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Ms. Nancy Ryan
Wisconsin Department of Natural Resources
2300 N. Martin Luther King Jr, Drive
Milwaukee, Wisconsin 23212

**REMEDIAL ACTION PLAN
FORMER EXPRESS CLEANERS SITE
3921-3941 N. MAIN STREET, RACINE, WISCONSIN
BRRTS #02-52-547631**

Dear Ms. Ryan:

On behalf of the Ehrlich Family Limited Partnership, Ramboll Environ US Corporation (Ramboll Environ) submits the attached Remedial Action Plan (RAP) for the Former Express Cleaners Site in Racine, Wisconsin (the Site) in accordance with the requirements of Wisconsin Administrative Code (WAC) Chapter NR 724. The enclosed RAP presents details on the implementation of the enhanced reductive dechlorination remedy which utilizes a combined *in-situ* chemical and biological reduction approach through *in-situ* blending of zero-valent iron (ZVI) and carbon amendment followed by natural attenuation monitoring of groundwater for a period of 2 years.

October 14, 2016

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In September 2016, Ramboll Environ performed limited pre-remedial site investigation activities at the Site to define the extent of source soil impacts that are in excess of the proposed site-specific soil clean-up goal of 1,500 ug/kg PCE in the proposed area of *in-situ* soil blending. In addition, one round of groundwater samples was collected from the site monitoring wells. Section 5 of the RAP presents the results from the pre-remedial site investigation. Based on the results, the key findings from the investigation are summarized below.

- 1) The concentration of PCE above the soil clean-up goal was detected at depths of 8 to 10 feet below ground surface (bgs) at soil boring B45 (110,000 to 157,000 ug/kg), which is the eastern most soil boring Ramboll Environ performed in the proposed soil blending area. A sample collected at 12 feet bgs at this same location had a concentration of 622 ug/kg indicating that soil treatment will need to extend to a depth of approximately 11 feet in the eastern portion of the soil blending area, which is 2 feet below the proposed treatment depth of 9 feet. This finding has resulted in an increase in the volume of soil targeted for treatment at the Site.
- 2) Based on the existing soil data surrounding soil boring B45, a data gap still exists to the east of this soil boring location. As a result, the eastern extent of the soil impacts requiring treatment remains undefined. To address this data gap, Ramboll Environ proposes to install up to four additional soil borings to the northeast, east, and southeast of B45 to determine the limits of soil blending in this area prior to implementing the site remedial activities. Two

samples will be collected from each proposed soil boring at depths of approximately 7 and 11 feet bgs. We have tentatively scheduled this additional soil sampling work to be performed on October 17, 2016, in order to avoid delay in the remediation schedule.

In addition, Ramboll Environ also recommends installing one additional soil boring in the abandoned sanitary sewer and water main utility corridor on the west side of the Express Cleaners property to determine the extent of soil blending in this area. Soil boring B-36 had a PCE concentration of 39,300 ug/kg at a depth of 7 feet bgs. Two samples will be collected from this additional soil boring location at depths of 6 and 9 feet bgs to define the extent of PCE impacts above 1,500 ug/kg.

- 3) Based on the pre-remedial groundwater sampling results collected in September 2016, the concentration of PCE in groundwater has generally remained consistent with the sample results previously collected at the Site. These results are encouraging for the long-term groundwater natural attenuation remedy proposed for the Site given that soil remediation has not yet been implemented. As such, the need for the additional off-site monitoring well to the east may not be necessary.
- 4) A sub-slab vapor sample collected at the former Pugh Oil building located to the north of the Site had a PCE concentration of 6,440 µg/m³, which exceeds the sub-slab vapor risk screening level (VRSL) of 6,000 µg/m³ for small commercial buildings. The site is currently occupied and operates as a dry cleaner in the western portion of the building and an auto repair garage operates out of the eastern portion of the building. The owner of the building was notified of the sample results on October 11, 2016. To further address this potential issue, Ramboll Environ proposes to collect 8-hour time-weighted averaged indoor air samples within the building to evaluate the concentration of PCE in indoor air and the results will be compared to the Occupational Safety and Health Administration (OSHA) permissible exposure level (PEL) for PCE. We have tentatively scheduled the indoor air samples to be collected on October 18, 2016.

Ramboll Environ is currently preparing cost estimates for submittal to the Wisconsin Department of Natural Resources (WDNR) to complete the additional sampling activities described above, including a revised estimate for soil blending to 11 feet bgs on the eastern most portion of the source soil area and any extended locations defined from the results of the additional sampling proposed herein. Following receipt of the laboratory analytical results from the additional sampling activities, we will provide the WDNR with a summary of the sample results along with the revised project cost estimate to complete the enhanced reductive dechlorination remedy at the Site. The soil blending activities are scheduled to begin the week of October 31, 2016.

Should you have any questions or comments regarding the RAP or the additional investigation activities proposed above, please do not hesitate to contact us.

Yours sincerely,

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Attachments

Prepared for:

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Date:

October 2016

Project Number:

21-41301A

FORMER EXPRESS CLEANERS SITE RACINE, WISCONSIN

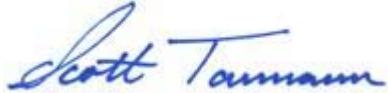
BRRTS #02-52-547631

FID #252010000

REMEDIAL ACTION PLAN

CERTIFICATIONS

I, Scott W. Tarmann, hereby certify that I am a Professional Engineer as that term is defined in s. NR 712.03(2), Wis. Adm. Code, and that to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

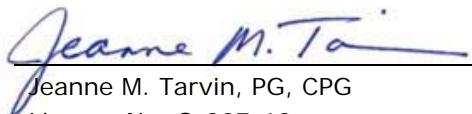


Scott W. Tarmann, PE
License No. 33530-006

October 14, 2016

Date

I, Jeanne Tarvin, hereby certify that I am a Hydrogeologist as that term is defined in s. NR 712.03(1), Wis. Adm. Code, and that to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.



Jeanne M. Tarvin, PG, CPG
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October 14, 2016

Date

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1. INTRODUCTION

Ramboll Environ US Corporation (Ramboll Environ) has prepared the following Remedial Action Plan (RAP) for the Former Express Cleaners Site in Racine, Wisconsin (the "Site"), on behalf of the Ehrlich Family Limited Partnership. Parties currently involved with this project include the following:

Responsible Party/Site Owner:	Ehrlich Family Limited Partnership c/o James Small P.O. Box 081007 Racine, Wisconsin 53408-1007
Owner's Representative:	Mr. William P. Scott Mallery & Zimmerman, S.C. 731 North Jackson Street, Suite 900 Milwaukee, Wisconsin 53202-4697
Regulatory Agency/Project Manager:	Ms. Nancy Ryan Wisconsin Department of Natural Resources 2300 North Dr. Martin Luther King, Jr. Drive Milwaukee, Wisconsin 53212-3128
Environmental Consultant:	Ms. Jeanne Tarvin and Mr. Scott Tarmann Ramboll Environ US Corporation 175 N. Corporate Drive, Suite 160 Brookfield, Wisconsin 53045

1.1 Site Background

The Site is located at 3921-3941 N. Main Street in the northeast 1/4 of the northeast 1/4 of Section 33, Township 4 North, Range 23 East, City of Racine, Racine County, Wisconsin (Figure 1). The geographic position of the Site in WTM 91 (x, y) coordinates obtained from the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment (RR) interactive Site Map (<http://dnrmaps.wi.gov>) is 701507, 257580.

The Site is currently vacant and contains a concrete slab-on-grade that was once part of a one-story, 6,804 square foot strip mall (without a basement). The Site is located on Lot 1, Lot 2, and the north 25 feet of Lot 3 of Block 3, Plat of the Greater North Bay Addition No. 2. The Site is 0.77 acres in size and is located at 3921-3941 N. Main Street. An adjacent 0.45-acre vacant lot, formerly known as the Community Gardens located at 3936 North Bay Drive, Racine, Wisconsin 53402-3611 (Figure 2) was recently purchased by the Ehrlich Family Limited Partnership. The adjacent property is located on Lot 8 and the north 40 feet of Lot 7 of Block 3, Plat of the Greater North Bay Addition No. 2. The northern unit of the strip mall (3941 N. Main Street) was formerly the location of a dry cleaning operation from 1971 until approximately 2006. The Site has been contaminated by dry cleaning solvents; concentrations of tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2 DCE) and vinyl chloride (VC) in groundwater have all historically exceeded the enforcement standards. Impacted soils are present in some locations beneath the asphalt paved surfaces and building slab, and extend beneath the water table to a depth of up to approximately 11 feet. Impacted soils within 4 feet of the ground surface exceed the direct contact industrial RCLs for some contaminants. PCE has been detected in soil vapor beneath the foundation of the strip mall building during previous investigations conducted at the Site. An off-site monitoring well (MW-15) west of N. Main Street tested on April 7, 2011, did not contain dry-cleaning related contaminants above laboratory analytical detection limits.

The ground surface gently slopes toward the east and west from the former site building. Surface-water runoff on the Site flows to the east on the eastern half of the Site and to the west on the

western half. The properties in the area are served by the Racine municipal water supply that obtains potable water from Lake Michigan. The nearest surface water body is Lake Michigan, which is located approximately 0.4 mile to the east of the Site.

The Site and adjacent property to the east (3936 North Bay Drive) have been the subject of several subsurface investigations since 2006. The WDNR has assigned Bureau for Remediation and Redevelopment Tracking System (BRRTS) No. 02-52-547631 to the case file. Ramboll Environ understands that the Site may be redeveloped upon completion of active remedial site work.

1.2 Purpose of Remedial Action Plan

The purpose of this RAP is to document the detailed methods for implementing the selected soil treatment remedy to address chlorinated volatile organic compound (CVOCs) impacts at the Site. These impacts are dominated by PCE and its degradation products of TCE, cis-1,2 DCE, and VC. This RAP also documents the detailed methods for implementation of monitored natural attenuation of groundwater impacts near and down-gradient of the source area. Specific objectives include the following:

- Present remedial action goals and objectives for the source area soil and groundwater impacts in accordance with chapter NR 720 of the Wisconsin Administrative Code (WAC);
- Present an evaluation of remedial alternatives considered for the Site in accordance with chapter NR 722 of the WAC;
- Present a specific remediation technology to address the target treatment volume;
- Present details regarding the design, implementation, and monitoring of the selected remedy;
- Present details for implementing a monitored natural attenuation (MNA) remedy following contaminant mass and concentration reduction;
- Present supporting project planning and permitting details for the remedy implementation; and
- Present post-remedial action reporting and site closure submittals.

2. SUMMARY OF PREVIOUS SUBSURFACE INVESTIGATIONS

The following sections present a summary of the subsurface investigation results that were previously completed at the Site (prior to 2011), and a list of previous subsurface investigation documents that were submitted to the WDNR. Additional delineation of the source area for remediation purposes was conducted in September 2016, and is summarized in Section 5.

2.1 Geologic and Hydrogeologic Setting

Up to 4 feet of gravelly sand to sand fill underlie the site building and other portions of the Site. Native sediments consisting of silty sand underlie the fill or are present at the surface in areas where no fill is present, and extend to depths of approximately 6 to 8 feet bgs. The silty sand is underlain by silty clay that extends to the maximum depth investigated of approximately 16 feet bgs. The silty clay was identified by the previous consultants as part of the Oak Creek Formation. Reportedly Silurian-age dolomite bedrock is present in the vicinity of the Site at depths ranging from 50 to 150 feet bgs (Trotta and Cotter, 1973).

Slug testing of site wells indicates the silty sand has a hydraulic conductivity measured at 2.1×10^{-4} centimeters per sec (cm/sec). The water table is reported to be present at approximately 2.75 to 4.75 feet bgs with a shallow groundwater divide present beneath the existing building in which groundwater flows to the east at locations east of the building and to the west/southwest west of the building.

2.2 Previous Subsurface Investigations

Several investigation reports have been submitted to the WDNR by previous consultants that contain additional background information regarding this Site. The following key documents were utilized to evaluate site conditions and the investigative history for the subject property:

1. Site Investigation Dry Cleaner Solvent Release, Express Cleaners, Inc., 3941 N. Main Street, Racine, Wisconsin, BRRTS No. 02-52-547631, prepared by Northern Environmental Technologies, Incorporated, May 14, 2008.
2. Additional Information, Express Cleaners, 3941 N. Main Street, Racine, Wisconsin, BRRTS No. 02-52-547631, prepared by Northern Environmental Technologies, Incorporated, January 14, 2009.
3. Additional Investigation Activities, Express Cleaners, 3941 N. Main Street, Racine, Wisconsin, BRRTS No. 02-52-547631, prepared by Bonestroo/Northern Environmental, June 9, 2009.
4. Additional Investigation Activities, Express Cleaners, 3941 N. Main Street, Racine, Wisconsin, BRRTS No. 02-52-547631, prepared by Bonestroo, May 2, 2011.

Based on this information, from April 2006 through April 2011, a total of 43 Geoprobe® borings were sampled on the Site and at adjacent properties (B1 through B34 and BA1 through BA9), two of which were converted to temporary groundwater monitoring wells (B5/TW1 and B7/TW2). Fifteen monitoring wells (MW1 through MW15) and one piezometer (PZ1) were also installed; with *in-situ* hydraulic conductivity testing conducted at monitoring well MW3 and piezometer PZ1. Additionally, three sub-slab vapor probes were installed and sampled (VP4 through VP6). The most recent groundwater sampling was conducted during April 2011.

