	mg/kg	<0.016	0.050	11/03/17 08:39	
trans-1,3-Dichloropropene	mg/kg	<0.014	0.050	11/03/17 08:39	
Trichloroethene	mg/kg	<0.024	0.050	11/03/17 08:39	
Trichlorofluoromethane	mg/kg	<0.025	0.050	11/03/17 08:39	
Vinyl chloride	mg/kg	<0.021	0.050	11/03/17 08:39	
4-Bromofluorobenzene (S)	%	82	58-141	11/03/17 08:39	
Dibromofluoromethane (S)	%	93	68-130	11/03/17 08:39	
Toluene-d8 (S)	%	94	68-149	11/03/17 08:39	

LABORATORY CONTROL SAMPLE: 1606196

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	2.5	2.3	94	61-122	
1,1,2,2-Tetrachloroethane	mg/kg	2.5	2.4	97	73-130	
1,1,2-Trichloroethane	mg/kg	2.5	2.6	102	70-130	
1,1-Dichloroethane	mg/kg	2.5	2.2	89	63-124	
1,1-Dichloroethene	mg/kg	2.5	2.3	93	53-117	
1,2,4-Trichlorobenzene	mg/kg	2.5	2.0	81	78-130	
1,2-Dibromo-3-chloropropane	mg/kg	2.5	1.9	77	49-140	
1,2-Dibromoethane (EDB)	mg/kg	2.5	2.5	102	70-130	
1,2-Dichlorobenzene	mg/kg	2.5	2.4	97	70-130	
1,2-Dichloroethane	mg/kg	2.5	2.2	87	56-135	
1,2-Dichloropropane	mg/kg	2.5	2.3	91	77-122	
1,3-Dichlorobenzene	mg/kg	2.5	2.4	94	70-130	
1,4-Dichlorobenzene	mg/kg	2.5	2.5	98	70-130	
Benzene	mg/kg	2.5	2.4	97	66-130	
Bromodichloromethane	mg/kg	2.5	2.4	95	62-135	
Bromoform	mg/kg	2.5	2.1	84	68-130	
Bromomethane	mg/kg	2.5	2.4	96	29-137	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

LABORATORY CONTROL SAMPLE: 1606196

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	mg/kg	2.5	2.4	96	57-130	
Chlorobenzene	mg/kg	2.5	2.4	97	70-130	
Chloroethane	mg/kg	2.5	2.3	93	36-144	
Chloroform	mg/kg	2.5	2.4	94	69-115	
Chloromethane	mg/kg	2.5	1.5	61	32-126	
cis-1,2-Dichloroethene	mg/kg	2.5	2.3	92	65-130	
cis-1,3-Dichloropropene	mg/kg	2.5	2.1	86	70-130	
Dibromochloromethane	mg/kg	2.5	2.2	88	70-130	
Dichlorodifluoromethane	mg/kg	2.5	1.3	51	10-99	
Ethylbenzene	mg/kg	2.5	2.5	98	82-122	
Isopropylbenzene (Cumene)	mg/kg	2.5	2.5	102	70-130	
m&p-Xylene	mg/kg	5	5.2	104	70-130	
Methyl-tert-butyl ether	mg/kg	2.5	2.3	93	63-134	
Methylene Chloride	mg/kg	2.5	2.4	94	56-123	
o-Xylene	mg/kg	2.5	2.5	102	70-130	
Styrene	mg/kg	2.5	2.6	106	70-130	
Tetrachloroethene	mg/kg	2.5	2.4	95	70-131	
Toluene	mg/kg	2.5	2.5	100	80-120	
trans-1,2-Dichloroethene	mg/kg	2.5	2.5	99	66-130	
trans-1,3-Dichloropropene	mg/kg	2.5	2.1	86	68-130	
Trichloroethene	mg/kg	2.5	2.5	100	70-130	
Trichlorofluoromethane	mg/kg	2.5	2.3	92	37-149	
Vinyl chloride	mg/kg	2.5	1.8	72	43-128	
4-Bromofluorobenzene (S)	%			96	58-141	
Dibromofluoromethane (S)	%			92	68-130	
Toluene-d8 (S)	%			94	68-149	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1606197 1606198

Parameter	Units	40159829001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	mg/kg	<25.0 ug/kg	1.5	1.5	1.3	1.3	86	88	57-123	2	20	
1,1,2,2-Tetrachloroethane	mg/kg	<25.0 ug/kg	1.5	1.5	1.4	1.5	95	98	73-135	3	20	
1,1,2-Trichloroethane	mg/kg	<25.0 ug/kg	1.5	1.5	1.5	1.5	97	101	70-130	4	20	
1,1-Dichloroethane	mg/kg	<25.0 ug/kg	1.5	1.5	1.3	1.3	86	89	63-124	3	20	
1,1-Dichloroethene	mg/kg	<25.0 ug/kg	1.5	1.5	1.2	1.3	79	88	48-117	11	23	
1,2,4-Trichlorobenzene	mg/kg	<47.6 ug/kg	1.5	1.5	1.4	1.3	91	87	78-145	4	20	
1,2-Dibromo-3-chloropropane	mg/kg	<91.2 ug/kg	1.5	1.5	1.2	1.3	78	84	38-168	7	22	
1,2-Dibromoethane (EDB)	mg/kg	<25.0 ug/kg	1.5	1.5	1.5	1.5	98	97	70-130	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1606197 1606198

Parameter	Units	40159829001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichlorobenzene	mg/kg	<25.0 ug/kg	1.5	1.5	1.5	1.5	99	98	70-130	1	20	
1,2-Dichloroethane	mg/kg	<25.0 ug/kg	1.5	1.5	1.3	1.3	85	86	56-145	1	20	
1,2-Dichloropropane	mg/kg	<25.0 ug/kg	1.5	1.5	1.3	1.4	84	91	77-123	7	20	
1,3-Dichlorobenzene	mg/kg	<25.0 ug/kg	1.5	1.5	1.4	1.4	94	95	70-130	1	20	
1,4-Dichlorobenzene	mg/kg	<25.0 ug/kg	1.5	1.5	1.5	1.5	102	101	70-130	1	20	
Benzene	mg/kg	<25.0 ug/kg	1.5	1.5	1.4	1.5	94	96	65-130	2	20	
Bromodichloromethane	mg/kg	<25.0 ug/kg	1.5	1.5	1.3	1.3	84	88	59-141	5	20	
Bromoform	mg/kg	<25.0 ug/kg	1.5	1.5	1.3	1.3	83	88	59-141	7	20	
Bromomethane	mg/kg	<69.9 ug/kg	1.5	1.5	1.7	1.7	110	111	28-139	1	20	
Carbon tetrachloride	mg/kg	<25.0 ug/kg	1.5	1.5	1.3	1.3	85	86	50-130	2	20	
Chlorobenzene	mg/kg	<25.0 ug/kg	1.5	1.5	1.4	1.5	93	96	70-130	3	20	
Chloroethane	mg/kg	<67.0 ug/kg	1.5	1.5	1.5	1.5	96	98	36-144	2	20	
Chloroform	mg/kg	<46.4 ug/kg	1.5	1.5	1.4	1.4	93	93	68-122	0	20	
Chloromethane	mg/kg	<25.0 ug/kg	1.5	1.5	0.97	1.0	63	66	30-126	5	20	
cis-1,2-Dichloroethene	mg/kg	<25.0 ug/kg	1.5	1.5	1.4	1.4	90	93	63-130	3	20	
cis-1,3-Dichloropropene	mg/kg	<25.0 ug/kg	1.5	1.5	1.2	1.3	77	84	70-130	9	20	
Dibromochloromethane	mg/kg	<25.0 ug/kg	1.5	1.5	1.3	1.3	88	88	66-136	1	20	
Dichlorodifluoromethane	mg/kg	<25.0 ug/kg	1.5	1.5	0.87	0.88	57	58	10-99	1	33	
Ethylbenzene	mg/kg	<25.0 ug/kg	1.5	1.5	1.4	1.4	89	89	80-122	0	20	
Isopropylbenzene (Cumene)	mg/kg	<25.0 ug/kg	1.5	1.5	1.4	1.4	91	92	70-130	1	20	
m&p-Xylene	mg/kg	<50.0 ug/kg	3.1	3.1	2.9	2.9	97	97	70-130	0	20	
Methyl-tert-butyl ether	mg/kg	<25.0 ug/kg	1.5	1.5	1.3	1.4	87	91	63-134	4	20	
Methylene Chloride	mg/kg	<25.0 ug/kg	1.5	1.5	1.4	1.5	92	96	56-127	5	20	
o-Xylene	mg/kg	<25.0 ug/kg	1.5	1.5	1.4	1.4	95	94	70-130	1	20	
Styrene	mg/kg	<25.0 ug/kg	1.5	1.5	1.5	1.5	98	101	70-130	3	20	
Tetrachloroethene	mg/kg	<25.0 ug/kg	1.5	1.5	1.4	1.4	90	91	70-131	1	20	
Toluene	mg/kg	<25.0 ug/kg	1.5	1.5	1.5	1.4	96	95	80-120	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1606197 1606198

Parameter	Units	40159829001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
trans-1,2-Dichloroethene	mg/kg	<25.0 ug/kg	1.5	1.5	1.4	1.5	94	97	60-130	2	20	
trans-1,3-Dichloropropene	mg/kg	<25.0 ug/kg	1.5	1.5	1.3	1.3	83	84	68-130	2	20	
Trichloroethene	mg/kg	<25.0 ug/kg	1.5	1.5	1.3	1.4	86	91	70-130	5	20	
Trichlorofluoromethane	mg/kg	<25.0 ug/kg	1.5	1.5	1.3	1.3	87	86	37-149	1	24	
Vinyl chloride	mg/kg	<25.0 ug/kg	1.5	1.5	1.1	1.1	71	74	39-128	4	20	
4-Bromofluorobenzene (S)	%						90	89	58-141			
Dibromofluoromethane (S)	%						88	91	68-130			
Toluene-d8 (S)	%						90	90	68-149			

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QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

QC Batch: 273122 Analysis Method: EPA 8082
QC Batch Method: EPA 3541 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40159995084, 40159995085, 40159995086, 40159995087, 40159995088

METHOD BLANK: 1607294 Matrix: Solid
Associated Lab Samples: 40159995084, 40159995085, 40159995086, 40159995087, 40159995088

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<25.0	50.0	11/07/17 03:05	
PCB-1221 (Aroclor 1221)	ug/kg	<25.0	50.0	11/07/17 03:05	
PCB-1232 (Aroclor 1232)	ug/kg	<25.0	50.0	11/07/17 03:05	
PCB-1242 (Aroclor 1242)	ug/kg	<25.0	50.0	11/07/17 03:05	
PCB-1248 (Aroclor 1248)	ug/kg	<25.0	50.0	11/07/17 03:05	
PCB-1254 (Aroclor 1254)	ug/kg	<25.0	50.0	11/07/17 03:05	
PCB-1260 (Aroclor 1260)	ug/kg	<25.0	50.0	11/07/17 03:05	
Decachlorobiphenyl (S)	%	82	53-105	11/07/17 03:05	
Tetrachloro-m-xylene (S)	%	82	50-102	11/07/17 03:05	

LABORATORY CONTROL SAMPLE: 1607295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<25.0			
PCB-1221 (Aroclor 1221)	ug/kg		<25.0			
PCB-1232 (Aroclor 1232)	ug/kg		<25.0			
PCB-1242 (Aroclor 1242)	ug/kg		<25.0			
PCB-1248 (Aroclor 1248)	ug/kg		<25.0			
PCB-1254 (Aroclor 1254)	ug/kg		<25.0			
PCB-1260 (Aroclor 1260)	ug/kg	500	414	83	59-106	
Decachlorobiphenyl (S)	%			87	53-105	
Tetrachloro-m-xylene (S)	%			79	50-102	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1607296 1607297

Parameter	Units	40160142001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<160			<160	<160					20	
PCB-1221 (Aroclor 1221)	ug/kg	<160			<160	<160					20	
PCB-1232 (Aroclor 1232)	ug/kg	<160			<160	<160					20	
PCB-1242 (Aroclor 1242)	ug/kg	2310			2260	2280				1	20	
PCB-1248 (Aroclor 1248)	ug/kg	<160			<160	<160					20	
PCB-1254 (Aroclor 1254)	ug/kg	<160			<160	<160					20	
PCB-1260 (Aroclor 1260)	ug/kg	<160	799	799	656	619	82	78	51-109	6	20	
Decachlorobiphenyl (S)	%						69	61	53-105			
Tetrachloro-m-xylene (S)	%						76	71	50-102			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

QC Batch: 272920 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40159995012, 40159995013, 40159995014, 40159995015, 40159995016, 40159995017, 40159995018

METHOD BLANK: 1605889 Matrix: Solid
Associated Lab Samples: 40159995012, 40159995013, 40159995014, 40159995015, 40159995016, 40159995017, 40159995018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<4.0	13.4	11/03/17 11:53	
2-Methylnaphthalene	ug/kg	<5.0	16.7	11/03/17 11:53	
Acenaphthene	ug/kg	<3.9	12.9	11/03/17 11:53	
Acenaphthylene	ug/kg	<3.3	11.0	11/03/17 11:53	
Anthracene	ug/kg	<5.7	19.0	11/03/17 11:53	
Benzo(a)anthracene	ug/kg	<3.2	10.6	11/03/17 11:53	
Benzo(a)pyrene	ug/kg	<2.5	8.4	11/03/17 11:53	
Benzo(b)fluoranthene	ug/kg	<2.8	9.4	11/03/17 11:53	
Benzo(g,h,i)perylene	ug/kg	<2.0	6.8	11/03/17 11:53	
Benzo(k)fluoranthene	ug/kg	<2.5	8.4	11/03/17 11:53	
Chrysene	ug/kg	<3.4	11.2	11/03/17 11:53	
Dibenz(a,h)anthracene	ug/kg	<2.2	7.5	11/03/17 11:53	
Fluoranthene	ug/kg	<5.2	17.4	11/03/17 11:53	
Fluorene	ug/kg	<4.1	13.8	11/03/17 11:53	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.2	7.3	11/03/17 11:53	
Naphthalene	ug/kg	<8.4	28.1	11/03/17 11:53	
Phenanthrene	ug/kg	<11.7	38.9	11/03/17 11:53	
Pyrene	ug/kg	<4.5	15.0	11/03/17 11:53	
2-Fluorobiphenyl (S)	%	90	23-106	11/03/17 11:53	
Terphenyl-d14 (S)	%	107	29-106	11/03/17 11:53	S3

LABORATORY CONTROL SAMPLE: 1605890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	250	75	49-102	
2-Methylnaphthalene	ug/kg	333	249	75	47-91	
Acenaphthene	ug/kg	333	270	81	52-97	
Acenaphthylene	ug/kg	333	263	79	49-97	
Anthracene	ug/kg	333	274	82	62-101	
Benzo(a)anthracene	ug/kg	333	273	82	53-95	
Benzo(a)pyrene	ug/kg	333	287	86	57-108	
Benzo(b)fluoranthene	ug/kg	333	299	90	53-113	
Benzo(g,h,i)perylene	ug/kg	333	280	84	43-114	
Benzo(k)fluoranthene	ug/kg	333	265	80	66-116	
Chrysene	ug/kg	333	285	86	64-109	
Dibenz(a,h)anthracene	ug/kg	333	272	81	50-105	
Fluoranthene	ug/kg	333	309	93	58-107	
Fluorene	ug/kg	333	278	83	52-99	
Indeno(1,2,3-cd)pyrene	ug/kg	333	280	84	51-113	
Naphthalene	ug/kg	333	242	73	50-91	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

LABORATORY CONTROL SAMPLE: 1605890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	287	86	57-101	
Pyrene	ug/kg	333	307	92	50-102	
2-Fluorobiphenyl (S)	%			90	23-106	
Terphenyl-d14 (S)	%			104	29-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1605891 1605892

Parameter	Units	40159681008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	37.6	390	390	331	327	75	74	37-102	1	29	
2-Methylnaphthalene	ug/kg	51.4	390	390	347	336	76	73	44-91	3	36	
Acenaphthene	ug/kg	21.4	390	390	359	385	87	93	46-97	7	26	
Acenaphthylene	ug/kg	8.1J	390	390	307	310	77	77	47-97	1	29	
Anthracene	ug/kg	19.1J	390	390	341	376	83	91	50-101	10	28	
Benzo(a)anthracene	ug/kg	30.5	390	390	337	393	79	93	48-95	15	28	
Benzo(a)pyrene	ug/kg	23.2	390	390	320	370	76	89	47-108	15	36	
Benzo(b)fluoranthene	ug/kg	18.4	390	390	289	377	69	92	42-113	26	34	
Benzo(g,h,i)perylene	ug/kg	18.2	390	390	327	354	79	86	18-114	8	30	
Benzo(k)fluoranthene	ug/kg	22.5	390	390	341	345	82	83	50-116	1	27	
Chrysene	ug/kg	39.8	390	390	366	432	84	101	55-109	17	28	
Dibenz(a,h)anthracene	ug/kg	5.5J	390	390	303	317	76	80	39-105	4	29	
Fluoranthene	ug/kg	110	390	390	570	831	118	185	41-107	37	28	M1,R1
Fluorene	ug/kg	26.0	390	390	377	418	90	101	48-99	10	28	M1
Indeno(1,2,3-cd)pyrene	ug/kg	12.8	390	390	313	343	77	85	27-113	9	30	
Naphthalene	ug/kg	36.8	390	390	327	316	74	71	40-91	3	37	
Phenanthrene	ug/kg	160	390	390	629	874	120	183	46-101	33	40	M1
Pyrene	ug/kg	82.5	390	390	510	691	110	156	50-102	30	31	M1
2-Fluorobiphenyl (S)	%						88	82	23-106			
Terphenyl-d14 (S)	%						90	81	29-106			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

QC Batch: 273107 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40159995019, 40159995020, 40159995021, 40159995022, 40159995023, 40159995024, 40159995025, 40159995026, 40159995027, 40159995028, 40159995029, 40159995034, 40159995035, 40159995036, 40159995037, 40159995038, 40159995039, 40159995040, 40159995041, 40159995042

METHOD BLANK: 1607225 Matrix: Solid
Associated Lab Samples: 40159995019, 40159995020, 40159995021, 40159995022, 40159995023, 40159995024, 40159995025, 40159995026, 40159995027, 40159995028, 40159995029, 40159995034, 40159995035, 40159995036, 40159995037, 40159995038, 40159995039, 40159995040, 40159995041, 40159995042

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<4.0	13.4	11/06/17 14:16	
2-Methylnaphthalene	ug/kg	<5.0	16.7	11/06/17 14:16	
Acenaphthene	ug/kg	<3.9	12.9	11/06/17 14:16	
Acenaphthylene	ug/kg	<3.3	11.0	11/06/17 14:16	
Anthracene	ug/kg	<5.7	19.0	11/06/17 14:16	
Benzo(a)anthracene	ug/kg	<3.2	10.6	11/06/17 14:16	
Benzo(a)pyrene	ug/kg	<2.5	8.4	11/06/17 14:16	
Benzo(b)fluoranthene	ug/kg	<2.8	9.4	11/06/17 14:16	
Benzo(g,h,i)perylene	ug/kg	<2.0	6.8	11/06/17 14:16	
Benzo(k)fluoranthene	ug/kg	<2.5	8.4	11/06/17 14:16	
Chrysene	ug/kg	<3.4	11.2	11/06/17 14:16	
Dibenz(a,h)anthracene	ug/kg	<2.2	7.4	11/06/17 14:16	
Fluoranthene	ug/kg	<5.2	17.4	11/06/17 14:16	
Fluorene	ug/kg	<4.1	13.8	11/06/17 14:16	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.2	7.3	11/06/17 14:16	
Naphthalene	ug/kg	<8.4	28.1	11/06/17 14:16	
Phenanthrene	ug/kg	<11.6	38.8	11/06/17 14:16	
Pyrene	ug/kg	<4.5	15.0	11/06/17 14:16	
2-Fluorobiphenyl (S)	%	95	23-106	11/06/17 14:16	
Terphenyl-d14 (S)	%	98	29-106	11/06/17 14:16	

LABORATORY CONTROL SAMPLE: 1607226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	316	95	49-102	
2-Methylnaphthalene	ug/kg	333	295	89	47-91	
Acenaphthene	ug/kg	333	308	93	52-97	
Acenaphthylene	ug/kg	333	304	91	49-97	
Anthracene	ug/kg	333	307	92	62-101	
Benzo(a)anthracene	ug/kg	333	294	88	53-95	
Benzo(a)pyrene	ug/kg	333	305	92	57-108	
Benzo(b)fluoranthene	ug/kg	333	310	93	53-113	
Benzo(g,h,i)perylene	ug/kg	333	246	74	43-114	
Benzo(k)fluoranthene	ug/kg	333	312	94	66-116	
Chrysene	ug/kg	333	308	93	64-109	
Dibenz(a,h)anthracene	ug/kg	333	274	82	50-105	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

LABORATORY CONTROL SAMPLE: 1607226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoranthene	ug/kg	333	311	94	58-107	
Fluorene	ug/kg	333	305	92	52-99	
Indeno(1,2,3-cd)pyrene	ug/kg	333	283	85	51-113	
Naphthalene	ug/kg	333	285	86	50-91	
Phenanthrene	ug/kg	333	302	91	57-101	
Pyrene	ug/kg	333	289	87	50-102	
2-Fluorobiphenyl (S)	%			110	23-106	S0
Terphenyl-d14 (S)	%			96	29-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1607227 1607228

Parameter	Units	40159995020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	<5.2	429	428	286	305	67	71	37-102	6	29	
2-Methylnaphthalene	ug/kg	<6.4	429	428	266	283	62	66	44-91	6	36	
Acenaphthene	ug/kg	<5.0	429	428	300	296	70	69	46-97	1	26	
Acenaphthylene	ug/kg	<4.2	429	428	295	293	69	69	47-97	1	29	
Anthracene	ug/kg	<7.3	429	428	328	295	76	69	50-101	11	28	
Benzo(a)anthracene	ug/kg	4.8J	429	428	315	287	72	66	48-95	9	28	
Benzo(a)pyrene	ug/kg	<3.2	429	428	326	293	76	68	47-108	11	36	
Benzo(b)fluoranthene	ug/kg	<3.6	429	428	337	292	78	68	42-113	14	34	
Benzo(g,h,i)perylene	ug/kg	<2.6	429	428	234	196	55	46	18-114	18	30	
Benzo(k)fluoranthene	ug/kg	<3.2	429	428	341	308	80	72	50-116	10	27	
Chrysene	ug/kg	<4.3	429	428	334	301	77	70	55-109	10	28	
Dibenz(a,h)anthracene	ug/kg	<2.9	429	428	288	252	67	59	39-105	13	29	
Fluoranthene	ug/kg	<6.7	429	428	341	300	78	69	41-107	13	28	
Fluorene	ug/kg	<5.3	429	428	316	296	74	69	48-99	6	28	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.8	429	428	289	248	67	58	27-113	15	30	
Naphthalene	ug/kg	<10.8	429	428	254	277	59	65	40-91	9	37	
Phenanthrene	ug/kg	<15.0	429	428	330	291	76	67	46-101	13	40	
Pyrene	ug/kg	<5.8	429	428	312	281	72	64	50-102	10	31	
2-Fluorobiphenyl (S)	%						73	73	23-106			
Terphenyl-d14 (S)	%						72	64	29-106			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

QC Batch: 273246 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40159995043, 40159995044, 40159995045, 40159995046, 40159995047, 40159995048, 40159995049, 40159995050, 40159995051, 40159995079, 40159995080, 40159995081, 40159995082, 40159995083, 40159995089

METHOD BLANK: 1607748 Matrix: Solid
Associated Lab Samples: 40159995043, 40159995044, 40159995045, 40159995046, 40159995047, 40159995048, 40159995049, 40159995050, 40159995051, 40159995079, 40159995080, 40159995081, 40159995082, 40159995083, 40159995089

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	<0.0040	0.013	11/07/17 12:20	
2-Methylnaphthalene	mg/kg	<0.0050	0.017	11/07/17 12:20	
Acenaphthene	mg/kg	<0.0039	0.013	11/07/17 12:20	
Acenaphthylene	mg/kg	<0.0033	0.011	11/07/17 12:20	
Anthracene	mg/kg	<0.0057	0.019	11/07/17 12:20	
Benzo(a)anthracene	mg/kg	<0.0032	0.011	11/07/17 12:20	
Benzo(a)pyrene	mg/kg	<0.0025	0.0084	11/07/17 12:20	
Benzo(b)fluoranthene	mg/kg	<0.0028	0.0094	11/07/17 12:20	
Benzo(g,h,i)perylene	mg/kg	<0.0020	0.0068	11/07/17 12:20	
Benzo(k)fluoranthene	mg/kg	<0.0025	0.0084	11/07/17 12:20	
Chrysene	mg/kg	<0.0034	0.011	11/07/17 12:20	
Dibenz(a,h)anthracene	mg/kg	<0.0022	0.0075	11/07/17 12:20	
Fluoranthene	mg/kg	<0.0052	0.017	11/07/17 12:20	
Fluorene	mg/kg	<0.0041	0.014	11/07/17 12:20	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0022	0.0073	11/07/17 12:20	
Naphthalene	mg/kg	<0.0084	0.028	11/07/17 12:20	
Phenanthrene	mg/kg	<0.012	0.039	11/07/17 12:20	
Pyrene	mg/kg	<0.0045	0.015	11/07/17 12:20	
2-Fluorobiphenyl (S)	%	85	23-106	11/07/17 12:20	
Terphenyl-d14 (S)	%	96	29-106	11/07/17 12:20	

LABORATORY CONTROL SAMPLE: 1607749

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.24	71	49-102	
2-Methylnaphthalene	mg/kg	.33	0.23	69	47-91	
Acenaphthene	mg/kg	.33	0.27	81	52-97	
Acenaphthylene	mg/kg	.33	0.26	78	49-97	
Anthracene	mg/kg	.33	0.31	93	62-101	
Benzo(a)anthracene	mg/kg	.33	0.28	83	53-95	
Benzo(a)pyrene	mg/kg	.33	0.28	83	57-108	
Benzo(b)fluoranthene	mg/kg	.33	0.26	78	53-113	
Benzo(g,h,i)perylene	mg/kg	.33	0.24	73	43-114	
Benzo(k)fluoranthene	mg/kg	.33	0.28	85	66-116	
Chrysene	mg/kg	.33	0.29	87	64-109	
Dibenz(a,h)anthracene	mg/kg	.33	0.26	79	50-105	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

LABORATORY CONTROL SAMPLE: 1607749

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoranthene	mg/kg	.33	0.33	98	58-107	
Fluorene	mg/kg	.33	0.27	82	52-99	
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.27	82	51-113	
Naphthalene	mg/kg	.33	0.24	73	50-91	
Phenanthrene	mg/kg	.33	0.30	89	57-101	
Pyrene	mg/kg	.33	0.30	90	50-102	
2-Fluorobiphenyl (S)	%			91	23-106	
Terphenyl-d14 (S)	%			103	29-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1607750 1607751

Parameter	Units	40159829004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	mg/kg	<4.4 ug/kg	.36	.36	0.18	0.19	49	51	37-102	5	29	
2-Methylnaphthalene	mg/kg	<5.4 ug/kg	.36	.36	0.17	0.18	46	49	44-91	6	36	
Acenaphthene	mg/kg	<4.2 ug/kg	.36	.36	0.20	0.21	56	58	46-97	4	26	
Acenaphthylene	mg/kg	<3.6 ug/kg	.36	.36	0.21	0.20	58	55	47-97	6	29	
Anthracene	mg/kg	<6.2 ug/kg	.36	.36	0.23	0.24	62	67	50-101	7	28	
Benzo(a)anthracene	mg/kg	4.5J ug/kg	.36	.36	0.25	0.28	67	75	48-95	11	28	
Benzo(a)pyrene	mg/kg	5.3J ug/kg	.36	.36	0.25	0.27	66	74	47-108	11	36	
Benzo(b)fluoranthene	mg/kg	4.8J ug/kg	.36	.36	0.25	0.28	68	75	42-113	10	34	
Benzo(g,h,i)perylene	mg/kg	4.0J ug/kg	.36	.36	0.21	0.21	57	56	18-114	2	30	
Benzo(k)fluoranthene	mg/kg	5.8J ug/kg	.36	.36	0.24	0.25	64	67	50-116	5	27	
Chrysene	mg/kg	6.5J ug/kg	.36	.36	0.27	0.29	71	79	55-109	9	28	
Dibenz(a,h)anthracene	mg/kg	<2.4 ug/kg	.36	.36	0.22	0.22	59	59	39-105	1	29	
Fluoranthene	mg/kg	12.2J ug/kg	.36	.36	0.28	0.42	75	112	41-107	38	28	M1,R1
Fluorene	mg/kg	<4.5 ug/kg	.36	.36	0.22	0.22	60	61	48-99	0	28	
Indeno(1,2,3-cd)pyrene	mg/kg	3.4J ug/kg	.36	.36	0.24	0.23	64	64	27-113	0	30	
Naphthalene	mg/kg	<9.2 ug/kg	.36	.36	0.16	0.18	45	50	40-91	11	37	
Phenanthrene	mg/kg	<12.7 ug/kg	.36	.36	0.24	0.31	63	81	46-101	24	40	
Pyrene	mg/kg	10.6J ug/kg	.36	.36	0.28	0.37	73	98	50-102	28	31	
2-Fluorobiphenyl (S)	%						56	61	23-106			
Terphenyl-d14 (S)	%						73	75	29-106			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

QC Batch: 8301 Analysis Method: EPA 8270C SIM
QC Batch Method: EPA 3545A Analysis Description: 8270C MSSV PAH by SIM
Associated Lab Samples: 40159995030, 40159995031, 40159995032, 40159995033, 40159995052, 40159995053, 40159995054, 40159995055, 40159995056, 40159995057, 40159995058, 40159995059, 40159995060, 40159995061, 40159995062, 40159995063, 40159995064, 40159995065, 40159995066, 40159995067

METHOD BLANK: 33755 Matrix: Solid
Associated Lab Samples: 40159995030, 40159995031, 40159995032, 40159995033, 40159995052, 40159995053, 40159995054, 40159995055, 40159995056, 40159995057, 40159995058, 40159995059, 40159995060, 40159995061, 40159995062, 40159995063, 40159995064, 40159995065, 40159995066, 40159995067

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<0.19	2.0	11/06/17 14:07	N2
2-Methylnaphthalene	ug/kg	<0.21	2.0	11/06/17 14:07	
Acenaphthene	ug/kg	<0.16	2.0	11/06/17 14:07	
Acenaphthylene	ug/kg	<0.15	2.0	11/06/17 14:07	
Anthracene	ug/kg	<0.22	2.0	11/06/17 14:07	
Benzo(a)anthracene	ug/kg	0.43J	2.0	11/06/17 14:07	
Benzo(a)pyrene	ug/kg	<0.48	2.0	11/06/17 14:07	
Benzo(b)fluoranthene	ug/kg	0.36J	2.5	11/06/17 14:07	
Benzo(g,h,i)perylene	ug/kg	<0.65	2.5	11/06/17 14:07	
Benzo(k)fluoranthene	ug/kg	0.38J	2.5	11/06/17 14:07	
Chrysene	ug/kg	0.38J	2.5	11/06/17 14:07	
Dibenz(a,h)anthracene	ug/kg	<0.74	2.5	11/06/17 14:07	
Fluoranthene	ug/kg	0.34J	2.0	11/06/17 14:07	
Fluorene	ug/kg	<0.17	2.0	11/06/17 14:07	
Indeno(1,2,3-cd)pyrene	ug/kg	<0.63	2.0	11/06/17 14:07	
Naphthalene	ug/kg	0.45J	2.0	11/06/17 14:07	
Phenanthrene	ug/kg	0.26J	2.0	11/06/17 14:07	
Pyrene	ug/kg	0.31J	2.0	11/06/17 14:07	
2-Methylnaphthalene-d10 (S)	%.	78	50-150	11/06/17 14:07	
Fluoranthene-d10 (S)	%.	80	50-150	11/06/17 14:07	

LABORATORY CONTROL SAMPLE: 33756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	16.3	12.2	75	45-105	N2
2-Methylnaphthalene	ug/kg	16.3	14.4	88	45-105	
Acenaphthene	ug/kg	16.3	12.0	73	45-110	
Acenaphthylene	ug/kg	16.3	14.4	89	45-105	
Anthracene	ug/kg	16.3	14.1	86	55-105	
Benzo(a)anthracene	ug/kg	16.3	14.9	91	50-110	
Benzo(a)pyrene	ug/kg	16.3	13.4	82	50-110	
Benzo(b)fluoranthene	ug/kg	16.3	14.1	87	45-115	
Benzo(g,h,i)perylene	ug/kg	16.3	14.3	88	40-125	
Benzo(k)fluoranthene	ug/kg	16.3	12.4	76	45-125	
Chrysene	ug/kg	16.3	13.9	85	55-110	
Dibenz(a,h)anthracene	ug/kg	16.3	13.6	83	40-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

LABORATORY CONTROL SAMPLE: 33756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoranthene	ug/kg	16.3	14.0	86	55-115	
Fluorene	ug/kg	16.3	12.2	75	50-110	
Indeno(1,2,3-cd)pyrene	ug/kg	16.3	14.4	89	40-120	
Naphthalene	ug/kg	16.3	13.2	81	40-105	
Phenanthrene	ug/kg	16.3	14.7	90	50-110	
Pyrene	ug/kg	16.3	13.8	85	45-125	
2-Methylnaphthalene-d10 (S)	%.			75	50-150	
Fluoranthene-d10 (S)	%.			74	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33757 33758

Parameter	Units	40159995030 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	8.6J	19.4	19.5	30.3	29.7	112	108	45-105	2	30	M6,N2
2-Methylnaphthalene	ug/kg	8.5J	19.4	19.5	23.5	24.5	78	82	45-105	4	30	
Acenaphthene	ug/kg	10.1J	19.4	19.5	34.8	26.8	128	86	45-110	26	30	M6
Acenaphthylene	ug/kg	9.1J	19.4	19.5	23.4	24.9	74	81	45-105	6	30	
Anthracene	ug/kg	72.8	19.4	19.5	147	132	382	303	55-105	11	30	M6
Benzo(a)anthracene	ug/kg	346	19.4	19.5	405	409	307	326	50-110	1	30	M6
Benzo(a)pyrene	ug/kg	326	19.4	19.5	372	389	240	322	50-110	4	30	M6
Benzo(b)fluoranthene	ug/kg	282	19.4	19.5	327	340	236	298	45-115	4	30	M6
Benzo(g,h,i)perylene	ug/kg	206	19.4	19.5	246	259	205	271	40-125	5	30	M6
Benzo(k)fluoranthene	ug/kg	280	19.4	19.5	372	348	476	348	45-125	7	30	M6
Chrysene	ug/kg	350	19.4	19.5	415	426	334	390	55-110	3	30	M6
Dibenz(a,h)anthracene	ug/kg	66.4	19.4	19.5	82.8	92.8	85	136	40-125	11	30	M6
Fluoranthene	ug/kg	669	19.4	19.5	871	820	1040	775	55-115	6	30	M6
Fluorene	ug/kg	11.2J	19.4	19.5	41.5	42.2	157	159	50-110	2	30	M6
Indeno(1,2,3-cd)pyrene	ug/kg	194	19.4	19.5	230	234	184	202	40-120	2	30	M6
Naphthalene	ug/kg	18.9J	19.4	19.5	39.1	36.2	105	89	40-105	8	30	
Phenanthrene	ug/kg	281	19.4	19.5	414	370	687	456	50-110	11	30	M6
Pyrene	ug/kg	619	19.4	19.5	805	802	962	941	45-125	0	30	M6
2-Methylnaphthalene-d10 (S)	%.						93	79	50-150			
Fluoranthene-d10 (S)	%.						82	78	50-150			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

QC Batch: 8302 Analysis Method: EPA 8270C SIM
QC Batch Method: EPA 3545A Analysis Description: 8270C MSSV PAH by SIM
Associated Lab Samples: 40159995068, 40159995069, 40159995070, 40159995071, 40159995072, 40159995073, 40159995074, 40159995075, 40159995076, 40159995077, 40159995078

METHOD BLANK: 33759 Matrix: Solid
Associated Lab Samples: 40159995068, 40159995069, 40159995070, 40159995071, 40159995072, 40159995073, 40159995074, 40159995075, 40159995076, 40159995077, 40159995078

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<0.20	2.1	11/06/17 16:31	N2
2-Methylnaphthalene	ug/kg	<0.22	2.1	11/06/17 16:31	
Acenaphthene	ug/kg	<0.17	2.1	11/06/17 16:31	
Acenaphthylene	ug/kg	0.27J	2.1	11/06/17 16:31	
Anthracene	ug/kg	<0.23	2.1	11/06/17 16:31	
Benzo(a)anthracene	ug/kg	0.41J	2.1	11/06/17 16:31	
Benzo(a)pyrene	ug/kg	<0.50	2.1	11/06/17 16:31	
Benzo(b)fluoranthene	ug/kg	<0.36	2.6	11/06/17 16:31	
Benzo(g,h,i)perylene	ug/kg	<0.67	2.6	11/06/17 16:31	
Benzo(k)fluoranthene	ug/kg	0.32J	2.6	11/06/17 16:31	
Chrysene	ug/kg	0.35J	2.6	11/06/17 16:31	
Dibenz(a,h)anthracene	ug/kg	<0.78	2.6	11/06/17 16:31	
Fluoranthene	ug/kg	0.33J	2.1	11/06/17 16:31	
Fluorene	ug/kg	<0.18	2.1	11/06/17 16:31	
Indeno(1,2,3-cd)pyrene	ug/kg	<0.65	2.1	11/06/17 16:31	
Naphthalene	ug/kg	0.76J	2.1	11/06/17 16:31	
Phenanthrene	ug/kg	<0.26	2.1	11/06/17 16:31	
Pyrene	ug/kg	0.31J	2.1	11/06/17 16:31	
2-Methylnaphthalene-d10 (S)	%.	77	50-150	11/06/17 16:31	
Fluoranthene-d10 (S)	%.	78	50-150	11/06/17 16:31	

LABORATORY CONTROL SAMPLE: 33760

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	17	13.7	81	45-105	N2
2-Methylnaphthalene	ug/kg	17	16.3	96	45-105	
Acenaphthene	ug/kg	17	13.0	76	45-110	
Acenaphthylene	ug/kg	17	15.9	94	45-105	
Anthracene	ug/kg	17	15.2	90	55-105	
Benzo(a)anthracene	ug/kg	17	15.7	92	50-110	
Benzo(a)pyrene	ug/kg	17	14.1	83	50-110	
Benzo(b)fluoranthene	ug/kg	17	15.0	88	45-115	
Benzo(g,h,i)perylene	ug/kg	17	14.5	85	40-125	
Benzo(k)fluoranthene	ug/kg	17	12.7	75	45-125	
Chrysene	ug/kg	17	14.6	86	55-110	
Dibenz(a,h)anthracene	ug/kg	17	13.9	82	40-125	
Fluoranthene	ug/kg	17	15.0	88	55-115	
Fluorene	ug/kg	17	13.5	80	50-110	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

LABORATORY CONTROL SAMPLE: 33760

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/kg	17	15.2	89	40-120	
Naphthalene	ug/kg	17	14.7	87	40-105	
Phenanthrene	ug/kg	17	16.2	95	50-110	
Pyrene	ug/kg	17	15.0	88	45-125	
2-Methylnaphthalene-d10 (S)	%.			80	50-150	
Fluoranthene-d10 (S)	%.			74	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33761 33762

Parameter	Units	40159995068 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	0.72J	20.5	20.4	14.2	12.1	66	56	45-105	16	30	N2
2-Methylnaphthalene	ug/kg	1.2J	20.5	20.4	16.6	14.6	75	66	45-105	12	30	
Acenaphthene	ug/kg	<0.19	20.5	20.4	12.5	11.4	61	56	45-110	9	30	
Acenaphthylene	ug/kg	<0.17	20.5	20.4	16.4	14.9	80	73	45-105	10	30	
Anthracene	ug/kg	<0.26	20.5	20.4	16.5	16.5	80	80	55-105	0	30	
Benzo(a)anthracene	ug/kg	0.41J	20.5	20.4	18.4	20.8	88	100	50-110	12	30	
Benzo(a)pyrene	ug/kg	<0.56	20.5	20.4	16.3	17.6	78	84	50-110	8	30	
Benzo(b)fluoranthene	ug/kg	0.49J	20.5	20.4	17.9	19.0	85	90	45-115	6	30	
Benzo(g,h,i)perylene	ug/kg	<0.76	20.5	20.4	15.8	16.9	75	80	40-125	6	30	
Benzo(k)fluoranthene	ug/kg	0.42J	20.5	20.4	13.9	14.8	66	70	45-125	6	30	
Chrysene	ug/kg	1.1J	20.5	20.4	16.9	19.8	77	91	55-110	16	30	
Dibenz(a,h)anthracene	ug/kg	<0.87	20.5	20.4	15.3	16.5	74	79	40-125	8	30	
Fluoranthene	ug/kg	0.59J	20.5	20.4	15.4	17.7	72	83	55-115	14	30	
Fluorene	ug/kg	<0.20	20.5	20.4	13.0	13.1	64	64	50-110	1	30	
Indeno(1,2,3-cd)pyrene	ug/kg	<0.73	20.5	20.4	16.6	18.3	79	88	40-120	10	30	
Naphthalene	ug/kg	0.36J	20.5	20.4	15.8	14.3	75	68	40-105	10	30	
Phenanthrene	ug/kg	0.73J	20.5	20.4	17.7	19.5	83	92	50-110	10	30	
Pyrene	ug/kg	0.61J	20.5	20.4	18.2	20.8	86	98	45-125	13	30	
2-Methylnaphthalene-d10 (S)	%.						72	62	50-150			
Fluoranthene-d10 (S)	%.						63	70	50-150			

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

QC Batch: 8380 Analysis Method: SM 2540 G-11/3550
QC Batch Method: SM 2540 G-11/3550 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40159995030, 40159995031, 40159995032, 40159995033, 40159995052, 40159995053, 40159995054, 40159995055, 40159995056, 40159995057, 40159995058, 40159995059, 40159995060, 40159995061, 40159995062, 40159995063, 40159995064, 40159995065, 40159995066, 40159995067

SAMPLE DUPLICATE: 34076

Parameter	Units	40159995030 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.1	9.4	8	20	

SAMPLE DUPLICATE: 34077

Parameter	Units	40159995057 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.2	14.7	3	20	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

QC Batch: 8381 Analysis Method: SM 2540 G-11/3550
QC Batch Method: SM 2540 G-11/3550 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40159995068, 40159995069, 40159995070, 40159995071, 40159995072, 40159995073, 40159995074, 40159995075, 40159995076, 40159995077, 40159995078

SAMPLE DUPLICATE: 34078

Parameter	Units	40159995068 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.8	14.9	0	20	

SAMPLE DUPLICATE: 34079

Parameter	Units	40159995077 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.8	21.6	5	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

QC Batch: 273061 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40159995001, 40159995002, 40159995003, 40159995004, 40159995005, 40159995007, 40159995008, 40159995009, 40159995010, 40159995011, 40159995012, 40159995013, 40159995014, 40159995015

SAMPLE DUPLICATE: 1606722

Parameter	Units	40159995002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.2	16.8	3	10	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

QC Batch: 273079 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40159995016, 40159995017, 40159995018, 40159995019, 40159995020

SAMPLE DUPLICATE: 1607149

Parameter	Units	40160197002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.3	17.5	4	10	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

QC Batch: 273123 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40159995043, 40159995044, 40159995045, 40159995046, 40159995047, 40159995048, 40159995049, 40159995050, 40159995051, 40159995079, 40159995080, 40159995081, 40159995082, 40159995083, 40159995084, 40159995085, 40159995086, 40159995087, 40159995088

SAMPLE DUPLICATE: 1607299

Parameter	Units	40159995050 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.1	16.0	5	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

QC Batch: 273127
QC Batch Method: ASTM D2974-87
Associated Lab Samples: 40159995089

Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture

SAMPLE DUPLICATE: 1607303

Parameter	Units	40159995089 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.9	18.0	6	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

QC Batch: 273166 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40159995021, 40159995022, 40159995023, 40159995024, 40159995025, 40159995026, 40159995027, 40159995028, 40159995029, 40159995034, 40159995035, 40159995036, 40159995037, 40159995038, 40159995039, 40159995040, 40159995041, 40159995042

SAMPLE DUPLICATE: 1607420

Parameter	Units	40159995022 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.5	15.9	4	10	

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

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

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-G	Pace Analytical Services - Green Bay
PASI-GRMI	Pace Analytical - Grand Rapids

BATCH QUALIFIERS

Batch: 273170

[1]	One of the surrogates in the LCS failed high. Accuracy and precision are shown using the MS/MSD recoveries, which were within LCS limits.

ANALYTE QUALIFIERS

1q	MeOH leakage had occurred in shipment. Sample aliquot was taken from 4 oz poly dry weight container with head space and MeOH preserved in the laboratory.
B	Analyte was detected in the associated method blank.
ED	Due to the extract's physical characteristics, the analysis was performed at dilution.
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.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.
W	Non-detect results are reported on a wet weight basis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40159995084	**B2 5.0-7.5**	EPA 3541	273122	EPA 8082	273124
40159995085	**B4 2.5-5.0**	EPA 3541	273122	EPA 8082	273124
40159995086	**B6 2.5-5.0**	EPA 3541	273122	EPA 8082	273124
40159995087	**B13 7.5-10**	EPA 3541	273122	EPA 8082	273124
40159995088	**B14 7.5-10**	EPA 3541	273122	EPA 8082	273124
40159995007	**B1 2.5-5.0**	EPA 3050	273157	EPA 6010	273347
40159995008	**B6 5.0-7.5**	EPA 3050	273157	EPA 6010	273347
40159995009	**B9 2.5-5.0**	EPA 3050	273157	EPA 6010	273347
40159995010	**B11 5.0-7.5**	EPA 3050	273157	EPA 6010	273347
40159995011	**B12 2.5-5.0**	EPA 3050	273157	EPA 6010	273347
40159995007	**B1 2.5-5.0**	EPA 7471	273288	EPA 7471	273386
40159995008	**B6 5.0-7.5**	EPA 7471	273288	EPA 7471	273386
40159995009	**B9 2.5-5.0**	EPA 7471	273288	EPA 7471	273386
40159995010	**B11 5.0-7.5**	EPA 7471	273288	EPA 7471	273386
40159995011	**B12 2.5-5.0**	EPA 7471	273288	EPA 7471	273386
40159995012	**B1 0-2.5**	EPA 3546	272920	EPA 8270 by SIM	272972
40159995013	**B1 2.5-5.0**	EPA 3546	272920	EPA 8270 by SIM	272972
40159995014	**B1 5.0-7.5**	EPA 3546	272920	EPA 8270 by SIM	272972
40159995015	**B1 7.5-10.0**	EPA 3546	272920	EPA 8270 by SIM	272972
40159995016	**B2 0-2.5**	EPA 3546	272920	EPA 8270 by SIM	272972
40159995017	**B2 2.5-5.0**	EPA 3546	272920	EPA 8270 by SIM	272972
40159995018	**B2 5.0-7.5**	EPA 3546	272920	EPA 8270 by SIM	272972
40159995019	**B2 7.5-10.0**	EPA 3546	273107	EPA 8270 by SIM	273170
40159995020	**B2 10-12.5**	EPA 3546	273107	EPA 8270 by SIM	273170
40159995021	**B2 12.5-15.0**	EPA 3546	273107	EPA 8270 by SIM	273170
40159995022	**B2 15.0-17.5**	EPA 3546	273107	EPA 8270 by SIM	273170
40159995023	**B2 17.5-20.0**	EPA 3546	273107	EPA 8270 by SIM	273170
40159995024	**B3 0-2.5**	EPA 3546	273107	EPA 8270 by SIM	273170
40159995025	**B3 2.5-5.0**	EPA 3546	273107	EPA 8270 by SIM	273170
40159995026	**B3 5.0-7.5**	EPA 3546	273107	EPA 8270 by SIM	273170
40159995027	**B3 7.5-10.0**	EPA 3546	273107	EPA 8270 by SIM	273170
40159995028	**B3 10-12.5**	EPA 3546	273107	EPA 8270 by SIM	273170
40159995029	**B3 12.5-15.0**	EPA 3546	273107	EPA 8270 by SIM	273170
40159995034	**B6 0-2.5**	EPA 3546	273107	EPA 8270 by SIM	273170
40159995035	**B6 2.5-5.0**	EPA 3546	273107	EPA 8270 by SIM	273170
40159995036	**B6 5.0-7.5**	EPA 3546	273107	EPA 8270 by SIM	273170
40159995037	**B6 7.5-10.0**	EPA 3546	273107	EPA 8270 by SIM	273170
40159995038	**B6 10-12.5**	EPA 3546	273107	EPA 8270 by SIM	273170
40159995039	**B6 12.5-15.0**	EPA 3546	273107	EPA 8270 by SIM	273170
40159995040	**B7 0-2.5**	EPA 3546	273107	EPA 8270 by SIM	273170
40159995041	**B7 2.5-5.0**	EPA 3546	273107	EPA 8270 by SIM	273170
40159995042	**B7 5.0-7.5**	EPA 3546	273107	EPA 8270 by SIM	273170
40159995043	**B7 7.5-10.0**	EPA 3546	273246	EPA 8270 by SIM	273281
40159995044	**B8 0-2.5**	EPA 3546	273246	EPA 8270 by SIM	273281
40159995045	**B8 2.5-5.0**	EPA 3546	273246	EPA 8270 by SIM	273281
40159995046	**B8 5.0-7.5**	EPA 3546	273246	EPA 8270 by SIM	273281

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40159995047	**B8 7.5-10.0**	EPA 3546	273246	EPA 8270 by SIM	273281
40159995048	**B9 0-2.5**	EPA 3546	273246	EPA 8270 by SIM	273281
40159995049	**B9 2.5-5.0**	EPA 3546	273246	EPA 8270 by SIM	273281
40159995050	**B9 5.0-7.5**	EPA 3546	273246	EPA 8270 by SIM	273281
40159995051	**B9 10-12.5**	EPA 3546	273246	EPA 8270 by SIM	273281
40159995079	**B14 0-2.5**	EPA 3546	273246	EPA 8270 by SIM	273281
40159995080	**B14 2.5-5.0**	EPA 3546	273246	EPA 8270 by SIM	273281
40159995081	**B14 5.0-7.5**	EPA 3546	273246	EPA 8270 by SIM	273281
40159995082	**B14 7.5-10.0**	EPA 3546	273246	EPA 8270 by SIM	273281
40159995083	**B14 10.0-12.5**	EPA 3546	273246	EPA 8270 by SIM	273281
40159995089	**B9 7.5-10.00**	EPA 3546	273246	EPA 8270 by SIM	273281
40159995030	**B4 0-2.5**	EPA 3545A	8301	EPA 8270C SIM	8395
40159995031	**B4 2.5-5.0**	EPA 3545A	8301	EPA 8270C SIM	8395
40159995032	**B5 0-2.5**	EPA 3545A	8301	EPA 8270C SIM	8395
40159995033	**B5 2.5-5.0**	EPA 3545A	8301	EPA 8270C SIM	8395
40159995052	**B10 0-2.5**	EPA 3545A	8301	EPA 8270C SIM	8395
40159995053	**B10 2.5-5.0**	EPA 3545A	8301	EPA 8270C SIM	8395
40159995054	**B10 5.0-7.5**	EPA 3545A	8301	EPA 8270C SIM	8395
40159995055	**B10 7.5-10.0**	EPA 3545A	8301	EPA 8270C SIM	8395
40159995056	**B10 10-12.5**	EPA 3545A	8301	EPA 8270C SIM	8395
40159995057	**B10 12.5-15.0**	EPA 3545A	8301	EPA 8270C SIM	8395
40159995058	**B11 0-2.5**	EPA 3545A	8301	EPA 8270C SIM	8395
40159995059	**B11 2.5-5.0**	EPA 3545A	8301	EPA 8270C SIM	8395
40159995060	**B11 5.0-7.5**	EPA 3545A	8301	EPA 8270C SIM	8395
40159995061	**B11 7.5-10.0**	EPA 3545A	8301	EPA 8270C SIM	8395
40159995062	**B11 10.0-12.5**	EPA 3545A	8301	EPA 8270C SIM	8395
40159995063	**B11 12.5-15.0**	EPA 3545A	8301	EPA 8270C SIM	8395
40159995064	**B11 15.0-17.5**	EPA 3545A	8301	EPA 8270C SIM	8395
40159995065	**B11 17.5-20.0**	EPA 3545A	8301	EPA 8270C SIM	8395
40159995066	**B12 0-2.5**	EPA 3545A	8301	EPA 8270C SIM	8395
40159995067	**B12 2.5-5.0**	EPA 3545A	8301	EPA 8270C SIM	8395
40159995068	**B12 5.0-7.5**	EPA 3545A	8302	EPA 8270C SIM	8403
40159995069	**B12 7.5-10.0**	EPA 3545A	8302	EPA 8270C SIM	8403
40159995070	**B12 10.0-12.5**	EPA 3545A	8302	EPA 8270C SIM	8403
40159995071	**B13 0-2.5**	EPA 3545A	8302	EPA 8270C SIM	8403
40159995072	**B13 2.5-5.0**	EPA 3545A	8302	EPA 8270C SIM	8403
40159995073	**B13 5.0-7.5**	EPA 3545A	8302	EPA 8270C SIM	8403
40159995074	**B13 7.5-10.0**	EPA 3545A	8302	EPA 8270C SIM	8403
40159995075	**B13 10.0-12.5**	EPA 3545A	8302	EPA 8270C SIM	8403
40159995076	**B13 12.5-15.0**	EPA 3545A	8302	EPA 8270C SIM	8403
40159995077	**B13 15.0-17.5**	EPA 3545A	8302	EPA 8270C SIM	8403
40159995078	**B13 17.5-20.0**	EPA 3545A	8302	EPA 8270C SIM	8403
40159995001	**B3 2.5-5.0**	EPA 5035/5030B	272995	EPA 8260	273001
40159995002	**B6 5.0-7.5**	EPA 5035/5030B	272995	EPA 8260	273001
40159995003	**B10 2.5-5.0**	EPA 5035/5030B	272995	EPA 8260	273001
40159995004	**B12 5.0-7.5**	EPA 5035/5030B	272995	EPA 8260	273001
40159995005	**B13 7.5-10.0**	EPA 5035/5030B	272995	EPA 8260	273001

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40159995006	**TRIP**	EPA 5035/5030B	272995	EPA 8260	273001
40159995001	**B3 2.5-5.0**	ASTM D2974-87	273061		
40159995002	**B6 5.0-7.5**	ASTM D2974-87	273061		
40159995003	**B10 2.5-5.0**	ASTM D2974-87	273061		
40159995004	**B12 5.0-7.5**	ASTM D2974-87	273061		
40159995005	**B13 7.5-10.0**	ASTM D2974-87	273061		
40159995007	**B1 2.5-5.0**	ASTM D2974-87	273061		
40159995008	**B6 5.0-7.5**	ASTM D2974-87	273061		
40159995009	**B9 2.5-5.0**	ASTM D2974-87	273061		
40159995010	**B11 5.0-7.5**	ASTM D2974-87	273061		
40159995011	**B12 2.5-5.0**	ASTM D2974-87	273061		
40159995012	**B1 0-2.5**	ASTM D2974-87	273061		
40159995013	**B1 2.5-5.0**	ASTM D2974-87	273061		
40159995014	**B1 5.0-7.5**	ASTM D2974-87	273061		
40159995015	**B1 7.5-10.0**	ASTM D2974-87	273061		
40159995016	**B2 0-2.5**	ASTM D2974-87	273079		
40159995017	**B2 2.5-5.0**	ASTM D2974-87	273079		
40159995018	**B2 5.0-7.5**	ASTM D2974-87	273079		
40159995019	**B2 7.5-10.0**	ASTM D2974-87	273079		
40159995020	**B2 10-12.5**	ASTM D2974-87	273079		
40159995021	**B2 12.5-15.0**	ASTM D2974-87	273166		
40159995022	**B2 15.0-17.5**	ASTM D2974-87	273166		
40159995023	**B2 17.5-20.0**	ASTM D2974-87	273166		
40159995024	**B3 0-2.5**	ASTM D2974-87	273166		
40159995025	**B3 2.5-5.0**	ASTM D2974-87	273166		
40159995026	**B3 5.0-7.5**	ASTM D2974-87	273166		
40159995027	**B3 7.5-10.0**	ASTM D2974-87	273166		
40159995028	**B3 10-12.5**	ASTM D2974-87	273166		
40159995029	**B3 12.5-15.0**	ASTM D2974-87	273166		
40159995030	**B4 0-2.5**	SM 2540 G-11/3550	8380		
40159995031	**B4 2.5-5.0**	SM 2540 G-11/3550	8380		
40159995032	**B5 0-2.5**	SM 2540 G-11/3550	8380		
40159995033	**B5 2.5-5.0**	SM 2540 G-11/3550	8380		
40159995034	**B6 0-2.5**	ASTM D2974-87	273166		
40159995035	**B6 2.5-5.0**	ASTM D2974-87	273166		
40159995036	**B6 5.0-7.5**	ASTM D2974-87	273166		
40159995037	**B6 7.5-10.0**	ASTM D2974-87	273166		
40159995038	**B6 10-12.5**	ASTM D2974-87	273166		
40159995039	**B6 12.5-15.0**	ASTM D2974-87	273166		
40159995040	**B7 0-2.5**	ASTM D2974-87	273166		
40159995041	**B7 2.5-5.0**	ASTM D2974-87	273166		
40159995042	**B7 5.0-7.5**	ASTM D2974-87	273166		
40159995043	**B7 7.5-10.0**	ASTM D2974-87	273123		
40159995044	**B8 0-2.5**	ASTM D2974-87	273123		
40159995045	**B8 2.5-5.0**	ASTM D2974-87	273123		
40159995046	**B8 5.0-7.5**	ASTM D2974-87	273123		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40159995

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40159995047	**B8 7.5-10.0**	ASTM D2974-87	273123		
40159995048	**B9 0-2.5**	ASTM D2974-87	273123		
40159995049	**B9 2.5-5.0**	ASTM D2974-87	273123		
40159995050	**B9 5.0-7.5**	ASTM D2974-87	273123		
40159995051	**B9 10-12.5**	ASTM D2974-87	273123		
40159995052	**B10 0-2.5**	SM 2540 G-11/3550	8380		
40159995053	**B10 2.5-5.0**	SM 2540 G-11/3550	8380		
40159995054	**B10 5.0-7.5**	SM 2540 G-11/3550	8380		
40159995055	**B10 7.5-10.0**	SM 2540 G-11/3550	8380		
40159995056	**B10 10-12.5**	SM 2540 G-11/3550	8380		
40159995057	**B10 12.5-15.0**	SM 2540 G-11/3550	8380		
40159995058	**B11 0-2.5**	SM 2540 G-11/3550	8380		
40159995059	**B11 2.5-5.0**	SM 2540 G-11/3550	8380		
40159995060	**B11 5.0-7.5**	SM 2540 G-11/3550	8380		
40159995061	**B11 7.5-10.0**	SM 2540 G-11/3550	8380		
40159995062	**B11 10.0-12.5**	SM 2540 G-11/3550	8380		
40159995063	**B11 12.5-15.0**	SM 2540 G-11/3550	8380		
40159995064	**B11 15.0-17.5**	SM 2540 G-11/3550	8380		
40159995065	**B11 17.5-20.0**	SM 2540 G-11/3550	8380		
40159995066	**B12 0-2.5**	SM 2540 G-11/3550	8380		
40159995067	**B12 2.5-5.0**	SM 2540 G-11/3550	8380		
40159995068	**B12 5.0-7.5**	SM 2540 G-11/3550	8381		
40159995069	**B12 7.5-10.0**	SM 2540 G-11/3550	8381		
40159995070	**B12 10.0-12.5**	SM 2540 G-11/3550	8381		
40159995071	**B13 0-2.5**	SM 2540 G-11/3550	8381		
40159995072	**B13 2.5-5.0**	SM 2540 G-11/3550	8381		
40159995073	**B13 5.0-7.5**	SM 2540 G-11/3550	8381		
40159995074	**B13 7.5-10.0**	SM 2540 G-11/3550	8381		
40159995075	**B13 10.0-12.5**	SM 2540 G-11/3550	8381		
40159995076	**B13 12.5-15.0**	SM 2540 G-11/3550	8381		
40159995077	**B13 15.0-17.5**	SM 2540 G-11/3550	8381		
40159995078	**B13 17.5-20.0**	SM 2540 G-11/3550	8381		
40159995079	**B14 0-2.5**	ASTM D2974-87	273123		
40159995080	**B14 2.5-5.0**	ASTM D2974-87	273123		
40159995081	**B14 5.0-7.5**	ASTM D2974-87	273123		
40159995082	**B14 7.5-10.0**	ASTM D2974-87	273123		
40159995083	**B14 10.0-12.5**	ASTM D2974-87	273123		
40159995084	**B2 5.0-7.5**	ASTM D2974-87	273123		
40159995085	**B4 2.5-5.0**	ASTM D2974-87	273123		
40159995086	**B6 2.5-5.0**	ASTM D2974-87	273123		
40159995087	**B13 7.5-10**	ASTM D2974-87	273123		
40159995088	**B14 7.5-10**	ASTM D2974-87	273123		
40159995089	**B9 7.5-10.00**	ASTM D2974-87	273127		

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 1 of 7

40159995

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Key Engineering
Branch/Location:	Milwaukee
Project Contact:	Kurt McClung
Phone:	262-853-1196
Project Number:	16060-0975-0001
Project Name:	Boys & Girls Club
Project State:	WI
Sampled By (Print):	[illegible]
Sampled By (Sign):	[illegible]
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Kurt McClung
Mail To Company:	Key Engineering
Mail To Address:	735 N Water Milwaukee WI
Invoice To Contact:	Cassie Hoppe
Invoice To Company:	Key Engineering
Invoice To Address:	SAA
Invoice To Phone:	414-224-8300

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air W = Water
B = Biota DW = Drinking Water
C = Charcoal GW = Ground Water
O = Oil SW = Surface Water
S = Soil WW = Waste Water
SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Analyses Requested: VOCs	Dry WT	RCRA Metals	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
	Y/N						N	N	N		
	Pick Letter						F	A	A		
001	B3 2.5-5.0	10/30/17	1408	Soil			2	2		1-40mL V F	1-4ozPA
002	B6 5.0-7.5	↓	1629	″			″	″		↓	↓
003	B10 2.5-5.0	10/31/17	953	″			″	″			
004	B12 5.0-7.5	↓	1238	″			″	″			
005	B13 7.5-10.0	↓	1348	″			″	″			
006	TRIP	↓	—	LAB			″			↓	
007	B1 2.5-5.0	10/30/17	1249	Soil					″		1-4ozAG P
008	B6 5.0-7.5	↓	1627	″					″		↓
009	B9 2.5.5.0	10/31/17	924	″					″		
010	B11 5.0-7.5	↓	1037	″					″		
011	B12 2.5-5.0	↓	1233	″					″		RW 11/2/17

Profile #

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[illegible]	11.1.17	Mary Fannin	11/01/17 1330
Mary Fannin	11/01/17 1450		
CS Logistics	11/2/17 0735	Rachel Rue	11/2/17 0735

PACE Project No.: 40159995

Receipt Temp = R01 °C

Sample Receipt pH: OK / Adjusted

Cooler Custody Seal: (Present) / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

40159995

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Key Engineering
Branch/Location:	Milwaukee
Project Contact:	Kurt McClung
Phone:	262-853-1196
Project Number:	1606-0975-0001
Project Name:	Boys & Girls Club
Project State:	WI
Sampled By (Print):	Sarah Garswindt
Sampled By (Sign):	Sarah Garswindt
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Kurt McClung
Mail To Company:	Key Engineering
Mail To Address:	735 N Water ST Milwaukee WI
Invoice To Contact:	CASSIE Haupt
Invoice To Company:	Key Engineering
Invoice To Address:	Saa
Invoice To Phone:	414-224-8300

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: PAH	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
012	B1 0-2.5	10/30/17	1230	Soil	N	A	2		1-4ozagA	
013	B1 2.5-5.0		1245							
014	B1 5.0-7.5		1255							
015	B1 7.5-10.00		1300							
016	B2 0-2.5		1315							
017	B2 2.5-5.0		1320							
018	B2 5.0-7.5		1325							
019	B2 7.5-10.0		1330							
020	B2 10-12.5		1335							
021	B2 12.5-15.0		1340							
022	B2 15.0-17.5		1345				X			
023	B2 17.5-20.00		1350				X			
024	B3 0-2.5		1400				X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Sarah Garswindt	11.1.17	Mary Fannin	11/01/17 1330
Mary Fannin	11/01/17 1455		
CS Logistics	11/2/17 0735	Rachel WS Rec	11/2/17 0735

PACE Project No. 40159995

Receipt Temp = 12.01 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

40159995

(Please Print Clearly)

Company Name:	Key engineering
Branch/Location:	Milwaukee
Project Contact:	Kurt McClung
Phone:	262-853-1196
Project Number:	1606-0975-0001
Project Name:	Boys & Girls Club
Project State:	WI
Sampled By (Print):	Sarah Ganswindt
Sampled By (Sign):	Sarah Ganswindt
PO #:	
Regulatory Program:	

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	Kurt McClung
Mail To Company:	Key engineering
Mail To Address:	735 N Water Milwaukee WI
Invoice To Contact:	Cassie Haupt
Invoice To Company:	Key engineering
Invoice To Address:	SAA
Invoice To Phone:	414-224-8300

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO) Y/N: N
PRESERVATION (CODE)* Pick Letter: A
Analyses Requested: PAH

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	PAH	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
025	B3 2.5-5.0	10/30/17	1405	Soil	2		1-4oz ag[A]	
026	5.0-7.5	↓	1410	2	2		↓	
027	7.5-10.0		1415	2	2			
028	10-12.5		1420	2	2			
029	12.5-15.00		1425	2	2			
030	B4 0-2.5		1445	2	2			
031	2.5-5.0		1450	2	2			
032	B5 0-2.5		1455	2	2			
033	2.5-5.0		1600	2	X			
034	B6 0-2.5		1615	2	X			
035	2.5-5.0		1620	2	X			
036	5.0-7.5		1625	2	X			
037	7.5-10.00	↓	1630	2	X		↓	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
S. Ganswindt	11.1.17	Mary Fannin	11/01/17 1330
Mary Fannin	11/01/17 1450		
CS Logistics	11/2/17 0735	Rachel Lund Pace	11/2/17 0735

PACE Project No. 40159995

Receipt Temp = ROI °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

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(Please Print Clearly)

Company Name:	Key Engineering
Branch/Location:	Milwaukee WI
Project Contact:	Kurt McClung
Phone:	262-853-1196
Project Number:	1606-0975-0001
Project Name:	Boys & Girls Club
Project State:	WI
Sampled By (Print):	Zach Garswold
Sampled By (Sign):	Zach Garswold
PO #:	
Regulatory Program:	

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CHAIN OF CUSTODY

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

40159995

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
E-Mail To Contact:	Kurt McClung
Mail To Company:	Key Engineering
Mail To Address:	135 N Water St Milwaukee WI
Invoice To Contact:	Cassie Haupt
Invoice To Company:	Key Engineering
Invoice To Address:	SA
Invoice To Phone:	414-224-8300

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO): N
PRESERVATION (CODE)*: A
Analyses Requested: PAH

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	PAH							CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
038	B6 10-12.5	10/30/17	1635	Soil	2								1-4ozag^A	
039	12.5-15.00	↓	1640	2	2								↓	
040	B7 0-2.5		1645	2	2									
041	2.5-5.0		1650	2	2									
042	5.0-7.5		1655	2	2									
043	7.5-10.00	↓	1700	2	2									
044	B8 0-2.5	10/31/17	845	2	2									
045	2.5-5.0		850	2	2									
046	5.0-7.5		855	2	2									
047	7.5-10.00	↓	900	2	2									
048	B9 0-2.5		910	2	2									
049	2.5-5.0		915	2	2									
050	5.0-7.5	↓	920	2	2								↓	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Zach Garswold	11.1.17	Mary Fannin	11/01/17 1330
Mary Fannin	11/01/17 1450		
CS Logistics	11/2/17 0735	Rachel [illegible] Pace	11/2/17 0735

PACE Project No. 40159995

Receipt Temp = R01 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

4015995

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Key Engineering
Branch/Location:	Milwaukee WI
Project Contact:	Kurt McClure
Phone:	262-853-1196
Project Number:	1606-075-0001
Project Name:	Boys & Girls Club
Project State:	WI
Sampled By (Print):	Josh Garswinski
Sampled By (Sign):	Josh Garswinski
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Kurt McClure
Mail To Company:	Key engineering
Mail To Address:	135 n Water Milwaukee WI
Invoice To Contact:	Cassie Haupt
Invoice To Company:	Key engineering
Invoice To Address:	SAA
Invoice To Phone:	414-224-8300

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO)
PRESERVATION (CODE)*

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Y/N	Pick Letter	Analyses Requested: PAH	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
051	B9 10-12.5	10.31/17	930	Soil			2		1-4oz ag A	
052	B10 0-2.5		945				2	1-4oz ag A		
053	2.5-5.0		950				2			
054	5.0-7.5		955				2			
055	7.5-10.0		1000				2			
056	10-12.5		1005				2			
057	12.5-15.0		1010				2			
058	B11 0-2.5		1025				2			
059	2.5-5.0		1030				2			
060	5.0-7.5		1035				2			
061	7.5-10.0		1040				2			
062	10.0-12.5		1045				2			
063	12.5-15.00		1050				2			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	11.1.17	Mary Fannin	11/01/17 1330
Mary Fannin	11/01/17 1450		
CS Logistics	11/2/17 0735	Fedex WS Rec	11/2/17 0735

PACE Project No.
4015995

Receipt Temp = 20.1 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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Page 6 of 7

40159995

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Key engineering
Branch/Location:	Milwaukee WI
Project Contact:	Kurt McClung
Phone:	262-853-1196
Project Number:	1606-0975-0001
Project Name:	Boys & Girls Club
Project State:	WI
Sampled By (Print):	Zach Carow
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Kurt McClung
Mail To Company:	Key Engineering
Mail To Address:	735 N Water Milwaukee WI
Invoice To Contact:	Cassie Haupt
Invoice To Company:	Key Engineering
Invoice To Address:	SAA
Invoice To Phone:	414-224-8300
CLIENT COMMENTS	LAB COMMENTS (Lab Use Only) / Profile #