2.3 Previous CVOC Mass Estimates

Based on the available site information presented in the *Proposal for Remedial Action Services, Former Express Cleaners Site, Racine, Wisconsin* (Ramboll Environ, 2016a), previous estimates of the CVOC contaminant mass present in site soil and groundwater was presented on Figure 2 in the *Proposal for Remedial Action Services*, which included analytical data for 1,2-cis-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), tetrachloroethene (PCE), and trichloroethene (TCE)¹. As part of this evaluation the area of impacted soil and groundwater was divided into the 12 areas shown on Figure 2 in the *Proposal for Remedial Action Services*, on which average soil and groundwater concentrations and vertical layer thickness were assigned. Vertical layers² evaluated included:

1. Soil (vadose) – ranging 2.75 to 4.25 feet thick³ in the areas evaluated;
2. Soil (coarse, saturated) – ranging 4.5 to 5 feet thick at the source area (Source Areas 1 and 2);
3. Soil (clay, saturated) – 1.5 feet thick at the source area (Area 1);
4. Groundwater (coarse saturated) – ranging 1 to 4.5 feet thick in the areas evaluated; and
5. Groundwater (clay saturated) – ranging 0 to 9 feet thick in the areas evaluated.

The contaminant mass estimate indicates that approximately 287 pounds of CVOC is present in the areas evaluated, and the primary CVOC site contaminant in soil and groundwater is PCE (97.3% of total CVOC mass present), with smaller amounts of breakdown products (TCE, cis-1,2-DCE, and trans-1,2-DCE). A summary tabulation of the results of this previous evaluation is presented on

¹ Based on the data available, vinyl chloride was only historically detected in groundwater one time at one location (MW3) and was not observed to be present in follow-up groundwater sampling events. Therefore, vinyl chloride was not included in this evaluation.

² Note that Ramboll Environ has interpreted the data to indicate that CVOCs are adhered to soil in the upper saturated zone in Source Area 1 and 2, and as such may be a continuing source of CVOCs to groundwater.

³ Average thickness values used for each area evaluated.

Table 1 in the *Proposal for Remedial Action Services* (Ramboll Environ, 2016a). As discussed below, this evaluation indicates that 99.0% of the CVOC is present in soil; with 1.0% present in groundwater.

Ramboll Environ performed pre-remedial soil sampling in September 2016 to further delineate the extent of PCE impacted soil for remediation purposes. The results from the pre-remedial soil samples were used to define the boundaries/volume of soil targeted for remediation and to refine the impacted soil volume/mass estimates. The updated CVOC mass estimates calculated for the Site are presented in Section 0 of this Remedial Action Plan.

2.3.1 Soil

The largest amount of CVOCs present in site soil are within Areas 1 and 2 (Source Areas 1 and 2: 2,179 ft²), containing approximately 94.7% of the total CVOC contaminant mass present at the Site (approximately 0 to 8 feet bgs). Approximately one-half (50.6%) of the total mass is contained in the vadose zone (0 to 3 feet bgs), with another 37.5% estimated to be present in coarse-grained saturated soil (3 to 8 feet bgs) in Areas 1 and 2, and the remaining 6.6 % present in the upper portion of the saturated clay (8 to 9.5 feet bgs) in Area 1.

The CVOC impacts at Area 5 are apparently due to a separate surface release at that location, and that CVOCs have migrated downgradient from Source Areas 1 and 2 through the subsurface utility corridor in Area 4. Even though elevated maximum CVOC concentrations were detected in these areas, the calculated contaminant mass in vadose soil is low, only 0.4% of the total mass present at the Site.

The remainder of the CVOC mass present in vadose zone soil at the Site is distributed at lower concentrations throughout the remainder of the Site (9,029 ft²) and accounts for approximately 3.8% of the total CVOC mass present.

Toxicity characteristic leaching procedure (TCLP) soil testing results are not available for site soil. The concentration of PCE in vadose soil in Source Areas 1 and 2 (maximum detected concentration of 270 mg/kg at 2 to 4 feet at boring B4) suggests that the soils, if excavated, would likely be above both the 153 mg/kg contained-out concentration and above the 0.7 mg/L TCLP limit for PCE, and would need to be treated/disposed as a RCRA characteristically hazardous waste.

2.3.2 Groundwater Quality

Only 1.0% of the total contaminant mass is estimated to be present in site groundwater (Table 1, *Proposal for Remedial Action Services* (Ramboll Environ, 2016a)). The highest CVOC concentrations in groundwater have been identified at monitoring well MW-3 and temporary wells TW-1 and TW-2 (Source Areas 1 and 2) beneath the northern portion of the former dry cleaning building where PCE was historically released to the subsurface. Detected concentrations of PCE in groundwater at Source Areas 1 and 2 have ranged from 770 to 6,000 µg/L.

Based on the concentrations of PCE, TCE, and cis-1,2-DCE detected in the groundwater, impacted groundwater with CVOC concentrations greater than ES values extends east from the source area near wells MW3, TW1, and TW2 (and just north of the source area at PZ1, MW1, and MW2) to monitoring well MW6 located at the eastern boundary of the 3936 North Bay Drive property, and to the west/southwest to Well MW8 on the western site boundary. Historically, CVOCs have not been detected in groundwater, or were detected at low concentrations below the ES, at monitoring wells located north of the plume (MW-7 MW-9, MW-10), south of the plume (MW4, MW5, MW11, and MW13), and west/southwest of the plume (MW14 and MW15).

2.4 Potential Receptors

2.4.1 Soil

Previous subsurface investigations have indicated the presence of CVOCs in soil at the Site. Potential scenarios by which CVOCs may come in contact with receptors include direct dermal contact during drilling, soil excavation, or soil injection activities. Such activities at the Site will be monitored to reduce potential risk due to inhalation of vapors or particulate matter and dermal protection will be utilized as necessary to protect field personnel from direct contact.

2.4.2 Groundwater

Potential ingestion of CVOC-impacted groundwater could hypothetically occur if affected groundwater were to migrate off-site to a private or municipal well used for potable water supply. However, no such groundwater receptors are currently present within the site vicinity, as it is served by the Racine municipal water supply that obtains potable water from Lake Michigan. As such, the groundwater exposure pathway is not complete.

2.4.3 Surface Water

Local surface waters consist of Lake Michigan, which is located 0.4 mile to the east of the Site. As such, the surface water pathway is not complete on site.

2.4.4 Utility Corridors

Potential concerns for sites with chlorinated-solvent contamination include migration of contaminants along utility corridors. The depth to the water table at the Site ranges between approximately 2.75 to 4.25 feet bgs. Based on their invert elevations relative to the water table, the sanitary sewer and water service utility corridor to the former strip mall may receive impacted groundwater from the Site (see Figure 2).

2.4.5 Vapor Intrusion

Potential concerns for sites with CVOC contamination include vapor migration into buildings. WDNR's vapor intrusion guidance for CVOCs indicates that the vapor intrusion pathway should be investigated if any of the following conditions are met:

- the building of interest is located over a CVOC source;
- the building is located within 100 feet of a CVOC source;
- the building overlies a groundwater plume that exceeds WAC NR 140 Enforcement Standard (ES) concentrations;
- groundwater with CVOC concentrations that exceed WAC NR 140 Preventive Action Limit (PAL) values is entering the building or is in contact with the building foundation or sump; and
- vapors have the potential to enter preferential pathways that connect to the building.

Based on these criteria, the occupied building located on the former Pugh Oil property approximately 40 feet directly north of the Site is close enough to the soil and groundwater CVOC plume to warrant investigation of the vapor intrusion pathway. No information was available concerning the building on the former Pugh Oil property north of the Site, so the vapor intrusion pathway at this building was evaluated as part of the remedial action activities and the results are summarized in Section 5.3.

3. REMEDIAL GOALS AND OBJECTIVES

This section presents the proposed remedial action goals and objectives for the impacted soil and groundwater at the Site. The overall goal of the remedial action is to remediate soil impacts that threaten human health and the environment, reduce source soil concentrations and mass to

minimize leaching of VOCs through the vadose zone to groundwater, and decrease the persistent groundwater contaminant concentrations at the source and down gradient of the source area consistent with WAC NR 700. This goal can be realized by effectively remediating source soil and groundwater concentrations on site to levels that will ultimately result in stable and/or receding groundwater contaminant concentrations down gradient of the source area as well as reducing the potential for vapor intrusion or need to implement vapor mitigation actions in nearby buildings. The remedial actions proposed for achieving this goal will also result in increased value to, and redevelopment potential of the Site. The following sections discuss the rationale and selected method for establishment of the soil clean-up goals for soil and the remedial objective for achieving a no-further action for residual groundwater impacts at the Site.

The case closure goal for the Site is to obtain a "no further action" status under WAC NR 726 following successful implementation of soil and groundwater remedial actions. The closure pathway is anticipated to rely upon WDNR's GIS registry for recording closed sites that have contamination exceeding residual contaminant levels (RCLs) in soil and ES in groundwater. For the Site, the closure pathway for obtaining a no further action status for soil is via the use of a soil performance standard as a component of active remediation while the closure pathway for obtaining a no further action status for groundwater is via a MNA remedy subsequent to active remediation.

3.1 Proposed Remedial Action Goals for Soil

As the generic WDNR soil to groundwater pathway RCLs for the chemicals of interest (PCE [4.5 ug/kg], TCE [3.6 ug/kg], cis-DCE [41.2 ug/kg], and VC [0.1 ug/kg]) using a dilution-attenuation factor of 2 are more stringent than the corresponding non-industrial direct contact RCLs (PCE [30,700 ug/kg], TCE [1,260 ug/kg], cis-DCE [156,000 ug/kg], and VC [67 ug/kg]), remediation of the site soil to meet groundwater pathway RCLs would require over a 99.99% reduction in the maximum soil concentration and a 99.97% reduction in contaminant mass to achieve the soil to groundwater RCL goals. Contaminant concentration and mass reduction of this magnitude is beyond the capabilities of ordinary soil remedial methods and technologies, and therefore, may not be technically or economically feasible. Furthermore, the soil clean-up concentrations for PCE, TCE, and VC at this level are well below the method detection limits that analytical laboratories can achieve using the most current SW846 methods. As such, a performance-based remedial action goal for the protection of groundwater is recommended instead of the WDNR groundwater pathway RCLs and for the following additional reasons:

- Remediation of the soil source area to the groundwater protection RCLs would likely create an area of clean subsurface soil that may become re-contaminated by potential off-site shallow groundwater impacts in the area;
- Rebound to higher concentration levels following remediation activities could exceed the soil to groundwater RCL concentrations for PCE, TCE, and VC. From this perspective, any added benefit to achieving a soil mass removal to meet the low level soil to groundwater RCL concentrations may prove to be ineffective in the long term; and
- Remediation of soil to these concentrations would be cost prohibitive.

As such, a performance based soil remedial action goal for the protection of groundwater is proposed for the Site. As described in the previous paragraphs, WAC NR 720 stipulates that site specific soil clean-up standards protective of public health, safety, and welfare and the environment are generally established to restore the environment to the lowest concentration practicable for specified soil contaminants. However, in the event that it is not practicable to achieve the established and/or most stringent soil RCL, a soil performance standard may instead be implemented. For the Express Cleaners Site, soil performance standards are applicable to address both the direct contact and groundwater pathways and must be implemented and maintained to ensure that contamination no longer poses a threat to human health or the environment.

Ramboll Environ proposes to establish a clean-up goal for impacted soil based on the direct contact exposure pathway. The default non-industrial direct contact RCL's for PCE, TCE, cis-DCE, and VC will be used as the soil clean-up goals for the Site and are summarized below:

- PCE – 30,700 ug/kg*
- TCE – 1,260 ug/kg
- cis 1,2-DCE – 156,000 ug/kg
- VC – 67 ug/kg

* In addition to achieving the direct contact RCLs, the remedial objective includes removal of sufficient CVOC mass to allow for stable and/or receding groundwater concentrations. To achieve this objective, this residual PCE concentration may result in non-stable groundwater conditions. Therefore, the recommended approach is to address the PCE concentration in soil to at least an order of magnitude less than the non-industrial direct contact RCL for this compound. Based on experience at other similar sites in Wisconsin and because the sorbed phase CVOC mass represents an estimated 99% of the total CVOC mass at the Site, an internal goal of 1,500 ug/kg for PCE is proposed.

These remedial action goals will allow the impacted soil boundaries to be defined and to establish a performance level in which various remedial alternatives can be reasonably compared and evaluated. As direct contact with soil is a potential exposure pathway at the Site, two potential receptors of the residually impacted soil have been identified: 1) current and future on-site workers; and 2) future construction workers. The current and future on-site worker is assumed to not be exposed to soil deeper than 4 feet bgs. However, a future construction worker may be exposed to the chemical of interest (COI) in surface and subsurface soils (0 to 9 feet bgs) via incidental ingestion, dermal contact, and inhalation of volatiles and dust. Therefore, the default non-industrial direct contact RCLs are considered applicable for the subsurface soil throughout the 0 to 9 foot depth to address the construction worker receptor scenario.

The soil remedial action goals for the Site will be performance-based to ensure that any residual soil contamination remaining at the Site does not further degrade groundwater quality. The performance based soil remedial action goals will be evaluated by monitoring groundwater conditions to document a stable and/or receding contaminant plume.

Remediation of the site soil to the above RCLs will result in a greater than 93% reduction in the maximum documented soil concentration and a greater than 95% overall contaminant mass reduction in source soil. Remediation of soil to these soil performance standards also requires a demonstration that natural degradation processes are functioning to remediate any residual contaminants to levels that are protective of groundwater and which will result in stable and/or decreasing groundwater contaminant concentrations. This remedial strategy achieves the goal of the soil clean-up standard (reducing the threat to the environment) by containing and remediating environmental contaminants. Provided that the conditions required by the performance standard are maintained, no further action regarding the contaminated soil would be required once the soil performance standard has been successfully documented.