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Y/N	Pick Letter	Analyses Requested: PAH	LAB COMMENTS (Lab Use Only)
004	B11 15.00-17.5	10/31/17	1145	S					2	1-40zag H
005	17.5-20.0	"	1150	"					"	
006	B12 0-2.5	"	1215	"					"	
007	2.5-5.0	"	1230	"					"	
008	5.0-7.5	"	1235	"					"	
009	7.5-10.0	"	1245	"					"	
010	10.0-12.5	"	1300	"					"	
011	B13 0-2.5	"	1310	"					"	
012	2.5-5.0	"	1320	"					X	
013	5.0-7.5	"	1330	"					X	
014	7.5-10.00	"	1345	"					X	
015	10.00-12.5	"	1350	"					X	
016	12.5-15.00	"	1355	"					X	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Zach Carow	11.1.17	Mary Jansen	11/01/17 1330
Mary Jansen	11/01/17 1460		
CS Logistics	11/2/17 0735	Racine WI Rec	11/2/17 0735

PACE Project No.: 40159995

Receipt Temp = R01 °C

Sample Receipt pH: QK / Adjusted

Cooler Custody Seal: Present / Not Present; Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

40159995

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Key Engineering
Branch/Location:	Milwaukee WI
Project Contact:	Kurt McClung
Phone:	262-853-1196
Project Number:	1606-0175-0001
Project Name:	Boys & Girls Club
Project State:	WI
Sampled By (Print):	Zach Garrow
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Kurt McClung
Mail To Company:	Key Engineering
Mail To Address:	735 W Wisconsin Ave Milwaukee WI
Invoice To Contact:	Tessie Haupt
Invoice To Company:	Key Engineering
Invoice To Address:	SAA
Invoice To Phone:	414-224-8300

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: TPH	Analyses Requested: PCB	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
077	B13 15.0-17.5	10/31/17	1400	Soil	N	A	2			1-4ozag	
078	17.5-20.0	↓	1405	↓			2				
079	B14 0-2.5	10/30/17	1500				2				
080	2.5-5.0		1510				2				
081	5.0-7.5		1520				2				
082	7.5-10.0		1530				2				
083	10.0-12.5	↓	1540	↓			2				
084	B2 5.0-7.5	10/30/17	1240					2			
085	B4 2.5-5.0	↓	1452					2			
086	B6 2.5-5.0	↓	1623					2			
087	B13 7.5-10	10/31/17	1348					2			
088	B14 7.5-10	10/30/17	1530					2			
①089	B9 7.5-10.00	10/30/17									

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Zach Garrow	11.1.17	Mary Fannin	11/01/17 1330
Mary Fannin	11/01/17 1450		
CS Logistics	11/2/17 0735	Racine WI Rec	11/2/17 0735

PACE Project No.: 40159995

Receipt Temp = 2.0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

019a(27Jun2006)

① added by lab, included in shipment KS 11/2/17

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project #: WO# : 40159995

40159995

Client Name: Key Engineering

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: CS Logistics

Tracking #:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: ROI **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 11/2/17
Initials: RMW

				Comments:
Chain of Custody Present:	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out:	~~☑ Yes~~ KF 11/2/17	(☑ No)	☐ N/A	2. 089 added by lab KF 11/2/17
Chain of Custody Relinquished:	☑ Yes	☐ No	☐ N/A	3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No	☐ N/A	5.
- VOA Samples frozen upon receipt	☐ Yes	☐ No		Date/Time:
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume:	☐ Yes	☑ No	☐ N/A	8. NO MS/MSD RMW 11/2/17
Correct Containers Used:	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used:	☑ Yes	☐ No	☐ N/A	
-Pace IR Containers Used:	☐ Yes	☐ No	☑ N/A	
Containers Intact:	~~☑ Yes~~ KF 11/2/17	(☑ No)	☐ N/A	10. 008 cracked lid KF 11/2/17
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: S	☐ Yes	☑ No	☐ N/A	12. 007 has time of 1312. All other samples have no time. RMW 11/2/17
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐ Yes	☐ No	☑ N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐ Yes	☐ No	☑ N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐ Yes	☑ No		Initial when completed / Lab Std #ID of preservative / Date/Time:
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present:	☑ Yes	☐ No	☐ N/A	15.
Trip Blank Custody Seals Present	☑ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if purchased): B71601VB				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: KF 11/2/17 Date/Time:

Comments/ Resolution: ~~50~~ 057 ID BIO 12.5-15.0; 001, 003 to 004 no date on vials, 004 vial no depth, 002 vial depth 5.0-7.6; ~~003 poly date 10/30:~~ ~~003~~ 003 poly, 010, 011, 044-048, 058-065, 087 KF 11/2/17. date 10/31: 034-039, 070 to 075 IDs are identical placed arbitrarily + dates KF 11/2/17 KF 11/2/17

Project Manager Review: RMR for DM **Date:** 11/2/17

F-GB-C-031-Rev.04 (12Dec2016) SCUR.xls
Pace Analytical Services LLC. - Green Bay WI

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 20, 2017

Kurt McClung
Key Engineering Group, LTD.
735 North Water Street
Milwaukee, WI 53202

RE: Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40160727

Dear Kurt McClung:
Enclosed are the analytical results for sample(s) received by the laboratory between November 02, 2017 and November 14, 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,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Valerie Collins, Key Engineering Group, LTD.
Cassie Haupt, KEY ENGINEERING GROUP, LTD.
Toni Schoen, KEY ENGINEERING GROUP, LTD.

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CERTIFICATIONS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40160727

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

Grand Rapids Certification ID's

5560 Corporate Exchange Ct SE, Grand Rapids, MI 49512
ISO/IEC 17025:2005, Certificate #AT-1542.01
DoD-ELAP, Certificate #ADE-1542
Minnesota Department of Health, Certificate #1177224
Arkansas Department of Environmental Quality, Certificate #17-046-0
Georgia Environmental Protection Division, Stipulation
Illinois Environmental Protection Agency, Certificate #004097
Michigan Department of Environmental Quality, Laboratory #0034
New York State Department of Health, Serial #56192 and 56193
North Carolina Division of Water Resources, Certificate #659
Virginia Department of General Services, Certificate #9028
Wisconsin Department of Natural Resources, Laboratory #999472650
U.S. Department of Agriculture Permit to Receive Soil, Permit #P330-14-00305

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40160727

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40160727001	**B-3 0-2.5'**	Solid	10/30/17 14:00	11/02/17 07:35
40160727002	**B-14 0-2.5'**	Solid	10/30/17 15:00	11/02/17 07:35
40160727003	**B-8 2.5-5.0'**	Solid	10/31/17 08:50	11/02/17 07:35
40160727004	**B-9 2.5-5.0'**	Solid	10/31/17 09:15	11/02/17 07:35
40160727005	**B-3 0-2.5' LEACH**	Water	11/14/17 00:00	11/14/17 07:35
40160727006	**B-14 0-2.5' LEACH**	Water	11/14/17 00:00	11/14/17 07:35
40160727007	**B-8 2.5-5.0' LEACH**	Water	11/14/17 00:00	11/14/17 07:35
40160727008	**B-9 2.5-5.0' LEACH**	Water	11/14/17 00:00	11/14/17 07:35

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SAMPLE ANALYTE COUNT

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40160727

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40160727005	**B-3 0-2.5' LEACH**	EPA 8270 by HVI	TPO	20	PASI-G
40160727006	**B-14 0-2.5' LEACH**	EPA 8270 by HVI	TPO	20	PASI-G
40160727007	**B-8 2.5-5.0' LEACH**	EPA 8270 by HVI	TPO	20	PASI-G
40160727008	**B-9 2.5-5.0' LEACH**	EPA 6010C	KLV	1	PASI-GRMI
		EPA 8270 by HVI	TPO	20	PASI-G

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SUMMARY OF DETECTION

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40160727

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40160727006	**B-14 0-2.5' LEACH**					
EPA 8270 by HVI	1-Methylnaphthalene	0.0092J	ug/L	0.031	11/16/17 13:06	
EPA 8270 by HVI	Pyrene	0.0086J	ug/L	0.040	11/16/17 13:06	
40160727008	**B-9 2.5-5.0' LEACH**					
EPA 6010C	Lead	19.8J	ug/L	50.0	11/20/17 09:59	
EPA 8270 by HVI	1-Methylnaphthalene	0.0072J	ug/L	0.029	11/16/17 13:43	

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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40160727

Sample: B-3 0-2.5' LEACH **Lab ID: 40160727005** Collected: 11/14/17 00:00 Received: 11/14/17 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0058**	ug/L	0.029	0.0058	1	11/16/17 08:19	11/16/17 11:52	83-32-9	
Acenaphthylene	**<0.0048**	ug/L	0.024	0.0048	1	11/16/17 08:19	11/16/17 11:52	208-96-8	
Anthracene	**<0.010**	ug/L	0.050	0.010	1	11/16/17 08:19	11/16/17 11:52	120-12-7	
Benzo(a)anthracene	**<0.0073**	ug/L	0.036	0.0073	1	11/16/17 08:19	11/16/17 11:52	56-55-3	
Benzo(a)pyrene	**<0.010**	ug/L	0.051	0.010	1	11/16/17 08:19	11/16/17 11:52	50-32-8	
Benzo(b)fluoranthene	**<0.0055**	ug/L	0.028	0.0055	1	11/16/17 08:19	11/16/17 11:52	205-99-2	
Benzo(g,h,i)perylene	**<0.0065**	ug/L	0.033	0.0065	1	11/16/17 08:19	11/16/17 11:52	191-24-2	
Benzo(k)fluoranthene	**<0.0073**	ug/L	0.036	0.0073	1	11/16/17 08:19	11/16/17 11:52	207-08-9	
Chrysene	**<0.013**	ug/L	0.063	0.013	1	11/16/17 08:19	11/16/17 11:52	218-01-9	
Dibenz(a,h)anthracene	**<0.0096**	ug/L	0.048	0.0096	1	11/16/17 08:19	11/16/17 11:52	53-70-3	
Fluoranthene	**<0.010**	ug/L	0.051	0.010	1	11/16/17 08:19	11/16/17 11:52	206-44-0	
Fluorene	**<0.0077**	ug/L	0.038	0.0077	1	11/16/17 08:19	11/16/17 11:52	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.017**	ug/L	0.085	0.017	1	11/16/17 08:19	11/16/17 11:52	193-39-5	
1-Methylnaphthalene	**<0.0057**	ug/L	0.028	0.0057	1	11/16/17 08:19	11/16/17 11:52	90-12-0	
2-Methylnaphthalene	**<0.0047**	ug/L	0.024	0.0047	1	11/16/17 08:19	11/16/17 11:52	91-57-6	
Naphthalene	**<0.018**	ug/L	0.088	0.018	1	11/16/17 08:19	11/16/17 11:52	91-20-3	
Phenanthrene	**<0.013**	ug/L	0.066	0.013	1	11/16/17 08:19	11/16/17 11:52	85-01-8	
Pyrene	**<0.0074**	ug/L	0.037	0.0074	1	11/16/17 08:19	11/16/17 11:52	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	46	%	35-84		1	11/16/17 08:19	11/16/17 11:52	321-60-8	
Terphenyl-d14 (S)	59	%	10-129		1	11/16/17 08:19	11/16/17 11:52	1718-51-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40160727

Sample: B-14 0-2.5' LEACH **Lab ID: 40160727006** Collected: 11/14/17 00:00 Received: 11/14/17 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0064**	ug/L	0.032	0.0064	1	11/16/17 08:19	11/16/17 13:06	83-32-9	
Acenaphthylene	**<0.0052**	ug/L	0.026	0.0052	1	11/16/17 08:19	11/16/17 13:06	208-96-8	
Anthracene	**<0.011**	ug/L	0.055	0.011	1	11/16/17 08:19	11/16/17 13:06	120-12-7	
Benzo(a)anthracene	**<0.0079**	ug/L	0.040	0.0079	1	11/16/17 08:19	11/16/17 13:06	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.055	0.011	1	11/16/17 08:19	11/16/17 13:06	50-32-8	
Benzo(b)fluoranthene	**<0.0060**	ug/L	0.030	0.0060	1	11/16/17 08:19	11/16/17 13:06	205-99-2	
Benzo(g,h,i)perylene	**<0.0071**	ug/L	0.036	0.0071	1	11/16/17 08:19	11/16/17 13:06	191-24-2	
Benzo(k)fluoranthene	**<0.0079**	ug/L	0.040	0.0079	1	11/16/17 08:19	11/16/17 13:06	207-08-9	
Chrysene	**<0.014**	ug/L	0.069	0.014	1	11/16/17 08:19	11/16/17 13:06	218-01-9	
Dibenz(a,h)anthracene	**<0.011**	ug/L	0.053	0.011	1	11/16/17 08:19	11/16/17 13:06	53-70-3	
Fluoranthene	**<0.011**	ug/L	0.056	0.011	1	11/16/17 08:19	11/16/17 13:06	206-44-0	
Fluorene	**<0.0084**	ug/L	0.042	0.0084	1	11/16/17 08:19	11/16/17 13:06	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.019**	ug/L	0.093	0.019	1	11/16/17 08:19	11/16/17 13:06	193-39-5	
1-Methylnaphthalene	**0.0092J**	ug/L	0.031	0.0062	1	11/16/17 08:19	11/16/17 13:06	90-12-0	
2-Methylnaphthalene	**<0.0052**	ug/L	0.026	0.0052	1	11/16/17 08:19	11/16/17 13:06	91-57-6	
Naphthalene	**<0.019**	ug/L	0.096	0.019	1	11/16/17 08:19	11/16/17 13:06	91-20-3	
Phenanthrene	**<0.015**	ug/L	0.073	0.015	1	11/16/17 08:19	11/16/17 13:06	85-01-8	
Pyrene	**0.0086J**	ug/L	0.040	0.0081	1	11/16/17 08:19	11/16/17 13:06	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	53	%	35-84		1	11/16/17 08:19	11/16/17 13:06	321-60-8	
Terphenyl-d14 (S)	60	%	10-129		1	11/16/17 08:19	11/16/17 13:06	1718-51-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40160727

Sample: B-8 2.5-5.0' LEACH **Lab ID: 40160727007** Collected: 11/14/17 00:00 Received: 11/14/17 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0063**	ug/L	0.032	0.0063	1	11/16/17 08:19	11/16/17 13:24	83-32-9	
Acenaphthylene	**<0.0052**	ug/L	0.026	0.0052	1	11/16/17 08:19	11/16/17 13:24	208-96-8	
Anthracene	**<0.011**	ug/L	0.054	0.011	1	11/16/17 08:19	11/16/17 13:24	120-12-7	
Benzo(a)anthracene	**<0.0079**	ug/L	0.039	0.0079	1	11/16/17 08:19	11/16/17 13:24	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.055	0.011	1	11/16/17 08:19	11/16/17 13:24	50-32-8	
Benzo(b)fluoranthene	**<0.0060**	ug/L	0.030	0.0060	1	11/16/17 08:19	11/16/17 13:24	205-99-2	
Benzo(g,h,i)perylene	**<0.0071**	ug/L	0.035	0.0071	1	11/16/17 08:19	11/16/17 13:24	191-24-2	
Benzo(k)fluoranthene	**<0.0079**	ug/L	0.039	0.0079	1	11/16/17 08:19	11/16/17 13:24	207-08-9	
Chrysene	**<0.014**	ug/L	0.068	0.014	1	11/16/17 08:19	11/16/17 13:24	218-01-9	
Dibenz(a,h)anthracene	**<0.010**	ug/L	0.052	0.010	1	11/16/17 08:19	11/16/17 13:24	53-70-3	
Fluoranthene	**<0.011**	ug/L	0.056	0.011	1	11/16/17 08:19	11/16/17 13:24	206-44-0	
Fluorene	**<0.0083**	ug/L	0.042	0.0083	1	11/16/17 08:19	11/16/17 13:24	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.018**	ug/L	0.092	0.018	1	11/16/17 08:19	11/16/17 13:24	193-39-5	
1-Methylnaphthalene	**<0.0061**	ug/L	0.031	0.0061	1	11/16/17 08:19	11/16/17 13:24	90-12-0	
2-Methylnaphthalene	**<0.0051**	ug/L	0.026	0.0051	1	11/16/17 08:19	11/16/17 13:24	91-57-6	
Naphthalene	**<0.019**	ug/L	0.095	0.019	1	11/16/17 08:19	11/16/17 13:24	91-20-3	
Phenanthrene	**<0.014**	ug/L	0.072	0.014	1	11/16/17 08:19	11/16/17 13:24	85-01-8	
Pyrene	**<0.0080**	ug/L	0.040	0.0080	1	11/16/17 08:19	11/16/17 13:24	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	40	%	35-84		1	11/16/17 08:19	11/16/17 13:24	321-60-8	
Terphenyl-d14 (S)	40	%	10-129		1	11/16/17 08:19	11/16/17 13:24	1718-51-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40160727

Sample: B-9 2.5-5.0' LEACH **Lab ID: 40160727008** Collected: 11/14/17 00:00 Received: 11/14/17 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3010A								
Lead	**19.8J**	ug/L	50.0	18.0	1	11/17/17 10:30	11/20/17 09:59	7439-92-1	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0060**	ug/L	0.030	0.0060	1	11/16/17 08:19	11/16/17 13:43	83-32-9	
Acenaphthylene	**<0.0049**	ug/L	0.024	0.0049	1	11/16/17 08:19	11/16/17 13:43	208-96-8	
Anthracene	**<0.010**	ug/L	0.051	0.010	1	11/16/17 08:19	11/16/17 13:43	120-12-7	
Benzo(a)anthracene	**<0.0074**	ug/L	0.037	0.0074	1	11/16/17 08:19	11/16/17 13:43	56-55-3	
Benzo(a)pyrene	**<0.010**	ug/L	0.052	0.010	1	11/16/17 08:19	11/16/17 13:43	50-32-8	
Benzo(b)fluoranthene	**<0.0056**	ug/L	0.028	0.0056	1	11/16/17 08:19	11/16/17 13:43	205-99-2	
Benzo(g,h,i)perylene	**<0.0066**	ug/L	0.033	0.0066	1	11/16/17 08:19	11/16/17 13:43	191-24-2	
Benzo(k)fluoranthene	**<0.0074**	ug/L	0.037	0.0074	1	11/16/17 08:19	11/16/17 13:43	207-08-9	
Chrysene	**<0.013**	ug/L	0.064	0.013	1	11/16/17 08:19	11/16/17 13:43	218-01-9	
Dibenz(a,h)anthracene	**<0.0098**	ug/L	0.049	0.0098	1	11/16/17 08:19	11/16/17 13:43	53-70-3	
Fluoranthene	**<0.010**	ug/L	0.052	0.010	1	11/16/17 08:19	11/16/17 13:43	206-44-0	
Fluorene	**<0.0078**	ug/L	0.039	0.0078	1	11/16/17 08:19	11/16/17 13:43	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.017**	ug/L	0.086	0.017	1	11/16/17 08:19	11/16/17 13:43	193-39-5	
1-Methylnaphthalene	**0.0072J**	ug/L	0.029	0.0058	1	11/16/17 08:19	11/16/17 13:43	90-12-0	
2-Methylnaphthalene	**<0.0048**	ug/L	0.024	0.0048	1	11/16/17 08:19	11/16/17 13:43	91-57-6	
Naphthalene	**<0.018**	ug/L	0.090	0.018	1	11/16/17 08:19	11/16/17 13:43	91-20-3	
Phenanthrene	**<0.014**	ug/L	0.068	0.014	1	11/16/17 08:19	11/16/17 13:43	85-01-8	
Pyrene	**<0.0075**	ug/L	0.038	0.0075	1	11/16/17 08:19	11/16/17 13:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	49	%	35-84		1	11/16/17 08:19	11/16/17 13:43	321-60-8	
Terphenyl-d14 (S)	63	%	10-129		1	11/16/17 08:19	11/16/17 13:43	1718-51-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40160727

QC Batch: 9467
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010C
Analysis Description: 6010C MET
Associated Lab Samples: 40160727008

METHOD BLANK: 38648 Matrix: Water
Associated Lab Samples: 40160727008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<18.0	50.0	11/20/17 09:55	

LABORATORY CONTROL SAMPLE: 38649

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	400	396	99	80-120	

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: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40160727

QC Batch: 274393 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40160727005, 40160727006, 40160727007, 40160727008

METHOD BLANK: 1614565 Matrix: Water
Associated Lab Samples: 40160727005, 40160727006, 40160727007, 40160727008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	11/16/17 11:15	
2-Methylnaphthalene	ug/L	<0.0049	0.024	11/16/17 11:15	
Acenaphthene	ug/L	<0.0061	0.030	11/16/17 11:15	
Acenaphthylene	ug/L	<0.0050	0.025	11/16/17 11:15	
Anthracene	ug/L	<0.010	0.052	11/16/17 11:15	
Benzo(a)anthracene	ug/L	<0.0076	0.038	11/16/17 11:15	
Benzo(a)pyrene	ug/L	<0.011	0.053	11/16/17 11:15	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	11/16/17 11:15	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	11/16/17 11:15	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	11/16/17 11:15	
Chrysene	ug/L	<0.013	0.065	11/16/17 11:15	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	11/16/17 11:15	
Fluoranthene	ug/L	<0.011	0.053	11/16/17 11:15	
Fluorene	ug/L	<0.0080	0.040	11/16/17 11:15	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	11/16/17 11:15	
Naphthalene	ug/L	<0.018	0.092	11/16/17 11:15	
Phenanthrene	ug/L	<0.014	0.069	11/16/17 11:15	
Pyrene	ug/L	<0.0076	0.038	11/16/17 11:15	
2-Fluorobiphenyl (S)	%	52	35-84	11/16/17 11:15	
Terphenyl-d14 (S)	%	79	10-129	11/16/17 11:15	

METHOD BLANK: 1614568 Matrix: Water
Associated Lab Samples: 40160727005, 40160727006, 40160727007, 40160727008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0053	0.026	11/16/17 11:34	
2-Methylnaphthalene	ug/L	<0.0044	0.022	11/16/17 11:34	
Acenaphthene	ug/L	<0.0054	0.027	11/16/17 11:34	
Acenaphthylene	ug/L	<0.0044	0.022	11/16/17 11:34	
Anthracene	ug/L	<0.0093	0.047	11/16/17 11:34	
Benzo(a)anthracene	ug/L	<0.0067	0.034	11/16/17 11:34	
Benzo(a)pyrene	ug/L	<0.0094	0.047	11/16/17 11:34	
Benzo(b)fluoranthene	ug/L	<0.0051	0.026	11/16/17 11:34	
Benzo(g,h,i)perylene	ug/L	0.0062J	0.030	11/16/17 11:34	
Benzo(k)fluoranthene	ug/L	<0.0067	0.034	11/16/17 11:34	
Chrysene	ug/L	<0.012	0.058	11/16/17 11:34	
Dibenz(a,h)anthracene	ug/L	<0.0089	0.045	11/16/17 11:34	
Fluoranthene	ug/L	<0.0095	0.048	11/16/17 11:34	
Fluorene	ug/L	<0.0071	0.036	11/16/17 11:34	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40160727

METHOD BLANK: 1614568 Matrix: Water
Associated Lab Samples: 40160727005, 40160727006, 40160727007, 40160727008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/L	<0.016	0.079	11/16/17 11:34	
Naphthalene	ug/L	<0.016	0.082	11/16/17 11:34	
Phenanthrene	ug/L	<0.012	0.062	11/16/17 11:34	
Pyrene	ug/L	<0.0068	0.034	11/16/17 11:34	
2-Fluorobiphenyl (S)	%	54	35-84	11/16/17 11:34	
Terphenyl-d14 (S)	%	70	10-129	11/16/17 11:34	

LABORATORY CONTROL SAMPLE & LCSD: 1614566 1614567

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	2	1.3	1.4	66	68	39-83	3	29	
2-Methylnaphthalene	ug/L	2	1.3	1.4	66	68	38-86	3	32	
Acenaphthene	ug/L	2	1.2	1.3	60	66	35-85	10	27	
Acenaphthylene	ug/L	2	1.2	1.3	62	67	31-88	8	29	
Anthracene	ug/L	2	1.5	1.5	73	74	47-104	2	25	
Benzo(a)anthracene	ug/L	2	1.5	1.5	76	76	36-105	0	20	
Benzo(a)pyrene	ug/L	2	1.6	1.6	79	81	69-117	3	20	
Benzo(b)fluoranthene	ug/L	2	1.5	1.5	76	75	54-107	1	22	
Benzo(g,h,i)perylene	ug/L	2	1.1	0.97	57	49	13-86	15	33	
Benzo(k)fluoranthene	ug/L	2	1.5	1.6	77	79	63-128	3	20	
Chrysene	ug/L	2	1.8	1.8	89	89	69-150	1	20	
Dibenz(a,h)anthracene	ug/L	2	1.1	0.86	53	43	10-87	20	37	
Fluoranthene	ug/L	2	1.7	1.8	85	90	57-103	5	20	
Fluorene	ug/L	2	1.3	1.5	66	73	38-85	11	28	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.6	1.5	79	75	40-111	6	22	
Naphthalene	ug/L	2	1.1	1.1	57	57	39-82	1	28	
Phenanthrene	ug/L	2	1.4	1.6	71	79	46-96	10	25	
Pyrene	ug/L	2	1.6	1.7	82	85	57-110	4	20	
2-Fluorobiphenyl (S)	%				56	60	35-84			
Terphenyl-d14 (S)	%				78	80	10-129			

MATRIX SPIKE SAMPLE: 1614569

Parameter	Units	40160727005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	<0.0057	1.8	0.94	51	27-86	
2-Methylnaphthalene	ug/L	<0.0047	1.8	0.93	51	30-86	
Acenaphthene	ug/L	<0.0058	1.8	0.85	47	28-85	
Acenaphthylene	ug/L	<0.0048	1.8	0.87	48	27-88	
Anthracene	ug/L	<0.010	1.8	1.1	59	38-104	
Benzo(a)anthracene	ug/L	<0.0073	1.8	0.99	55	10-105	
Benzo(a)pyrene	ug/L	<0.010	1.8	0.93	51	10-130	
Benzo(b)fluoranthene	ug/L	<0.0055	1.8	0.92	51	10-115	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40160727

MATRIX SPIKE SAMPLE: 1614569

Parameter	Units	40160727005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzo(g,h,i)perylene	ug/L	<0.0065	1.8	0.42	23	10-87	
Benzo(k)fluoranthene	ug/L	<0.0073	1.8	0.86	47	10-133	
Chrysene	ug/L	<0.013	1.8	1.2	64	17-150	
Dibenz(a,h)anthracene	ug/L	<0.0096	1.8	0.36	20	10-89	
Fluoranthene	ug/L	<0.010	1.8	1.2	65	41-103	
Fluorene	ug/L	<0.0077	1.8	0.93	51	32-85	
Indeno(1,2,3-cd)pyrene	ug/L	<0.017	1.8	0.66	36	10-111	
Naphthalene	ug/L	<0.018	1.8	0.82	45	23-88	
Phenanthrene	ug/L	<0.013	1.8	1.0	56	33-96	
Pyrene	ug/L	<0.0074	1.8	1.1	63	38-110	
2-Fluorobiphenyl (S)	%				45	35-84	
Terphenyl-d14 (S)	%				57	10-129	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40160727

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-G	Pace Analytical Services - Green Bay
PASI-GRMI	Pace Analytical - Grand Rapids

WORKORDER QUALIFIERS

WO: 40160727

[1] PAH Leach Preps took place on 11/14/17, 14 and 15 days after sample collection.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1711-0018-0001 1632 FRANKLIN P
Pace Project No.: 40160727

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40160727008	**B-9 2.5-5.0' LEACH**	EPA 3010A	9467	EPA 6010C	9586
40160727005	**B-3 0-2.5' LEACH**	EPA 3510	274393	EPA 8270 by HVI	274521
40160727006	**B-14 0-2.5' LEACH**	EPA 3510	274393	EPA 8270 by HVI	274521
40160727007	**B-8 2.5-5.0' LEACH**	EPA 3510	274393	EPA 8270 by HVI	274521
40160727008	**B-9 2.5-5.0' LEACH**	EPA 3510	274393	EPA 8270 by HVI	274521

40160727

(Please Print Clearly)

Company Name:	Key Engineering
Branch/Location:	Milwaukee
Project Contact:	Kurt McClung
Phone:	262-853-1196
Project Number:	1606-0975-0001
Project Name:	Boys & Girls Club
Project State:	WI
Sampled By (Print):	Sarah Ganswindt
Sampled By (Sign):	[signature]
PO #:	Regulatory Program:

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CHAIN OF CUSTODY

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 2 of 7

~~40159995~~

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	Kurt McClung
Mail To Company:	Key Engineering
Mail To Address:	735 N Water St Milwaukee WI
Invoice To Contact:	CASSIE Haupt
Invoice To Company:	Key Engineering
Invoice To Address:	Same
Invoice To Phone:	414-224-8300

Data Package Options (billable): ☐ EPA Level III ☐ EPA Level IV

MS/MSD: ☐ On your sample (billable) ☐ NOT needed on your sample

Matrix Codes: A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO): N
PRESERVATION (CODE)*: A

Analyses Requested: PAH; per Kurt 11/13/17; ASTM Leach PAH

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	PAH	ASTM Leach PAH	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
~~012~~	B1 0-2.5	10/30/17	1230	Soil	✓			1-4ozag A	
~~013~~	B1 2.5-5.0		1245		✓				
~~014~~	B1 5.0-7.5		1255		✓				
~~015~~	B1 7.5-10.00		1300		✓				
~~016~~	~~B2 0-2.5~~		1315		✓				
~~017~~	B2 2.5-5.0		1320		✓				
~~018~~	B2 5.0-7.5		1325		✓				
~~019~~	B2 7.5-10.0		1330		✓				
~~020~~	B2 10-12.5		1335		✓				
~~021~~	B2 12.5-15.0		1340		✓				
~~022~~	B2 15.0-17.5		1345		X				
~~023~~	B2 17.5-20.00		1350		X				
001 ~~024~~	B3 0-2.5		1400		X	✓			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Sarah Ganswindt	11.1.17	Mary Fanni	11/01/17 13:30
Mary Fanni	11/01/17 1450		
CS Logistics	11/2/17 0735	Rachel WS Pace	11/2/17 0735

PACE Project No. 40159995
Receipt Temp = ROI °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal: Present / Not Present; Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

40160727

(Please Print Clearly)

Company Name:	Key Engineering
Branch/Location:	Milwaukee WI
Project Contact:	Kurt McClung
Phone:	262-853-1196
Project Number:	1606-0975-0001
Project Name:	Boys & Girls Club
Project State:	WI
Sampled By (Print):	[illegible]
Sampled By (Sign):	[illegible]
PO #:	
Regulatory Program:	

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CHAIN OF CUSTODY

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 7 of 7

~~40159995~~

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	Kurt McClung
Mail To Company:	Key Engineering
Mail To Address:	735 Water St Milwaukee WI
Invoice To Contact:	[illegible]
Invoice To Company:	Key Engineering
Invoice To Address:	SAA
Invoice To Phone:	414-224-8300

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO): N | N
PRESERVATION (CODE)*: A | A

	PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	PAH	PCB	per Kurt 11/13/17	ASTM Leach PAH	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	~~077~~	B13 15.0-17.5	10/31/17	1400	Soil	✓					1-4oz ag	
	~~078~~	17.5-20.0	↓	1405	✓	✓					↓	
002	~~079~~	B14 0-2.5	10/30/17	1500	✓	✓			✓			
	~~080~~	2.5-5.0		1510	✓	✓						
	~~081~~	5.0-7.5		1520	✓	✓						
	~~082~~	7.5-10.0		1530	✓	✓						
	~~083~~	10.0-12.5	↓	1540	✓	✓						
	~~084~~	B2 5.0-7.5	10/30/17	1240	✓		✓					
	~~085~~	B4 2.5-5.0	↓	1452	✓		✓					
	~~086~~	B6 2.5-5.0	↓	1123	✓		✓					
	~~087~~	B13 7.5-10	10/31/17	1348	✓		✓					
	~~088~~	B14 7.5-10	10/30/17	1530	✓		✓					
	①~~089~~	B9 7.5-10.00	10/30/17								↓	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[illegible]	11.1.17	Mary Fannin	11/01/17 1330
Mary Fannin	11/01/17 1450		
CS Logistics	11/2/17 0735	[illegible]	11/2/17 0735

PACE Project No. 40159995

Receipt Temp = RO1 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

019a(27Jun2006) ① added by lab, included in shipment KJ 11/2/17

ORIGINAL

40160727

(Please Print Clearly)

Company Name:	Key Engineering
Branch/Location:	Milwaukee WI
Project Contact:	Kurt McClung
Phone:	262-853-1196
Project Number:	1606-0975-0001
Project Name:	Boys & Girls Club
Project State:	WI
Sampled By (Print):	Zach Carswell
Sampled By (Sign):	Zach Carswell
PO #:	Regulatory Program:

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UPPER MIDWEST REGION
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Page 4 of 7

~~40159995~~

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO): N
PRESERVATION (CODE)*: A

Quote #:	
Mail To Contact:	Kurt McClung
Mail To Company:	Key Engineering
Mail To Address:	135 N Water St Milwaukee WI
Invoice To Contact:	Cassie Haupt
Invoice To Company:	Key Engineering
Invoice To Address:	SA
Invoice To Phone:	414-224-8300

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

Analyses Requested: ~~PAH~~ per Kurt 11/3/17; ASTM Leach PAH; ASTM Leach PB

	PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	~~PAH~~	per Kurt 11/3/17	ASTM Leach PAH	ASTM Leach PB	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	~~038~~	B6 10-12.5	10/30/17	1635	Soil	2					1-4oz ag	
	~~039~~	12.5-15.00	↓	1640	↓	2					↓	
	~~040~~	B7 0-2.5		1645		2						
	~~041~~	2.5-5.0		1650		2						
	~~042~~	~~5.0-7.5~~		1655		2						
	~~043~~	7.5-10.00	↓	1700		2						
	~~044~~	B8 0-2.5	10/31/17	845		2						
003	~~045~~	2.5-5.0		850		2		✓				
	~~046~~	5.0-7.5		855		2						
	~~047~~	7.5-10.00	↓	900		2						
	~~048~~	B9 0-2.5		910		2						
004	~~049~~	2.5-5.0		915		2		✓	✓			
	~~050~~	5.0-7.5	↓	920	↓	2					↓	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Zach Carswell	11.1.17	Mary Fannin	11/01/17 1330
Mary Fannin	11/01/17 1450		
CS Logistics	11/2/17 0735	Rachel [illegible]	11/2/17 0735

PACE Project No. 40159995

Receipt Temp = RO1 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

40160727

Angela Lane - Fwd: RE: FW: 17144 Franklin Place Soil Export

From: Dan Milewsky
To: Lane, Angela
Date: 11/14/2017 11:05 AM
Subject: Fwd: RE: FW: 17144 Franklin Place Soil Export
Attachments: Terracon ASTM.pdf

Here it is. Key, not Terracon

Dan Milewsky
Project Manager
Pace Analytical Services
1241 Bellevue Street
Green Bay, WI 54302
920.412-8566 (Direct/Cell) | 920.469.2436 (Green Bay Lab) |
www.pacelabs.com

We will not be setting up BOD's on Saturday November 18th to allow our employees to spend Thanksgiving with their families.

Pace Green Bay will be closed Thursday/Friday Nov 23-24. Sample receiving will be open normal hours on Saturday Nov 25. Please plan your sampling accordingly. Thank you for your understanding.

We hope you and your have a wonderful Thanksgiving!

>>> Dan Milewsky 11/14/2017 8:11 AM >>>
Good morning,

Please log these 4 samples in using Profile 4037 LI 12 and 6. We don't have a code for ASTM PAH, so you'll need to log soils for ASTM metals and a separate water sample for PAH.

Dan

>>> Kurt McClung <kmcclung@keyengineering.com> 11/13/2017 4:15 PM >>>
B-3; 0-2.5' PAH; past-hold acknowledged
~~B-5; 2.5-5' PAH~~; past hold/omit
B-8; 2.5-5' PAH
B-9; 2.5-5' PAH and lead
B-14; 0-2.5' PAH in place of B-5

40160727

Let me know if that works.

Thanks, --Kurt

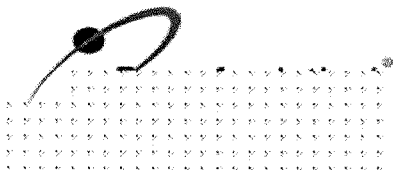
From: Dan Milewsky [Dan.Milewsky@pacelabs.com]
Sent: Monday, November 13, 2017 3:52 PM
To: Kurt McClung <kmcclung@keyengineering.com>
Subject: RE: FW: 17144 Franklin Place Soil Export

B-3 is past hold today for PAH.

B-5 is also past hold today for PAH, and the jar is in our Michigan lab.

Let me know if you want those run past hold or if you want to choose other samples. The following samples are also in Michigan: B4, B10, B11, B12, B13

Dan Milewsky
Project Manager
Pace Analytical Services
1241 Bellevue Street
Green Bay, WI 54302
920.412-8566 (Direct/Cell) | 920.469.2436 (Green Bay Lab) |
www.pacelabs.com



We will not be setting up BOD's on Saturday November 18th to allow our employees to spend Thanksgiving with their families.

Pace Green Bay will be closed Thursday/Friday Nov 23-24. Sample receiving will be open normal hours on Saturday Nov 25. Please plan your sampling accordingly. Thank you for your understanding.

We hope you and your have a wonderful Thanksgiving!

>>> Kurt McClung <kmcclung@keyengineering.com> 11/13/2017 3:40 PM >>>
Let me know for sure if the sample volumes are adequate and I'll send a chain, if that's the correct procedure.

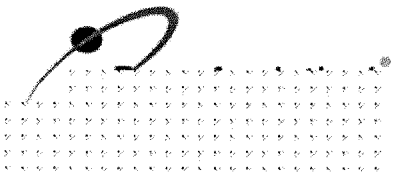
40160727

From: Dan Milewsky [mailto:Dan.Milewsky@pacelabs.com]
Sent: Monday, November 13, 2017 3:34 PM
To: Kurt McClung <kmcclung@keyengineering.com>
Subject: Re: FW: 17144 Franklin Place Soil Export

Kurt,

The should be enough volume for each individual sample you listed. If not a composite of the boring will work. I'll be back in touch with a confirmation and due date.

Dan Milewsky
Project Manager
Pace Analytical Services
1241 Bellevue Street
Green Bay, WI 54302
920.412-8566 (Direct/Cell) | 920.469.2436 (Green Bay Lab) |
www.pacelabs.com



We will not be setting up BOD's on Saturday November 18th to allow our employees to spend Thanksgiving with their families.

Pace Green Bay will be closed Thursday/Friday Nov 23-24. Sample receiving will be open normal hours on Saturday Nov 25. Please plan your sampling accordingly. Thank you for your understanding.

We hope you and your have a wonderful Thanksgiving!

>>> Kurt McClung <kmcclung@keyengineering.com> 11/13/2017 3:23 PM >>>
Is there adequate residual soil from 1632 FRANKLIN P (Pace Project # 40159995) to run ASTM 3987 water leach test with neutral water for the following samples:

B-3; 0-2.5' PAH
B-5; 2.5-5' PAH
B-8; 2.5-5' PAH
B-9; 2.5-5' PAH and lead

I do not know the necessary sample volume for this method. If there is not adequate soil, please determine if a composite of the 0 to 5-foot depth interval would provide adequate sample.

If you have adequate sample quantity, please let me know when I can hope to get the results.

4016072?

Thanks, --Kurt

-----Original Message-----
From: Rick Frieseke [mailto:rfrieseke@fecinc.us]
Sent: Monday, November 13, 2017 3:17 PM
To: Kurt McClung <kmcclung@keyengineering.com>; Dan Richter <dr@edgerton.us>; bsigler@cdsmith.com
Subject: Re: 17144 Franklin Place Soil Export

Kurt

Test should be ASTM 3987 Water leach test with neutral water.

I would run
B-3; 0-2.5' PAH
B-5; 2.5-5' PAH
B-8; 2.5-5' PAH
B-9; 2.5-5' PAH and lead.

Does your client want us to proceed with the exemption request.

If so, we should meet with Paul Grittner ASAP to discuss the submittal.

Rick

I would run On 11/13/2017 1:59 PM, Kurt McClung wrote:
> We have soil samples collected from the Franklin Place site on October 30 and 31 at the laboratory. I can get SPLP analysis run on samples that exceed the direct contact and/or groundwater pathway standard.
>
> How many samples do you require for an estimated 8,000 cubic yards?
>
> Thanks, --Kurt
>
> -----Original Message-----
> From: Kurt McClung
> Sent: Wednesday, October 25, 2017 11:57 AM
> To: 'rfrieseke@fecinc.us' <rfrieseke@fecinc.us>
> Cc: Brendan Sigler <bsigler@cdsmith.com>; Dan Richter <dr@edgerton.us>
> Subject: RE: 17144 Franklin Place Soil Export
>
> Hi Rick:
>
> We plan to collect soil samples from a site in Milwaukee. A portion of the site has known impacts from a leaking fuel oil UST and former use as a neighborhood coal yard. The impacts we've found through

40160727

investigating include PAHs to soil above the non-industrial direct contact RCL and the groundwater pathway RCL.
>
> The soil samples we collected to date were to investigate the leaking UST. The soil samples we're planning to collect are to obtain characterization samples (one sample every 100 cy to 60 cy, one sample every 300 cy thereafter).
>
> For an estimated 16,000 cy of soil to be removed, we intend to collect about 70 samples for lab analysis before breaking ground. All soil samples will be analyzed for PAHs, 5 randomly distributed samples will be analyzed for VOCs, PCBs, and RCRA metals.
>
> During the investigation stage for the heating oil UST activity, samples for analysis of VOCs yielded trace levels of a few VOCs, but no detections over a few ppm total and no RCL exceedance. We have no reason to believe metals exceed natural-occurring levels nor evidence of PCBs based on a Phase 1 ESA.
>
> What are the threshold criteria your facility will accept?
>
> Thanks,
>
> Kurt McClung, PG, PE
> Senior Engineer
> Direct (414) 225-0592 Phone (414) 224-8300
> Mobile (262) 853-1196 Fax (414) 224-8383
>
> Key Engineering Group, Ltd., A Division of SET Environmental Inc.
> 735 North Water Street, Suite 510
> Milwaukee, Wisconsin 53202
>
> -----Original Message-----
> From: Dan Richter [mailto:dr@edgerton.us]
> Sent: Wednesday, October 25, 2017 10:32 AM
> To: Kurt McClung <kmcclung@keyengineering.com>
> Cc: Brendan Sigler <bsigler@cdsmith.com>
> Subject: 17144 Franklin Place Soil Export
>
> Morning Kurt,
>
> Below is our consultant that could receive the low hazard material. As we discussed, please work with him direct on criteria to be able to take soil to his facility in Cedarburg and keep Brendan and I in the loop. Thank You.
>
>
>
> Dan Richter
> Project Manager
> 545 W. Ryan Road, PO Box 901
> Oak Creek, WI 53154
> Office: 414.764.4443 / Fax: 414.764.9788
> Mobile: 414.406.3987
> dr@edgerton.us

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> www.edgerton.us
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> .
>
> -----Original Message-----
> From: Rick Frieseke [mailto:rfrieseke@fecinc.us]
> Sent: Wednesday, October 25, 2017 10:26 AM
> To: Dan Richter <dr@edgerton.us>
> Subject:
>
>
> Dan
>
> Here is my info
>
> Rick Frieseke
>
> Friess Environmental Consulting, Inc.
> 6637 North Sidney Place
> Milwaukee, WI 53209
>
> 414 228-9815 work ph
> 414 228-9816 work fax
> 414 731-9875 cell
>

--
Rick Frieseke

Friess Environmental Consulting, Inc.
6637 North sidney Place
Milwaukee, WI 53209

414 228-9815 work ph
414 228-9816 work fax
414 731-9875 cell

Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Project: **WO#: 40160727**

40160727

Client Name: Key Engineering

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: CS Logistics

Tracking #:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: R01 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents: Date: 11/2/17 Initials: RMV

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	KF 11/2/17 ☑Yes ☐No ☐N/A	2. 089 added by lab KF 11/2/17
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☐Yes ☑No ☐N/A	8. NO MS/MSD RMV 11/2/17
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact: KF 11/2/17	☑Yes ☐No ☐N/A	10. 008 cracked lid KF 11/2/17
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. 007 has time of 1312 RMV 11/2/17 All other samples have no time.
-Includes date/time/ID/Analysis Matrix: S		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes ☑No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14.
Trip Blank Present:	☑Yes ☐No ☐N/A	15.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): B7161015B		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: KF 11/2/17 Date/Time:

Comments/ Resolution: ~~SO~~ 057 ID BID 12.5:1500;001,003+004 no date on KF 11/2/17 vials, 004 vial no depth, 002 vial depth 5.0-7.6; ~~003 poly date 10/30:~~ KF 11/2/17 ~~not~~ 003 poly, 010, 011, 044-048, 058-065, 087 KF 11/2/17 date 10/31: 034-039, 070+075 IDs are identical placed arbitrarily +dates KF 11/2/17

Project Manager Review: RMR for DM **Date:** 11/2/17

LEGEND

- ● Sample Location
- 0-10' No exceedance of NR 720 Groundwater Pathway Standard

N FRANKLIN PL

N ARLINGTON PL

CHAIN LINK FENCE

B-1 B-2 B-3 B-4 B-5 B-6 B-7 B-8 B-9 B-10 B-11 B-12 B-13 B-14

PROPERTY LINE

EXISTING BUILDING

EXISTING BUILDING

PROPERTY LINE

SCALE IN FEET

30' 0 30'

DESIGNED BY TLS	DATE 11/7/2017
DRAWN BY RJN	PROJECT 1606-0975
APPROVED BY TLS	SHEET NO.
CADFILE G:\Projects\1606-0975 Boys and Girls Club\Base.dwg XREF LMAN	

FIGURE 1
BORING LOCATION MAP
BOYS & GIRLS CLUB
1632 N FRANKLIN PLACE
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

Nov 13, 2017 - 3:09pm G:\Projects\1606-0975 Boys and Girls Club\Base.dwg

A Division of SET Environmental Inc.
735 North Water Street, Suite 510
Milwaukee, Wisconsin 53202
Phone (414) 224-8300
Fax (414) 224-8383

November 30, 2017

Mr. Paul Grittner
Wisconsin Department of Natural Resources
101 S. Webster Street
Post Office Box 7921
Madison Wisconsin 53707-7921 *email:* paul.grittner@wisconsin.gov

SUBJECT: Review of Contaminated Material Management Plan (CMMP)
Former Boys and Girls Club, 1632 N Franklin Pl, Milwaukee, WI
WDNR BRRTS Activity #: 02-41-578482; 03-41-578483
FID #: 341282260

Dear Mr. Grittner:

Key Engineering Group, Ltd. (KEY) appreciates your prompt review of the CMMP submitted to the Wisconsin Department of Natural Resources (WDNR) on November 15, 2017. The purpose of this letter is to respond to the information you requested and to facilitate approval for a plan for disposal of soil at the Former Boys and Girls Club site ("site" or "subject property") at separate destination facilities.

In your e-mail dated November 28, 2017, you requested further explanation. Your numbered questions are presented below in *italics*.

1) On November 20, 2017, Key provided the DNR a copy of a 'Post Grading Soil Sample Location Map', indicating that soil management activities have already been conducted at this site. Describe what material management activities have already been done at the site including what material was disturbed and where it was moved to. Describe any excavation activities that have already been conducted, whether soil has been transported offsite, and where that soil was transported to. The Plan indicates that the former Boys and Girls Club building had a basement. If so, explain whether the basement was filled in after the building was demolished and how this was accomplished. Were borings B-1 through B-14 advanced after the building was removed? Were they advanced before or after any filling, grading, or excavation occurred?

The former Boys and Girls Club building was demolished in 2016. The foundation, basement walls, and floor slab were removed and hauled off-site to a landfill as construction debris. During demolition, the perimeter of the former building was graded to a stable slope.

A Site Investigation and Remedial Action Options Report (SI/RAOR) was submitted to WDNR in March 2017. The selected remedy for the impacted soil was an engineered barrier and maintenance plan. The remedy was selected based on the limited extent of trace-level groundwater impacts and to eliminate the direct contact exposure pathway for non-industrial land use.

Plans for developing the property were finalized for a new building to be constructed that would encompass the entire parcel. Underground parking was included as part of the property development, requiring removal of impacted and non-impacted soil from the site.

The soil removal is an aspect of the redevelopment only. In KEY's opinion, the soil removal is not part of a remedial action (whether approved or not-approved), not part of a response action, nor part of an interim action. The development of the property is the sole purpose in excavating and removing the soil from the subject property.

The proposed destination for the clean or nominally-impacted soil is the Milwaukee Solvay site in Milwaukee (BRRTS # 02-41-466662; "destination facility") for use as an engineered barrier over impacted soil that exceeds the NR 720 RCL for industrial direct contact. For the destination facility to accept soil from the subject site, a thorough characterization was requested. The proposed quantity of samples is one sample for every 100 cubic yards for the first 600 cubic yards, then additional soil samples every 300 cubic yards for the remaining quantity of soil. Since an estimated 16,000 cubic yards of soil was proposed to be removed from the subject site, a minimum of 58 soil samples is necessary for characterization.

All soil samples were collected from the building footprint and were analyzed for polynuclear aromatic hydrocarbons (PAHs). Five randomly-selected soil samples were analyzed for RCRA metals, volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs).

To allow access to the perimeter of the site for soil sampling using truck-mounted direct-push sampling methods, minor grading of the perimeter was conducted. No imported fill was brought to the site, other than 3-inch crushed stone at the site entrance to allow equipment traffic. The objective of the minor grading activity was to allow access for advancing borings B-1 through B-14 for soil sampling.

Except for the former heating oil UST basin area and limited, discontinuous PAHs impact to shallow soil, the results of the site investigation suggested no impact or trace-level detections in soil greater than 5 feet below ground surface.

2) Contamination in near surface soil has been attributed to coal fines mixed in with the soil. How much coal (as a percentage of the material) is expected to be mixed in with surface soil at the site? Over what portion of the site was this material identified? Soil that contains a significant amount of other waste material cannot be managed offsite with a Wis. Admin. Code § NR 718.12 exemption.

It may be helpful to provide logs for borings advanced at the site to demonstrate soil conditions. Note that a boring log must be submitted to the DNR within 60 days of being advanced (Wis. Admin. Code § NR 141.23(3))

Suspected coal fines are in trace quantities. No significant level of coal fines or waste of any kind have been observed in any samples, and no physical evidence of where coal was stored on-site has been identified. KEY believes the material excavated from the site had trace coal fines and qualifies for and exemption under NR 718.12.

3) Clarify how much material will be excavated at this site and how much is proposed to be managed at the various disposal sites. Is the total volume to be generated at this site expected to be 16,000 yards? How much of the material is proposed to be taken to R&R Excavating Facility; how much material is proposed to be taken to the Milwaukee Solvay site? Will any of the material be used as fill on site? There appears to be one area in the north-central portion of the site that requires fill material. Where will that fill material come from?

The expected volume of soil to be removed from the subject property is 16,000 cubic yards. An estimated 5,250 cubic yards of material that exceeds the NR 720 RCL for non-industrial direct contact and/or the NR 720 RCL for the groundwater pathway is proposed to be transported to the

R&R Excavating Site in Cedarburg, Wisconsin as part of a low hazard exemption under solid waste rule. No impacted soil that exceeds the NR 720 RCL has been removed from the site.

4) Soil that contains PAHs below standards cannot be managed as exempt waste. A separate request for an exemption under Wis. Admin. Code § NR 718.12 must be submitted, or the existing "Contaminated Material Management Plan" must be updated, to include all required information for the DNR to review and approve the management of contaminated material at the Milwaukee Solvay site.

This letter is incorporated by reference to the submitted CMMP for the development at the Former Boys and Girls Club site. Management of excavated material will be governed by the submitted CMMP and this letter. Where conflict exists between this letter and the CMMP, this letter will prevail. In addition, WDNR conditional approval of the CMMP will be followed.

One objective of this letter is to request an exemption under NR 718.12 for PAHs below NR 720 standards. The intended use of the soil is for an engineered barrier at the Milwaukee Solvay site. Attachment A contains an acceptance letter from We Energies (WE), a responsible party for the Milwaukee Solvay site where WE recognizes the limits on using the soil obtained from the subject property.

5) Results of leach test analysis were provided to the DNR. Explain why these samples were chosen for this analysis and what they indicate about the risk posed by the disposal of this soil on another property.

The soil samples were collected for leach testing because the analytical results yielded PAHs detections above the NR 720 RCL for non-industrial direct contact and/or for the groundwater pathway. The sample from B-14 was selected because of the proximity of the soil sample to the source area at the former fuel oil UST. The results of the leach testing revealed low-level detections of PAHs below the NR 140 PAL.

One soil sample was selected for leach testing because lead was detected in soil above the NR 720 RCL for non-industrial direct contact and could not be reasonably attributed to naturally-occurring levels. The results of leach testing for metals analysis revealed leachable lead that exceeds the NR 140 PAL.

Questions Regarding Waste Characterization

1) The interpretation of the extent of soil contamination exceeding standards, as depicted on Figure 4, does not appear to have considered samples collected from GP-6 through GP-10. A couple of these borings, GP-8 and GP-10, were advanced in dashed areas of the map and the samples collected from them had concentrations of PAH compounds above standards. Reinterpret the extent of contamination to consider these samples results or explain why these sample results were not used.

The boring locations B-1 through B-14 were surveyed shortly after installation. The location and depth of any sample can be uncovered to a high degree of accuracy, if necessary. The Geoprobe borings advanced in 2016 were not surveyed and the accuracy of the locations of these borings is less certain. In effect, there is a vastly greater level of confidence in the location of the 2017 borings in comparison with the 2016 boring.

Although the impacts are not field-discernable (no visual indication or odor), soil samples collected from GP-8 and GP-10 revealed exceedances of the NR 720 RCL for non-industrial direct contact and the groundwater pathway. As described above, grading had taken place to allow access to the perimeter of the parcel and it was unclear whether this soil had been disturbed. Due to the uncertainty where exceedances of an NR 720 RCL might be located, a significant area of the property (GP-7 through GP-10) was re-sampled to obtain a defensible characterization.

At GP-6, a shallow (2 to 4 feet below ground surface [bgs]) sample revealed exceedances of the NR 720 RCL for non-industrial direct contact and the groundwater pathway. Samples collected from B-14 located approximately 30 feet northwest of GP-6 yielded soil impacts exceeding the NR 720 RCL from 0 to 10 feet bgs. Since the interval from 4 to 14 feet bgs at GP-6 was not sampled and the soil impacts are not field-discernable, the lack of laboratory results does not indicate any clean interval above 14 feet bgs at GP-6.

2) Soil samples collected from beneath the former fuel oil UST and from GP-2 indicate that soil contamination potentially extends below 10 feet within at least a portion of the southeast 'block' where B-14 is located. Reconsider sample data collected in this area and determine whether the additional material needs to be managed at R&R Excavating.

KEY will be present during excavation activity to assist in segregating soil and to observe for the presence of potential new sources. The former UST area will be among the last areas to be excavated and soil samples will be collected from the perimeter of the excavation to document whether residual impacts remain at the

3) The extent of soil with contamination that does not exceed a soil standard as depicted on Figure 4 appears to be relatively generous based on the expected source of the contamination. A conservative interpretation of the extent of soil contamination is recommended as material in the dashed areas of the map is proposed to be used as a direct contact barrier at a different property. It is unclear why the area between B-2 and B-3, the area south of B-7, or the area north of B-6 would be considered clean, especially based on the sample results collected from GP-10 and GP-8. Provide an explanation as to how this interpretation is valid considering the expected source of contamination is at least in part, attributed to a common contaminant found in shallow urban soils. You may consider requesting using the "Modified RCL spreadsheet (cumulative assessment of seven cPAHs)" found at http://dnr.wi.gov/topic/brownfields/professionals.html to assess direct contact risk posed by the contamination in some areas of the site to support the proposed reuse of the material as proposed.

As described above, more recently-obtained, surveyed data points were given decision-making precedence over soil samples collected from non-surveyed direct push borings. Based on your observation at the area south of B-7, the soil sampling analytical results for HA-1 was considered and the figures presented in the CMMP have been revised and are attached.

Attachment A contains the Modified RCL Spreadsheets for the soil sample intervals that yielded soil impacts above the NR 720 RCL for non-industrial direct contact or the NR 720 RCL for the groundwater pathway. A summary of the spreadsheets is provided below:

Boring Location	Depth Interval (feet)	Cumulative cPAH Cancer Risk	Individual Exceedances	Cumulative Hazard Index	Cumulative Cancer Risk
B-3	0-2.5	1.6E-05	0	0.0744	1.6E-05
	2.5-5	1.5E-05	0	0.0712	1.5E-05
B-4	0-2.5	4.2E-06	0	0.0191	4.2E-06
	2.5-5	6.5E-06	0	0.0293	6.5E-06
B-5	0-2.5	2.1E-06	0	0.0089	2.1E-06
	2.5-5	4.6E-06	0	0.021	4.6E-06
B-8	0-2.5	1.6E-06	0	0.0071	1.6E-06
	2.5-5	3.6E-05	0	0.1614	3.6E-05
B-9	0-2.5	5.0E-06	0	0.0224	5.0E-06
	2.5-5	1.3E-05	0	0.3288	1.3E-05
	5-7.5	6.8E-06	0	0.0311	6.8E-06
B-10	0-2.5	1.3E-06	0	0.006	1.3E-06
	2.5-5	2.6E-06	0	0.0118	2.6E-06
B-14	0-2.5	7.3E-06	0	0.033	7.3E-06
	2.5-5	1.4E-06	0	0.0065	1.4E-06
	5-7.5	4.8E-06	0	0.0264	4.9E-06
	7.5-10	2.2E-06	0	0.0106	2.2E-06

The Following Documentation is Required

All documentation listed in Wis. Admin. Code § NR 718.12(2) must be provided with an exemption request. The following documentation must still be submitted to complete the request.

1) A proposed schedule for managing the contaminated material as proposed in the "Contaminated Materials Management Plan" (Wis. Admin. Code § NR 718.12(2)(b)5).

Currently, the schedule is to begin moving soil to the approved destination facilities within 72 hours of receiving approval of the CMMP. Pending favorable weather, the soil transportation will be completed within 30 calendar days.

2) Contact and locational information for the facility that will be accepting contaminated soil (Wis. Admin. Code § 718.12(2)(c)2 & 3). It is recommended that you complete Section 2, parts F and G, of the "Recommended Format for Exemption Request Wis. Admin. Code § NR 718.12 or § NR 718.15" (DNR Publication RR-072) to ensure that all needed information is included.

Section 2, parts F and G for the Milwaukee Solvay site and the R&R Excavation Facility are provided below. Soil that is characterized to contain PAHs below the NR 720 RCL for non-industrial direct contact and below the NR 720 RCL for the groundwater pathway is proposed to be transported to the Milwaukee Solvay site for use as an engineered barrier. The soil that is characterized to exceed either the NR 720 RCL for non-industrial direct contact or the NR 720 RCL for the groundwater pathway is proposed to be transported to the R&R Excavation Facility for reclaiming a former quarry.

Milwaukee Solvay

F. Information About the Site or Facility Where Contaminated Soil Will Be Disposed, if at a Different Location Than The Site or Facility From Which it Was Generated	
☐ Select if Same as Generating Property (and skip remainder of section)	
BRRTS No. 02-41-466662	BRRTS Activity (Site) Name Milwaukee Solvay Coke & Gas - MGP
Receiving Site or Facility Address 311 East Greenfield Avenue	VPLE No.
City Milwaukee	Parcel ID No. 4639995200
State Wisconsin	FID No. 241219880
County Milwaukee	Zip Code 53204
WTM Coordinates X: 690471 Y: 284814	WTM Coordinates Represent Source Area ☐ Parcel Center XX
NW ¼ NW ¼ Section 04	T: 06 R: 22 E/W: E
Latitude: 43.0168861	Longitude: -87.9080059
Current Zoning: Industrial	Current Land Use: Vacant

G. Receiving Site or Facility (Source Property or Off-Site Property) Owner Information			
Provide the following information for the owner of the receiving site or facility. If there is more than one property owner include the information requested below for each as a separate document and attach to this form.			
Property Owner Name(s) Robert Paulson	Company Name We Energies		
Mailing Address 333 West Everett Street	City Milwaukee	State WI	Zip Code 53203
Phone No. (include area code) (414) 221-3948	Email robert.paulson@we-energies.com		

R&R Excavating Facility

F. Information About the Site or Facility Where Contaminated Soil Will Be Disposed, if at a Different Location Than The Site or Facility From Which it Was Generated	
☐ Select if Same as Generating Property (and skip remainder of section)	
BRRTS No. not applicable	BRRTS Activity (Site) Name R&R Excavating Facility
Receiving Site or Facility Address County Highway I at STH 60	VPLE No. not applicable
City Town of Cedarburg	Parcel ID No.
State Wisconsin	FID No.
County Ozaukee	Zip Code 53012
WTM Coordinates X: 683133 Y: 318082	WTM Coordinates Represent Source Area ☐ Parcel Center XX
SE ¼ NE ¼ Section 22	T: 10 R: 21 E/W: E
Latitude: 43.317884	Longitude: -87.988200
Current Zoning:	Current Land Use:

G. Receiving Site or Facility (Source Property or Off-Site Property) Owner Information			
Provide the following information for the owner of the receiving site or facility. If there is more than one property owner include the information requested below for each as a separate document and attach to this form.			
Property Owner Name(s) Dick and Maxine Charmoli	Company Name Charmoli Holdings, LLC		
Mailing Address 320 Douglas Lane	City Cedarburg	State WI	Zip Code 53012
Phone No. (include area code) (262) 377-5736	Email		

3) A copy of the written notification sent to owners of R&R Excavating notifying them of continuing obligations that will be imposed on their property as a result of their acceptance of the contaminated soil (718.12(2)(d)). It is recommended that, at a minimum, you complete Sections 8 and 11 of the "Recommended Format for Exemption Request Wis. Admin. Code § NR 718.12 or § NR 718.15" and provide this documentation to the owners of R&R Excavating to review and to complete Section 12. The document can then be submitted to the DNR to demonstrate that these requirements were met.

KEY will prepare a letter notifying the owner of the R&R Excavation Facility of continuing obligations associated with accepting soil from the subject property that contains PAHs exceeding the NR 720 RCL for non-industrial direct contact and the NR 720 RCL for the groundwater pathway. Sections 8, 11, and 12 will be included in the letter. A copy of the letter and the certified mail receipt will be provided to the WDNR.

4) All documentation required by NR 718.12(2)(e) for the sites or facilities where continuing obligations will be imposed as a result of the management of this contaminated material. This would include the following items:

a. Site location map outlining the receiving property on a USGS topographical map or topo map.
b. Detailed site map of the receiving property indicating the general area where material will be disposed of.
c. Deed for the receiving property.
d. Survey map for the receiving property (if referenced in the deed).
e. Statement signed by the property owner of the receiving property indicating that the legal description provided on the deed is correct.

Attachment B contains the following documentation for the Milwaukee Solvay site:

- Acceptance letter dated November 29, 2017 acknowledging restrictions and obligations,
- Site Location Map on a USGS topo map,
- An aerial photo illustrating the destination property boundaries, and
- The deed for the receiving property.

Attachment C contains an aerial photo for the R&R Excavating site that illustrates the area where the impacted soil will be transported.

If you have any questions, please call Kurt McClung at 414 225-0592, or D'Arcy Gravelle at 414 978-4842.

Sincerely,

KEY ENGINEERING GROUP, LTD.

Kurt McClung, PG, PE
Senior Engineer

D'Arcy Gravelle, PG, CPG
Principal

cc: Michael Klein- Klein Development
Brendan Sigler- C&D Smith

Attachments:

Figure 1	Site Location
Figure 2	Site Layout Map
Figure 3	Post Grading Soil Sample Location Map
Figure 4	Location of Soil RCL Exceedances
Figure 5	Cut and Fill Plan
Attachment A	Soil RCL Tables
Attachment B	Documentation for Milwaukee Solvay Site
Attachment C	Documentation for R&R Excavating Facility

Tables

Table 1
Pre-Grading Soil Sample Analytical Results
Former Boys and Girls Club 1632 Franklin Place Milwaukee, Wisconsin
BRRTS No 03-41-578482

PARAMETERS	Non-Industrial Direct Contact RCL	Protection of Groundwater RCL	Sample Identification															
			Tank Center	Tank East	Tank West	GP-1	GP-2	GP-3	MW-2	MW-3	MW-4	HA-1	HA-2	HA-3	HA-4	GP-4		GP-5	
Date Collected			7/15/2016	7/15/2016	7/15/2016	8/10/2016	8/10/2016	8/10/2016	8/10/2016	8/10/2016	8/10/2016	9/30/2016	9/30/2016	9/30/2016	9/30/2016	12/9/2016		12/9/2016	
Depth (feet bgs)			14-15	14-15	14-15	8-10	8-10	8-10	22-24	29-31	34-36	1-2	1-2	1-2	1-2	2-4	6-8	2-4	6-8
Saturated(s)/Unsaturated(u)			u	u	u	u	u	u	u	u	u	u	u	u	u	u	u	u	u
Detected VOCs (mg/kg)																			
Benzene	1.6	0.0051	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
n-Butylbenzene	108		0.14	0.13	0.28	<0.025	<0.025	<0.025	0.033J	0.042J	<0.025	<0.025	<0.025	<0.025	<0.025				
sec-Butylbenzene	145		0.12	0.10	0.087	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025				
Naphthalene	5.52	0.6582	<0.040	<0.040	0.23J	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.091J				
n-Propylbenzene	---	---	<0.025	<0.025	0.051J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025				
Toluene	818	1.1072	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.068				
1,2,4-Trimethylbenzene	219	---	0.088	0.11	0.33	<0.025	<0.025	<0.025	0.18	0.097	<0.025	<0.025	<0.025	<0.025	0.064J				
1,3,5-Trimethylbenzene	182	---	<0.025	0.039J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.037J				
Trimethylbenzenes	---	1.3821	0.088	0.149	0.33	<0.050	<0.050	<0.050	0.18	0.097	<0.050	<0.050	<0.050	<0.050	0.101J				
m&p-Xylene	---	---	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.082J				
o-Xylene	---	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.029J				
Xylenes	260	3.96	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	0.111J				
Detected PAHs (mg/kg)																			
Acenaphthene	3,590	---	0.16	<0.011	0.035	0.010J	<0.057	<0.010	<0.010	<0.0095	<0.0094	0.039	0.010J	0.028J	<0.084	<0.0054	<0.0046	<0.0048	<0.0046
Acenaphthylene	---	---	0.14	<0.010	<0.0098	<0.0087	0.13	<0.0094	<0.0092	<0.0085	<0.0084	0.012J	0.016	0.14	0.11J	<0.0046	<0.0039	<0.0041	<0.0039
Anthracene	17,900	196.9492	0.26	<0.012	0.013J	<0.010	0.34	<0.011	<0.011	<0.0099	<0.0098	0.10	0.056	0.24	0.75	<0.0079	<0.0067	0.011J	<0.0068
Benzo(a)anthracene	1.14	---	0.76	<0.0078	<0.0076	<0.0067	0.98	<0.0073	<0.0071	0.035	0.021	0.18	0.26	0.64	4.2	0.0044J	<0.0037	0.048	<0.0038
Benzo(a)pyrene	0.115	0.47	**0.59**	<0.0081	<0.0078	<0.0069	1.1	<0.0075	<0.0073	0.042	0.024	0.18	0.32	**0.92**	**5.3**	<0.0035	<0.0030	0.033	<0.0030
Benzo(b)fluoranthene	1.15	0.4793	**0.81**	<0.011	<0.011	<0.0097	**1.2**	<0.010	<0.010	0.040	0.020	0.15	0.32	**0.89**	**5.7**	0.0051J	0.0047J	0.098	<0.0034
Benzo(g,h,i)perylene	---	---	0.26	<0.0086	<0.0083	<0.0074	0.91	<0.0080	<0.0078	0.030	0.017J	0.12	0.16	0.64	4.3	<0.0028	0.0028J	0.066	<0.0024
Benzo(k)fluoranthene	11.5	---	0.33	<0.013	<0.012	<0.011	0.87	<0.012	<0.011	0.039	0.025	0.15	0.31	0.76	5.2	<0.0035	<0.0030	0.031	<0.0030
Chrysene	115	0.1446	**0.81**	<0.010	<0.010	<0.0090	**1.1**	<0.0097	<0.0095	0.043	0.027	**0.23**	**0.32**	**0.76**	**5.1**	0.0088J	0.0060J	0.084	<0.0040
Dibenzo(a,h)anthracene	0.115	---	0.12	<0.0083	<0.0080	<0.0071	0.33	<0.0077	<0.0075	0.011J	<0.0069	0.044	0.072	0.27	1.6	<0.0031	<0.0026	0.022	<0.0027
Fluoranthene	2,390	88.8778	1.2	<0.011	<0.011	<0.0097	2.2	<0.010	<0.010	0.065	0.040	0.34	0.46	1.4	6.3	<0.0072	<0.0061	0.075	<0.0062
Fluorene	2,390	14.8299	0.22	<0.011	0.031	<0.0097	0.063J	<0.010	<0.010	<0.0095	<0.0094	0.045	0.010J	0.026J	0.099J	<0.0057	<0.0049	<0.0052	<0.0049
Indeno(1,2,3-cd)pyrene	1.15	---	0.26	<0.0086	<0.0083	<0.0074	0.84	<0.0080	<0.0078	0.029	0.016J	0.11	0.17	0.60	4.1	<0.0031	<0.0026	0.037	<0.0026
1-methyl naphthalene	17.6	---	0.29	0.05	0.20	0.063	<0.057	<0.010	0.028	<0.0095	<0.0094	0.016J	0.0096J	<0.019	<0.088	<0.0056	<0.0047	<0.0050	<0.0048
2-methyl naphthalene	239	---	0.26	0.051	0.28	<0.0097	<0.057	<0.010	0.026	<0.0095	<0.0094	0.025	0.012J	<0.024	<0.11	<0.0069	<0.0059	<0.0062	<0.0060
Naphthalene	5.52	0.6582	0.11	0.031	0.13	<0.0097	<0.057	<0.010	<0.010	<0.0095	<0.0094	0.032J	0.013J	<0.040	<0.18	<0.012	<0.0099	<0.010	<0.010
Phenanthrene	---	---	0.41	0.020J	0.073	<0.0097	0.96	<0.010	0.037	0.022	0.022	0.26	0.16	0.47	1.8	<0.016	<0.014	0.050	<0.014
Pyrene	1,790	54.5455	1.1	0.013J	0.032	<0.0097	1.8	<0.010	<0.010	0.057	0.035	0.37	0.37	1.1	5.3	0.0094J	0.0054J	0.063	<0.0054