3.2 Proposed Remedial Action Goals for Groundwater

The closure pathway objective for groundwater at the Site is to obtain a "no further action" status under WAC NR 726 following successful documentation that remedial actions conducted at the source results in reduced mass loading of contaminants to groundwater so that the residual groundwater contaminant plume is stabilized and/or has receding COI concentrations. To document attainment of this goal, a groundwater monitoring program will be implemented to evaluate plume conditions and document that no adverse impact on human health, safety or welfare, and to the environment exists

or develops in the future. This closure pathway for the residual groundwater impacts is anticipated to incorporate a closure approach that relies upon the WDNR's GIS registry for recording closed sites that have residual contamination that exceeds the ES in groundwater.

4. EVALUATION OF REMEDIAL ACTION OPTIONS

This section identifies several feasible remedial action options that have the greatest potential to achieve the goals and objectives for remediating the impacted soil, groundwater and vapor at the Site. The identified remedial action options were evaluated based on the requirements specified in WAC NR 722, which are summarized in the following sections. Alternatives that were determined to not be technically or economically feasible were not retained for further evaluation.

4.1 Remedial Action Options Evaluation Considerations

Based on the above site conditions and pathways of concern, a summary of site conditions relative to remedial evaluation and selection is as follows:

- The Site is located in a populated urban area, with high visibility. A remediation strategy should be selected that minimizes short-term exposure and impacts to receptors during construction and long-term exposure based on the final remedy.
- The site owner desires that the Site be available for redevelopment after remediation is complete. Ramboll Environ assumes the redevelopment will include construction of a new site building and other site improvements. Therefore, remedial methods that can accomplish significant soil and groundwater mass removal in the short term are preferred.
- The most heavily impacted soil and groundwater is present within the northern third of the property, and extends from the ground surface to approximate depths of 9 feet bgs.
- Although the presence of dense non-aqueous phase liquid (DNAPL) has not been observed in groundwater samples obtained from the Site, historical data suggests that concentrations of PCE are sufficiently high that DNAPL could be present as DNAPL droplets or ganglia within the porous media near former temporary wells TW-1 and TW-2.
- Removal of all contamination in soil and groundwater to below generic soil and groundwater cleanup standards is not practicable given the magnitude and extent of impacted soil and groundwater at the Site. Therefore, utilization of WAC NR 720 performance standards for soil and groundwater that rely on contaminant mass removal and groundwater CVOC plume stability as the primary remediation objective is proposed.
- Removal of the majority of the residual soil and groundwater CVOC mass in the former source area is essential to reduce the probability for indoor air vapor action level exceedances to occur within any new site building.
- While the mass of soil and groundwater impacts that extend onto the adjacent properties to the north and east of the former Express Cleaners site are relatively small compared to the mass on the former Express Cleaners property, the likelihood for these off-site impacts to cause an indoor air vapor action level exceedance within an off-site building may be relatively low. However, any new building that may be constructed on-site should incorporate a vapor migration barrier.
- After contaminant mass removal, groundwater remediation via natural attenuation will be an essential component to achieving site closure. Enhancing degradation via reductive dechlorination technologies consistent with the existing natural processes at the Site will likely be more successful for long-term groundwater natural attenuation.
- Ramboll Environ does not recommend active soil and groundwater remediation within the eastern portion of the site near monitoring wells MW-6 and MW-13. Groundwater samples collected to date from monitoring well MW-13 have not contained detectable concentrations of VOCs, and

only one groundwater sample obtained from MW-6 revealed a slight exceedance (6.5 ug/L) of the WAC NR 140 ES for PCE (5 ug/L). Monitoring well MW-6 will, however, be included as part of the recommended quarterly groundwater monitoring program for evaluation of MNA.

4.2 Technical Feasibility

The technical feasibility of appropriate remedial action options are evaluated using the following criteria:

1. Long-term Effectiveness: The long-term effectiveness of appropriate remedial action options, taking into account the following factors:
 - the degree to which the toxicity, mobility and volume of the contamination is expected to be reduced; and
 - the degree to which a remedial action option, if implemented, will protect public health, safety and welfare and the environment over time.
2. Short-term Effectiveness: The short-term effectiveness of appropriate remedial action options, taking into account any adverse impacts on public health, safety and welfare and the environment that may be posed during the construction and implementation period until case closure under WAC NR 726.
3. Implementability: The implementability of appropriate remedial action options, taking into account the technical and administrative feasibility of construction and implementation of the remedial action options. Disruption of the existing business and potential impacts to neighboring properties were also considered when evaluating the implementability of each alternative.
4. Restoration Timeframe: The expected timeframe needed to achieve the necessary restoration.

4.3 Economic Feasibility

The economic feasibility of each appropriate remedial action option was evaluated using the following criteria: capital costs, annual operation and maintenance costs, total present worth of the costs, costs associated with potential future liability, and disruption to businesses on or adjacent to the Site. The economic feasibility of a remedial action option is determined by comparing the costs to what is expected to be technically achieved by that option, taking into account long-term effectiveness, short-term effectiveness, implementability, and the time until restoration is achieved for each option.

4.4 Identified Remedial Action Options

The response actions identified for preliminary screening for the subject property include an appropriate range of potential remedial action options. The no action alternative is included as a general response action against which other actions can be evaluated.

Based on review of laboratory results of previously-collected soil and groundwater samples, the recommended soil and groundwater treatment area includes the location approximately bounded by monitoring wells MW-1, MW-2, MW-4 and MW-8, as shown on Figure 3 in the *Proposal for Remedial Action Services* (Ramboll Environ, 2016a). This recommended soil and groundwater treatment area covers approximately 5,700 square feet. The vertical extent of the impacted soil and groundwater extends to an average of 9 feet bgs, with impacted soil to 11 feet bgs in the area east of soil boring B9. Based on these dimensions, the target treatment volume includes approximately 1,900 cubic yards, which is equivalent to approximately 2,850 tons. To reduce the potential for off-site migration of impacted groundwater, the recommended target treatment volume includes the east-west trending utility corridor located between the site building and the western property boundary.

Based on the remedial objectives for soil and groundwater identified in Section 3.1 and 3.2, and the groundwater quality data available at the time of this remedial action options evaluation, Ramboll Environ does not recommend active soil and groundwater remediation within the eastern portion of the site near monitoring wells MW-6 and MW-13. Groundwater samples collected to date from monitoring well MW-13 have not contained detectable concentrations of VOCs, and only one groundwater sample obtained from MW-6 revealed a slight exceedance (6.5 ug/L) of the WAC NR 140 ES for PCE (5 ug/L). Monitoring well MW-6 will, however, be included as part of the recommended quarterly groundwater monitoring program for evaluation of MNA.

Approximately one-half of the estimated CVOC mass is present in the vadose zone, and one-half is present in the saturated zone at the Site. As such, CVOC mass above the water table can act as a long-term source of groundwater impact, such that the intended site remediation will include reducing contaminant mass flux to the water table from the vadose zone.

Remedial action options considered for the impacted soil and groundwater at the subject property are as follows:

- no action;
- institutional/engineering controls;
- monitored natural attenuation;
- excavation and landfill disposal;
- soil vapor extraction;
- air sparging;
- groundwater extraction and treatment;
- *in-situ* electro-thermal remediation;
- *in-situ* chemical oxidation; and
- *in-situ* enhanced reductive dechlorination.

4.4.1 No Action

The No Action response involves no treatment of contaminated soil, groundwater and vapor at the subject property. This response typically serves as a baseline against which the other remedial options and technologies can be compared. The No Action response may be used as the sole remedial action only in the event the prevailing site conditions lead to the determination that the Site poses no significant risk to human health or the environment. In that event, implementation of other types of action becomes unnecessary.

In terms of technical feasibility, the No Action alternative would eventually reduce the magnitude of the existing risk by natural attenuation processes. Because No Action is proposed under this alternative, the implementability is very high. From an administrative feasibility point of view, this alternative would likely not be accepted by the WDNR as the remedy for the Site because short-term remedial objectives would not be met.

This alternative was considered the lowest in terms of present worth cost and disruption to the subject property. It has no associated capital costs or operation and maintenance costs. As indicated above, this alternative would likely not be accepted by the WDNR and is not retained for further evaluation.

4.4.2 Institutional Controls

In Wisconsin, the GIS Registry of Closed Remediation Sites provides a means of public notice regarding properties with residual contamination. Sites closed with residual soil contamination exceeding WAC NR 720 RCL values for soil and/or WAC NR 140 ES values for groundwater are required to be listed in the GIS Registry. Sites closed with deed restrictions prior to June 2006 are also included in the GIS Registry. As of June 2006, the GIS Registry also became the database for listing sites closed with land use controls, which replaced deed restrictions.

If a land use control is required for a particular site, a maintenance plan may also be required. Maintenance plans may include requirements for cover inspections, fencing inspections, and/or routine groundwater monitoring. General information provided in the GIS Registry related to soil and/or impacts includes the site analytical data, site maps, as well as any special precautions that may be required for future potential redevelopment of a site.

With regard to technical feasibility, no additional treatment technology would be included with this option; therefore, this alternative can only offer gradual reduction in the toxicity, mobility or volume of the contaminants. As with the No Action alternative, this option would likely not be accepted by the WDNR as the sole remedy for the Site as short-term remedial objectives would not be met. This alternative is therefore not retained for further evaluation as a sole remedy; it is, however, retained for further evaluation in conjunction with closure activities using active remediation.

4.4.3 Monitored Natural Attenuation

Natural attenuation processes can account for improvements in groundwater quality. This process is therefore considered a passive remedial alternative. Natural attenuation in the subsurface occurs due to a combination of processes including the following: biodegradation, adsorption, dilution, and dispersion. Depending on the initial concentrations and properties of the chemicals in the groundwater, and physical or biological processes controlling attenuation, the contaminant plume may eventually decrease or narrow over time, as the edges of the plume will degrade to insignificant concentrations. Intrinsic bioremediation is the use of a scientific approach to demonstrate the occurrence of microbial degradation of contaminants by monitoring the geochemical and biological properties of the groundwater, including pH, temperature, conductivity, oxidation/reduction potential, electron acceptors (e.g., dissolved oxygen, nitrate, nitrite, sulfate, etc.), carbonate, bicarbonate, carbon dioxide, methane, alkalinity, cations, TDS, chloride, sulfide, etc.

Biodegradation of PCE has been well documented under reducing conditions, and the biochemical pathway and microorganisms responsible have been identified. In addition to these general considerations, cDCE and other daughter products of TCE and PCE are commonly detected in groundwater at the Site. The presence of daughter products such as cDCE is generally understood to result from the biodegradation of TCE, consistent with the well-known biodegradation pathway:



Therefore, the detected presence of cDCE and other daughter compounds at the Site is consistent with biodegradation of TCE and PCE.

MNA has limited effectiveness for contaminant plumes that have migrated to receptors or are present in an area where future groundwater use is likely. The ideal goal of MNA is to demonstrate that active remediation is unnecessary because groundwater plumes will not reach potential receptors or other points of compliance before being remediated by organisms that occur naturally in groundwater.

Groundwater monitoring is used as a tool to provide information regarding changes in subsurface conditions over time. This action is a component of remedial action options for groundwater. In the

case of MNA, time-series data are collected from monitoring wells to evaluate plume stability and determine if natural attenuation is occurring. If MNA is selected as the preferred remedy at a site, time-series monitoring is used to confirm the effectiveness of natural processes in the degradation of contaminants. The WDNR endorses use of the Mann-Whitney U Test, which is equivalent to the Wilcoxon Rank Sum Test, for evaluating natural attenuation processes. Per current WDNR guidance, the Mann-Whitney U Test is conducted by assembling well data for the most recent eight consecutive quarterly or semi-annual sampling events for each contaminant that has exceeded the WAC NR 140 ES at one or more monitoring wells.

No active groundwater treatment process is proposed under this alternative; instead it would rely on the effectiveness of natural processes to reduce the toxicity, mobility and volume of the contaminants after vadose zone soil remediation. Because no major remedial action is proposed as part of this alternative, it would have minimal impact to the community, and on-site workers. No short-term environmental impacts are therefore expected from this alternative. Remedial objectives may be met by implementing this alternative; however, the time to achieve the remedial objectives would be longer than most of the other alternatives considered and would not occur within a reasonable timeframe.

From an administrative feasibility point of view, this option will require a demonstration of effectiveness (*i.e.*, stable or declining concentration trends) before the administrative agency can accept this alternative as the final remedy for the Site. Soluble hydrocarbon plumes containing CVOCs are amenable to natural attenuation processes. However, the presence of CVOCs as DNAPL has been detected in site groundwater. As such, it is not currently possible to estimate a timeframe for completion of MNA and attainment of regulatory case closure in the absence of active groundwater remediation. Moreover, as indicated in WAC NR 722.07, for CVOCs "that do not readily degrade in soil and groundwater, an active remedial action that will reduce the contaminant mass and concentration will typically be necessary." Based on the foregoing, the MNA alternative alone is not retained for further evaluation, except in conjunction with active remediation.

4.4.4 Excavation and Landfill Disposal

Soil excavation and off-site treatment/disposal is a commonly-used approach to achieve remedial objectives for sites with contaminated soils within a short time-frame. Under this option, impacted soils would be excavated and transported off-site for appropriate landfill disposal.

In terms of the identified remedial alternatives to address the CVOC-impacted soil, soil disposal costs associated with the excavation and off-site landfill disposal alternative would be high, as a substantial portion of the impacted soils would likely represent RCRA characteristic hazardous waste based on detected PCE concentrations. Soil that contains greater than 60 mg/kg PCE represents a characteristic RCRA hazardous waste that exceeds land disposal restriction threshold concentrations as provided in 40 CFR 268.40, such that a substantial portion of the excavated soil might require chemical oxidation pre-treatment or incineration with a transportation and disposal cost alone of approximately \$700 per ton. Moreover, the depth to the water table is approximately 3 feet bgs, such that substantial additional costs would likely be incurred for infiltrated groundwater disposal and possible excavation shoring during the course of excavation activities. Based on the initial target treatment volumes identified (1,900 cubic yards or 2,850 tons), the cost to implement the soil excavation and off-site treatment/disposal alternative is estimated to total approximately \$2,900,000. Based on this evaluation of economic feasibility, the soil excavation and off-site treatment/disposal alternative is not retained for further evaluation.

4.4.5 Soil Vapor Extraction

Soil vapor extraction (SVE), also known as "soil venting" or "vacuum extraction," is an *in-situ* remedial technology that reduces concentrations of VOCs adsorbed to soils in the unsaturated

(vadose) zone. In this technology, a vacuum is applied through extraction wells near the source of contamination in the soil. Volatile constituents of the contaminant mass enter the vapor phase and the vapors are drawn toward the extraction wells. Extracted vapor is then treated as necessary (commonly with carbon adsorption) before being released to the atmosphere. SVE may be enhanced by the addition of air inlet wells (sometimes pressurized) within the vacuum radius of influence (ROI), pulsing the air flow in the soil, or switching flow by reversing inlet and extraction wells.

SVE is most effective in removing VOCs at sites with homogeneous, relatively coarse grained soils where the water table is sufficiently deep such that upwelling of groundwater into SVE wells does not occur. SVE typically has limited effectiveness in low permeability and/or wet silts and clays. Based on the shallow depth to the water table at the Site (approximately 3 feet), the SVE remedial alternative is not retained for further evaluation based on technical implementability.

4.4.6 Air Sparging

Air sparging is an *in-situ* remedial technology that reduces concentrations of VOCs in petroleum products that are adsorbed to coarse-grained soils and dissolved in groundwater. This technology, which is also known as "*in-situ* air stripping" and "*in-situ* volatilization," involves the injection of contaminant-free air into the subsurface saturated zone, enabling a phase transfer of hydrocarbons from a dissolved state to a vapor phase. The air is then vented through the unsaturated zone. Air sparging is often used together with SVE, but it can also be used with other remedial technologies. When air sparging is combined with SVE, the SVE system creates a negative pressure in the unsaturated zone through a series of extraction wells to control the vapor plume migration.

When used appropriately, air sparging has been found to be effective in reducing concentrations of VOCs found in petroleum products. However, air sparging is generally more applicable to the lighter gasoline constituents (*i.e.*, benzene, ethylbenzene, toluene, and xylene [BTEX]), because they readily transfer from the dissolved to the gaseous phase. Oxygen added to contaminated groundwater as part of air sparging can also enhance biodegradation of BTEX and other VOCs that are amenable to aerobic bioremediation. PCE is not amenable to aerobic bioremediation. Air sparging processes can also mobilize DNAPLs. Based on comparison of detected PCE concentrations in groundwater with the aqueous solubility of PCE, PCE as DNAPL may be present in the subsurface at the Site. As such, the air sparging remedial alternative is not retained for further evaluation based on technical implementability.

4.4.7 Groundwater Extraction

This alternative consists of groundwater collection coupled with vadose zone source remediation as the selected remedial action option to treat affected groundwater at the subject property. Collection of groundwater is conducted as part of pump-and-treat systems. Groundwater is extracted from the subsurface for the purpose of aboveground treatment prior to re-injection, reuse, or discharge. Collection techniques include use of vertical or horizontal extraction wells or interceptor trenches.

It is widely established that contaminated aquifers typically cannot be restored through simple groundwater extraction and treatment (Keely, 1990; Travis and Doty, 1990; and McKay and Cherry, 1989). As such, groundwater extraction is often used as a hydraulic containment technology, as opposed to an aquifer restoration technology. The limitations associated with pump-and-treat methodology include the following:

- Organic contaminants generally have low solubility in groundwater. Therefore, only a small fraction of the total contaminant mass is accessible to the pump-and-treat process.
- Contaminants sorb onto sediments, further restricting their removal by the pump-and-treat process.

- Many pumping systems create stagnation zones or lead to contamination of previously uncontaminated areas.

The limitations associated with pump-and-treat methodology listed above are exacerbated by the possible presence of DNAPL at the Site, which would result in extended remedial timeframes. Based on the foregoing, the groundwater collection alternative is not retained for further evaluation associated with the Site.

4.4.8 *In-Situ* Electro-Thermal Remediation

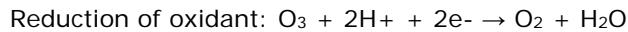
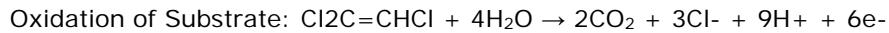
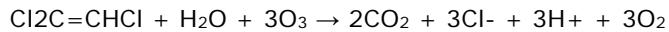
Using an *in-situ* electrical resistance thermal remediation technology, the impacted soil and groundwater in the target area is heated by resistance from an electric current applied between subsurface electrodes. The heating creates an *in-situ* source of steam to strip VOCs from the soil and groundwater as the dissolved constituents partition to the vapor phase. Udell (1996) determined that steam stripping was the mechanism by which subsurface heating removed a wide range of hydrocarbons from pore spaces, including high boiling point compounds. Specific processes include evaporation into the subsurface air stream, and steam distillation (as the treatment zone is heated, each milliliter of soil moisture produces over a liter of steam). Organic vapors tend to partition into the produced steam, and are swept along with the steam toward extraction wells.

The continuous heating also lowers the viscosity of water, and causes pressure-driven micro-fracturing in low permeability soils to increase the effective permeability of the soil; these two processes increase the mobility of the identified CVOCs. The increased contaminant mobility allows for the removal of the CVOCs using soil vapor extraction to a degree that would not be possible in the current condition of the soil. Under some *in-situ* electrical resistance thermal remediation approaches, tap water is injected into the electrodes and drawn to soil vapor extraction wells during the operation, to sustain the presence of beneficial steam.

ERH is an aggressive and relatively costly remediation technology that is best suited for treatment of low permeability sites, as opposed to the moderately-high permeability media associated with the impacted silty sand soil at the Site. Moreover, based on the high infrastructure costs alone associated with this technology (often in excess of \$1,000,000), this remedial action option is not retained for further evaluation for the Site.

4.4.9 *In-Situ* Chemical Oxidation

Remediation of soil and groundwater impacted with contaminants of interest using *in-situ* chemical oxidation (ISCO) involves injecting or mixing oxidants and potentially co-amendments directly into the impacted media. With chemical oxidation, the substrate loses electrons and is oxidized, while the oxidant gains electrons and is reduced:



The oxidant chemicals react with the contaminants, producing innocuous substances such as carbon dioxide, water, and, in the case of chlorinated compounds, inorganic chloride. Chlorinated solvents (ethene and ethanes) are amenable to treatment by ISCO.

Four commonly-used oxidants for soil and groundwater remediation are permanganate, persulfate, peroxide, and ozone. Permanganate oxidants are typically selected for their longer persistence in the subsurface to address relatively low permeability soils, fractures, and sometimes to achieve longer transport periods.

For treatment of contaminated soil and groundwater, oxidants in concentrated solution or solid form can be delivered using hydraulic injection, *in-situ* soil blending, or hydraulic fracturing techniques. The chemical oxidant can be injected as a liquid or slurry into the capillary fringe and water bearing zone.

The two most critical success factors in all ISCO projects are the effective distribution of the reagents in the treatment zone and the reactivity of a particular oxidant with the contamination present. Failure to account for subsurface heterogeneities or preferential flow paths can cause an uneven distribution of the oxidant, resulting in pockets of untreated contaminants. The applied reagents also consume natural organic matter in the soil, some of which has sorbed contamination. As the natural organic matter is consumed, the sorbed contamination will be released. Therefore, when applying liquid oxidants in both the saturated and vadose zone, there is a potential to release contamination to the groundwater. This phenomenon is highly dependent on the transport properties of the soil. The more permeable the soil, the greater chance for release to groundwater because the oxidant has less time for reacting with the contaminants. Desorption of contamination can be considered a benefit for remediation purposes because reactions typically occur in the aqueous phase and more contamination is available for reaction. The remedial design must account for both the sorbed and dissolved-phase contamination for effective site cleanup. An important advantage of ISCO is its relatively high rate of reaction. However, because of the reactivity of the oxidants, there is potential to cause a significant change in both the concentration and distribution of contamination, potentially resulting in large changes in a site's established equilibrium of contaminants between the vapor, liquid, and sorbed phases.

The overall effectiveness of ISCO is primarily dependent on contact with the contaminants. Factors that affect the efficiency, implementability, and costs include injection spacing, hydraulic conductivity, and the ability to inject by direct-push rather than by conventional well drilling techniques. Advantages of using ISCO include *in-situ* treatment (i.e., no treatment equipment to operate and maintain), relatively fast treatment, and potential enhancements to the post-oxidation aerobic microbial environment. Some disadvantages of ISCO are that the natural oxidant demand may be high in some areas and multiple applications may be required. Proper design of a field-scale implementation of ISCO involves evaluation of contaminant concentrations as well as quantitative estimates of other oxidant sinks. In addition to the target contaminants, other possible oxidant sinks include reduced minerals and naturally occurring organic matter. Not all naturally occurring organic matter will be amenable to oxidation, and the level of oxidation of naturally occurring organic matter depends upon the oxidant selected. If all of the oxidant sinks are not properly taken into account, the amount of oxidant that needs to be applied will be underestimated, and it is likely that the ISCO effort will fail.

DNAPL pools, in themselves, cannot be oxidized by chemical oxidants. Chemical oxidation (as well as biodegradation) must occur in the aqueous phase with the process working solely on the "halo" of dissolved constituents surrounding the immiscible-phase contaminants.

Experimental data have shown that if the oxidant can contact the dissolved VOC in the aqueous phase, the VOC will be rapidly destroyed. Similar experiments have shown that small DNAPL droplets in the aqueous phase can also be effectively remediated as the soluble phase is oxidized, driving the equilibrium conditions to solubilize more of the VOC from the DNAPL droplet which is subsequently quickly oxidized (Fam and Kidd, 2005).

Other experimental data indicate that generation of manganese dioxide and carbon dioxide (reaction by-products) presents plugging issues for ISCO application in DNAPL source areas, which can limit treatment efficiencies in terms of total mass destroyed. Localized plugging over time may be sufficient to prevent the efficient delivery of oxidant to the source areas that the oxidant was intended to treat. This entombment of contaminants is due to the generation of manganese dioxide

encrustation at the location of reaction. Because source areas contain the most contaminant, these plugging by-products tend to be co-located at the VOC source areas. In such instances, the resultant oxidant flow regime will no longer contact the most contaminated areas and may lead to flow regimes following paths of least resistance.

As indicated above, oxidants can be delivered using hydraulic injection or *in-situ* soil blending. Injection of oxidants in liquid form through vertical hydraulic probes into shallow heterogeneous vadose zone soils can readily result in preferential transport of oxidant through relatively high permeability zones and short-circuiting of injected oxidant to the ground surface. Both of these outcomes would result in poor oxidant delivery and ineffective soil remediation. Oxidants are often delivered into contaminated soil using *in-situ* soil blending, which serves to increase contact between the oxidant and impacted soil. This approach is most applicable to shallow contamination within the vadose zone (ITRC, 2005).

Hydraulic injection approaches are not effective in delivering oxidant to locations just below ground surface as indicated above. Based on the high detected CVOC concentrations in surficial soil samples previously obtained at the Site, and the high costs associated with soil disposal as discussed in Section 4.4.4, ISCO application using *in-situ* soil blending is retained for further evaluation.

Potassium permanganate would represent an appropriate oxidant for the Site based on its demonstrated effectiveness in treating soil and groundwater impacted with CVOCs. Based on the possible presence of DNAPL at the Site, the total average soil oxidant demand is assumed to range on the order of 10 grams of oxidant per kilogram of soil (g/kg). The actual soil oxidant demand to be applied at the Site would be based on the results of permanganate natural oxidant demand (PNOD) testing.

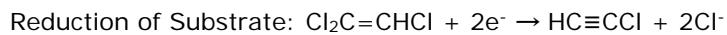
To achieve a 10 g/kg loading rate, the target treatment zone would need to be dosed with approximately 55,000 pounds of oxidant. Using this quantity of oxidant, costs associated with implementation of the ISCO alternative using *in-situ* soil blending are estimated to total approximately \$495,000.

4.4.10 *In-Situ* Enhanced Reductive Dechlorination

A variety of *in-situ* reductive chemical and biological reactions can be induced in a contaminated aquifer to remove CVOCs through enhanced solubilization and desorption. Chemical reduction by amendments such as zero valent iron (ZVI) have the advantage of being able to treat high concentrations of CVOCs while producing limited amounts of intermediates, such as VC. Biological reduction by amendments such as emulsified vegetable oil (EVO) or lactates have the advantage of being able to treat low concentrations of CVOCs. The state of the soil and groundwater remediation practice is evolving, in recognition that combining chemical and biological reduction can function synergistically by creating a reducing environment that thermodynamically promotes biological reductive dechlorination. This combined approach is intended to promote rapid abiotic degradation within the zone of influence, and to also enhance long-term biological dechlorination. Summaries of *in-situ* chemical and biological reduction processes are provided below.