Notes:

Bold values exceed the NR 720 RCL for protection of groundwater

Boxed values exceed the NR 720 RCL for non-industrial direct contact (applicable 0 to 4 feet bgs)

--- - no standard established

quanititation

bgs - below ground surface

mg/kg - milligrams per kilogram

PAHs - polynuclear aromatic hydrocarbons

VOCs - volatile organic compounds

Table 1
Pre-Grading Soil Sample Analytical Results
Former Boys and Girls Club 1632 Franklin Place Milwaukee, Wisconsin
BRRTS No 03-41-578482

PARAMETERS	Non-Industrial Direct Contact RCL	Protection of Groundwater RCL	Sample Identification													
			GP-6			GP-7		GP-8			GP-9			GP-10		
Date Collected			12/9/2016			12/9/2016		12/9/2016			12/9/2016			12/9/2016		
Depth (feet bgs)			2-4	14-15	34-36	2-4	6-8	0-2	2-4	6-8	0-2	2-4	6-8	0-2	2-4	6-8
Saturated(s)/Unsaturated(u)			u	u	u	u	u	u	u	u	u	u	u	u	u	u
Detected VOCs (mg/kg)																
Benzene	1.6	0.0051	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
n-Butylbenzene	108															
sec-Butylbenzene	145															
Naphthalene	5.52	0.6582														
n-Propylbenzene	---	---														
Toluene	818	1.1072														
1,2,4-Trimethylbenzene	219	---														
1,3,5-Trimethylbenzene	182	---														
Trimethylbenzenes	---	1.3821														
m&p-Xylene	---	---														
o-Xylene	---	---														
Xylenes	260	3.96														
Detected PAHs (mg/kg)																
Acenaphthene	3,590	---	<0.019	<0.0046	<0.0045	<0.0050	<0.0047	0.018	<0.0049	<0.0045	<0.0046	<0.0041	<0.0047	0.093	<0.0043	<0.0054
Acenaphthylene	---	---	<0.016	<0.0039	<0.0039	<0.0042	<0.0040	<0.0040	<0.0042	<0.0038	<0.0039	<0.0035	<0.0040	0.010J	<0.0036	<0.0046
Anthracene	17,900	196.9492	0.094	<0.0068	<0.0067	<0.0073	<0.0069	0.044	<0.0073	<0.0066	<0.0067	<0.0060	<0.0069	0.20	<0.0063	<0.0080
Benzo(a)anthracene	1.14	---	0.51	<0.0038	<0.0037	0.039	<0.0038	0.21	0.0062J	<0.0037	0.035	<0.0033	<0.0038	0.37	0.012	<0.0044
Benzo(a)pyrene	0.115	0.47	**0.55**	<0.0030	<0.0029	0.021	<0.0030	0.22	<0.0032	<0.0029	0.036	<0.0026	<0.0030	0.29	0.0096	<0.0035
Benzo(b)fluoranthene	1.15	0.4793	**1.1**	<0.0033	<0.0033	0.052	<0.0034	0.29	0.0038J	<0.0033	0.051	<0.0030	<0.0034	0.37	0.011	<0.0039
Benzo(g,h,i)perylene	---	---	0.54	<0.0024	<0.0024	0.023	<0.0025	0.13	<0.0026	<0.0024	0.020	<0.0021	<0.0024	0.16	0.0063J	<0.0028
Benzo(k)fluoranthene	11.5	---	0.42	<0.0030	<0.0029	0.026	<0.0030	0.10	<0.0032	<0.0029	0.019	<0.0026	<0.0030	0.16	0.0051J	<0.0035
Chrysene	115	0.1446	**0.86**	<0.0040	<0.0039	0.049	<0.0041	**0.24**	<0.0043	<0.0039	0.045	<0.0035	<0.0041	**0.36**	0.011J	<0.0047
Dibenzo(a,h)anthracene	0.115	---	0.15	<0.0026	<0.0026	0.0078J	<0.0027	0.029	<0.0028	<0.0026	0.0049J	<0.0023	<0.0027	0.045	<0.0025	<0.0031
Fluoranthene	2,390	88.8778	1.0	<0.0062	<0.0061	0.088	<0.0063	0.38	0.0072J	<0.0061	0.067	<0.0055	<0.0063	0.81	0.019J	<0.0073
Fluorene	2,390	14.8299	<0.020	<0.0049	<0.0048	<0.0053	<0.0050	0.013J	<0.0053	<0.0048	<0.0049	<0.0043	<0.0050	0.089	<0.0045	<0.0058
Indeno(1,2,3-cd)pyrene	1.15	---	0.49	<0.0026	<0.0026	0.020	<0.0027	0.11	<0.0028	<0.0026	0.017	<0.0023	<0.0026	0.14	0.0052J	<0.0031
1-methyl naphthalene	17.6	---	<0.019	<0.0048	<0.0047	<0.0051	<0.0049	<0.0049	<0.0051	<0.0047	<0.0048	<0.0042	<0.0048	0.035	<0.0044	<0.0056
2-methyl naphthalene	239	---	<0.024	<0.0059	<0.0059	<0.0064	<0.0060	<0.0060	<0.0064	<0.0058	<0.0059	<0.0053	<0.0060	0.043	<0.0055	<0.0070
Naphthalene	5.52	0.6582	<0.040	<0.010	<0.0099	<0.011	<0.010	<0.010	<0.011	<0.0098	<0.0099	<0.0088	<0.010	0.080	<0.0092	<0.012
Phenanthrene	---	---	0.26	<0.014	<0.014	0.029J	<0.014	0.19	<0.015	<0.014	0.025J	<0.012	<0.014	0.84	<0.013	<0.016
Pyrene	1,790	54.5455	0.81	<0.0053	<0.0053	0.067	<0.0055	0.40	0.0071J	<0.0052	0.067	<0.0047	<0.0054	0.70	0.019	<0.0063

Notes:

Bold values exceed the NR 720 RCL for protection of groundwater

Boxed values exceed the NR 720 RCL for non-industrial direct contact (applicable 0 to 4 feet bgs)

--- - no standard established

quanititation

bgs - below ground surface

mg/kg - milligrams per kilogram

PAHs - polynuclear aromatic hydrocarbons

VOCs - volatile organic compounds

Table 2
Post-Grading Soil Sample Analytical Results
Former Boys and Girls Club 1632 Franklin Place Milwaukee, Wisconsin
BRRTS No 03-41-578482

PARAMETERS	Non-Industrial Direct Contact RCL	Protection of Groundwater RCL	Background Threshold Value	Sample Identification																							
				B-1				B-2								B-3						B-4					
Date Collected				10/30/2017				10/30/2017								10/30/2017						10/30/2017		11/17/2017			
Depth (feet bgs)				0-2.5	2.5-5	5-7.5	7.5-10	0-2.5	2.5-5	5-7.5	7.5-10	10-12.5	12.5-15	15-17.5	17.5-20	0-2.5	2.5-5	5-7.5	7.5-10	10-12.5	12.5-15	0-2.5	2.5-5	5-7.5	7.5-10	10-12.5	12.5-15
Detected PAHs (mg/kg)																											
Acenaphthene	3,590	---	---	<0.0046	<0.0047	<0.0045	<0.0046	<0.0045	<0.0047	<0.0045	<0.0044	<0.0050	<0.0050	<0.0046	<0.0051	0.0890J	<0.0484	<0.0046	<0.0046	<0.0045	<0.0045	0.0101J	0.0166J	<0.0045	<0.0045	<0.0046	<0.0047
Acenaphthylene	---	---	---	0.0046J	<0.0040	<0.0039	<0.0039	<0.0038	<0.0040	<0.0038	<0.0038	<0.0042	<0.0043	<0.0039	<0.0043	0.0867J	0.145	<0.0039	<0.0039	<0.0038	<0.0039	0.0091J	0.0077J	<0.0039	<0.0039	<0.0039	<0.0040
Anthracene	17,900	196.9492	---	0.0147J	0.0093J	<0.0067	<0.0068	<0.0067	<0.0069	0.0069J	<0.0065	<0.0073	0.0108J	<0.0068	<0.0075	0.360	0.324	<0.0067	<0.0067	<0.0066	<0.0067	0.0728	0.113	<0.0067	<0.0067	<0.0068	<0.0069
Benzo(a)anthracene	1.14	---	---	0.0686	0.0242	<0.0037	<0.0038	<0.0037	<0.0038	0.0197	<0.0036	0.0048J	0.0237	<0.0038	<0.0042	1.27	1.32	0.0038J	<0.0037	<0.0037	<0.0037	0.346	0.618	<0.0037	<0.0037	<0.0038	<0.0038
Benzo(a)pyrene	0.115	0.47	---	0.0753	0.0211	<0.0029	<0.0030	<0.0029	<0.0030	0.0171	<0.0029	<0.0032	0.0138	0.0031J	<0.0033	**1.24**	**1.21**	0.0040J	<0.0030	<0.0029	<0.0029	0.326	**0.497**	<0.0029	<0.0029	<0.0030	<0.0030
Benzo(b)fluoranthene	1.15	0.4793	---	0.0617	0.0221	<0.0033	<0.0033	<0.0033	<0.0034	0.0171	<0.0032	<0.0036	0.0184	0.0038J	<0.0037	**1.09**	**1.52**	0.0053J	<0.0033	<0.0033	0.0036J	0.282	**0.495**	<0.0033	<0.0033	<0.0034	<0.0034
Benzo(g,h,i)perylene	---	---	---	0.0502	0.0084	<0.0024	<0.0024	<0.0024	<0.0025	0.0051J	<0.0023	<0.0026	0.0050J	<0.0024	<0.0027	0.774	0.577	<0.0024	<0.0024	<0.0024	<0.0024	0.206	0.324	<0.0024	<0.0024	<0.0024	<0.0024
Benzo(k)fluoranthene	11.5	---	---	0.0814	0.0202	<0.0029	<0.0030	<0.0029	<0.0030	0.0169	<0.0029	<0.0032	0.0084J	<0.0030	<0.0033	1.24	0.689	<0.0029	<0.0030	<0.0029	<0.0029	0.280	0.488	<0.0029	<0.0029	<0.0030	<0.0030
Chrysene	115	0.1446	---	0.0865	0.0251	<0.0040	<0.0040	<0.0039	<0.0041	0.0221	<0.0039	<0.0043	0.0191	<0.0040	<0.0044	**1.53**	**1.25**	0.0047J	<0.0040	<0.0039	<0.0040	**0.350**	**0.638**	<0.0039	<0.0039	<0.0040	<0.0041
Dibenzo(a,h)anthracene	0.115	---	---	0.0163	0.0031J	<0.0026	<0.0027	<0.0026	<0.0027	<0.0026	<0.0026	<0.0029	<0.0029	<0.0027	<0.0029	0.240	0.177	<0.0026	<0.0026	<0.0026	<0.0026	0.0664	0.105	<0.0026	<0.0026	<0.0027	<0.0027
Fluoranthene	2,390	88.8778	---	0.175	0.0654	<0.0061	<0.0062	<0.0061	<0.0063	0.0451	<0.0060	<0.0067	0.0541	0.0082J	<0.0069	3.20	2.54	0.0103J	<0.0061	<0.0060	<0.0061	0.669	1.33	<0.0061	<0.0061	<0.0062	<0.0063
Fluorene	2,390	14.8299	---	<0.0049	<0.0050	<0.0049	<0.0049	<0.0048	<0.0050	<0.0048	<0.0047	<0.0053	<0.0053	<0.0049	<0.0055	0.196	<0.0516	<0.0049	<0.0049	<0.0048	<0.0048	0.0112J	0.0202J	<0.0048	<0.0048	<0.0049	<0.0050
Indeno(1,2,3-cd)pyrene	1.15	---	---	0.0473	0.0087J	<0.0026	<0.0026	<0.0026	<0.0027	0.0054J	<0.0025	<0.0028	0.0054J	<0.0026	<0.0029	0.720	0.586	<0.0026	<0.0026	<0.0025	<0.0026	0.194	0.302	<0.0026	<0.0026	<0.0026	<0.0026
1-methyl naphthalene	17.6	---	---	0.0866	<0.0048	<0.0047	<0.0048	<0.0047	<0.0049	<0.0047	<0.0046	<0.0052	<0.0052	<0.0048	<0.0053	0.179	<0.0502	<0.0047	<0.0047	<0.0047	<0.0047	0.0086J	0.0133J	<0.0047	<0.0047	<0.0048	<0.0048
2-methyl naphthalene	239	---	---	0.1060	<0.0060	<0.0059	<0.0059	<0.0058	<0.0060	<0.0048	<0.0057	<0.0064	<0.0065	<0.0060	<0.0066	0.232	<0.0624	<0.0059	<0.0059	<0.0058	<0.0059	0.0085J	0.0101J	<0.0058	<0.0058	<0.0059	<0.0060
Naphthalene	5.52	0.6582	---	0.0927	<0.0101	<0.0099	<0.0100	<0.0098	<0.0102	<0.0098	<0.0097	<0.0108	<0.0109	<0.0101	<0.0111	0.135J	<0.105	<0.0099	<0.0099	<0.0097	<0.0099	0.0189J	0.0153J	<0.0098	<0.0098	<0.010	<0.010
Phenanthrene	---	---	---	0.0994	0.0397J	<0.0137	<0.0138	<0.0136	<0.0141	0.0232J	<0.0134	<0.0150	0.0376J	<0.0139	<0.0154	1.56	0.759	<0.0137	<0.0137	<0.0135	<0.0136	0.281	0.374	<0.014	<0.014	<0.014	<0.014
Pyrene	1,790	54.5455	---	0.150	0.0497	<0.0053	<0.0053	<0.0053	<0.0055	0.0359	<0.0052	<0.0058	0.0373	0.0072J	<0.0059	2.60	2.30	0.0079J	<0.0053	<0.0052	<0.0053	0.619	1.12	<0.0053	<0.0053	<0.0054	<0.0054
RCRA Metals (mg/kg)																											
Arsenic	0.677	0.584	8	NS	4.1J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	15,300	164.8	364	NS	89.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	71.1	0.752	1	NS	<0.16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chromium	---	360,000	44	NS	31.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	400	27	52	NS	21.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	3.13	0.208	---	NS	<0.013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	391	0.52	---	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Silver	391	0.8491	---	NS	<0.40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

Bold values exceed the NR 720 RCL for protection of groundwater

Boxed values exceed the NR 720 RCL for non-industrial direct contact (applicable 0 to 4 feet bgs)

--- - no standard established

J - Results between laboratory limit of detection and limit of quanititation

bgs - below ground surface

mg/kg - milligrams per kilogram

NS - no sample collected

PAHs - polynuclear aromatic hydrocarbons

VOCs - volatile organic compounds

RCL Values were obtained from the WDNR RCL Table dated March 2017

Table 2
Post-Grading Soil Sample Analytical Results
Former Boys and Girls Club 1632 Franklin Place Milwaukee, Wisconsin
BRRTS No 03-41-578482

PARAMETERS	Non-Industrial Direct Contact RCL	Protection of Groundwater RCL	Background Threshold Value	Sample Identification																								
				B-5						B-6						B-7				B-8				B-9				
Date Collected				10/30/2017		11/17/2017				10/30/2017						10/30/2017				10/31/2017				10/31/2017				
Depth (feet bgs)				0-2.5	2.5-5	5-7.5	7.5-10	10-12.5	12.5-15	0-2.5	2.5-5	5-7.5	7.5-10	10-12.5	12.5-15	0-2.5	2.5-5	5-7.5	7.5-10	0-2.5	2.5-5	5-7.5	7.5-10	0-2.5	2.5-5	5-7.5	7.5-10	10-12.5
Detected PAHs (mg/kg)																												
Acenaphthene	3,590	---	---	0.0149	0.0129J	<0.0047	<0.0046	<0.0044	<0.0044	<0.0046	<0.0046	<0.0046	<0.0048	<0.0046	<0.0046	<0.0046	<0.0049	<0.0046	<0.0049	0.0075J	0.31J	<0.0052	<0.0049	0.016J	0.092J	0.099	<0.0047	0.0054J
Acenaphthylene	---	---	---	0.0034J	0.0065J	<0.0040	<0.0039	<0.0037	<0.0038	<0.0039	<0.0039	<0.0039	<0.0040	<0.0039	<0.0039	<0.0039	<0.0042	<0.0039	<0.0042	<0.0040	<0.082	<0.0044	<0.0042	0.020J	<0.031	<0.019	<0.0040	<0.0040
Anthracene	17,900	196.9492	---	0.0625	0.069	<0.0069	<0.0068	<0.0065	<0.0065	<0.0067	<0.0067	<0.0067	<0.0070	<0.0067	<0.0067	<0.0067	<0.0073	<0.0068	<0.0073	0.031	1.1	<0.0077	<0.0073	0.083	0.34	0.30	0.012J	0.015J
Benzo(a)anthracene	1.14	---	---	0.172	0.356	<0.0038	<0.0038	<0.0036	<0.0036	<0.0037	<0.0037	<0.0037	<0.0039	0.0099J	<0.0037	0.026	<0.0040	<0.0038	<0.0040	0.11	3.0	<0.0043	<0.0040	0.35	1.0	0.54	0.039	0.043
Benzo(a)pyrene	0.115	0.47	---	0.152	0.358	<0.0030	<0.0030	<0.0029	<0.0029	<0.0029	<0.0030	<0.0029	<0.0031	0.0078J	<0.0029	0.026	<0.0032	<0.0030	<0.0032	0.12	**2.7**	<0.0034	<0.0032	0.38	**0.99**	**0.52**	0.043	0.044
Benzo(b)fluoranthene	1.15	0.4793	---	0.156	0.314	<0.0034	<0.0033	<0.0032	<0.0032	<0.0033	<0.0033	<0.0033	<0.0035	0.011J	<0.0033	0.034	<0.0036	<0.0034	<0.0036	0.13	**2.9**	<0.0038	<0.0036	0.36	1.0	0.47	0.038	0.047
Benzo(g,h,i)perylene	---	---	---	0.117	0.258	<0.0025	<0.0024	<0.0023	<0.0023	<0.0024	<0.0024	<0.0024	<0.0025	0.0040J	<0.0024	0.0095	<0.0026	<0.0024	<0.0026	0.082	1.9	<0.0027	<0.0026	0.29	0.70	0.36	0.014	0.037
Benzo(k)fluoranthene	11.5	---	---	0.143	0.315	<0.0030	<0.0030	<0.0028	<0.0029	<0.0029	<0.0030	<0.0029	<0.0031	0.0050J	<0.0029	0.014	<0.0032	<0.0030	<0.0032	0.098	2.5	<0.0034	<0.0032	0.34	0.84	0.54	0.041	0.04
Chrysene	115	0.1446	---	**0.172**	**0.395**	<0.0041	<0.0040	<0.0038	<0.0039	<0.0040	<0.0040	<0.0040	<0.0041	0.0075J	<0.0040	0.029	<0.0043	<0.0040	<0.0043	0.13	**3.6**	<0.0045	<0.0043	**0.46**	**1.2**	**0.62**	0.048	0.053
Dibenzo(a,h)anthracene	0.115	---	---	0.0395	0.0819	<0.0027	<0.0026	<0.0025	<0.0026	<0.0026	<0.0026	<0.0026	<0.0027	<0.0026	<0.0026	0.0034J	<0.0028	<0.0027	<0.0028	0.026	0.64	<0.0030	<0.0029	0.098	0.23	0.12	0.0070J	0.011
Fluoranthene	2,390	88.8778	---	0.349	0.801	<0.0063	<0.0062	<0.0059	<0.0060	<0.0061	<0.0061	<0.0061	<0.0064	0.014J	<0.0061	0.049	<0.0066	<0.0062	<0.0066	0.31	9.3	<0.0070	<0.0066	0.93	2.9	1.8	0.11	0.13
Fluorene	2,390	14.8299	---	0.0142	0.0139J	<0.0050	<0.0049	<0.0047	<0.0047	<0.0049	<0.0049	<0.0049	<0.0051	<0.0049	<0.0049	<0.0049	<0.0053	<0.0049	<0.0053	0.0084J	0.30J	<0.0056	<0.0053	0.019J	0.096J	0.11	<0.0050	0.0066J
Indeno(1,2,3-cd)pyrene	1.15	---	---	0.106	0.232	<0.0027	<0.0026	<0.0025	<0.0025	<0.0026	<0.0026	<0.0026	<0.0027	0.0038J	<0.0026	0.011	<0.0028	<0.0026	<0.0028	0.075	1.7	<0.0030	<0.0028	0.25	0.62	0.33	0.017	0.031
1-methyl naphthalene	17.6	---	---	0.0054J	0.0099J	<0.0049	<0.0048	<0.0046	<0.0046	<0.0047	<0.0047	<0.0047	<0.0049	<0.0047	<0.0047	<0.0047	<0.0051	<0.0048	<0.0051	<0.0049	<0.10	<0.0054	<0.0051	<0.0092	<0.038	<0.024	<0.0048	<0.0049
2-methyl naphthalene	239	---	---	0.0041J	0.0066J	<0.0060	<0.0059	<0.0057	<0.0057	<0.0059	<0.0059	<0.0059	<0.0061	<0.0059	<0.0059	<0.0059	<0.0063	<0.0060	<0.0064	<0.0061	<0.12	<0.0067	<0.0064	<0.011	<0.047	<0.029	<0.0060	<0.0061
Naphthalene	5.52	0.6582	---	0.0097J	0.0149J	<0.010	<0.010	<0.0096	<0.0096	<0.0099	<0.0099	<0.0099	<0.0103	<0.0099	<0.0099	<0.0099	<0.011	<0.010	<0.011	<0.010	<0.21	<0.011	<0.011	<0.019	<0.079	0.050J	<0.010	0.014J
Phenanthrene	---	---	---	0.168	0.292	<0.014	<0.014	<0.013	<0.013	<0.0137	<0.0137	<0.0137	<0.0143	<0.014	<0.014	0.019J	<0.015	<0.014	<0.015	0.15	5.2	<0.016	<0.015	0.47	1.5	1.3	0.055	0.077
Pyrene	1,790	54.5455	---	0.317	0.692	<0.0055	<0.0053	<0.0051	<0.0052	<0.0053	<0.0053	<0.0053	<0.0055	0.012J	<0.0053	0.045	<0.0057	<0.0054	<0.0057	0.24	6.9	<0.0061	<0.0058	0.88	2.2	1.2	0.084	0.095
RCRA Metals (mg/kg)																												
Arsenic	0.677	0.584	8	NS	NS	NS	NS	NS	NS	NS	NS	3.8J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	6.2	NS	NS	NS
Barium	15,300	164.8	364	NS	NS	NS	NS	NS	NS	NS	NS	74.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	108	NS	NS	NS
Cadmium	71.1	0.752	1	NS	NS	NS	NS	NS	NS	NS	NS	<0.15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.32J	NS	NS	NS
Total Chromium	---	360,000	44	NS	NS	NS	NS	NS	NS	NS	NS	26.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	25.0	NS	NS	NS
Lead	400	27	52	NS	NS	NS	NS	NS	NS	NS	NS	7.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**108**	NS	NS	NS
Mercury	3.13	0.208	---	NS	NS	NS	NS	NS	NS	NS	NS	0.013J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.023J	NS	NS	NS
Selenium	391	0.52	---	NS	NS	NS	NS	NS	NS	NS	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1.2	NS	NS	NS
Silver	391	0.8491	---	NS	NS	NS	NS	NS	NS	NS	NS	<0.40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.37	NS	NS	NS

Notes:

Bold values exceed the NR 720 RCL for protection of groundwater

Boxed values exceed the NR 720 RCL for non-industrial direct contact (applicable 0 to 4 feet bgs)

--- - no standard established

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bgs - below ground surface

mg/kg - milligrams per kilogram

NS - no sample collected

PAHs - polynuclear aromatic hydrocarbons

VOCs - volatile organic compounds

RCL Values were obtained from the WDNR RCL Table dated March 2017

Table 2
Post-Grading Soil Sample Analytical Results
Former Boys and Girls Club 1632 Franklin Place Milwaukee, Wisconsin
BRRTS No 03-41-578482

PARAMETERS	Non-Industrial Direct Contact RCL	Protection of Groundwater RCL	Background Threshold Value	Sample Identification																			
				B-10						B-11								B-12					
Date Collected				10/31/2017						10/31/2017								10/31/2017					
Depth (feet bgs)				0-2.5	2.5-5	5-7.5	7.5-10	10-12.5	12.5-15	0-2.5	2.5-5	5-7.5	7.5-10	10-12.5	12.5-15	15-17.5	17.5-20	0-2.5	2.5-5	5-7.5	7.5-10	10-12.5	
Detected PAHs (mg/kg)																							
Acenaphthene	3,590	---	---	0.0229	0.0291	<0.0019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00020	<0.00037	<0.00021	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00020	<0.00019	
Acenaphthylene	---	---	---	0.00094J	<0.0018	<0.0018	<0.00018	<0.00018	<0.00017	<0.00018	<0.00018	<0.00019	<0.00035	<0.00020	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00017	<0.00019	<0.00018	
Anthracene	17,900	196.9492	---	0.0745	0.106	0.00046J	0.00052J	<0.00026	<0.00026	<0.00026	0.00029J	<0.00027	0.0018J	<0.00029	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00027	<0.00026	
Benzo(a)anthracene	1.14	---	---	0.138	0.242	0.0019J	0.0037	0.00060J	0.00079J	0.00083J	0.0014J	0.0011J	0.0067	0.00077J	0.0012J	0.0010J	0.00077J	0.00043J	0.00085J	0.00041J	0.00068J	0.00057J	
Benzo(a)pyrene	0.115	0.47	---	0.0971	0.199	0.0016J	0.0030	0.00057J	0.00074J	0.00059J	0.0012J	0.00076J	0.0061	0.00065J	0.0012J	0.0010J	<0.00058	<0.00056	0.00067J	<0.00056	0.0019J	<0.00057	
Benzo(b)fluoranthene	1.15	0.4793	---	0.101	0.193	0.0017J	0.0034	0.00076J	0.00081J	0.00066J	0.0013J	0.00092J	0.0073	0.00068J	0.0013J	0.0011J	0.00071J	0.00046J	0.0010J	0.00049J	0.00091J	0.00061J	
Benzo(g,h,i)perylene	---	---	---	0.0651	0.131	0.0020J	0.0032	0.0010J	0.0011J	<0.00077	0.0012J	0.00084J	0.0060	0.0016J	0.0015J	0.0013J	<0.00078	0.00084J	0.00096J	<0.00076	0.0017J	<0.00077	
Benzo(k)fluoranthene	11.5	---	---	0.107	0.185	0.0016J	0.0028J	0.00055J	0.00079J	0.00070J	0.0011J	0.00088J	0.0069	0.00049J	0.0010J	0.00091J	0.00069J	0.00042J	0.00078J	0.00042J	0.00057J	0.00053J	
Chrysene	115	0.1446	---	0.135	**0.229**	0.0028J	0.0049	0.0014J	0.0015J	0.00087J	0.0015J	0.0017J	0.0098	0.0022J	0.0022J	0.0019J	0.0015J	0.0012J	0.0017J	0.0011J	0.0021J	0.00090J	
Dibenzo(a,h)anthracene	0.115	---	---	0.0211	0.0451	<0.00089	0.00092J	<0.00090	<0.00087	<0.00088	<0.00090	<0.00093	0.0024J	<0.00098	<0.00089	<0.00090	<0.00090	<0.00088	<0.00090	<0.00087	<0.00093	<0.00089	
Fluoranthene	2,390	88.8778	---	0.328	0.602	0.0032	0.0061	0.00088J	0.0013J	0.00078J	0.0021J	0.0020J	0.0083	0.00085J	0.0018J	0.0018J	0.00082J	0.00069J	0.0017J	0.00059J	0.0010J	0.00096J	
Fluorene	2,390	14.8299	---	0.0265	0.0401	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00021	0.0014J	<0.00022	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00021	<0.00020	
Indeno(1,2,3-cd)pyrene	1.15	---	---	0.0608	0.120	0.0013J	0.0023J	<0.00075	<0.00073	<0.00074	0.00095J	<0.00078	0.0050	<0.00082	<0.00075	<0.00075	<0.00076	<0.00074	<0.00076	<0.00073	<0.00078	<0.00075	
1-methyl naphthalene	17.6	---	---	0.0093	0.0084J	<0.00023	<0.00023	<0.00023	<0.00022	<0.00023	<0.00023	<0.00024	0.0094	0.00078J	0.00036J	0.00063J	0.00035J	<0.00023	0.00054J	0.00072J	<0.00024	0.0014J	
2-methyl naphthalene	239	---	---	0.0117	0.0057J	<0.00025	<0.00025	<0.00025	<0.00024	<0.00025	<0.00025	<0.00026	0.0116	0.00072J	0.00044J	0.0011J	0.00066J	<0.00025	0.00042J	0.0012J	<0.00026	0.0020J	
Naphthalene	5.52	0.6582	---	0.0223	0.0160J	0.00031J	0.00032J	<0.00030	<0.00029	<0.00029	<0.00030	0.00039J	0.0049	0.00034J	0.0010J	<0.00030	0.00082J	<0.00029	0.00041J	0.00036J	<0.00031	0.00087J	
Phenanthrene	---	---	---	0.295	0.411	0.0025	0.0030	0.00092J	0.0013J	0.00067J	0.0015J	0.0017J	0.0088	0.0018J	0.0016J	0.0025	0.0012J	0.00090J	0.0020J	0.00073J	0.0011J	0.0017J	
Pyrene	1,790	54.5455	---	0.297	0.479	0.0042	0.0069	0.0013J	0.0016J	0.00088J	0.0019J	0.0018J	0.0144	0.0015J	0.0022J	0.0021J	0.00070J	0.00097J	0.0019J	0.00061J	0.0016J	0.0011J	
RCRA Metals (mg/kg)																							
Arsenic	0.677	0.584	8	NS	NS	NS	NS	NS	NS	NS	NS	4.4J	NS	NS	NS	NS	NS	NS	5.2J	NS	NS	NS	
Barium	15,300	164.8	364	NS	NS	NS	NS	NS	NS	NS	NS	96.3	NS	NS	NS	NS	NS	NS	86.4	NS	NS	NS	
Cadmium	71.1	0.752	1	NS	NS	NS	NS	NS	NS	NS	NS	0.18J	NS	NS	NS	NS	NS	NS	<0.15	NS	NS	NS	
Total Chromium	---	360,000	44	NS	NS	NS	NS	NS	NS	NS	NS	30.4	NS	NS	NS	NS	NS	NS	28.7	NS	NS	NS	
Lead	400	27	52	NS	NS	NS	NS	NS	NS	NS	NS	8.0	NS	NS	NS	NS	NS	NS	8.2	NS	NS	NS	
Mercury	3.13	0.208	---	NS	NS	NS	NS	NS	NS	NS	NS	<0.013	NS	NS	NS	NS	NS	NS	<0.013	NS	NS	NS	
Selenium	391	0.52	---	NS	NS	NS	NS	NS	NS	NS	NS	<1.2	NS	NS	NS	NS	NS	NS	<1.2	NS	NS	NS	
Silver	391	0.8491	---	NS	NS	NS	NS	NS	NS	NS	NS	<0.38	NS	NS	NS	NS	NS	NS	<0.38	NS	NS	NS	

Notes:

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J - Results between laboratory limit of detection and limit of quanititation

bgs - below ground surface

mg/kg - milligrams per kilogram

NS - no sample collected

PAHs - polynuclear aromatic hydrocarbons

VOCs - volatile organic compounds

RCL Values were obtained from the WDNR RCL Table dated March 2017

Table 2
Post-Grading Soil Sample Analytical Results
Former Boys and Girls Club 1632 Franklin Place Milwaukee, Wisconsin
BRRTS No 03-41-578482

PARAMETERS	Non-Industrial Direct Contact RCL	Protection of Groundwater RCL	Background Threshold Value	Sample Identification													
				B-13								B-14					
Date Collected				10/31/2017								10/30/2017					
Depth (feet bgs)				0-2.5	2.5-5	5-7.5	7.5-10	10-12.5	12.5-15	15-17.5	17.5-20	0-2.5	2.5-5	5-7.5	7.5-10	10-12.5	
Detected PAHs (mg/kg)																	
Acenaphthene	3,590	---	---	<0.00022	<0.00021	<0.00022	<0.00020	0.0015J	<0.00021	0.0012J	<0.00018	0.021J	<0.0049	0.12	0.017	<0.0046	
Acenaphthylene	---	---	---	<0.00020	<0.00020	<0.00020	<0.00018	0.00030J	<0.00019	<0.00019	<0.00016	<0.016	<0.0042	0.11	0.0046J	<0.0039	
Anthracene	17,900	196.9492	---	<0.00030	<0.00029	0.0011J	<0.00027	0.0061	<0.00028	0.0044	<0.00024	0.12	0.021J	0.14	0.031	<0.0068	
Benzo(a)anthracene	1.14	---	---	0.00072J	0.00053J	0.0055	0.0011J	0.0216	0.00074J	0.0105	0.0013J	0.58	0.10	0.19	0.17	0.0074J	
Benzo(a)pyrene	0.115	0.47	---	<0.00065	<0.00064	0.0048	0.00078J	0.0201	<0.00062	0.0081	0.00098J	**0.56**	0.11	0.37	0.18	0.0073J	
Benzo(b)fluoranthene	1.15	0.4793	---	0.00067J	0.00063J	0.0041	0.00094J	0.0197	0.00055J	0.0089	0.0012J	**0.54**	0.11	0.27	0.15	0.0062J	
Benzo(g,h,i)perylene	---	---	---	<0.00089	<0.00086	0.0029J	<0.00079	0.0121	<0.00084	0.0057	0.0017J	0.35	0.045	0.39	0.067	0.0025J	
Benzo(k)fluoranthene	11.5	---	---	0.00067J	0.00041J	0.0040	0.00084J	0.0178	0.00052J	0.0069	0.00092J	0.50	0.11	0.29	0.20	0.0080J	
Chrysene	115	0.1446	---	0.00074J	0.0016J	0.0056	0.0013J	0.0221	0.00099J	0.0103	0.0031	**0.67**	0.12	**0.21**	**0.20**	0.010J	
Dibenzo(a,h)anthracene	0.115	---	---	<0.0010	<0.00099	0.0012J	<0.00091	0.0041	<0.00097	0.0018J	<0.00082	0.13	0.019	0.10	0.033	<0.0027	
Fluoranthene	2,390	88.8778	---	0.0013J	0.00062J	0.0096	0.0017J	0.0412	0.0012J	0.0259	0.0017J	1.4	0.25	0.34	0.38	0.021	
Fluorene	2,390	14.8299	---	<0.00023	<0.00023	<0.00023	<0.00021	0.0018J	<0.00022	0.0011J	<0.00019	0.025J	<0.0053	0.16	0.011J	<0.0049	
Indeno(1,2,3-cd)pyrene	1.15	---	---	<0.00086	<0.00084	0.0025J	<0.00077	0.0115	<0.00081	0.0048	0.00069J	0.33	0.053	0.35	0.082	0.0029J	
1-methyl naphthalene	17.6	---	---	<0.00026	0.00032J	<0.00026	<0.00023	0.00078J	<0.00025	0.00037J	0.0010J	<0.020	<0.0051	0.88	<0.0050	<0.0048	
2-methyl naphthalene	239	---	---	<0.00029	0.00047J	<0.00028	<0.00026	0.00088J	<0.00027	0.00054J	0.0021J	<0.024	<0.0064	1.0	<0.0062	<0.0059	
Naphthalene	5.52	0.6582	---	<0.00034	0.00068J	0.00041J	<0.00030	0.0016J	<0.00032	0.0011J	0.0012J	<0.041	<0.011	0.14	0.014J	0.15	
Phenanthrene	---	---	---	0.0010J	0.00097J	0.0034	0.0012J	0.027	0.00062J	0.0183	0.0017J	0.45	0.078	0.79	0.14	0.015J	
Pyrene	1,790	54.5455	---	0.0011J	0.00065J	0.0099	0.0017J	0.0371	0.0011J	0.0217	0.0018J	1.0	0.19	0.31	0.31	0.017J	
RCRA Metals (mg/kg)																	
Arsenic	0.677	0.584	8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Barium	15,300	164.8	364	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Cadmium	71.1	0.752	1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Total Chromium	---	360,000	44	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Lead	400	27	52	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mercury	3.13	0.208	---	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Selenium	391	0.52	---	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Silver	391	0.8491	---	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Notes:

Bold values exceed the NR 720 RCL for protection of groundwater

Boxed values exceed the NR 720 RCL for non-industrial direct contact (applicable 0 to 4 feet bgs)

--- - no standard established

J - Results between laboratory limit of detection and limit of quanititation

bgs - below ground surface

mg/kg - milligrams per kilogram

NS - no sample collected

PAHs - polynuclear aromatic hydrocarbons

VOCs - volatile organic compounds

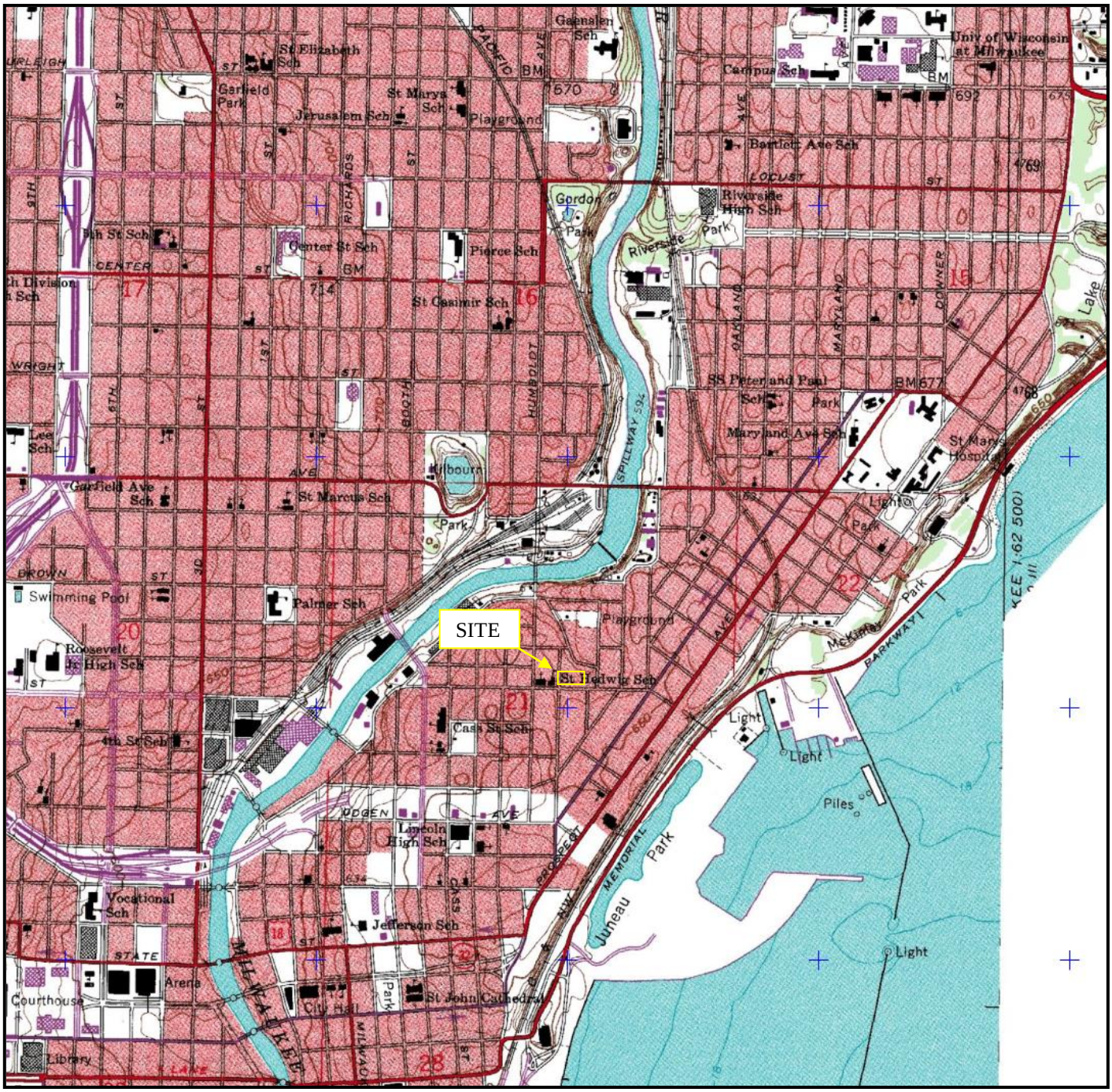
RCL Values were obtained from the WDNR RCL Table dated March 2017

Table 3
Groundwater Sample Analytical Results
Former Boys and Girls Club 1632 Franklin Place Milwaukee, Wisconsin
BRRTS No 03-41-578482

PARAMETERS	Preventive Action Limit	Enforcement Standard	SAMPLE IDENTIFICATION								
			MW-1			MW-2		MW-3		MW-4	
Date Collected	---	---	8/16/2016	9/26/2017	9/26/2017 D	8/16/2016	9/26/2017	8/16/2016	9/26/2017	8/16/2016	9/26/2017
Detected VOCs (ug/l)											
p-Isopropyltoluene	---	---	<0.50	NA	NA	10.2	NA	<0.50	NA	<0.50	NA
PAHs (ug/l)											
Acenaphthene	---	---	0.022J	<0.0057	0.011J	<0.0047	0.011J	<0.0047	<0.0057	<0.0051	0.0068J
Acenaphthylene	---	---	0.031J	<0.0047	<0.0046	<0.0047	0.032	<0.0047	<0.0047	<0.0051	<0.0046
Anthracene	600	3,000	0.15	0.010J	0.05	<0.0038	<0.0098	<0.0038	<0.0098	0.022J	<0.0097
Benzo(a)anthracene	---	---	0.29	0.029J	0.14	<0.0048	0.025J	<0.0049	<0.0071	<0.0053	<0.0070
Benzo(a)pyrene	0.02	0.2	**0.37**	*0.030J*	*0.17*	<0.0042	*0.036J*	<0.0042	<0.0098	0.0064J	<0.0098
Benzo(b)fluoranthene	0.02	0.2	**0.49**	*0.050*	**0.24**	<0.0050	*0.048*	<0.0051	<0.0054	0.016J	<0.0053
Benzo(g,h,i)perylene	---	---	0.26	0.030J	0.15	<0.0033	0.039	<0.0033	<0.0063	0.0081J	<0.0063
Benzo(k)fluoranthene	---	---	0.25	0.031J	0.14	<0.0053	0.028J	<0.0054	<0.0071	0.0091J	<0.0070
Chrysene	0.02	0.2	**0.46**	*0.062*	**0.27**	<0.0040	*0.036J*	<0.0040	<0.012	*0.030J*	<0.012
Dibenzo(a,h)anthracene	---	---	0.045J	<0.0094	0.023J	<0.0052	<0.0094	<0.0053	<0.0094	<0.0057	<0.0093
Fluoranthrene	80	400	0.92	0.11	0.59	<0.0089	0.056	<0.0090	<0.010	0.022J	0.011J
Fluorene	80	400	0.026J	<0.0074	0.010J	<0.0038	0.0093J	<0.0038	<0.0074	<0.0042	<0.0074
Indeno(1,2,3-cd)pyrene	---	---	0.22	0.024J	0.11	<0.0034	0.032J	<0.0034	<0.016	0.0044J	<0.016
1-Methyl Naphthalene	---	---	0.0054J	<0.0055	<0.0055	0.0098J	0.010J	<0.0029	0.010J	0.0037J	0.0081J
2-Methyl Naphthalene	---	---	0.0080J	<0.0046	<0.0045	0.012J	0.016J	<0.0026	0.012J	0.0064J	0.0066J
Naphthalene	10	100	0.0093J	<0.017	<0.017	0.0095J	0.040J	<0.0043	<0.017	0.0078J	<0.017
Phenanthrene	---	---	0.36	0.042J	0.20	0.018J	0.043J	<0.0073	0.013J	0.014J	0.015J
Pyrene	50	250	0.77	0.087	0.41	<0.0073	0.044	<0.0073	0.0083J	0.021J	0.011J

Notes:
Bold concentrations exceed NR 140 enforcement standards
Italicized concentrations exceed NR 140 preventive action limits
--- - no standard established
D- Duplicate
J - Results between the limit of detection and limit of quantitation
NA - Not Analyzed
PAHs - polynuclear aromatic hydrocarbons
ug/l - micrograms per liter
VOCs - volatile organic compounds

Figures



SOURCE: United States Geological Survey, Milwaukee Wisconsin Quadrangle. 7.5 Minutes Series. 1971

USGS Location: Milwaukee	Map Year: 1971	FIGURE 1 SITE LOCATION MAP FORMER BOYS & GIRLS CLUB 1632 NORTH FRANKLIN STREET MILWAUKEE, WISCONSIN	KEY ENGINEERING GROUP LTD.
Project: 1606-0975-0001	Date: 9/21/2016		
N W E S	Scale: 1:24000		
	Series: 7.5 Minute		

DESIGNED BY: TLS	DATE: 9/27/16
DRAWN BY: RJN	PROJECT: 1606-0975
APPROVED BY: TLS	SHEET NO.
CADFILE G:\Projects\1606-0975 Boys and Girls Club\Base.dwg	
XREF	
LMAN	

FIGURE 2
SITE LAYOUT MAP
BOYS & GIRLS CLUB
1632 N FRANKLIN PLACE
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

Oct 13, 2016 - 8:29am G:\Projects\1606-0975 Boys and Girls Club\Base.dwg

LEGEND

● Sample Location

N FRANKLIN PL

N ARLINGTON PL

CHAIN LINK FENCE

PROPERTY LINE

PROPERTY LINE

B–1 B–2 B–3 B–4 B–5 B–6 B–7 B–8 B–9 B–10 B–11 B–12 B–13 B–14

EXISTING BUILDING

EXISTING BUILDING

SCALE IN FEET

30' 0 30'

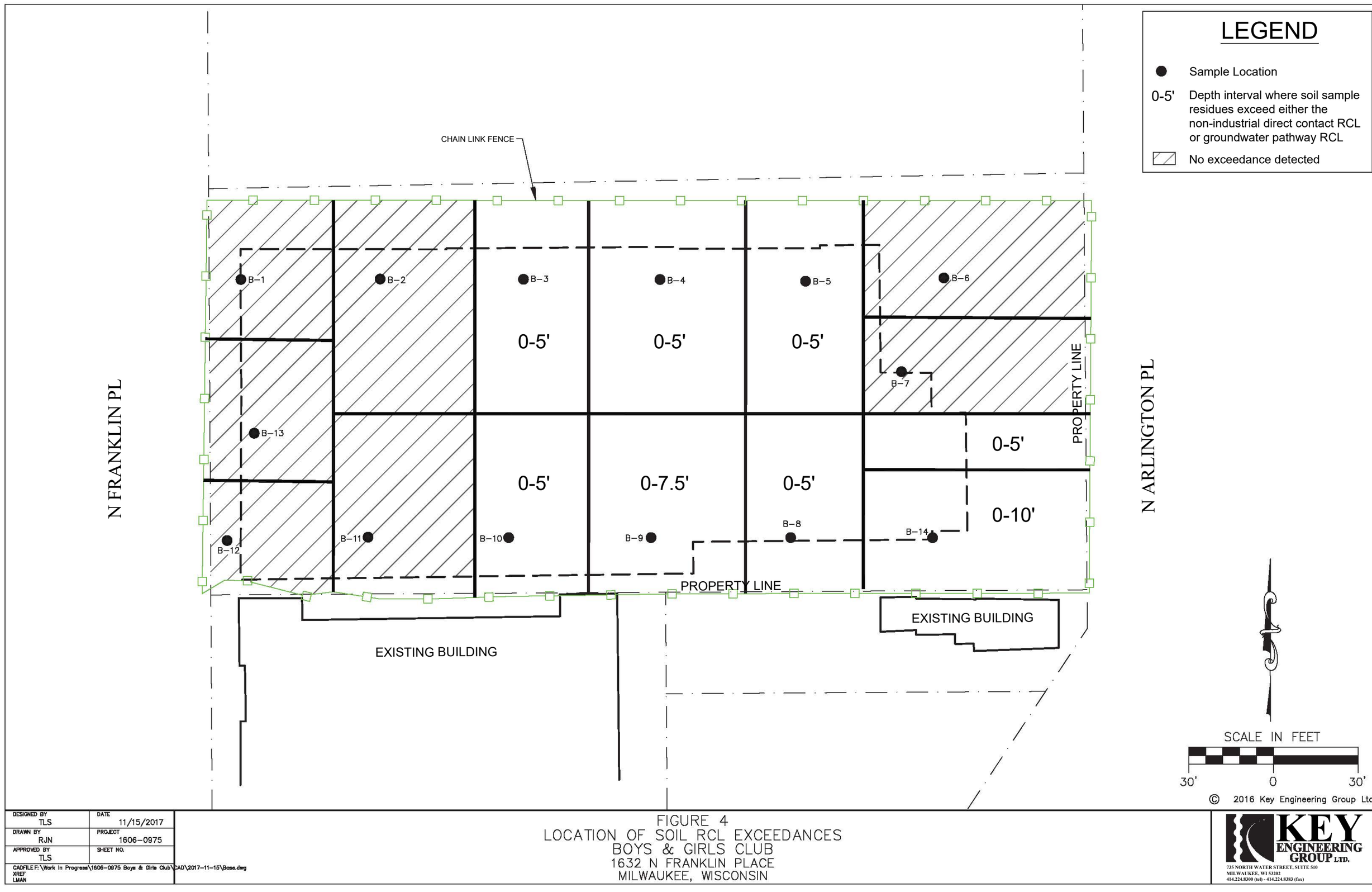
DESIGNED BY TLS	DATE 11/15/2017
DRAWN BY RJN	PROJECT 1606–0975
APPROVED BY TLS	SHEET NO.

CADFILE G:\Projects\1606–0975 Boys and Girls Club\2017–11–15\Base.dwg
XREF
LMAN

FIGURE 3
POST–GRADING SOIL SAMPLE LOCATION MAP
BOYS & GIRLS CLUB
1632 N FRANKLIN PLACE
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

Nov 15, 2017 – 10:12am G:\Projects\1606–0975 Boys and Girls Club\2017–11–15\Base.dwg

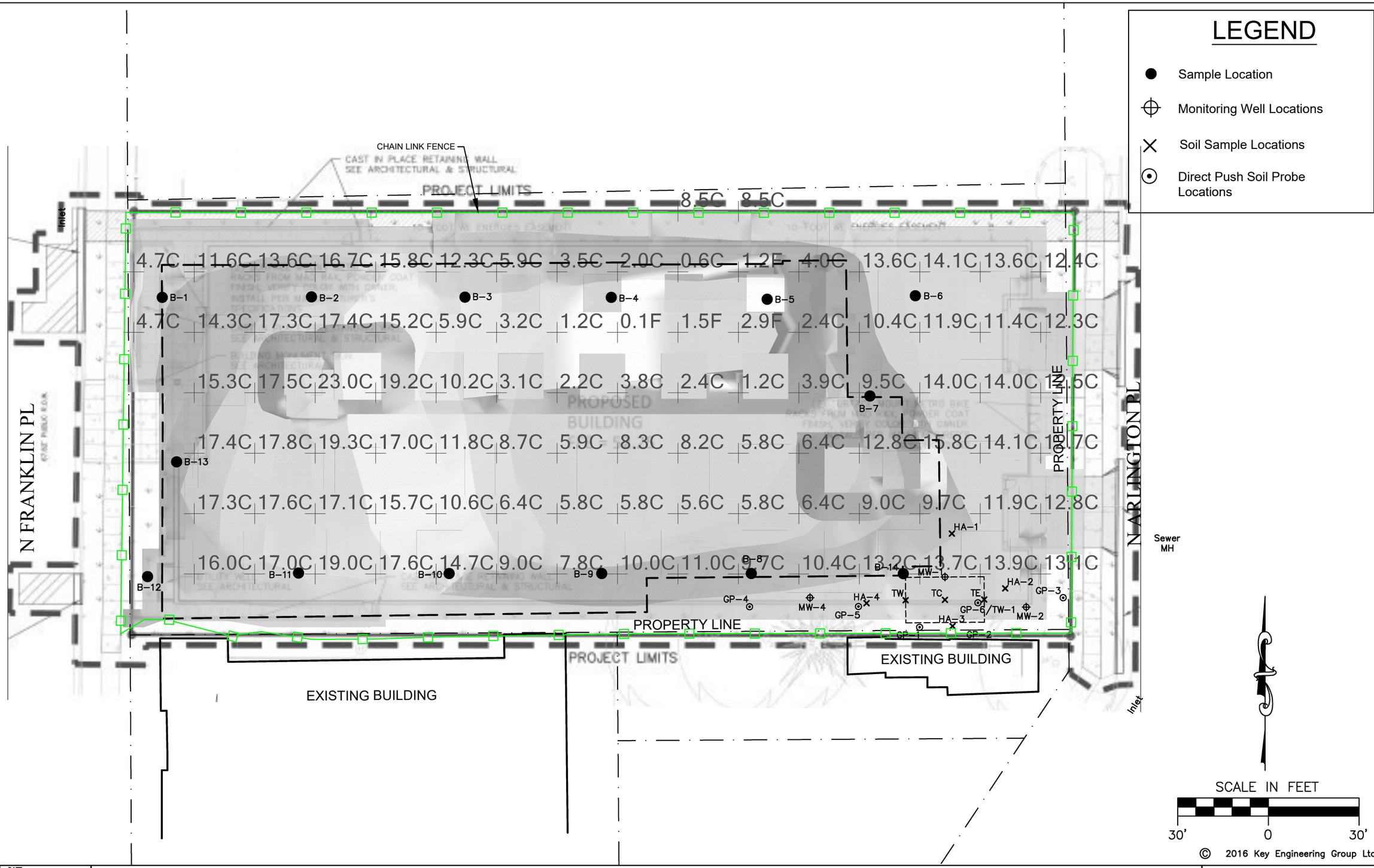


DESIGNED BY TLS	DATE 11/15/2017
DRAWN BY RJN	PROJECT 1606-0975
APPROVED BY TLS	SHEET NO.
CADFILE F:\Work In Progress\1606-0975 Boys & Girls Club\CAD\2017-11-15\Base.dwg	
XREF LMAN	

FIGURE 4
LOCATION OF SOIL RCL EXCEEDANCES
BOYS & GIRLS CLUB
1632 N FRANKLIN PLACE
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

Nov 30, 2017 - 2:19pm F:\Work in Progress\1606-0975 Boys & Girls Club\CAD\2017-11-15\Base.dwg



DESIGNED BY TLS	DATE 11/15/2017
DRAWN BY RJN	PROJECT 1606-0975
APPROVED BY TLS	SHEET NO.
CADFILE G:\Projects\1606-0975 Boys and Girls Club\2017-11-15\Base.dwg	
XREF LMAN	

FIGURE 5
CUT AND FILL PLAN
BOYS & GIRLS CLUB
1632 N FRANKLIN PLACE
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

Nov 15, 2017 - 10:14am G:\Projects\1606-0975 Boys and Girls Club\2017-11-15\Base.dwg

Attachment A

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
03-41-578482

# of Soil-Concentration Entries: 18

(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
1.6E-05	0	0.0744	1.6E-05

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 11/30/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.135			0.0008	2.4E-08
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		1.24	1.08E-05	cPAH	0.0697	1.1E-05
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.089			0.	
Acenaphthylene	208-96-8	-	-				0.0867				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.36			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		1.27	1.11E-06	cPAH		1.1E-06
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		1.09	9.48E-07	cPAH		9.5E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.774				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		1.24	1.08E-07	cPAH		1.1E-07
Chrysene	218-01-9	-	115.	115.	ca		1.53	1.33E-08	cPAH		1.3E-08
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.24	2.09E-06	cPAH		2.1E-06
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		3.2			0.0013	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.196			0.0001	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.72	6.26E-07	cPAH		6.3E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.179			0.	1.0E-08
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.232			0.001	
Phenanthrene	85-01-8	-	-				1.56				
Pyrene	129-00-0	1,790.	-	1,790.	nc		2.6			0.0015	

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
03-41-578482

# of Soil-Concentration Entries: 18

(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
1.5E-05	0	0.0712	1.5E-05

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 11/30/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.105			0.0006	1.9E-08
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		1.21	1.05E-05	cPAH	0.068	1.1E-05
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.0484			0.	
Acenaphthylene	208-96-8	-	-				0.145				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.324			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		1.32	1.16E-06	cPAH		1.2E-06
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		1.52	1.32E-06	cPAH		1.3E-06
Benzo[g,h,i]perylene	191-24-2	-	-				0.577				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.689	5.99E-08	cPAH		6.0E-08
Chrysene	218-01-9	-	115.	115.	ca		1.25	1.09E-08	cPAH		1.1E-08
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.177	1.54E-06	cPAH		1.5E-06
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		2.54			0.0011	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.0516			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.586	5.10E-07	cPAH		5.1E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.0502			0.	2.9E-09
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.0624			0.0003	
Phenanthrene	85-01-8	-	-				0.759				
Pyrene	129-00-0	1,790.	-	1,790.	nc		2.3			0.0013	

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
03-41-578482

# of Soil-Concentration Entries: 18

(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
4.2E-06	0	0.0191	4.2E-06

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 11/30/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.0189			0.0001	3.4E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.326	2.83E-06	cPAH	0.0183	2.8E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.0101			0.	
Acenaphthylene	208-96-8	-	-				0.0091				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.0728			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.346	3.04E-07	cPAH		3.0E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.282	2.45E-07	cPAH		2.5E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.206				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.28	2.43E-08	cPAH		2.4E-08
Chrysene	218-01-9	-	115.	115.	ca		0.35	3.04E-09	cPAH		3.0E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.0664	5.77E-07	cPAH		5.8E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.669			0.0003	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.0112			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.194	1.69E-07	cPAH		1.7E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.0086			0.	4.9E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.0085			0.	
Phenanthrene	85-01-8	-	-				0.281				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.619			0.0003	

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
03-41-578482

# of Soil-Concentration Entries: 18

(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
6.5E-06	0	0.0293	6.5E-06

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 11/30/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.0153			0.0001	2.8E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.497	4.32E-06	cPAH	0.0279	4.3E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.0166			0.	
Acenaphthylene	208-96-8	-	-				0.0077				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.113			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.618	5.42E-07	cPAH		5.4E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.495	4.30E-07	cPAH		4.3E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.324				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.488	4.24E-08	cPAH		4.2E-08
Chrysene	218-01-9	-	115.	115.	ca		0.638	5.55E-09	cPAH		5.5E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.105	9.13E-07	cPAH		9.1E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		1.33			0.0006	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.0202			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.302	2.63E-07	cPAH		2.6E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.0133			0.	7.6E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.0101			0.	
Phenanthrene	85-01-8	-	-				0.374				
Pyrene	129-00-0	1,790.	-	1,790.	nc		1.12			0.0006	

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
03-41-578482

# of Soil-Concentration Entries: 18

Bottom-Line:

(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
2.1E-06	0	0.0089	2.1E-06

Yes, levels are below direct-contact concern.

Date of Entry: 11/30/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.0097			0.0001	1.8E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.152	1.32E-06	cPAH	0.0085	1.3E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.0149			0.	
Acenaphthylene	208-96-8	-	-				0.0034				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.0625			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.172	1.51E-07	cPAH		1.5E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.156	1.36E-07	cPAH		1.4E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.117				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.143	1.24E-08	cPAH		1.2E-08
Chrysene	218-01-9	-	115.	115.	ca		0.172	1.50E-09	cPAH		1.5E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.0395	3.43E-07	cPAH		3.4E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.349			0.0001	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.0142			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.106	9.22E-08	cPAH		9.2E-08
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.0054			0.	3.1E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.0041			0.	
Phenanthrene	85-01-8	-	-				0.168				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.317			0.0002	

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
03-41-578482

# of Soil-Concentration Entries: 18

(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
4.6E-06	0	0.021	4.6E-06

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 11/30/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.0149			0.0001	2.7E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.358	3.11E-06	cPAH	0.0201	3.1E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.0129			0.	
Acenaphthylene	208-96-8	-	-				0.0065				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.069			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.356	3.12E-07	cPAH		3.1E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.314	2.73E-07	cPAH		2.7E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.258				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.315	2.74E-08	cPAH		2.7E-08
Chrysene	218-01-9	-	115.	115.	ca		0.395	3.43E-09	cPAH		3.4E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.0819	7.12E-07	cPAH		7.1E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.801			0.0003	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.0139			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.232	2.02E-07	cPAH		2.0E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.0099			0.	5.6E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.0066			0.	
Phenanthrene	85-01-8	-	-				0.292				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.692			0.0004	

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
03-41-578482

# of Soil-Concentration Entries: 18

(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
1.6E-06	0	0.0071	1.6E-06

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 11/30/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.01			0.0001	1.8E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.12	1.04E-06	cPAH	0.0067	1.0E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.0075			0.	
Acenaphthylene	208-96-8	-	-				0.004				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.031			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.11	9.65E-08	cPAH		9.6E-08
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.13	1.13E-07	cPAH		1.1E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.082				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.098	8.52E-09	cPAH		8.5E-09
Chrysene	218-01-9	-	115.	115.	ca		0.13	1.13E-09	cPAH		1.1E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.026	2.26E-07	cPAH		2.3E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.31			0.0001	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.0084			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.075	6.52E-08	cPAH		6.5E-08
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.0049			0.	2.8E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.0061			0.	
Phenanthrene	85-01-8	-	-				0.15				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.24			0.0001	

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
03-41-578482

# of Soil-Concentration Entries: 18

(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
3.6E-05	0	0.1614	3.6E-05

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 11/30/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.21			0.0012	3.8E-08
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		2.7	2.35E-05	cPAH	0.1517	2.3E-05
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.31			0.0001	
Acenaphthylene	208-96-8	-	-				0.082				
Anthracene	120-12-7	17,900.	-	17,900.	nc		1.1			0.0001	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		3.	2.63E-06	cPAH		2.6E-06
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		2.9	2.52E-06	cPAH		2.5E-06
Benzo[g,h,i]perylene	191-24-2	-	-				1.9				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		2.5	2.17E-07	cPAH		2.2E-07
Chrysene	218-01-9	-	115.	115.	ca		3.6	3.13E-08	cPAH		3.1E-08
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.64	5.57E-06	cPAH		5.6E-06
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		9.3			0.0039	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.3			0.0001	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		1.7	1.48E-06	cPAH		1.5E-06
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.1			0.	5.7E-09
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.12			0.0005	
Phenanthrene	85-01-8	-	-				5.2				
Pyrene	129-00-0	1,790.	-	1,790.	nc		6.9			0.0039	

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
03-41-578482

# of Soil-Concentration Entries: 18

(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
5.0E-06	0	0.0224	5.0E-06

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 11/30/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.019			0.0001	3.4E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.38	3.30E-06	cPAH	0.0213	3.3E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.016			0.	
Acenaphthylene	208-96-8	-	-				0.02				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.083			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.35	3.07E-07	cPAH		3.1E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.36	3.13E-07	cPAH		3.1E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.29				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.34	2.96E-08	cPAH		3.0E-08
Chrysene	218-01-9	-	115.	115.	ca		0.46	4.00E-09	cPAH		4.0E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.098	8.52E-07	cPAH		8.5E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.93			0.0004	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.019			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.25	2.17E-07	cPAH		2.2E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.0092			0.	5.2E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.011			0.	
Phenanthrene	85-01-8	-	-				0.47				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.88			0.0005	

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
03-41-578482

# of Soil-Concentration Entries: 19

(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
1.3E-05	0	0.3288	1.3E-05

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 11/30/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.079			0.0004	1.4E-08
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.99	8.61E-06	cPAH	0.0556	8.6E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.092			0.	
Acenaphthylene	208-96-8	-	-				0.031				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.34			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		1.	8.77E-07	cPAH		8.8E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		1.	8.70E-07	cPAH		8.7E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.7				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.84	7.30E-08	cPAH		7.3E-08
Chrysene	218-01-9	-	115.	115.	ca		1.2	1.04E-08	cPAH		1.0E-08
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.23	2.00E-06	cPAH		2.0E-06
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		2.9			0.0012	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.096			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.62	5.39E-07	cPAH		5.4E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.038			0.	2.2E-09
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.047			0.0002	
Phenanthrene	85-01-8	-	-				1.5				
Pyrene	129-00-0	1,790.	-	1,790.	nc		2.2			0.0012	
Lead and Compounds	7439-92-1	400.	-	400.		52.	108.			0.27	

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
03-41-578482

# of Soil-Concentration Entries: 18

(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
6.8E-06	0	0.0311	6.8E-06

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 11/30/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.05			0.0003	9.1E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.52	4.52E-06	cPAH	0.0292	4.5E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.099			0.	
Acenaphthylene	208-96-8	-	-				0.019				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.3			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.54	4.74E-07	cPAH		4.7E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.47	4.09E-07	cPAH		4.1E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.36				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.54	4.70E-08	cPAH		4.7E-08
Chrysene	218-01-9	-	115.	115.	ca		0.62	5.39E-09	cPAH		5.4E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.12	1.04E-06	cPAH		1.0E-06
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		1.8			0.0008	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.11			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.33	2.87E-07	cPAH		2.9E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.024			0.	1.4E-09
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.029			0.0001	
Phenanthrene	85-01-8	-	-				1.3				
Pyrene	129-00-0	1,790.	-	1,790.	nc		1.2			0.0007	

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
03-41-578482

# of Soil-Concentration Entries: 18

(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
1.3E-06	0	0.006	1.3E-06

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 11/30/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.0223			0.0001	4.0E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.0971	8.44E-07	cPAH	0.0055	8.4E-07
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.0229			0.	
Acenaphthylene	208-96-8	-	-				9.40E-04				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.0745			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.138	1.21E-07	cPAH		1.2E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.101	8.78E-08	cPAH		8.8E-08
Benzo[g,h,i]perylene	191-24-2	-	-				0.0651				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.107	9.30E-09	cPAH		9.3E-09
Chrysene	218-01-9	-	115.	115.	ca		0.135	1.17E-09	cPAH		1.2E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.0211	1.83E-07	cPAH		1.8E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.328			0.0001	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.0265			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.0608	5.29E-08	cPAH		5.3E-08
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.0093			0.	5.3E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.0117			0.	
Phenanthrene	85-01-8	-	-				0.295				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.297			0.0002	

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
03-41-578482

# of Soil-Concentration Entries: 18

(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
2.6E-06	0	0.0118	2.6E-06

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 11/30/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.016			0.0001	2.9E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.199	1.73E-06	cPAH	0.0112	1.7E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.0291			0.	
Acenaphthylene	208-96-8	-	-				0.0018				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.106			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.242	2.12E-07	cPAH		2.1E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.193	1.68E-07	cPAH		1.7E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.131				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.185	1.61E-08	cPAH		1.6E-08
Chrysene	218-01-9	-	115.	115.	ca		0.229	1.99E-09	cPAH		2.0E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.0451	3.92E-07	cPAH		3.9E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.602			0.0003	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.0401			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.12	1.04E-07	cPAH		1.0E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.0084			0.	4.8E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.0057			0.	
Phenanthrene	85-01-8	-	-				0.411				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.479			0.0003	

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
03-41-578482

# of Soil-Concentration Entries: 18

(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
7.3E-06	0	0.033	7.3E-06

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 11/30/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.041			0.0002	7.4E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.56	4.87E-06	cPAH	0.0315	4.9E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.021			0.	
Acenaphthylene	208-96-8	-	-				0.016				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.12			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.58	5.09E-07	cPAH		5.1E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.54	4.70E-07	cPAH		4.7E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.35				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.5	4.35E-08	cPAH		4.3E-08
Chrysene	218-01-9	-	115.	115.	ca		0.67	5.83E-09	cPAH		5.8E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.13	1.13E-06	cPAH		1.1E-06
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		1.4			0.0006	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.025			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.33	2.87E-07	cPAH		2.9E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.02			0.	1.1E-09
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.024			0.0001	
Phenanthrene	85-01-8	-	-				0.45				
Pyrene	129-00-0	1,790.	-	1,790.	nc		1.			0.0006	

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
03-41-578482

# of Soil-Concentration Entries: 18

(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
1.4E-06	0	0.0065	1.4E-06

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 11/30/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.011			0.0001	2.0E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.11	9.57E-07	cPAH	0.0062	9.6E-07
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.0049			0.	
Acenaphthylene	208-96-8	-	-				0.0042				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.021			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.1	8.77E-08	cPAH		8.8E-08
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.11	9.57E-08	cPAH		9.6E-08
Benzo[g,h,i]perylene	191-24-2	-	-				0.045				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.11	9.57E-09	cPAH		9.6E-09
Chrysene	218-01-9	-	115.	115.	ca		0.12	1.04E-09	cPAH		1.0E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.019	1.65E-07	cPAH		1.7E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.25			0.0001	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.0053			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.053	4.61E-08	cPAH		4.6E-08
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.0051			0.	2.9E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.0064			0.	
Phenanthrene	85-01-8	-	-				0.078				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.19			0.0001	

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
03-41-578482

# of Soil-Concentration Entries: 18

(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
4.8E-06	0	0.0264	4.9E-06

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 11/30/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.14			0.0008	2.5E-08
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.37	3.22E-06	cPAH	0.0208	3.2E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.12			0.	
Acenaphthylene	208-96-8	-	-				0.11				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.14			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.19	1.67E-07	cPAH		1.7E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.27	2.35E-07	cPAH		2.3E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.39				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.29	2.52E-08	cPAH		2.5E-08
Chrysene	218-01-9	-	115.	115.	ca		0.21	1.83E-09	cPAH		1.8E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.1	8.70E-07	cPAH		8.7E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.34			0.0001	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.16			0.0001	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.35	3.04E-07	cPAH		3.0E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.88			0.0002	5.0E-08
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		1.			0.0042	
Phenanthrene	85-01-8	-	-				0.79				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.31			0.0002	

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
03-41-578482

# of Soil-Concentration Entries: 18

Bottom-Line:

(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
2.2E-06	0	0.0106	2.2E-06

Yes, levels are below direct-contact concern.