In-Situ Chemical Reduction

In-situ chemical reduction (ISCR) is essentially a mirrored technology of ISCO. Both processes involve the transfer of electrons. With chemical reduction, electrons are transferred from the reductant to the substrate. The substrate gains electrons and is reduced, while the reductant loses electrons and is oxidized (Brown, 2008):





How susceptible a chlorinated solvent is to oxidation or reduction is determined by its chemical structure. In general, solvents with carbon atoms that are electron rich are more susceptible to oxidation; carbon atoms that are electron deficient are more susceptible to reduction. The more chlorines added to a solvent molecule the more oxidized it is and the more resistant it is to further oxidation but the more susceptible to reduction.

ZVI has been employed successfully in low pH environments as a stand-alone remedy to support abiotic VOC degradation. Chemical reduction of the VOCs can occur on the ZVI particle surface, and hydrogen produced during iron corrosion can serve as an electron donor for biological dechlorination. In addition, hydroxyl ions produced from corrosion of ZVI increase pH within the treatment area to levels favorable for dechlorination. This abiotic process is suited to aquifers that have relatively high accumulation of daughter products. β -elimination mechanisms promoted by ZVI would typically not accumulate daughter products, as the degradation pathways bypass the production of cDCE and VC.

In-Situ Biological Reduction

CVOCs can be degraded by anaerobic microbes known as reductive dechlorinators to non-toxic daughter products. Such biodegradation requires reducing conditions to stimulate anaerobic bacteria to dechlorinate the CVOC. The approach is designed to provide a carbon or electron donor source to create reducing conditions necessary to enhance anaerobic biodegradation. Examples of effective electron donors that degrade the chlorinated VOCs when delivered to the subsurface include molasses/water mixture, whey, high fructose corn syrup, or sodium lactate. Such anaerobic bioremediation processes have been successful and well documented at a wide variety of sites, and guidance documents are available that describe the process in detail (AFCEE, 2004).

The anaerobic microbes use CVOCs during dehalorespiration via reductive dechlorination. There are a variety of bacteria that dehalorespire only on PCE or TCE, producing toxic cDCE in the process. In contrast, the dechlorinating microorganisms *Dehalococcoides* (*Dhc*) are the only known microorganisms capable of further dechlorination to non-toxic ethene. Although *Dhc* microorganisms are widely distributed in the environment, research indicates that they are not ubiquitous. If *Dhc* is absent from a site, incomplete dechlorination and accumulation of cDCE is anticipated to occur, or extended acclimation periods will be required to allow low concentrations or poorly distributed *Dhc* populations to achieve functional cell densities. If the results of groundwater monitoring during the course of anaerobic bioremediation indicate insufficient *Dhc* bacterial populations, then the biostimulation is often combined with bioaugmentation using commercially-available microbes.

Under this remedial approach, the microbes sequentially dechlorinate the CVOCs and gain energy in each step, while utilizing the substrate as a carbon source and the CVOC as an electron acceptor. The adapted microbes respire using the CVOCs in place of other electron acceptors such as oxygen. The areas in which substrate is delivered become anaerobic due to the uptake of available electron acceptors to support respiration of the microbes, which provides the environment required for the bioremediation process to take place. This process has been shown to be more effective and less costly than other treatment processes, such as physical removal.

In order to effectively anaerobically bioremediate a particular area, it is critical to:

- Select the optimal chemical additives.
- Properly distribute the chemical and biological additives to stimulate the dechlorination process within the contaminated area.
- Bioaugment (if necessary) the site with dechlorinating microbes.

- Maintain the enhanced subsurface conditions for sufficient time to fully dechlorinate the dissolved and adsorbed CVOCs.

Combined *In-Situ* Chemical and Biological Reduction

Biologically mediated ZVI technology has focused on systems that combine abiotic and biotic reduction. For example, NASA developed emulsified zero valent iron (EZVI) to address DNAPL TCE found at the Cape Canaveral Launch Complex 34, Florida facility (Reinhart et al., 2003). The emulsion of oil, surfactants, water, and either microscale (1 to 10 microns) or nanoscale (<1.0 micron) ZVI is injected into the subsurface in the vicinity of the DNAPL. The DNAPL constituents partition into the oil phase and react with the ZVI, yielding less chlorinated VOCs and the innocuous end-products acetylene, ethene and ethane. The oil coating is designed to protect the ZVI from oxidation, which extends the timeframe that the ZVI remains active. The oil and surfactants are fermented to hydrogen, and the corrosion of the iron with the water also leads to hydrogen formation that can then support biological reductive dechlorination of CVOCs. Several reports have demonstrated the effectiveness of EZVI to destroy DNAPL (Lee, M.D., 2008).

Commercially-available products other than EZVI that cost-effectively combine slow-release carbon amendment with ZVI would be applicable to the Site. Such products would represent appropriate reductants based on their demonstrated effectiveness in treating soil and groundwater impacted with high concentrations of CVOCs.

As with ISCO as discussed in Section 4.4.9, reductants can be delivered using hydraulic injection or *in-situ* soil blending. Hydraulic injection approaches are not effective in delivering reagent to locations just below ground surface as indicated above. Based on the high detected CVOC concentrations in surficial soil samples previously obtained at the Site, and the high costs associated with soil disposal as discussed in Section 4.4.4, application of enhanced reductive dechlorination using *in-situ* soil blending is retained for further evaluation.

The application of approximately 38,000 pounds of ZVI and carbon amendment would be recommended to treat the target CVOC-impacted soil and groundwater. The ZVI content would be equivalent to approximately 0.5% of the weight of the target treatment volume. Using this quantity of reductant, costs associated with implementation of the enhanced reductive dechlorination alternative using *in-situ* soil blending are estimated to total approximately \$358,300.

4.5 Selected Remedial Action

The overall objective for implementing a remedial strategy at the Site is to eliminate soil impacts that threaten human health and the environment and to achieve case closure under NR 726. This can be effectively realized by eliminating the direct contact exposure pathway from accessible surface soil and by addressing persistent subsurface soil contamination to mitigate the soil-to-groundwater exposure pathway. Accordingly, the remedial action selected will accomplish this objective and will result in increased Site value and redevelopment potential.

Based on the evaluation of the various remedial alternatives presented, the selected remedial action determined to be most appropriate for the Site is enhanced reductive dechlorination of unsaturated and saturated soil using a combined *in-situ* chemical and biological reduction approach (ZVI and carbon amendment such as ABC+) that is applied with *in-situ* soil blending methods. This alternative will also be coupled with the natural attenuation monitoring alternative for groundwater to document attainment of the remedial action goals for impacted soil, groundwater, and soil vapor.

Source soil exceeding the remedial action goal of 1,500 ug/kg PCE will be treated to a depth of an average of 9 feet throughout the treatment area, and the treatment depth will be extended to a depth of 11 feet in the area east of soil boring location B9. Source soil treatment will eliminate the

direct contact risk and also aid in improving groundwater quality in the immediate area of treatment. This source soil remediation alternative has a relatively short implementation schedule (approximately seven to fourteen days). This highly aggressive and technically feasible treatment option for the source soil makes this the most economically attractive alternative of those evaluated for treating the source soil and groundwater at the Site.

5. PRE-REMEDIAL SAMPLING RESULTS

This section summarizes the results of pre-remedial soil and groundwater sampling conducted at the Site in September 2016. A vapor assessment for the Former Pugh Oil Building was also completed in September 2016 and is discussed in the following subsections. The pre-remediation sampling activities were completed in accordance with Ramboll Environ's *Health and Safety Plan* (Ramboll Environ, 2016b).

5.1 Pre-Remedial Soil Sampling

Ramboll Environ performed pre-remedial soil sampling to further delineate the extent of PCE impacted soil. The results from the pre-remedial soil samples were used to define the boundaries/volume of soil targeted for remediation and to determine if the volume estimates achieve the remedial objectives based on current data. Ramboll Environ collected the pre-remedial soil samples using a Geoprobe™ at 16 soil boring locations (twelve on the Former Express Cleaners property and four on the adjacent Former Community Gardens site). The locations of the Geoprobe soil borings are illustrated on the attached Figure 3 (shown as B35 through B50). The Geoprobe™ borings were advanced to an average depth of 12 feet bgs at each location, with the exception of soil boring B35 which was completed to 15 feet bgs.

Soil samples for laboratory analysis were collected from pre-determined locations and depth intervals based on the previous soil sampling results and from field screening using a photoionization detector (PID) to obtain the data needed to refine the extent of impacts. Two soil samples from each Geoprobe™ boring were submitted for laboratory analysis for VOCs using United States Environmental Protection Agency (USEPA) method SW-846 8260B. Prior to advancing any borings, all utilities at the Site were marked by a private utility locator and the locations of the Geoprobe™ borings were surveyed. The survey of the boring locations was tied in with the existing soil sample location basemap.

The soil encountered during the pre-remedial soil sampling included sand, sand and gravel, and clay and gravel soil fill to a maximum of 7 feet below ground surface. Silty sand or brown to grey clay was encountered at approximately 6 to 11 feet below ground surface. The soil boring logs are included in Appendix B, Pre-Remediation Soil Boring Logs.

The lateral and vertical extents of PCE impacted soils were delineated based on the pre-remedial soil sampling. The extent of PCE impacted soils is shown on Figure 3. The highest concentrations of PCE were generally detected in the vicinity of the source area surrounding MW-3 and beneath the existing concrete slab, with a maximum detected concentration of 157,000 ug/kg at B-45 (9-10'). In the area downgradient of the source area, three soil samples were collected at soil boring B45 to define CVOC concentrations with depth, and PCE was measured at 110,000 ug/kg (6-8'); 157,000 ug/kg (9-10'); and 622 ug/kg (11-12'). Another area of higher PCE concentrations was identified to the east of monitoring well MW-8, where PCE concentrations of 39,300 ug/kg and 68,000 ug/kg were measured at soil boring B36 (5-7') and B13 (6-8'), respectively.

The pre-remedial soil analytical results were also compared to the site-specific remedial action goals, which were discussed in Section 3.1. The soil analytical results are presented in Table 1. Eight exceedances of the remedial action goal for PCE (1,500 ug/kg) were measured based on the pre-

remedial soil samples. These exceedances were measured in the following samples: B-35 (6-7'); B-36 (6-7'); B-39 (3-5'); B-40 (2-4'); B-40 (9-10'); B-41 (5-7'); B-45 (6-8'); and B-45 (9-10'). The extent of soil PCE impacts are shown on Figure 3. The laboratory analytical data for pre-remediation sampling activities is included Appendix D. These soil analytical results were used to refine the extent of the soil PCE impacts and volume of soil to be remediated, as discussed further in Section 5.4.

5.2 Pre-Remedial Groundwater Sampling

In addition to the collection of pre-remedial soil samples, a round of baseline groundwater monitoring was completed in September 2016. It was critical to conduct a baseline groundwater monitoring event since the existing wells had not been sampled since 2011. As part of this task, all 15 monitoring wells and 1 piezometer were sampled for VOCs (Method 8260). In addition, a YSI multi-parameter meter was used to measure geochemical parameters, including pH, dissolved oxygen, and oxidation-reduction potential. In accordance with the WDNR April 2003 guidance document "Understanding Chlorinated Hydrocarbon Behavior in Groundwater" (WDNR Publication RR-669), monitoring wells MW-3 and MW-8 (near the treatment area) were also sampled for the following natural attenuation parameters: ethene/ethane/methane (Method 8015), dissolved iron (Method 8146), total organic carbon (Method 5310), nitrate+nitrite (Method 353.2), and sulfate (Method 300). Two quality assurance/quality control (QA/QC) duplicate groundwater sample and one QA/QC laboratory trip blank sample were submitted for laboratory analysis of VOCs as part of the baseline groundwater monitoring event.

Based on the pre-remedial groundwater sampling results, the concentration of PCE in groundwater ranged from non-detect to 920 µg/kg. The maximum PCE concentration was detected at monitoring well MW-8. The extent of PCE in groundwater is shown on Figure 4. The groundwater analytical results were compared to the WAC NR 140 Enforcement Standards (ES). For PCE, measured concentrations exceeded the NR140 ES (5 ug/L) at seven monitoring wells (MW-1, MW-2, MW-3, MW-6, MW-8, MW-12, and PZ-1). Exceedances of the WAC NR 140 ES for cDCE (70 ug/L) and TCE (5 ug/L) were also measured in groundwater at the following monitoring wells:

- cDCE: MW-1, MW-3, MW-8, and MW-12; and
- TCE: MW-1, MW-2, MW-3, and MW-8.

The groundwater analytical results are presented in Table 2, and the laboratory analytical data is included in Appendix D.

5.3 Vapor Assessment of Former Pugh Oil Building

A vapor assessment of the former Pugh Oil building located adjacent to the northern property boundary of the N Main Street portion of the Site was also conducted in September 2016. The vapor assessment consisted of the installation of two soil vapor pins in the building floor followed by the collection of two sub-slab soil vapor samples, SS-VP-1 and SS-VP-2. The soil vapor samples were collected using 6-liter Summa canisters and were submitted for laboratory analysis using USEPA Method TO-15.

The vapor analytical results were compared to the Wisconsin sub-slab vapor risk screening levels (VRSLS) for small commercial buildings. TCE was detected in both sub-slab vapor samples below the VRSLS of 290 µg/m³, and cDCE was detected at SS-VP-1 at a concentration of 3 ug/m³. PCE was measured at a concentration of 298 µg/m³ at SS-VP-1 and 6,440 µg/m³ at SS-VP-2. The detected concentration of PCE at SS-VP-2 exceeds the sub-slab VRSLS of 6,000 µg/m³ for small commercial buildings. The vapor analytical results are presented in Table 3, and the laboratory analytical results are included in Appendix D.