Date of Entry: 11/30/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.014			0.0001	2.5E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.18	1.57E-06	cPAH	0.0101	1.6E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.017			0.	
Acenaphthylene	208-96-8	-	-				0.0046				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.031			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.17	1.49E-07	cPAH		1.5E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.15	1.30E-07	cPAH		1.3E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.067				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.2	1.74E-08	cPAH		1.7E-08
Chrysene	218-01-9	-	115.	115.	ca		0.2	1.74E-09	cPAH		1.7E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.033	2.87E-07	cPAH		2.9E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.38			0.0002	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.011			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.082	7.13E-08	cPAH		7.1E-08
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.005			0.	2.8E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.0062			0.	
Phenanthrene	85-01-8	-	-				0.14				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.31			0.0002	

Attachment B

We Energies
333 West Everett St., A231
Milwaukee, WI 53203

www.we-energies.com

November 29, 2017

Mr. Paul Grittner
Contaminated Material Management Specialist
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
PO Box 7921
Madison, WI 53707-7921

RE: Shipment of Soil from Boys and Girls Club (Fmr), 1632 N Franklin Pl, Milwaukee, WDNR BRRTS Activity #: 02-41-578482; 03-41-578483 to Solvay Coke and Gas Property, 311 East Greenfield Avenue, Milwaukee WDNR BRRTS Activity # 02-41-466662

I, Robert Paulson, hereby give permission to KC Franklin Partners LLC and its employees, duly authorized representatives, agents and contractors, to enter upon and have access at reasonable times to the property located at 311 East Greenfield Avenue in Milwaukee, Wisconsin for the placement of approximately 16,000 cubic yards of soil. Based on the analytical results, the only soil I have agreed to accept from 1632 N Franklin Pl, Milwaukee, Wisconsin is clean soil (containing no detectable PAHs, PCBs, VOCs or metals consistent with background levels) and soil with low level PAH impacts (PAH concentrations less than the WDNR soil to groundwater RCLs and the non-industrial direct contact RCLs).

The soil will be temporarily staged and ultimately incorporated into a final engineered barrier (i.e., soil cap) of the entire Solvay site as part of remedial activities beginning in 2018. The exact location of where this soil will be placed will be documented as part of remedial activities and provided in the final Solvay site closure submittal. The soil will not be placed within a floodplain or within 3 feet of the groundwater, which is present at depths of approximately 6 to 11 feet below ground surface. Both the placement of the soil and continuing obligations for the soil cap will be consistent with WDNR requirements.

The following are understood and accepted:

(1) I understand that I may not allow the placement of contaminated soil on my site or facility until the Department issues a written exemption under Wis. Admin. Code § NR 718.12(1) and (2).

(2) I acknowledge that I am accepting contaminated material and that I have responsibility as the person who possesses or controls a hazardous substance discharge or environmental pollution as defined in Wisconsin State Statute Chapter 292.

(3) I certify to the Department that my property meets the definition of a "site" or "facility" in Wis. Stats. 292.

(4) I understand that without prior written approval from the Department the material may not be placed: (1) within a floodplain; (2) within 100 feet of a wetland or critical habitat area; (3) within

300 feet of any navigable river, stream, lake, pond, or flowage; (4) within 100 feet of any on-site water supply well or 300 feet of any off-site water supply well; (5) within 3 feet of the high groundwater level; and (6) at a depth greater than the depth of the original excavation from with the contaminated soil was removed.

(5) I will maintain all Wis. Stats. § 292.12 and Wis. Admin. Code § NR 727 continuing obligations required to be placed on the property to maintain protectiveness, including conducting annual inspections, recordkeeping and maintenance requirements.

(6) I understand that the presence of the contaminated soil may be disclosable under Wisconsin's real estate disclosure law, Wis. Stats. § 709.

(7) I acknowledge that the Department of Natural Resources has the right to inspect my property to determine the adequacy of any continuing obligation placed on the material to ensure protection of public health, safety, welfare and the environment.

(8) I understand that if I elect to excavate the contaminated soil in the future, that I will need to obtain written, prior approval from the Department to relocate that material to any other location other than an operating, licensed solid waste facility;

(9) I acknowledge that if I plan to build on the area where the contaminated soil will be disposed of, I will need to notify the Department prior to conducting any development activities and may need to receive additional written approvals and pay Department fees for those activities; and

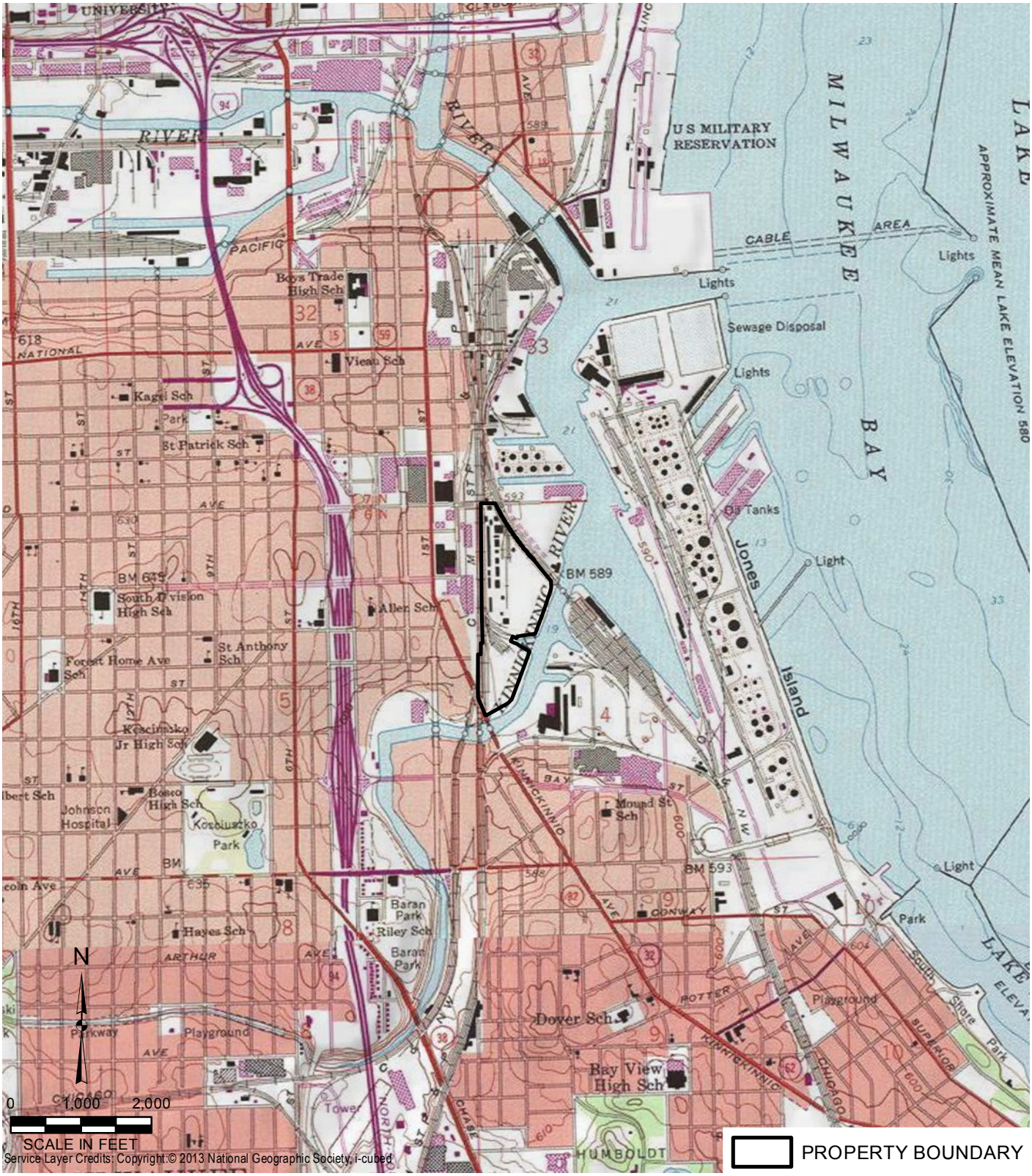
I understand that my site or facility – including the site or facility name, location and the relevant site documents - will be entered into and tracked on the Department's publicly available Bureau for Remediation and Redevelopment Tracking System (BRRTS) database.

Should you have any questions, please don't hesitate to contact me at (414) 221-3948 or robert.paulson@we-energies.com.

Sincerely,

Robert Paulson

Robert Paulson
Principal Environmental Consultant



DRAWN BY/DATE:
TDC 4/17/17
REVIEWED BY/DATE:
JFK 4/17/17
APPROVED BY/DATE:
___ _/_/17

DRAFT

SITE LOCATION

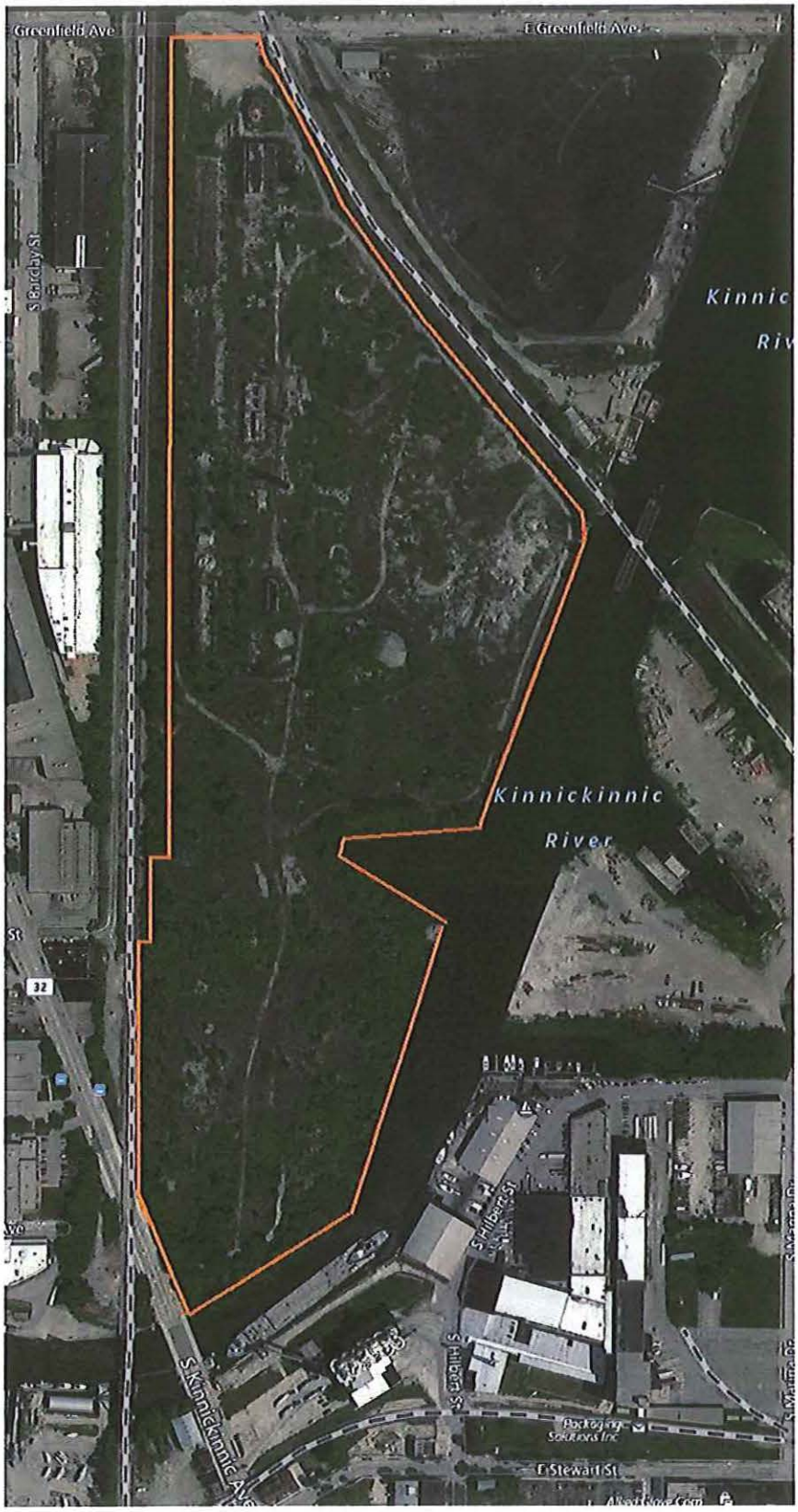
FORMER MILWAUKEE SOLVAY COKE AND GAS SITE
311 EAST GREENFIELD AVENUE
MILWAUKEE, WISCONSIN

PROJECT NO: 2133

FIGURE NO: 1

Natural Resource Technology
AN OBG COMPANY

APPENDIX A - - "UPLANDS" AREA DESIGNATED BY ORANGE LINE



WARRANTY DEED

THIS INDENTURE, made this 1st day of June A.D., 1962, between MILWAUKEE SOLVAY COKE COMPANY, a Corporation duly organized and existing under and by virtue of the laws of the State of Wisconsin, located at Milwaukee, Wisconsin, party of the first part, and WISCONSIN COKE COMPANY, INC., a Corporation duly organized and existing under and by virtue of the laws of the State of Wisconsin, located at Milwaukee, Wisconsin, party of the second part.

WITNESSETH, that the said party of the first part, for and in consideration of the sum of One dollar ($1.00) and other good and valuable consideration to it paid by the said party of the second part, the receipt whereof is hereby confessed and acknowledged, has given, granted, bargained, sold, remised, released, aliened, conveyed and confirmed, and by these presents does give, grant, bargain, sell, remise, release, alien, convey and confirm unto the said party of the second part, its successors and assigns forever, the following described real estate situated in the County of Milwaukee and State of Wisconsin, to-wit:

That part of the Southwest 1/4 of Section 33, Township 7 North, Range 22 East and the Southeast 1/4 of Section 32, Township 7 North, Range 22 East, in the City of Milwaukee, Milwaukee County, Wisconsin, which is bounded and described as follows: Commencing at the South section corner between Sections 32 and 33 aforesaid; running thence North 00° 16' 36" East along the Section line between Sections 32 and 33 aforesaid 388.00 ft. to a point, said point lying in the center line extended East of East Madison Street; thence South 89° 56' 29" West along the center line extended East of East Madison Street 49.70 ft. to a point, thence North 03° 31' 36" East and parallel to the East line of the Chicago, Milwaukee, St. Paul and Pacific Railroad Company right of way 310.00 ft., more or less, to a point in the Westerly line of the Chicago and Northwestern Railroad Company right of way, said point being 125.2 ft. Westerly, as measured radially from the Easterly line of the Chicago and Northwestern Railroad Company right of way; thence Southerly along the Westerly line of the Chicago and Northwestern Railroad Company right of way 503.64 ft. on the arc of a curve whose center lies to the East, whose radius is 2694.29 ft. and whose chord bears South 11° 52' 26" East 502.90 ft. to a point, said point being 155.15 ft. North of the

North line of East Greenfield Avenue; thence North 89° 56' 29" East and parallel to the North line of East Greenfield Avenue 26.39 ft. to a point on the Westerly line of the Chicago and Northwestern Railroad Company right of way, said point being 100.00 ft. Westerly as measured radially, from the Easterly line of the Chicago and Northwestern Railroad Company right of way; thence Southerly along the Westerly line of the Chicago and Northwestern Railroad Company right of way 217.91 ft. on the arc of a curve whose center lies to the East, whose radius is 2669.09 ft. and whose chord bears South 19° 44' 06" East 217.85 ft. to a point in the South line of said Section 33; thence South 89° 56' 29" West along the South line of Section 33 aforesaid 174.67 ft. to the point of commencement; excepting therefrom the South 50.00 ft. as taken for East Greenfield Avenue.

That part of Lots 1, 2, 3, 4, 5 and 7 in the Partition of that part of the Northwest 1/4 of Section 4, Township 6 North, Range 22 East in the City of Milwaukee, Milwaukee County, Wisconsin, lying West of the 1/4 Section Line, which is bounded and described as follows: Commencing at a point in the North line of said 1/4 Section 116.01 ft. North 89° 56' 29" East of the Northwest corner of said 1/4 Section; running thence North 89° 56' 29" East along the North line of said 1/4 Section 1460.07 ft. to a point in the Westerly dock line of the Kinnickinnic River; thence South 21° 32' 49" West along the Westerly dock line of the Kinnickinnic River 842.70 ft. to a point; thence South 89° 25' 22" West 359.42 ft. to a point in the Northeasterly line of the Chicago and Northwestern Railroad Company right of way, said point being 770.75 ft. South of the South line of East Greenfield Avenue; thence South 39° 06' 20" East along the Northeasterly line of the Chicago and Northwestern Railroad Company right of way 381.98 ft. to a point in the Westerly dock line of the Kinnickinnic River; thence South 21° 32' 49" West along the Westerly dock line of the Kinnickinnic River 57.25 ft. to a point; thence South 16° 01' 51" West along the Westerly dock line of the Kinnickinnic River 54.28 ft. to a point; thence South 20° 59' 55" West along the Westerly dock line of the Kinnickinnic River 736.17 ft. to a point; thence North 74° 49' 58" West 464.11 ft. to a point in the North line of Lot 7 aforesaid, said point being 424.30 ft. East of the Northwest corner of said Lot 7; thence North 56° 39' 10" West 365.79 ft. to a point in the East line of the Chicago, Milwaukee, St. Paul and Pacific Railroad Company right of way, said point being 200.00 ft. North of the North line of said Lot 7 and 116.00 ft. East of the West line of said 1/4 Section; thence North 00° 46' 58" East along the East line of the Chicago, Milwaukee, St. Paul, and Pacific Railroad Company right of way on a line which is 116.00 ft. East of and parallel to the West line of said 1/4 Section 1552.68 ft. to the point of commencement; excepting therefrom the right of way of the Chicago and Northwestern Railroad Company 100.00 ft. in width running Northwesterly through said lands; and excepting therefrom the North 16.00 ft. as taken for East Greenfield Avenue.

TOGETHER with all and singular the hereditaments and appurtenances thereunto belonging or in any wise appertaining; and all the estate, right, title, interest, claim or demand whatsoever, of the said party of the first part, either in law or equity, either in possession or expectancy of, in and to the above bargained premises, and their hereditaments and appurtenances.

TO HAVE AND TO HOLD the said premises as above described with the hereditaments and appurtenances, unto the said party of the second part, and to its successors and assigns FOREVER.

AND THE SAID Milwaukee Solvay Coke Company, party of the first part, for itself and its successors, does covenant, grant, bargain and agree to and with the said party of the second part, its successors and assigns, that at the time of the ensealing and delivery of these presents it is well seized of the premises above described, as of a good, sure, perfect, absolute and indefeasible estate of inheritance in the law, in fee simple, and that the same are free and clear from all incumbrances whatever, excepting:

(i) taxes and assessments, general or special, levied or to be levied from and after January 1, 1961;

(ii) municipal and zoning ordinances and other laws, rules and regulations promulgated by duly constituted authority regulating or restricting the use or enjoyment of said premises and appurtenances thereto;

(iii) right of the public and any public authority in and to that portion of said premises lying within the limits of public highways and navigable streams abutting on or adjacent to said premises;

(iv) rights and easements, if any, in and to any and all railroad switches, sidetracks, spur tracks and rights of way located upon or appurtenant to said premises; and

(v) rights, easements and grants to third parties to use or enjoy portions of said premises as rights of way or for the location or maintenance of facilities or of appurtenances to other premises, or for other purposes therein granted, existing as of the date hereof, and arising pursuant to instruments of record, or referred to of record, or under instruments assigned by the Grantor to the Grantee named herein;

and that, except as aforesaid, the above bargained premises in the quiet and peaceable possession of the said party of the second part, its successors and assigns, against all and every person or persons lawfully claiming the whole or any part thereof, it will forever WARRANT AND DEFEND.

DEED 4245 PAGE 266

IN WITNESS WHEREOF, the said Milwaukee Solvay Coke Company, party of the first part, has caused these presents to be signed by ALBERT P. MUELLER, its Executive Vice President, and countersigned by P.J. HAEFFNER, its Secretary, at Milwaukee, Wisconsin, and its corporate seal to be hereunto affixed, this 1st day of June, A.D., 1962.

SIGNED AND SEALED IN PRESENCE OF

Maurice J Miller
MAURICE J. MILLER

Robert L Waldo
Robert L. WALDO

MILWAUKEE SOLVAY COKE COMPANY

Albert P Mueller
ALBERT P. Mueller, Executive Vice President

COUNTERSIGNED:

P J Haeffner
P. J. Haeffner, Secretary

STATE OF WISCONSIN)
) SS.
MILWAUKEE COUNTY)

Personally came before me, this 1st day of June, A.D., 1962, Albert P. Mueller, Executive Vice President, and P. J. Haeffner, Secretary of the above named Corporation, to me known to be the persons who executed the foregoing instrument, and to me known to be such Executive Vice President and Secretary of said Corporation, and acknowledged that they executed the foregoing instrument as such officers as the deed of said Corporation, by its authority.

D J Dowling Jr

Notary Public, Milwaukee County, Wisconsin
My commission expires: D. J. DOWLING, JR. Notary Public, Milwaukee County, Wisconsin, My Commission Expires Dec. 27, 1964

Document Drafted By Robert L. Waldo

3952124

REGISTER'S OFFICE, Milwaukee County, Wis. RECORDED AT ___ JUN - 1 1962 at ___ in Vol 4245 Deeds Page 263
REGISTER OF DEEDS

JUN--1962 7 4 1 3952124 D Rec 3.2

First American Title Insurance Company National Commercial Services
833 East Michigan St., Suite 550, Milwaukee, WI 53202
(414)224-1778 - Fax (414)224-6188

COMMITMENT FOR TITLE INSURANCE

Issued by

First American Title Insurance Company

Agreement to Issue Policy

We agree to issue a policy to you accordingly to the terms of this Commitment.

When we show the policy amount and your name as the proposed insured in Schedule A, this Commitment becomes effective as of the Commitment Date shown in Schedule A.

If the Requirements shown in this Commitment have not been met within six months after the Commitment Date, our obligation under this Commitment will end. Also, our obligation under this Commitment will end when the Policy is issued and then our obligation to you will be under the Policy.

Our obligation under this Commitment is limited by the following:

The Provisions in Schedule A.

The Requirements in Schedule B-1.

The Exceptions in Schedule B-2.

The Conditions.

This Commitment is not valid without Schedule A and Sections 1 and 2 of Schedule B.

SCHEDULE A

Revision Information: Revision No. 1 (01/12/2016)

1. Commitment Date: December 22, 2016 at 7:30 A.M.

2. Policy or Policies to be issued: Amount

   (A) ALTA Owners Policy $0.00

   Proposed Insured:
   Purchaser to be Named

   (B) ALTA Loan Policy $0.00

   Proposed Insured:

3. (A) The estate or interest in the land described in this Commitment is:

   Fee Simple

   (B) Title to said estate or interest at the date hereof is vested in:

   Golden Marina Causeway, LLC, a Wisconsin limited liability company, debtor-in-possession under Case No. 16-03587 pending in the U.S. Bankruptcy Court for the Northern District of Illinois.

4. The land referred to in this Commitment is situated in the City of Milwaukee, State of Wisconsin, County of Milwaukee, and described as follows:

   Tax ID No.: 430-997-100-3 and 463-9995-200-X

   Property Address: 311 and 302 East Greenfield Avenue, Milwaukee, WI
   For reference purposes only.

See Exhibit "A" attached for Legal Description.

Exhibit "A "

PARCEL 1:

THAT PART OF THE NORTHWEST 1/4 AND THE SOUTHWEST 1/4 OF SECTION 4 IN TOWN 6 NORTH, RANGE 22 EAST, IN THE CITY OF MILWAUKEE, COUNTY OF MILWAUKEE, STATE OF WISCONSIN, WHICH IS BOUNDED AND DESCRIBED AS FOLLOWS: COMMENCING AT A POINT IN THE SOUTH LINE OF THE NORTHWEST 1/4 OF SAID SECTION 40.00 FEET SOUTH 89° 47' 45" EAST OF THE SOUTHWEST CORNER OF THE NORTHWEST 1/4 OF SAID SECTION; RUNNING THENCE NORTH 00° 46' 58" EAST ON A LINE WHICH IS 40.00 FEET EAST OF AND PARALLEL TO THE WEST LINE OF THE NORTHWEST 1/4 OF SAID SECTION 333.35 FEET TO THE SOUTHWEST CORNER OF LOT 14 IN PARTITION OF THAT PART OF THE NORTHWEST 1/4 OF SECTION 4, IN TOWN 6 NORTH, RANGE 22 EAST, WHICH LIES WEST OF THE 1/4 SECTION LINE; THENCE SOUTH 89° 47' 45" EAST ALONG THE SOUTH LINE OF LOT 14 AFORESAID 50.00 FEET TO A POINT; THENCE NORTH 00° 46' 58" EAST ALONG THE EAST LINE OF LOT 14 AFORESAID 151.42 FEET TO THE NORTHEAST CORNER OF SAID LOT 14; THENCE SOUTH 89° 47' 45" EAST ALONG THE SOUTH LINE OF LOT 7 IN SAID SUBDIVISION 26.00 FEET TO A POINT; THENCE NORTH 00° 46' 58" EAST ALONG A LINE WHICH IS 116.00 FEET EAST OF AND PARALLEL TO THE WEST LINE OF THE NORTHWEST 1/4 OF SAID SECTION 455.75 FEET TO A POINT WHICH LIES 200.00 FEET NORTH 00° 46' 58" EAST OF THE SOUTH LINE OF LOT 5 IN SAID SUBDIVISION; THENCE SOUTH 56° 39' 10" EAST 365.79 FEET TO A POINT IN THE SOUTH LINE OF SAID LOT 5 WHICH IS 424.30 FEET EAST OF THE SOUTHWEST CORNER OF SAID LOT 5; THENCE SOUTH 74° 49' 58" EAST 464.11 FEET TO A POINT IN THE DOCK LINES OF THE KINNICKINNIC RIVER; THENCE SOUTH 20° 59' 55" WEST ALONG THE DOCK LINE OF THE KINNICKINNIC RIVER 3.93 FEET TO A POINT; THENCE SOUTH 16° 11' 31" WEST ALONG THE DOCK LINE OF THE KINNICKINNIC RIVER 296.93 FEET TO A POINT; THENCE SOUTH 20° 45' 27" WEST ALONG THE DOCK LINE OF THE KINNICKINNIC RIVER 354.07 FEET TO A POINT IN THE SOUTH LINE OF THE NORTHWEST 1/4 OF SAID SECTION, SAID POINT BEING 672.66 FEET SOUTH 89° 47' 45" EAST OF THE SOUTHWEST CORNER OF THE NORTHWEST 1/4 OF SAID SECTION; THENCE SOUTH 17° 29' 34" WEST ALONG THE DOCK LINE OF THE KINNICKINNIC RIVER 343.01 FEET TO A POINT; THENCE SOUTH 60° 49' 25" WEST ALONG THE DOCK LINE OF THE KINNICKINNIC RIVER 42.79 FEET TO A POINT IN THE NORTH LINE OF THE SOUTH 50.00 FEET OF LOT 1 IN THE SUBDIVISION OF THE WEST 1/2 OF THE SOUTHWEST 1/4 OF SECTION 4, IN TOWN 6 NORTH, RANGE 22 EAST, COUNTY OF MILWAUKEE, STATE OF WISCONSIN; THENCE SOUTH 89° 47' 45" EAST ALONG THE NORTH LINE OF THE SOUTH 50.00 FEET OF LOT 1 AFORESAID 30.75 FEET TO A POINT IN THE OLD ESTABLISHED DOCK LINE OF THE KINNICKINNIC RIVER; THENCE SOUTH 17° 29' 34" WEST ALONG THE OLD ESTABLISHED DOCK LINE OF THE KINNICKINNIC RIVER 6.00 FEET TO A POINT; THENCE SOUTH 55° 44' 25" WEST ALONG THE OLD ESTABLISHED DOCK LINE OF THE KINNICKINNIC RIVER 427.24 FEET TO A POINT THENCE NORTH 21° 28' 30" WEST ALONG A LINE WHICH IS 44.00 FEET NORTHEASTERLY OF AND PARALLEL TO THE NORTHEASTERLY LINE OF SOUTH KINNICKINNIC AVENUE 57.58 FEET TO A POINT IN THE DOCK LINE OF THE KINNICKINNIC RIVER; THENCE SOUTH 60° 49' 25" WEST ALONG THE DOCK LINE OF THE KINNICKINNIC RIVER 44.40 FEET TO A POINT IN THE NORTHEASTERLY LINE OF SOUTH KINNICKINNIC AVENUE; THENCE NORTH 21° 28' 30" WEST ALONG THE NORTHEASTERLY LINE OF SOUTH KINNICKINNIC AVENUE 232.30 FEET TO A POINT IN THE NORTH LINE OF THE SOUTH 50.00 FEET OF LOT 1 IN THE SUBDIVISION OF THE WEST ½ OF THE SOUTHWEST 1/4 OF SECTION 4; THENCE SOUTH 89° 47' 45" EAST ALONG THE NORTH LINE OF THE SOUTH 50.00 FEET OF LOT 1 AFORESAID 47.35 FEET TO A POINT; THENCE NORTH 21° 28' 30" WEST ALONG A LINE WHICH IS 44.00 FEET NORTHEASTERLY OF AND PARALLEL TO THE NORTHEASTERLY LINE OF SOUTH KINNICKINNIC AVENUE 199.62 FEET TO A POINT WHICH IS 40.00 FEET EAST OF THE WEST LINE OF THE SOUTHWEST ¼ OF SAID SECTION; THENCE NORTH 00° 53' 55" EAST ALONG A LINE WHICH IS 40 FEET EAST OF AND PARALLEL TO THE WEST LINE OF THE SOUTHWEST 1/4 OF SAID SECTION 163.01 FEET TO THE POINT OF COMMENCEMENT.
BEING LOTS 13 AND 17 AND PART OF LOTS 5, 7, 8, 9, 10, 11 AND 12 IN PARTITION OF THAT PART OF THE NORTHWEST 1/4 OF SECTION 4, IN TOWN 6 NORTH, RANGE 22 EAST, WHICH LIES WEST OF THE 1/4 SECTION LINE AND PART OF LOTS 1 AND 2 IN SUBDIVISION INTO LOTS OF THE WEST 1/2 OF THE SOUTH 1/4 OF SECTION 4, IN TOWN 6 NORTH, RANGE 22 EAST, IN THE CITY OF MILWAUKEE, COUNTY OF MILWAUKEE, STATE OF WISCONSIN.

ALSO;
THAT PART OF LOTS 2, 3, 4, 5 AND 7 IN THE PARTITION OF THAT PART OF THE NORTHWEST 1/4 OF SECTION 4 IN TOWN 6 NORTH, RANGE 22 EAST, IN THE CITY OF MILWAUKEE, COUNTY OF MILWAUKEE, STATE OF WISCONSIN, LYING WEST OF THE ¼ SECTION LINE WHICH LIES WITHIN THE LIMITS OF THE FOLLOWING DESCRIBED PARCEL OF LAND: COMMENCING AT A POINT IN THE NORTH LINE OF SAID 1/4 SECTION 116.01 FEET NORTH 89° 56' 29" EAST OF THE NORTHWEST CORNER OF SAID 1/4 SECTION; RUNNING THENCE NORTH 89° 56' 29" EAST ALONG THE NORTH LINE OF SAID 1/4 SECTION 1460.07 FEET TO A POINT IN THE WESTERLY DOCK LINE OF THE KINNICKINNIC RIVER; THENCE SOUTH 21° 32' 49" WEST ALONG THE WESTERLY DOCK LINE OF THE KINNICKINNIC RIVER 842.70 FEET TO A POINT; THENCE SOUTH 89° 25' 22" WEST 359.42 FEET TO A POINT IN THE NORTHEASTERLY LINE OF THE CHICAGO AND NORTHWESTERN RAILROAD TRANSPORTATION COMPANY RIGHT OF WAY, SAID POINT BEING 770.75 FEET SOUTH OF THE SOUTH LINE OF EAST GREENFIELD AVENUE; THENCE SOUTH 39° 06' 20" EAST ALONG THE NORTHEASTERLY LINE OF THE CHICAGO AND NORTHWESTERN RAILROAD TRANSPORTATION COMPANY RIGHT OF WAY 381.98 FEET TO A POINT IN THE WESTERLY DOCK LINE OF THE KINNICKINNIC RIVER; THENCE SOUTH 21° 32' 49" WEST ALONG THE WEST DOCK LINE OF THE KINNICKINNIC RIVER 57.25 FEET TO A POINT; THENCE SOUTH 16° 01' 51" WEST ALONG THE WESTERLY DOCK LINE OF THE KINNICKINNIC RIVER 54.28 FEET TO A POINT; THENCE SOUTH 20° 59' 55" WEST ALONG THE WESTERLY DOCK LINE OF THE KINNICKINNIC RIVER 736.17 FEET TO A POINT; THENCE NORTH 74° 49' 58" WEST 464.11 FEET TO A POINT IN THE NORTH LINE OF LOT 7 AFORESAID, SAID POINT BEING 424.30 FEET EAST OF THE NORTHWEST CORNER OF LOT 7; THENCE NORTH 56° 39' 10" WEST 365.79 FEET TO A POINT IN THE EAST LINE OF THE CHICAGO, MILWAUKEE, ST. PAUL AND PACIFIC RAILROAD COMPANY RIGHT OF WAY, SAID POINT BEING 200.00 FEET NORTH OF THE NORTH LINE OF SAID LOT 7 AND 116.00 FEET EAST OF THE WEST LINE OF SAID 1/4 SECTION; THENCE NORTH 00° 46' 58" EAST ALONG THE EAST LINE OF THE CHICAGO, MILWAUKEE, ST. PAUL AND PACIFIC RAILROAD COMPANY RIGHT OF WAY ON A LINE WHICH IS 116.00 FEET EAST OF AND PARALLEL TO THE WEST LINE OF SAID 1/4 SECTION 1552.68 FEET TO THE POINT OF COMMENCEMENT; EXCEPTING THEREFROM THE RIGHT OF WAY OF THE CHICAGO AND NORTHWESTERN RAILROAD TRANSPORTATION COMPANY 100.00 FEET IN WIDTH RUNNING NORTHWESTERLY THROUGH SAID LANDS; AND EXCEPTING THEREFROM THE NORTH 16.00 FEET AS TAKEN FOR EAST GREENFIELD AVENUE AND THOSE LANDS LYING NORTHEAST OF SAID RAILROAD RIGHT OF WAY.

ALSO EXCEPTING FROM THE ABOVE PARCELS THAT PART CONTAINED IN QUIT CLAIM DEED RECORDED AS DOCUMENT NO. 4421152.