5.4 Updated CVOC Mass Estimates

The results from the pre-remedial soil samples were used to define the boundaries/volume of soil targeted for remediation and to refine the impacted soil volume/mass estimates. The updated CVOC mass estimates calculated for the Site are presented in Table 4. Based on the available site information obtained during the pre-remedial soil sampling activities, previous estimates of the CVOC contaminant mass present in site soil and groundwater were updated based on analytical data for 1,2-cis-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), tetrachloroethene (PCE), and trichloroethene (TCE)⁴. As part of this evaluation the area of impacted soil and groundwater were divided into the 12 areas shown on Figure 2 in the *Proposal for Remedial Action Services*, and the average soil and groundwater concentrations and vertical layer thickness were updated from the previous mass estimate. Vertical layers⁵ evaluated included:

1. Soil (vadose) – ranging 2.75 to 5 feet thick⁶ in the areas evaluated;
2. Soil (coarse, saturated) – ranging 4.5 to 5 feet thick at the source area (Source Areas 1 and 2);
3. Soil (clay, saturated) – 1.5 feet thick at the source area (Area 1);
4. Groundwater (coarse saturated) – ranging 1 to 6 feet thick in the areas evaluated; and
5. Groundwater (clay saturated) – ranging 0 to 8.5 feet thick in the areas evaluated.

The updated contaminant mass estimate indicates that approximately 439 pounds of CVOC are present in the areas evaluated, and the primary CVOC site contaminant in soil and groundwater is PCE (98% of total CVOC mass present), with smaller amounts of breakdown products (TCE, cis-1,2-DCE, and trans-1,2-DCE). This evaluation indicates that 99% of the CVOC is present in soil; with 1% present in groundwater, which is consistent with the initial mass estimate.

6. REMEDIAL ACTION DESIGN AND IMPLEMENTATION PLAN

The following sections present the design and implementation plan for the selected enhanced reductive dechlorination remedy for the source area soil and groundwater impacts at the Site. Also included in this section is the groundwater monitoring plan for verifying remedy performance for on- and off-site groundwater.

6.1 Description of Current Site Conditions

The Site located at 3921-3941 N. Main Street occupies approximately 0.77 acres of land within the City of Racine. An adjacent property located to the east of the Site, and also owned by the Ehrlich Family Limited Partnership occupies approximately 0.45 acres of vacant, grass-covered land. The property at 3921-3941 N. Main Street is currently zoned B-2 (Business District - Community Shopping) in the City of Racine. The surrounding area contains a mixture of both residential and commercial/business properties. In 2015, the strip mall building that occupied the Site was razed and the concrete foundation, which is a 6-inch slab-on-grade with strip footings, was left in-place along with the asphalt parking lot and subsurface utilities that serviced the facility (water, sanitary sewer, telephone, natural gas and electric). All subgrade utilities at the Site have been disconnected from their main service lines and are abandoned in-place. Removal of the abandoned utilities,

⁴ Based on the data available, vinyl chloride was only historically detected in groundwater one time at one location (MW3) and was not observed to be present in follow-up groundwater sampling events. Therefore, vinyl chloride was not included in this evaluation.

⁵ Note that Ramboll Environ has interpreted the data to indicate that CVOCs are adhered to soil in the upper saturated zone in Source Area 1 and 2, and as such may be a continuing source of CVOCs to groundwater.

⁶ Average thickness values used for each area evaluated.

building slab, and asphalt parking areas will occur as part of the implementation of the Site remedial activities.

6.2 Pre-Soil Blending Activities

The following sections describe the site administrative and pre-soil blending activities that will be performed in advance of implementing the selected soil and groundwater remedy at the Site. Ramboll Environ has developed a project-specific Health and Safety Plan for the remediation activities to be completed at the Site (Ramboll Environ, 2016c). The plans and specifications for these pre-soil blending activities are included in Appendix A.

6.2.1 Permitting and Waste Profile Approvals

The following permits and waste profile approvals will be obtained prior to implementing the remedial action activities.

Underground Injection Control (UIC) Permit and General Permit for Groundwater Remediation

In accordance with the Wisconsin Pollutant Discharge Elimination System (WPDES) general permit requirements, a temporary exemption for injection in accordance with NR 140.28(5), Wis. Adm. Code and approval to inject remedial materials under s. NR 812.05, will be requested. These permit exemption applications were submitted to the WDNR for review (Ramboll Environ, 2016d).

Waste Profile for Contaminated Material Disposal

A waste profile form will be completed for disposal of non-hazardous contaminated remediation waste (concrete) and excess soil generated during site remediation/soil blending and submitted to Waste Management – Metro Recycling and Disposal Facility, located in Franklin, Wisconsin, for review and approval.

6.2.2 Removal of Existing Building Foundations and Abandoned Utilities

The Former Express Cleaners Site currently contains the concrete footings and a 6-inch concrete slab on-grade for the former one-story building that once consisted of a 6,804 square foot strip mall (without a basement). The building was demolished in 2015 and the immediate area surrounding the strip mall consists of paved parking lots and access drives (Figure 2). In addition, abandoned subsurface utilities that once serviced the strip mall (water, sanitary sewer, natural gas and electric) currently remain in-place in the area designated for remediation and must be removed. The abandoned utilities are presently capped at the property boundary.

In order to implement the selected remedial option, the existing strip mall building foundation, concrete slab and abandoned utilities will be removed prior to conducting the soil remediation activities. Previous investigations conducted at the site indicate that the concrete slab where the dry cleaning processes occurred is contaminated and must be properly managed and disposed. Based on test results from concrete cores collected by a previous consultant, the concrete slab material has concentrations of PCE ranging from 0.033 mg/kg to 0.084 mg/kg. As these concentrations are below the WDNR contained-out concentration of 153 mg/kg and do not exceed the land disposal restriction of 6.0 mg/kg for PCE, it can be concluded that the concrete slab material no longer contains a hazardous waste and can be disposed of as a non-hazardous remediation waste (concrete rubble) at an approved solid waste recycling and disposal facility. The contaminated concrete is currently being permitted for disposal at Waste Management's Metro Recycling and Solid Waste Disposal Facility in Franklin, Wisconsin. The extent of the contaminated remediation waste (concrete slab) identified for disposal at Waste Management's Metro Recycling and Solid Waste Disposal Facility is shown in Figure 5. Because the extent of the concrete strip footings that may be contaminated in the area where the dry cleaning processes occurred has not been verified, Ramboll Environ will sample the concrete footings prior to demolition activities. Three concrete samples will be collected from the

footings and analyzed for VOC and TCLP-VOC. The analytical results will be reviewed and any impacted footing materials found will be managed accordingly.

Removal of the abandoned utilities and the asphalt parking area within the proposed area of remediation will be completed following the removal of the concrete slab and footings and before the implementation of the selected remedy. Details of the locations and the demolition sequencing are provided in Appendix A, Plan Drawings and Specifications.

6.2.3 Soil Erosion and Sediment Control Measures

Prior to implementing the site work, soil erosion and sediment controls measures will be undertaken to prevent runoff, tracking, or loss of soil materials by water or mechanical action from disturbed portions of the Site. The soil erosion and sediment controls will consist of placing silt fence along the perimeter of the Site where drainage of water from high areas toward low areas is expected to occur. In addition, filter fabric or straw bale barriers may be installed at affected non-curbside and curbside catch basins. The remediation contractor will establish and maintain the erosion control features until all earthwork and soil blending is completed and final surface materials have been placed onto work area. Details of the locations and material to be used are provided in Appendix A, Plan Drawings and Specifications.

6.2.4 Security of Work Area

For purposes of securing the work area from bystanders and/or pedestrians walking along North Main Street, a temporary chain link fence will be installed along the Site property boundary to enclose the work area. The location of the temporary chain link fence is detailed in Appendix A, Plan Drawings and Specifications. The temporary chain link fence will be approximately 6 feet high and will contain two gates, one located on the north entrance and on the south entrance to the Former Express Cleaners property. The gates will be locked during non-working hours of the day. The fence will be secured in-place using sand bags that are placed on each of the pole bases. No privacy screening will be included on the temporary fencing. The temporary chain link fence will remain in-place throughout the duration of active soil and groundwater treatment activities. Once the soil blending activities are complete and the site is restored, the remediation contractor will remove the chain link fence.

6.2.5 Monitoring Well Abandonment

Prior to commencement of soil blending activities, existing monitoring wells MW-2 and MW-3 located within the target treatment zone will be abandoned. These monitoring well will be removed using excavating equipment during the removal of the abandoned utilities.

6.3 Implementation of *In-Situ* Enhanced Reductive Dechlorination

6.3.1 Treatment Area Layout and Soil Blending Procedure

The extent of the treatment area and layout for soil blending is shown on Figure 6 and Sheet 5 in Appendix A (Plan Drawings and Specifications). The designated soil blending treatment area will be gridded into 20-foot by 20-foot treatment cells and uploaded into an electronic mapping system, with alphabetical columns and numerical rows which will be based on the surveyed site coordinate system.

In-situ soil blending involves using an *in-situ* blender to effectively distribute chemical amendments throughout the soil medium to treat the contaminants of concern. The *in-situ* blender is a proprietary system that is mounted on a large excavator with a modified diesel engine and hydraulic system. The *in-situ* blender utilizes a 28-inch diameter mixing drum with specially designed "teeth" which rotates at speeds up to 120 revolutions per minute (rpm) with torque in excess of 20,000 foot-pounds. This allows the mixing drum to penetrate all soil types, even backfill materials such as bricks, rebar, and small rocks.

An excavator will work in tandem with the in situ blending equipment. The excavator will be used to excavate soils as needed and to “loosen” the soils prior to blending and ensure that there are no buried items such as boulders, debris, etc., that may damage the blending head. The excavator will also help to manage soil and movement of the chemical amendments as needed.

The in situ blending process will be performed systematically in treatment cells that are approximately 20-feet by 20-feet across the treatment area. The treatment volume for each cell will be further subdivided into two lifts, from 0 to 4.5 feet and from 4.5 to 9 feet bgs. The depth will be verified visually by placing a visible mark on the boom of the excavator and the soil blender. When the target depth has been reached, this mark will be level with ground surface and will allow all field personnel to verify that the required treatment depths have been reached.

When soil blending within a treatment cell, the upper 4.5 feet of soil will be excavated and placed on the adjacent cell within the treatment area. Once the lower lift has been blended with the predetermined quantity of amendment (ABC+), the upper lift will be backfilled and the process repeated with additional ABC+. The purpose of performing the soil blending in lifts is to ensure that the amendments are properly distributed throughout the soil column and to thoroughly mix and homogenize the entire cell. Each cell will be blended independently. Only after a targeted cell/lift has been fully completed will the equipment move to the next cell/lift. The strategy proposed is intended as a guide and is subject to change if field conditions require. This will be left up to the discretion of the operator and field lead. Details of the locations and methods and materials to be used are included in Appendix A, Plan Drawings and Specifications.

6.3.2 Chemical Amendment Mixing and Delivery

The chemical amendment loading rates for each cell and lift will be predetermined. ABC+ will be delivered to the site in two separate components. The liquid portion (ABC+) will be delivered in 330-gallon totes while the ZVI will be delivered in 2,000-pound supersacks. The implementation plan will attempt to design cell dimensions/sizes so that full supersacks of ZVI will be utilized (i.e., Redox Tech will attempt to minimize using partial sacks at cells). This will increase efficiency and ensure proper loading rates are maintained. It is estimated that approximately 38,000 pounds of ZVI and ABC+ will be used to treat the target CVOC-impacted soil and groundwater. The ZVI content will be equivalent to approximately 0.5% of the weight of the target treatment volume.

The super sacks containing ZVI will be moved on site using an off-road forklift. As needed, the sacks will be brought from the staging area to the treatment cell using the excavator. Each sack is equipped with four looped lifting straps (one on each corner) that when pulled upwards, allows for the entire sack to drain under gravity. These loops will be connected to the lifting ring, located on the bottom of the excavator’s bucket. The operator of the excavator will then tilt the sack on its side to allow access to release nylon braided lifting straps located on the underside of the sacks. Once the operator signals the field technician to proceed, the technician will release the straps on the underside of the sack to allow for the chemicals to pour from the sack once lifted. The technician will then leave the exclusion zone (approximately 50 to 75 feet away from the equipment) and signal the operator to proceed. The operator will lift the sack over the treatment cell, emptying the contents of the sack.

The ABC+ solution will be added to the treatment cell as the soil is being blended. The solution will be brought to the work area via 330-gallon totes or via a 550-gallon tank mounted on a flat-bed trailer. As the blender is mixing the soil, a predetermined amount of solution will be transferred from the storage tank to the treatment cell via transfer pumps and hoses. The blender will blend all chemicals throughout the entire lift/cell. The process is deemed complete when the operator has determined that a homogenous mixture has been obtained (based on visual observations and pressure readings on his equipment). Once completed, the equipment will move to the next lift and/or cell and the process repeated until all the material is thoroughly mixed into the lift/cell.

6.3.3 Potable Water Use

During blending, additional water will be added to the treatment cell to assist in the blending process. Water will be obtained from the City of Racine fire hydrant located approximately 100 feet to the west of the blending area (in N. Main Street right-of-way). The remediation contractor will attempt to use as little water as possible (less than 500 gallons per cell) to avoid producing extremely wet conditions. Blending will continue until a homogeneous consistency is attained. The amount of water that is used will be monitored using a meter that will be connected to the piping connected to the hydrant. The City of Racine Water Utility will install a back-flow preventer, meter, and sweeper valve, with chain for safety purposes. The remediation contractor will lock the appurtenances to prevent theft and/or misuse and will insulate the appurtenances to prevent damage caused by freezing at times of non-use during cold weather.

6.3.4 Management of Excess Soil during Soil Blending

The soil blending process, combined with the addition of amendments and water often results in an expansion of soil volume resulting in mounding or soil swell. If this occurs, the excess soils will be moved towards the center of the blending/treatment area by the excavator and tapered towards the edges of the target area. Segregated soil material that is accumulated will be temporarily stored within the "area of contamination" in accordance with all applicable federal and state laws and regulations. Potentially contaminated waste materials will be handled in the same manner as materials that are known to be contaminated.

In the event the amount of swell needs to be further managed or reduced, the excess treated soil material will be placed into lined roll-offs to provide on-site storage prior to receipt of laboratory analytical results needed for disposal off-site at a pre-approved solid waste disposal facility. Prior to disposal, samples will be collected from each roll-off and submitted for laboratory analysis of TCLP-VOC. In addition, the excess blended soil material to be removed from the treatment area may be further amended with a superabsorbent polymer to reduce the water content to acceptable levels to meet the requirements of the landfill prior to off-site disposal. Superabsorbent polymers such as Waste Lock® or CETCO QUIK-SOLID® superabsorbent media would be blended with the excavated soil material as it is loaded into the lined roll-offs. Soil materials derived from the designated impacted areas will be managed in accordance with all applicable federal and state laws and regulations.

6.3.5 Materials Storage Area

The amendments to be used as part of the intended remedial actions (ABC+, ZVI and Superabsorbent) will be stored within the temporary chain link fenced area/secured work zone described in Section 6.2.4. These amendments will be stored in the equipment and material staging area located on the southern portion of the Site. This location will allow delivery trucks access to the storage area without interfering with the soil treatment process, and this location is shown in Appendix A, Plan Drawings and Specifications.

6.3.6 Equipment Decontamination

The soil blander and excavator will be decontaminated by the remediation contractor using potable water and/or a steam cleaner at the completion of the work and before transporting the equipment off-site. Decontamination will be performed in the area above the treatment zone in order to minimize the management and disposal of decontamination rinse water. The rinse water will be allowed to percolate in to the treated soil/blending area. It is anticipated that the volume of decontamination water generated during this process will be minimal.

6.3.7 Ambient Air Monitoring

During implementation of the *in situ* soil blending activities, air quality around the Site must be monitored to ensure that safe conditions are maintained and on-Site workers and the surrounding

community is protected. Therefore, an ambient air monitoring program will be conducted during the soil remediation activities. Air monitoring is also useful in determining the necessary level of worker respiratory protection. Air monitoring can also provide first indication that emissions are elevated, and it gives workers and Site managers an early warning that elevated emissions are present before air quality at the perimeter zone is affected.

6.3.7.1 Air Action Levels

An action level is the measured concentration of a specific contaminant in the air that triggers emission control and/or worker upgrade in respiratory protection. Action levels have been developed for PCE and TCE, the contaminants of interest at the Site.

Work Zone Action Levels: The work zone action levels are based on the Occupational Safety and Health Administration (OSHA) regulations that govern worker safety. The OSHA 8-hour time-weighted average (TWA) permissible exposure limit (PEL) is the air concentration of a specific contaminant that a worker may be exposed to over an eight-hour period without use of a respirator or other equipment.

Although the 8-hour OSHA PEL represents the acceptable level of exposure over an 8-hour period, one-half the PEL will be used as the action level in the work zone during operations at the Site. This provides a level of safety that allows actions to be implemented to control emissions before they represent a hazard to on-Site workers or the surrounding community. The work zone action levels are as follows:

- The OSHA 8-hour TWA PEL for PCE and TCE for workers is 100 ppm. The PCE and TCE action level for the Work Zone that will require an increase in respiratory protection and emission control is one-half the OSHA PEL or 50 ppm measured continuously in the breathing zone for five minutes.

Additional information on the work zone action level is provided in the project-specific *Health and Safety Plan* (Ramboll Environ, 2016c).

Perimeter Zone Action Levels: Standard risk assessment procedures consistent with USEPA guidelines were used to derive action levels for PCE and TCE. The rationale and procedures used to determine the Perimeter Zone Action Levels are included in Appendix C, Documentation of Fenceline Air Action Level for Tetrachloroethene and Trichloroethene. The perimeter zone action levels are as follows:

- PCE: 2.1 mg/m³ (0.31 ppm_v)
- TCE: 0.10 mg/m³ (0.019 ppm_v)

To monitor the concentrations in air during the soil remediation activities, an air monitoring technician will operate a calibrated portable Gasmet DX4040 gas analyzer instrument that utilizes Fourier Transformed Infrared Spectroscopy [FTIR] to measure the concentration of tetrachloroethene and trichloroethene in ambient air. The Gasmet DX4040 can detect concentrations of PCE and TCE as low as 0.030 mg/m³. This instrument can accurately and simultaneously identify and quantify organic compounds present in ambient air in a matter of seconds. Instantaneous readings of specific chemicals are recorded and the FTIR communicates with a handheld PDA that can provide the real-time air concentration on a continuous basis. The data is also stored for later download for reporting purposes if required. During routine operations, an air monitoring technician will monitor the work zone and Site perimeter air quality throughout the soil blending operations.

Perimeter air monitoring will be conducted on the perimeter of the Site (i.e., property boundary) based on receptor location and the most probable wind direction at the time of conducting the

remediation. If the action level at a perimeter location is exceeded or if operations in the work zone require an increase in respiratory protection, actions will be immediately implemented to reduce air emissions and continuous monitoring at a downwind perimeter location will continue until monitoring levels are below the action level. The primary response for reducing air emissions is likely to be the use of vapor suppressant foam that can be applied immediately to the soil blending area by the remediation contractor, as discussed in Section 6.3.8.

6.3.7.2 Protocols and Quality Control Procedures

Work Zone Monitoring: The purpose of monitoring air quality within the work zone is to ensure worker safety and provide an early warning (before air quality at the perimeter zone is affected) that elevated emissions are present. A portable instrument (Gasmet DX4040) will be used to measure the levels of VOCs in the areas where workers are located - generally on the edge of the immediate work zone, around stockpiled material, near mixing operations, etc. The instrument will be operated by trained air monitoring technicians, who will move around the work zone. Additional information on the air monitoring in the work zone is provided in the project-specific *Health and Safety Plan* (Ramboll Environ, 2016c). These monitors will provide the most immediate alert if emissions are becoming elevated.

The air monitoring equipment will be calibrated using manufacturers' guidelines and protocols at the beginning of each work day and the results of each calibration documented in a bound project field log book. All air monitoring measurements will be recorded electronically by the Gasmet DX4040 and will be relayed to the Site Safety Officer and/or Site Operations Manager verbally. At the end of the workday, data from the monitoring instrument will be downloaded into the project database.

During operations, if it is determined that a contaminant-specific action level has been exceeded in the work zone, work will be stopped, the level of personal protective equipment (PPE) for on-Site workers will be upgraded as necessary, and actions will be initiated to reduce volatile air emissions. Continuous perimeter monitoring in a downwind location will be initiated. The *Health and Safety Plan* (Ramboll Environ, 2016c) provides additional information on the required levels of PPE.

Perimeter Zone Monitoring: During routine operations, the air monitoring technician will monitor the air concentration around the property boundary at 30-minute to one-hour intervals using the calibrated portable FTIR described above. As previously noted, exceedance of the perimeter zone action level is unlikely since the air monitoring system is designed to register an exceedance of an action level in the work zone before the perimeter zone is affected.

All measurements will be recorded electronically in the handheld PDA and will be relayed to the Site Safety Officer and/or Site Operations Manager verbally. At the end of the workday, data from the instrument will be downloaded into the project database.

If the air action level at a perimeter location is exceeded or if operations in the work zone require an increase in respiratory protection, actions will be immediately implemented to reduce air emissions and continuous monitoring at a downwind perimeter location will be initiated and continued until air quality is below the established action level.

6.3.8 Vapor Emissions Control Systems

Vapor controls will be provided during soil blending activities to suppress volatile vapors that may be driven off during soil blending. If necessary, a vapor control system consisting of Rusmar® Foam will be used to produce a thick, long-lasting, viscous foam barrier within the blending area for immediate control of VOCs. The foam, if required based on the ambient air-monitoring readings, will be applied during active soil blending activities or for overnight coverage of exposed contaminated soils within the blending area. The foam can supply up to 17 hours of continuous and effective

emission control and is non-hazardous, non-combustible, biodegradable, and safe for Site personnel and the environment.

The foam will be obtained from the manufacturer in 450-pound drums of liquid concentrate and requires dilution with water prior to application (6.5 parts water to 1 part chemical). Each drum of chemical will cover approximately 4,500 square feet. A Rusmar® pneumatic foam unit will be used to apply the foam to the soil blending area. This unit is a completely self-contained and portable foam-generating system and can be mobilized around the Site with a pickup truck. The unit includes an air compressor, pump, hoses, nozzles, a 400-gallon solution storage tank, and freeze protection for use during cold weather. A protective barrier of foam will be applied to the extent of the soil blending area as often as necessary, depending on the real-time ambient air quality data supplied by the ambient air monitoring personnel.

6.3.9 Soil Remediation Verification Sampling

Verification of soil remediation will be conducted through confirmation soil sampling and analysis. To evaluate post-remediation soil conditions, eight hydraulic probes will be installed approximately three months after completion of the *in-situ* enhanced reductive dechlorination remedial action. The hydraulic probes will be installed to depths of an average of 9 feet bgs. The location of the proposed post-remediation verification soil borings are presented on Figure 7.

Two soil samples will be collected from each of the probes, one between 0 to 4 feet bgs and one between 4 and 9 feet bgs, for a total of 16 post-remediation soil samples to be submitted for laboratory analysis of VOCs using USEPA Method 8260. Following soil sample collection, each sample container will be labeled with the sample location identification, date of sample collection and intended analysis. The sample containers will then be packed in an iced, insulated container. A chain-of-custody form will be filled out upon completion and will accompany the container of soil samples to the laboratory. The samples will be transported from the Site to the laboratory via same-day or overnight courier. Laboratory results of soil samples collected prior to commencement of *in-situ* chemical reduction that revealed detectable concentrations of these CVOCs will be compared to the results of soil samples collected after completion of *in-situ* chemical reduction.

The goal of the soil remediation is to reduce the overall soil concentrations to below the remedial action goal of 1,500 ug/kg PCE. This would correlate to a 93% reduction in the maximum documented soil concentration and a 95% overall contaminant mass reduction in source soil. The soil concentration for PCE within the treatment area will be used to evaluate the effectiveness of the remediation and attainment of the remedial action goal. Soil remediation will be considered complete when the concentration of PCE from each of the 16 verification soil samples within the treatment area is below the established soil remedial action goal.

6.3.10 Site Restoration

The primary objective of site restoration will be to re-establish the Site surface to a condition that is acceptable for redevelopment or sale of the property. However, because the soil blending process inherently loosens and reduces the structural stability of the soil, the blended soil may require stabilization and/or specialized foundation design to facilitate site redevelopment on top of the blended area. Fly ash, quicklime, or Portland cement can be added after blending as a stabilizer to sufficiently strengthen the soil to allow for redevelopment. Post-blending soil stabilization of the treated soils is not included in this remedial action plan because of the absence of future building construction plans, location, layout, and foundation requirements needed to specify a soil stabilization method. Therefore, it is assumed that alternate foundation considerations will need to be considered such as piles, floating slabs, piers, etc. for any portions of a new building that would be constructed over the blended soil area. After completion of soil blending and/or removal of excess soil from the treatment area, all uneven surfaces around the treatment area will be prepared

for final restoration. As the soil blending is limited to an average depth of 9 feet below grade, the soil treatment area will be stabilized at the surface by first placing a Geotextile Geonet Geocomposite (TENAX TN 450 or equivalent laminated geonet with geotextile) over the treatment area (approximately 5,658 square feet). Eight inches of No. 2 stone (1½" to 2½"), based on AASHTO Standard Sizes of Processed Aggregate will be placed on the geocomposite, followed with four inches of No. 56 stone (1" to 3/8"). The finished surface of the treatment area will be uniform with the surrounding property elevation and graded to create positive runoff of surface water and prevent erosion of final stone aggregate surface. Additional details on the area of site restoration are included in Appendix A, Plan Drawings and Specifications.

6.4 Implementation of Groundwater Monitoring Program

As part of the overall Site remedial action plan, impacted groundwater downgradient of the source treatment area will be monitored for natural attenuation (MNA). Natural attenuation is defined by the USEPA as "the biodegradation, dispersion, dilution, sorption, volatilization, and/or chemical and biochemical stabilization of contaminants to effectively reduce contaminant toxicity, mobility, or volumes to levels that are protective of human health and the ecosystem" (Brady, et al., 1997). Contaminants present in soil and groundwater are allowed to attenuate via naturally occurring aerobic and anaerobic processes. Natural attenuation processes and rates of contaminant degradation are monitored by changes in contaminant concentration versus time and hydrogeochemical parameters of the affected aquifer. The following sections present the groundwater monitoring program, sampling protocols, monitoring frequency, and data evaluation for the groundwater remediation activities at the Site.