PARCEL 2:

THE FOLLOWING DESCRIBED PARCEL IS SITUATED IN THE COUNTY OF MILWAUKEE AND THE STATE OF WISCONSIN, TO WIT:
THAT PART OF THE SOUTHWEST 1/4 OF SECTION 33, TOWNSHIP 7 NORTH, RANGE 22 EAST AND THE SOUTHEAST 1/4 OF SECTION 32, TOWNSHIP 7 NORTH, RANGE 22 EAST, IN THE CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN, WHICH IS BOUNDED AND DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTH SECTION CORNER BETWEEN SECTIONS 32 AND 33 AFORESAID; RUNNING THENCE NORTH 00° 16' 36" EAST ALONG THE SECTION LINE BETWEEN SECTIONS 32 AND 33 AFORESAID 388.00 FT. TO A POINT, SAID POINT LYING IN THE CENTER LINE EXTENDED EAST OF EAST MADISON STREET; THENCE SOUTH 89° 56' 29" WEST ALONG THE CENTER LINE EXTENDED EAST OF EAST MADISON STREET 49.70 FT. TO A POINT, THEN NORTH 03° 31' 36" EAST AND PARALLEL TO THE EAST LINE OF THE CHICAGO, MILWAUKEE, ST. PAUL AND PACIFIC RAILROAD COMPANY RIGHT OF WAY 310.00 FT., MORE OR LESS, TO A POINT IN THE WESTERLY LINE OF THE CHICAGO AND NORTHWESTERN RAILROAD COMPANY RIGHT OF WAY, SAID POINT BEING 125.2 FT. WESTERLY, AS MEASURED RADIALLY FROM THE EASTERLY LINE OF THE CHICAGO AND NORTHWESTERN RAILROAD COMPANY RIGHT OF WAY; THENCE SOUTHERLY ALONG THE WESTERLY LINE OF THE CHICAGO AND NORTHWESTERN RAILROAD COMPANY RIGHT OF WAY 503.64 FT. ON THE ARC OF A CURVE WHOSE CENTER LIES TO THE EAST, WHOSE RADIUS IS 2694.29 FT. AND WHOSE CHORD BEARS SOUTH 11° 52' 26" EAST 602.90 FT. TO A POINT, SAID POINT BEING 155.15 FT. NORTH OF THE NORTH LINE OF EAST

GREENFIELD AVENUE; THENCE NORTH 89° 56' 29" EAST AND PARALLEL TO THE NORTH LINE OF EAST GREENFIELD AVENUE 26.39 FT. TO A POINT ON THE WESTERLY LINE OF THE CHICAGO AND NORTHWESTERN RAILROAD COMPANY RIGHT OF WAY, SAID POINT BEING 100.00 FT. WESTERLY AS MEASURED RADIALLY, FROM THE EASTERLY LINE OF THE CHICAGO AND NORTHWESTERN RAILROAD COMPANY RIGHT OF WAY; THENCE SOUTHERLY ALONG THE WESTERLY LINE OF THE CHICAGO AND NORTHWESTERN RAILROAD COMPANY RIGHT OF WAY 217.91 FT. ON THE ARC OF A CURVE WHOSE CENTER LIES TO THE EAST, WHOSE RADIUS IS 2669.09 FT. AND WHOSE CHORD BEARS SOUTH 19° 44' 06" EAST 217.85 FT. TO A POINT IN THE SOUTH LINE OF SAID SECTION 33; THENCE SOUTH 89° 56' 29" WEST ALONG THE SOUTH LINE OF SECTION 33 AFORESAID 174.67 FT. TO THE POINT OF COMMENCEMENT; EXCEPTING THEREFROM THE SOUTH 50.00 FT. AS TAKEN FOR EAST GREENFIELD AVENUE.

SCHEDULE B

SECTION ONE

REQUIREMENTS

The following requirements must be met:

(A) Pay the agreed amount for the interest in the land and/or the mortgage to be insured.

(B) Pay us the premiums, fees and charges for the policy.

(C) Documents satisfactory to us creating the interest in the land and/or the mortgage to be insured must be signed, delivered and recorded.

1. Entry of an Order by the United States Bankruptcy Court for the Northern District of Illinois in Case No. 16-03587, wherein which Golden Marina Causeway, LLC, is Debtor, (I) Approving Sale Procedures in Connection with the Sale of Greenfield Properties; (II) Scheduling a Hearing to Consider the Sale of the Greenfield Properties; (III) approving the Form and Manner of Notice Thereof; and (IV) Approving Break-up Fee.

2. Recordation of an Order from the United States Bankruptcy Court for the Northern District of Illinois in Case No. 16-03587, Golden Marina Causeway, LLC, Debtor, authorizing the sale free and clear of all liens and encumbrances pursuant to Section 363 of Chapter 11 of the United States Code.

3. Deed from Golden Marina Causeway, LLC, a Wisconsin limited liability company, debtor-in-possession under Case No. 16-03587, U.S. Bankruptcy Court for the Northern District of Illinois, to Purchaser to be Named.

4. The Company must be supplied with a copy of the Articles of Organization and any amendments thereto of Golden Marina Causeway, LLC, together with its Operating Agreement, if any, and all amendments thereto. The Company reserves the right to make such additional requirements as it may deem necessary upon receipt and review of said documents.

   The Company must be supplied with satisfactory evidence of the authority of the person executing the deed on behalf of Golden Marina Causeway, LLC, a Wisconsin limited liability company, to bind said limited liability company.

5. The Company may make further requirements upon review of the Sale Order from the United States Bankruptcy Court.

You must tell us in writing the name of anyone not referred to in this Commitment who will get an interest in the land or who will make a loan on the land. We may then make additional requirements or exceptions.

SCHEDULE B

SECTION TWO

EXCEPTIONS

Any policy we issue will have the following exceptions unless they are taken care of to our satisfaction.

1. Any facts, rights, interests, or claims that are not shown by the public records but that could be ascertained by an inspection of the land or by making inquiry of persons in possession of the land.

2. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.

3. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the title including, discrepancies, conflict in boundary lines, shortages in area, or any other facts that would be disclosed by an accurate and complete land survey of the land, and that are not shown in the public records.

4. Any lien, or right to a lien, for services, labor or material theretofore or hereafter furnished imposed by law and not shown in the public records.

5. Defects, liens, encumbrances, adverse claims, or other matters, if any, created, first appearing in the public records or attaching subsequent to the effective date hereof but prior to the date the proposed Insured acquires for value of record the estate or interest or mortgage thereon covered by this Commitment.

6. Special taxes, assessments or charges, if any.

   NOTE: Said exception will be removed only if the Company receives written evidence from the municipality that there are no special assessments against the land, or that all such items have been paid in full within 30 days of closing.

7. Taxes, general and special for the year 2017, not now due and payable.

8. Unpaid taxes for the year 2016, in the sum of $103,450.00, together with fees and interest, Tax Key No. 463-995-200-X.

   Unpaid taxes for the year 2015, in the sum of $107,112.55, together with fees and interest, Tax Key No. 463-995-200-X.

   Unpaid taxes for the year 2014, in the sum of $142,562.51, together with fees and interest, Tax Key No. 463-995-200-X.

9. Unpaid taxes for the year 2016, in the sum of $3,053.57, together with fees and interest, Tax Key No. 430-9997-100-3

   Unpaid taxes for the year 2015, in the sum of $4,330.52, together with fees and interest, Tax Key No. 430-9997-100-3.

10. Mortgage, according to the terms and provisions thereof, from GOLDEN MARINA CAUSEWAY, LLC, a Wisconsin limited liability company, to CLIFFS MINING COMPANY, a Delaware corporation, to secure the originally stated indebtedness of $3,000,000.00, and any other amount payable under the terms thereof, dated November 6, 2003 and recorded November 19, 2003, as Document No. 8674275.
Assignment of Mortgage from GOLDEN MARINA CAUSEWAY, LLC, a Wisconsin limited liability company, to EAST GREENFIELD INVESTORS, LLC, an Illinois Limited Liability company, dated August 25, 2006 and recorded September 11, 2006, as Document No. 9299461.
Affidavit of Correction dated August 11, 2008 and recorded August 14, 2008 as Document No. 9638356.
(Parcels 1 and 2)

11. Debt and Lien Subordination Agreement executed by and among CLIFFS MINING COMPANY, a Delaware corporation, WISCONSIN WRECKING COMPANY LLP (a/k/a WRECKING LLP), a Wisconsin limited liability partnership, WATER STREET HOLDINGS, LLC, a Wisconsin limited liability company, AND GOLDEN MARINA CAUSEWAY, LLC, a Wisconsin limited liability company, dated November 6, 2003 and recorded November 19, 2003, as Document No. 8685173. (Parcels 1 and 2)

12. Mortgage, according to the terms and provisions thereof, from Golden Marina Causeway, LLC, a Wisconsin limited liability company to Jennifer Meier, Successor Trustee of the Ann Marie Barry Trust Agreement dated March 24, 2003, to secure the originally stated indebtedness of $4,519,680.74 dated August 12, 2011 and recorded August 16, 2011, as Document No. 10023820. (Parcel 2)

13. Rights of the Chicago, Milwaukee, St. Paul and Pacific Railroad Company disclosed by and Reservation contained in Warranty Deed executed by The Milwaukee Electric Railway and Light Company to Pere Marquette Railway Company, recorded on October 26, 1936 in Volume 1461 of Deeds at page 118, as Document No. 2105952. (Parcels 1 and 2)

14. Restriction for Easement granted to Pere Marquette Railway Company recorded as Document No. 2105952. (Parcels 1 and 2)

15. Rights, easements and grants to third parties to use or to enjoy portions of the premises described in Schedule A hereof as rights of way for the location or maintenance of facilities or of appurtenances to other premises, or for other purposes therein granted, existing as of June 1, 1962 and arising pursuant to instruments of record, or referred to of record, or under instruments disclosed in a Warranty Deed executed by Milwaukee Solvay Coke Company to Wisconsin Coke Company, Inc., dated June 1, 1962 and recorded on June 1, 1962, in Volume 425 of Deeds at page 263, as Document No. 3952124. (This exception does not pertain to instruments of record in the office of the Register of Deeds for Milwaukee County, Wisconsin.) (Parcels 1 and 2)

16. Public rights of the United States, the State of Wisconsin or the City or County or any of their agencies in respect to that portion of the subject premises constituting the bed or the waters of Kinnickinnic River and car ferry slip or the banks, shores or dock lines, wharves, piers, protection walls, bulkheads, or other structures pertaining thereto. (Parcel 1)

17. Utility easement granted to Wisconsin Electric Power Company and Wisconsin Telephone Company as Document No. 4443926. (Parcels 1 and 2)

18. Rights, if any, with respect to the maintenance and use of sewers, utility pipes, cables or conduits which may be installed under the surface of the subject premises. (Parcels 1 and 2)

19. Easement granted to Chicago, Milwaukee and St. Paul Railway Company recorded as Document No. 852883. (Parcels 1 and 2)

20. Easement recorded as Document No. 7058302. (Parcels 1 and 2)

21. Solvay Coke Redevelopment Project Area dated March 26, 2003 and recorded May 20, 2003, on Reel 5586, Image 467, as Document No. 8532382. (Parcels 1 and 2)

22. Redevelopment Plan for the Port of Milwaukee Redevelopment Project Area recorded November 26, 2010 as Document No. 9943225 and Amendment No. 1 Port of Milwaukee Redevelopment Plan recorded August 10, 2011 as Document No. 10021746. (Parcels 1 and 2)

23. Order to Correction Conditions Building Pursuant to Section 218-9 MILW Code dated June 4, 2009 and recorded June 17, 2009 as Document No. 9753614. (Parcel 2)

24. Order to Raze and Remove Building dated October 25, 2011 and recorded November 3, 2011 as Document No. 10049562. (Parcel 1)

25. Order to Raze and Remove Building dated November 4, 2014 and recorded November 11, 2014 as Document No. 10411491. (Parcel 1)

26. Order to Raze and Remove Building dated October 25, 2011 and recorded July 30,, 2015 as Document No. 10485271. (Parcel 1)

27. Steam Easement granted to Wisconsin Electric Power Company recorded September 19, 2013 as Document No. 10295248. (Parcels 1 and 2)

28. Assignment of Claim for Lien recorded October 5, 2006, as Document No. 9314640.

29. Assignment of Claim for Lien recorded October 5, 2006, as Document No. 9314641.

30. Assignment of Claim for Lien recorded August 31, 2006, as Document No. 9295450.

31. Assignment of Claim for Lien recorded August 31, 2006, as Document No. 9295451.

32. Assignment of Claim for Lien recorded August 31, 2006, as Document No. 9295452

33. Easement Deed by Court Order recorded April 16, 2014 as Document No. 10351439. (Parcels 1 and 2)

34. Judgment docketed in the Circuit Court for Milwaukee County Wisconsin on November 5, 2012, Case No. 2012CV008681, wherein the City of Milwaukee is Plaintiff and Golden Marina Causeway LLC is Defendant, in the original amount of $118,215.91.

35. Judgment docketed in the Circuit Court for Milwaukee County Wisconsin on September 15, 2006, Case No. 2005CX000011, wherein the State of Wisconsin is Plaintiff and Golden Marina Causeway LLC is Defendant, in the original amounts of $40,000.00 and $275,416.50.

36. Matters as set forth in the Chapter 11 Bankruptcy Proceeding filed February 5, 2016 in the Northern District of Illinois, Case 16-03587, wherein which Golden Marina Causeway, LLC, is Debtor.

37. Current and future obligations arising from the inclusion of the Land in Business Improvement District No. 51 (Harbor District)

38. Outstanding interest of Wisconsin Gas LLC pursuant to a Purchase and Sale Agreement dated January 10, 2017, as filed with the U.S. Bankruptcy Court for the Northern District of Illinois, Case No. 16-03587, and the Sale Procedures as may be set forth by the Bankruptcy Court.

39. Environmental remediation requirements for the Land as may be established by United States Environmental Protection Administration for the site known as the Solvay Coke and Gas Company.

40. Right to a lien for unpaid commissions, if any, in favor of any real estate broker for the property, pursuant to Section 779.32, Wis. Stats. This exception will be removed on receipt by the Company of satisfactory affidavits of the present owner and purchaser that no such commissions are owed, or that commissions will be paid at closing. No broker lien or notice of intent to file a lien has been recorded as of the effective date of this commitment.

CONDITIONS

1. **DEFINITIONS**
(a) "Mortgage" means mortgage, deed of trust or other security instrument.
(b) "Public Records" means title records that give constructive notice of matters affecting the title according to the state law where the land is located.

2. **LATER DEFECTS**
The Exceptions in Schedule B - Section Two may be amended to show any defects, liens or encumbrances that appear for the first time in the public records or are created or attached between the Commitment Date and the date on which all of the Requirements (a) and (c) of Schedule B - Section One are met. We shall have no liability to you because of this amendment.

3. **EXISTING DEFECTS**
If any defects, liens or encumbrances existing at Commitment Date are not shown in Schedule B, we may amend Schedule B to show them. If we do amend Schedule B to show these defects, liens or encumbrances, we shall be liable to you according to Paragraph 4 below unless you know of this information and did not tell us about it in writing.

4. **LIMITATION OF OUR LIABILITY**
Our only obligation is to issue to you the Policy referred to in this Commitment, when you have met its Requirements. If we have any liability to you for any loss you incur because of an error in this Commitment, our liability will be limited to your actual loss caused by your relying on this Commitment when you acted in good faith to;

comply with the Requirements shown in Schedule B - Section One
or
eliminate with our written consent any Exceptions shown in Schedule B - Section Two.

We shall not be liable for more than the Policy Amount shown in A of this Commitment and our liability is subject to the terms of the Policy form to be issued to you.

5. **CLAIMS MUST BE BASED ON THIS COMMITMENT**
Any claim, whether or not based on negligence, which you may have against us concerning the title to the land must be based on this commitment and is subject to its terms.

Privacy Policy

We Are Commitment to Safeguarding Customer Information

In order to better serve your needs now and in the future, we may ask you to provide us with certain information. We understand that you may be concerned about what we will do with such information - particularly any personal or financial information. We agree that you have a right to know how we will utilize the personal information you provide to us. Therefore, together with our parent company, The First American Corporation, we have adopted this Privacy Policy to govern the use and handling of your personal information.

Applicability

This Privacy Policy governs our use of the information which you provide to us. It does not govern the manner in which we may use information we have obtained from any other source, such as information obtained from a public record or from another person or entity. First American has also adopted broader guidelines that govern our use of personal information regardless of its source. First American calls these guidelines its *Fair Information Values*, a copy of which can be found on our website at www.firstam.com.

Types of Information

Depending upon which of our services you are utilizing, the types of nonpublic personal information that we may collect include:

- Information we receive from you on applications, forms and in other communications to us, whether in writing, in person, by telephone or any other means;
- Information about your transactions with us, our affiliated companies, or others; and
- Information we receive from a consumer reporting agency.

Use of Information

We request information from you for our own legitimate business purposes and not for the benefit of any nonaffiliated party. Therefore, we will not release your information to nonaffiliated parties except: (1) as necessary for us to provide the product or service you have requested of us; or (2) as permitted by law. We may, however, store such information indefinitely, including the period after which any customer relationship has ceased. Such information may be used for any internal purpose, such as quality control efforts or customer analysis. We may also provide all of the types of nonpublic personal information listed above to one or more of our affiliated companies. Such affiliated companies include financial service providers, such as title insurers, property and casualty insurers, and trust and investment advisory companies, and escrow companies involved in real estate services, such as appraisal companies, home warranty companies, and escrow companies. Furthermore, we may also provide all the information we collect, as described above, to companies that perform marketing services on our behalf, on behalf of our affiliated companies, or to other financial institutions with whom we or our affiliated companies have joint marketing agreements.

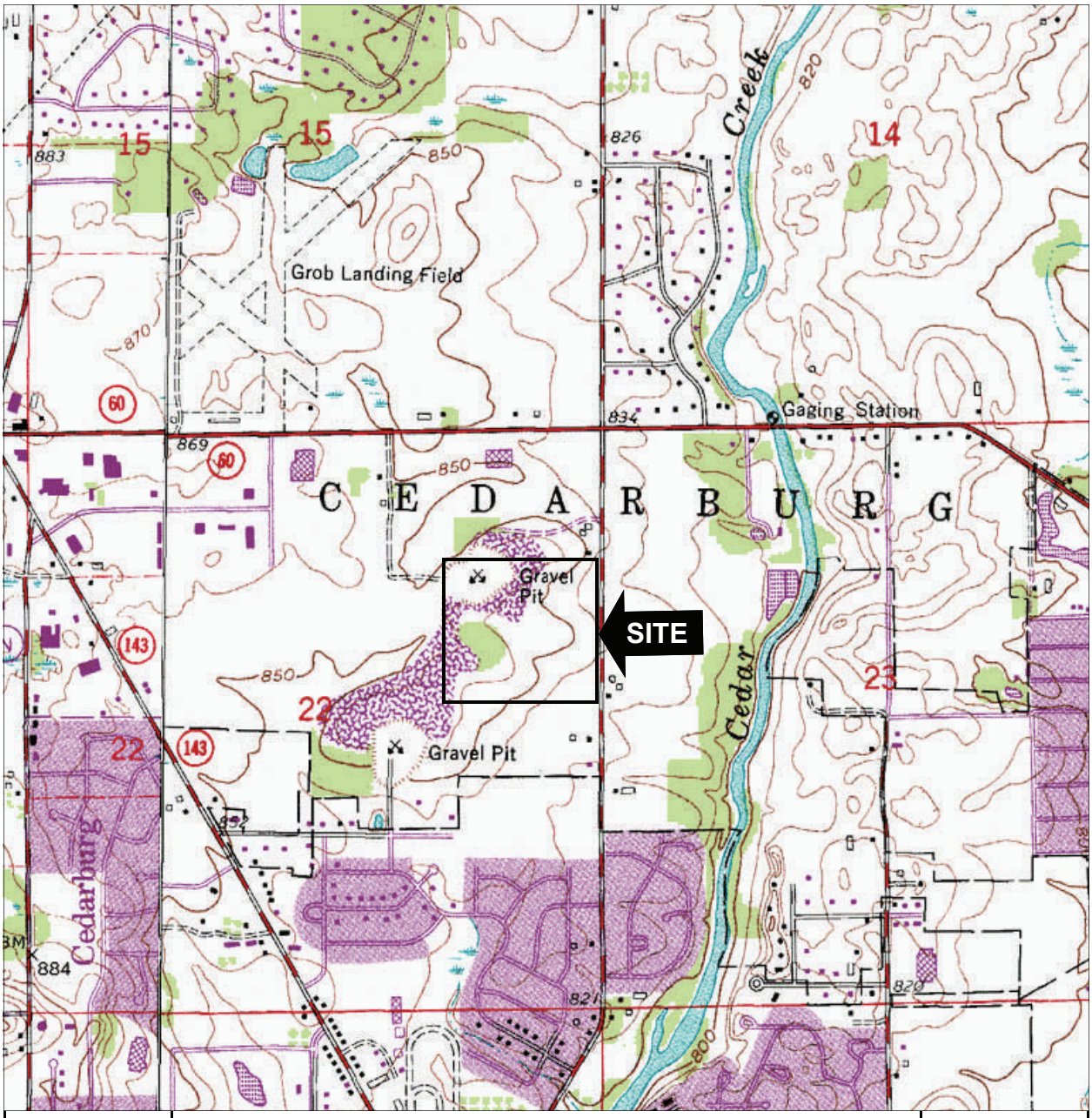
Former Customers

Even if you are no longer our customer, our Privacy Policy will continue to apply to you.

Confidentiality and Security

We will use our best efforts to ensure that no unauthorized parties have access to any of your information. We restrict access to nonpublic personal information about you to those individuals and entities who need to know that information to provide products or services to you. We will use our best efforts to train and oversee our employees and agents to ensure that your information will be handled responsibly and in accordance with this Privacy Policy and First American's *Fair Information Values*. We currently maintain physical, electronic, and procedural safeguards that comply with federal regulations to guard your nonpublic personal information.

Attachment C



Approximate Scale 1” = 2,000’	United States Geological Survey Topographic Map Sheboygan South Quadrangle NW 1/4 of Section 22, Township 9 North, Range 21 East	NORTH
FRIESS ENVIRONMENTAL CONSULTING, INC.	**Vicinity Diagram** R&R Excavating Site Town of Cedarburg, Wisconsin	Figure 1

2010 Aerial Photograph

NORTH

FRIESS ENVIRONMENTAL CONSULTING, INC.

Site Diagram
R&R Excavating Site
Cedarburg, Wisconsin

Figure
2

TOWN OF CEDARBURG
OZAUKEE COUNTY, WISCONSIN

R.&R. EXCAVATING & BULLDOZING, INC. - QUARRY RECLAMATION PLAN
in the Se. 1/4 of the Ne. 1/4 of Section 22, T.10N. R.21E.
Sheboygan Rd. C.T.H. "I" - 1/4 mile south of S.T.H. "60"

→ JULY 10, 2012 ←

Site Information:

Total Property Area = 39.45 acres (100%)
Quarry Area = 11.01 acres (27.9%)

Current Zoning = A-1 (Agricultural District)
R-2 (Single Family Residential District)

Site Fill Statistics:

Proposed 12" of Top Soil = 17,750 cubic yards
Proposed 24" Soil Cap = 35,500 cubic yards
Proposed General Fill = 536,510 cubic yards
Total Site Fill Volume = 589,760 cubic yards

PROPERTY DESCRIPTION :

The Southeast 1/4 of the Northeast 1/4 of Section 22, Town 10 North, Range 21 East, in the Town of Cedarburg, Ozaukee County, Wisconsin, inclusive of Certified Survey Map No. 386, as recorded in Vol. 2, Pages 92-93, as Document No. 235606 at the Ozaukee County Register of Deeds.

Excepting therefrom the East 33.0 feet, previously conveyed or dedicated for highway purposes.

OWNER :

Richard Charmoli
320 Douglas Lane
Cedarburg, WI 53012

OPERATOR :

R.&R. Excavating & Bulldozing, Inc.
Richard Charmoli, President
320 Douglas Lane
Cedarburg, WI 53012

Site History :

This site was originally opened as a County gravel pit in the late 1940's to early 1950's. R.&R. Excavating & Bulldozing, Inc. took over ownership and site operations in the early 1960's, and continued gravel mining operations until Jan. 2012. Limestone mining operations at this site took place from 1990 through 2011 in conjunction with the gravel mining. In January 2012, all mining operations at this site ceased. Heavy filling operations commenced in 2005 and are on-going.

Post-mining Land Use :

The ultimate land use for the Quarry located on this property shall be in accordance with it's current zoning which is A-1 (Agricultural District) as referenced on this cover sheet. Filling will continue to occur at the site until the final reclamation grades are attained with the final layer being of a topsoil material suitable to support the desired function of the land based on it's zoning. The final grading plan will be designed to match the existing topography and drainage of the surrounding lands.

Biological Information :

The lands adjacent to the reclamation site consist of a hardwood forest on the Northwest corner and agricultural lands planted with soy surrounding the remainder of the site. It is assumed that deer, birds, and various other wildlife utilize said lands for feeding, habitat cover, and travel between green space corridors.

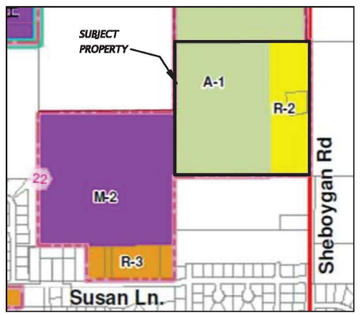
Reclamation Measures :

See Reclamation Measures on sheet 8 of 8

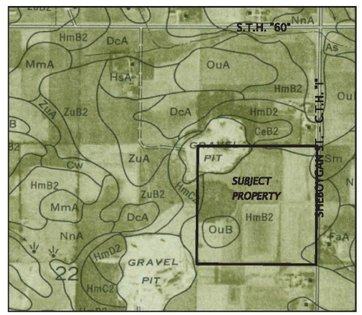
F.E.M.A. Note :

1. The subject property lies within Zone "X" areas determined to be outside the 0.2% annual chance Floodplain as determined by Flood Insurance Rate Map Community Panel No. 55089C 0178 F, Map Revised: December 4, 2007.

LOCATION MAP



ZONING MAP



SOILS MAP

Per the United States Department of Agriculture Soil Conservation Service report Dated September, 1970

SOIL TYPES :

HmB2 - Hochheim loam, 2 to 6 percent slopes, eroded
HmC2 - Hochheim loam, 6 to 12 percent slopes, eroded
HmD2 - Hochheim loam, 12 to 20 percent slopes, eroded
CeB2 - Casco loam, 2 to 6 percent slopes, eroded
FaA - Fabius loam, 1 to 2 percent slopes
OuB - Ozaukee silt loam, 2 to 6 percent slopes
Sm - Sebewa silt loam

Index of Sheets

Plan Date: July 10, 2012
Revision Date: March 28, 2013
Revision Date: April 5, 2013

Benchmark Note :

1. Main Benchmark is the Section corner monument at the SE. corner of the NE. ¼ of Section 22, Town 10 North, Range 21 East. Top of monument elevation = 833.26.

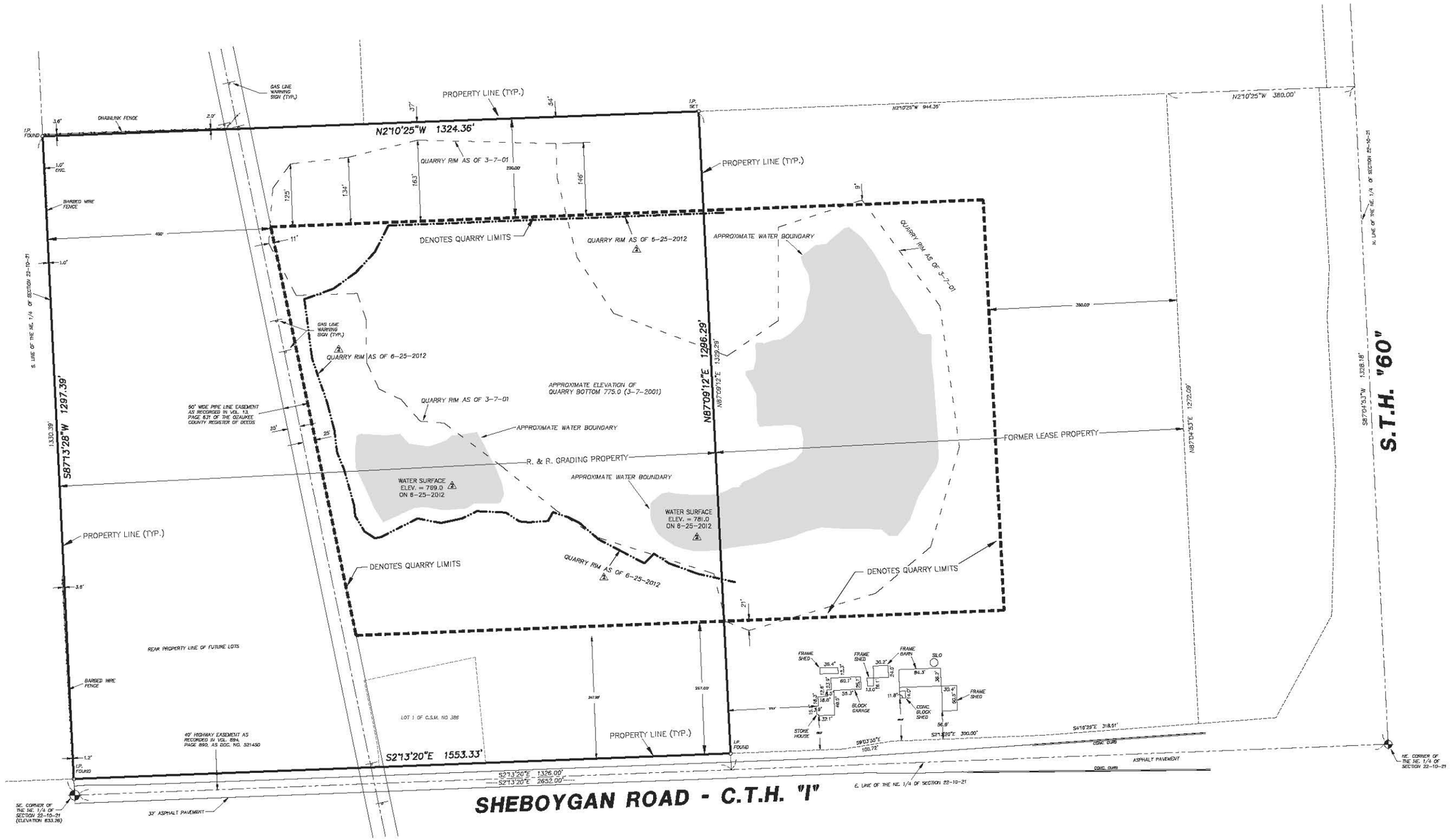
CERTIFICATION OF RECLAMATION PLAN

I hereby certify, as duly authorized representative or agent, that I, Richard Charmoli will comply with the provisions of this reclamation plan as well as the statewide nonmetallic mining reclamation standards established in ss. NR 135.05 through NR 135.15, Wisconsin Administrative Code.

_____ Dated: _____
Richard Charmoli, Owner/Operator

WISCONSIN
JAMES W. HENSEL
E-20831
GREENDALE, WI
PROFESSIONAL ENGINEER

NORTH SHORE ENGINEERING, INC.
Consulting Engineers & Land Surveyors
11433 N. Port Washington Rd., Mequon, Wisconsin, 53092
(262) 241-9400 • FAX: (262) 241-5337
www.northshoreengineering.net
NSE # LS-3350-12



BENCHMARK NOTE :

BENCHMARK IS THE TOP OF SE. CORNER OF THE NE. 1/4 OF SECTION 22-10-21 ELEVATION 833.26

SCALE 1" = 100'

R. & R. PROPERTY DESCRIPTION :

The Southeast 1/4 of the Northeast 1/4 of Section 22, Town 10 North, Range 21 East, in the Town of Cedarburg, Ozaukee County, Wisconsin, inclusive of Certified Survey Map No. 386, as recorded in Vol. 2, Pages 92-93, as Document No. 235606 at the Ozaukee County Register of Deeds.

Excepting therefrom the East 33.0 feet, previously conveyed or dedicated for highway purposes.

SURVEY CERTIFICATE

I have surveyed the above described property and the above map is a true representation thereof and shows the size and location of the property, its exterior boundaries, the location and dimensions of all visible structures thereon, boundary fences, apparent easements, roadways, and visible encroachments, if any.

This survey is made for the exclusive use of the present owners of the property, and also those who purchase, mortgage, or guarantee the title thereto within one (1) year from date hereof.

3-05-2001
Date

James G. Schneider
Surveyor — S-2127

FORMER LEASE PROPERTY DESCRIPTION :

The Northeast 1/4 of the Northeast 1/4 of Section 22, Town 10 North, Range 21 East, in the Town of Cedarburg, Ozaukee County, Wisconsin,

excepting therefrom Certified Survey Map No. 1383 as recorded in Vol. 7, Pages 80-81, as Document No. 329217 at the Ozaukee County Register of Deeds

also excepting therefrom that portion conveyed to the State of Wisconsin in Vol. 902, Page 855, at the Ozaukee County Register of Deeds

NORTH SHORE ENGINEERING, INC.
Consulting Engineers & Land Surveyors
11433 N. Port Washington Rd., Mequon, Wisconsin, 53092
(262) 241-9400 ● FAX: (262) 241-5337
www.northshoreengineering.net

SHEET 2 OF 8

MARK	DATE	REVISION	BY	APVD
2	7-3-2012	ADD CURRENT RIM, WATER AREAS & ELEV.	J.G.S.	J.W.H.
1	3-7-2001	MINOR REVISIONS	BY	APVD

QUARRY SURVEY

for

R. & R. Excavating and Bulldozing, Inc.

Sheboygan Rd. - C.T.H. "I"
Town of Cedarburg, WI.

FIELD CREW:	D.R.G. & A.R.H.	Plat No.:	LS-858-12
DATE:	MARCH 5, 2001		
DWN. BY:	J.G.S.		
CHKD. BY:	J.W.H.		

Ozaukee County

Owner (s):

PAUL R PONFIL TRUST 1/2

CHARMOLI HOLDINGS LLC 1/2

Location:

Mailing Address:

PAUL R PONFIL TRUST

CHARMOLI HOLDINGS LLC

320 DOUGLAS LN

CEDARBURG, WI 53012

Request Mailing Address Change

School District:

1015 - Cedarburg School

Tax Parcel ID Number:	Tax District:	Status:
03-022-04-000.00	**45004-Town of Cedarburg**	**Active**

Alternate Tax Parcel Number:	Acres:
	38.8500

Description - Comments (Please see Documents tab below for related documents. For a complete legal description, see recorded document.):

0995379 0995252 0983810 351/41 SE NE 38.85 ACS /EXC 4.1/ SEC 22 T 10 R 21

Site Address (es): *(Site address may not be verified and could be incorrect. DO NOT use the site address in lieu of legal description.)*

Ozaukee County GIS

DISCLAIMER: Ozaukee County does not guarantee the accuracy of the material contained here in and is not responsible for any misuse or misrepresentation of this information or its derivatives.

N

SCALE: 1 = 200'

Ozaukee County
121 W Main St
P.O. Box 994
Port Washington WI 53074
262-284-9411

Print Date: 11/30/2017