6.4.1 Installation of Additional Monitoring Wells

After completion of the soil blending activities and before implementation of the MNA groundwater monitoring program, the installation of replacement wells at the locations of MW-2 and MW-3 in the soil blending area will be conducted. These wells will serve as replacement wells (MW-2R and MW-3R) and will be constructed with screened intervals similar to those of the existing monitoring wells MW-2 and MW-3. The new monitoring wells will be installed after the soil has had sufficient time to stabilize and support a drill rig. The installation may be initiated approximately four months following completion of the soil blending activities. Ramboll Environ will monitor the stability of the soil and schedule the installation of these monitoring wells at the earliest possible time after the soil remediation is completed.

In addition, one optional off-site groundwater monitoring well (MW-16) may be installed in the general location of the eastern margin of the groundwater plume affecting the North Bay Drive area of the Site at a location satisfactory to WDNR. The monitoring wells will be installed using hollow stem auger drilling methods and will be developed in accordance with WAC NR 141 requirements. A monitoring well construction form for replacement wells MW-2R and MW-3R and for MW-16 (if required) will be provided in the Soil Remediation Completion Report described in Section 7.1.

6.4.2 Monitoring Well Sampling Locations and Frequency

Subsequent to completion of the in-situ chemical reduction process, natural attenuation monitoring will be implemented on a quarterly basis to evaluate and document the progress of groundwater remediation at the Site. Groundwater monitoring will be initiated approximately five months following the completion of the soil remediation to allow for the new well installation and stabilization of the groundwater following *in situ* enhanced reductive dechlorination of the source area. Modification to this monitoring program may be recommended, based on an evaluation of the results received.

A total of eight quarterly groundwater monitoring events will be conducted. As part of this task, seven existing monitoring wells (MW-1, MW-2, MW-6, MW-8, MW-9, MW-12, and MW-15) and the

three new monitoring wells (MW-2R, MW-3R, and MW-16 [if required]) will be sampled for VOCs (Method 8260). Monitoring wells MW-4, MW-5, MW-10, MW-11, MW-13, MW-14, and PZ-1 have historically not revealed notable VOC concentrations, and therefore those seven monitoring wells will not be included as part of the subsequent quarterly monitoring program. However, all 17 wells will be sampled as part of the eighth (and assumed final) quarterly groundwater monitoring event prior to preparation of a Case Closure Request.

6.4.3 Field Parameter Measurements

Field parameter measurements including dissolved oxygen, oxidation-reduction potential (ORP), pH, specific conductivity, and temperature will be measured at the monitoring wells as part of each quarterly groundwater sampling event. These data will be used to assist with the groundwater sample collection to document that groundwater conditions have stabilized prior to sample collection and for continued evaluation of the aquifer conditions. Isopleths of dissolved oxygen and ORP may be plotted and contoured to assist in the remedy performance evaluation and to document the potential area of influence of the *in-situ* enhanced reductive dechlorination process.

6.4.4 Laboratory Analytical Parameters

Monitoring wells MW-3R and MW-8 (near the treatment area) will also be sampled at least once for the following natural attenuation parameters: ethene/ethane/methane (Method 8015), dissolved iron (Method 8146), total organic carbon (Method 5310), nitrate+nitrite (Method 353.2), and sulfate (Method 300). One QA/QC duplicate groundwater sample and one QA/QC laboratory trip blank sample will be submitted for laboratory analysis of VOCs as part of each groundwater monitoring event. All monitoring wells will be sampled for VOCs (Method 8260).

6.4.5 Groundwater Elevation Monitoring

Groundwater elevations will also be collected and documented from the quarterly groundwater monitoring events and will be used to plot equipotential contours of shallow groundwater. The resulting equipotential contours will be used to evaluate hydraulic gradients across the Site, to assist with the estimation of groundwater flow and solute transport analysis.

6.4.6 Data Evaluation and Assessment

To evaluate the progress of groundwater remediation, groundwater concentration trends will be evaluated at each of the groundwater MNA performance monitoring wells. Concentration vs. time graphs for each of the VOCs of interest using the historical and quarterly groundwater sample data will be prepared. The Mann-Kendall Statistical Test for Trends, combined with the Coefficient for Variation Test for Stability on Non-Trending Data, is recommended by the WDNR for evaluating natural attenuation processes and will be conducted as part of this task. A minimum of four rounds of groundwater monitoring data is necessary to complete the Mann-Kendall Statistical Test evaluation. Stable or decreasing CVOC concentration trends represent a primary line of evidence for natural attenuation of groundwater impacts. In addition, groundwater elevation and field-measured parameters will be reviewed to determine groundwater flow gradients across the Site and to evaluate aquifer conditions resulting from the *in-situ* enhanced reductive dechlorination.

6.4.7 Termination of Groundwater Monitoring Program

Groundwater monitoring will continue until it is demonstrated that concentrations of the chemicals of interest are stable or decreasing to the extent that a conditional regulatory case closure under WAC NR 726 is feasible. As residual groundwater concentrations are likely to remain above WAC NR 140 ESs, institutional controls will be employed to satisfy the requirement of conditional closure as a part of the active remedy. The institutional control will consist of listing the Former Express Cleaners property, possibly the Former Pugh Oil property to the north, and the adjacent property to the east on the WDNR GIS Registry.

7. REPORTING

7.1 Preparation of a Soil Remedial Action Completion Report

Pursuant to WAC NR 724.15, a Soil Remedial Action Completion Report will be prepared after completion of the soil remedial actions, which will include the following information: a summary of the remedial action and documentation that the design was carried out in accordance with the Remedial Action Plan and specifications; an explanation of any minor changes to the technical approach and the rationale for those changes; the results from the soil remediation verification sampling; and a comparison of the public health and environmental standards applicable to any residual contamination.

7.2 Groundwater Monitoring Reports

Ramboll Environ will submit groundwater monitoring reports to the WDNR on an annual basis after the implementation of the monitoring program. These monitoring reports will summarize the methodology and results of the monitoring activities described above to document the progress of groundwater remediation. The reports will present the laboratory analytical data, water level elevation, and field parameters in tabular format and the statistical contaminant trend analysis graphs with the calculated trend line slope and estimated rate of change in contaminant concentrations at selected downgradient monitoring wells. The report will include groundwater contour maps and figures illustrating the contaminant distribution in groundwater for the contaminants of interest. In addition, the report will provide recommendations regarding any proposed changes to the monitoring program.

7.3 Site Closure Report

After completion of the soil and groundwater remedial activities and groundwater monitoring results document that the groundwater plume remains stable and/or is receding, a site closure package will be prepared and submitted for WDNR approval in accordance with WAC NR 726. Institutional controls will be implemented, as necessary, as part of case closure. Institution controls will consist of recording the Site and any adjacent properties affected by the residual CVOC impacts to be recorded on the WDNR GIS database for closed remediation sites.

The groundwater monitoring data will be continuously evaluated to determine when the plume has become stable. If constituent concentrations remain stable or decrease after eight quarters of monitoring, a request for closure will be submitted in accordance with WAC NR 726. The necessity for these institutional controls will be based on the effectiveness of the recommended remediation measures. The closure package will include the applicable GIS Registry information required for a conditional site closure, as appropriate. After final closure is granted by the WDNR, the groundwater monitoring wells will be abandoned in accordance with WAC NR 141.

8. IMPLEMENTATION SCHEDULE

A schedule that includes the major remedial activities, milestones, and phases for the project is presented in Figure 8. The quarterly groundwater monitoring program will begin approximately five months after source area remediation activities are completed. Groundwater monitoring results and annual report will submitted approximately one to two months following completion of the fourth quarterly groundwater monitoring event.

9. REFERENCES

- Air Force Center for Environmental Excellence (AFCEE), 2004. "Principles and Practices of Enhanced Anaerobic Bioremediation of Chlorinated Solvents." Environmental Security Technology Certification Program, Arlington, Virginia.
- Brown, Richard A., 2008. "Developments in *In-Situ* Chemical Reduction (ISCR) Technology," Proceedings of the Sixth International Conference on Remediation of Chlorinated and Recalcitrant Compounds. Battelle ISBN 1-57477-163-9.
- Fam, S. and D. Kidd, 2005. "Chemical Oxidation or Enhanced Anaerobic Dechlorination – A Science-Based Decision," Battelle Press.
- ITRC (Interstate Technology & Regulatory Council), 2005. Technical and Regulatory Guidance for In Situ Chemical Oxidation of Contaminated Soil and Groundwater, 2nd ed. ISCO-2. Washington, D.C.: Interstate Technology & Regulatory Council, In Situ Chemical Oxidation Team. Available on the Internet at <http://www.itrcweb.org>.
- Keely, J.F., October 1990. "Performance Evaluation of Pump-and-Treat Remediations," EPA/540/4-89/005.
- Mackay, D.M. and Cherry, J.A., 1989. "Groundwater Contamination: Pump-and-Treat Remediation," Environmental Science & Technology, Vol. 23, No. 6, pp. 630.
- Lee, M.D., 2008. "Treatability Studies Using EZVI and Bioaugmentation for Dissolved Phase and DNAPL Chlorinated Solvents," Proceedings of the Sixth International Conference on Remediation of Chlorinated and Recalcitrant Compounds. Battelle ISBN 1-57477-163-9.
- Ramboll Environ, 2016a. Proposal for Remedial Action Services, Former express Cleaners Site, Racine, Wisconsin, BRRTS #02-52-547631, FID #252010000. August 30.
- Ramboll Environ, 2016b. *Health and Safety Plan for Pre-Remedial Sampling Activities at the Former Express Cleaners Property*.
- Ramboll Environ, 2016c. *Health and Safety Plan for Remedial Action Plan at the Former Express Cleaners Property*.
- Ramboll Environ, 2016d. *Infiltration Approval Request, Former Express Cleaners Site, 3921-3941 N. Main Street, Racine, Wisconsin. BRRTS NO. 02-52-547631, FID No. 252010000. September*.
- Reinhart, D.R., C. Clausen, C.L. Geiger, J. Quinn, and K. Brooks, 2003. U.S. Patent 6,664,298 B1. Zero-Valent Metal Emulsion for Reductive Dehalogenation of DNAPLs.
- Travis, C.C. and Doty, C.B., 1990. "Can Contaminated Aquifers at Superfund Sites be Remediated?" Environmental Science & Technology, Vol. 24, No. 10, pp. 1465.
- Trotta, L.C. and R.D. Cotter, 1973. "Depth to Bedrock in Wisconsin. "Madison, WI: Geological and Natural History, University of Wisconsin. 1 map (1:1,000,000)."
- Udell, K.S., 1996. Heat and mass transfer in clean-up of underground toxic wastes. In Annual Reviews of Heat Transfer, vol. 7, ed. C.-L. Tien. 333–405. New York/Wallingford, UK: Begell House, Inc.

TABLES

Table 1: Pre-Remediation Soil Analytical Results
Former Express Cleaners Site
Racine, Wisconsin
Ramboll Environ Project No. 21-41301A

Parameters	Soil RCLs			B-35 (6-7')	B-35 (9-10')	B-35 (12-13')	B-36 (6-7')	B-36 (9-10')	B-37 (2-4')	B-37 (6-8')	B-37 (9-10')	B-38 (2-4')	B-38 (6-8')
	Non-Industrial Direct Contact	Industrial Direct Contact	Groundwater Pathway										
VOCs (µg/kg)													
cis-1,2-Dichloroethene ¹	156,000	2,040,000	41.2	122	33.0 J	<25.5	166 J	<25.0	<25.0	39.1 J	101	<25.0	<25.0
Styrene ²	867,000	867,000	220	<25.5	<25.0	<25.5	<125	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Tetrachloroethene ¹	30,700	153,000	4.54	3,020	<25.0	<25.5	39,300	<25.0	143	567	<25.0	79.4	<25.0
Trichloroethene ¹	1,260	8,810	3.6	842	<25.0	<25.5	344 J	<25.0	<25.0	115	<25.0	<25.0	<25.0

Notes:

VOCs = Volatile Organic Compounds

RCL = Residual Contaminant Level

µg/kg = micrograms per kilogram

Soil analytical results are displayed only for the detected VOCs.

¹ Soil analytical results for cis-1,2-Dichloroethene, tetrachloroethene and trichloroethene were compared to the following site-specific remedial goals:

Tetrachloroethene: 1,500 µg/kg

Trichloroethene: 1,260 µg/kg

cis-1,2-Dichloroethene: 156,000 µg/kg

Vinyl chloride: 67 µg/kg

² No site-specific remedial goals were established for styrene. Styrene was not detected at concentrations greater than the established soil RCLs.

Bold value indicates exceedance of site-specific remedial goal.

Soil RCLs established by the WDNR RR program using the EPA's RSL web-calculator with WAC NR 720 default parameters (WDNR PUB-RR-890, June 2014 - updated RCL spreadsheet dated June 2016).

Table 1: Pre-Remediation Soil Analytical Results
Former Express Cleaners Site
Racine, Wisconsin
Ramboll Environ Project No. 21-41301A

Parameters	Soil RCLs			B-39 (3-5')	B-39 (9-10')	B-40 (2-4')	B-40 (6-8')	B-40 (9-10')	B-41 (5-7')	B-41 (9-10')	B-42 (2-4')	B-42 (6-8')
	Non-Industrial Direct Contact	Industrial Direct Contact	Groundwater Pathway									
VOCs ($\mu\text{g}/\text{kg}$)												
cis-1,2-Dichloroethene ¹	156,000	2,040,000	41.2	<25.0	<25.0	<25.3	<217	<25.0	<25.5	<26.0	<25.0	<25.0
Styrene ²	867,000	867,000	220	<25.0	<25.0	<25.3	<217	<25.0	<25.5	<26.0	<25.0	<25.0
Tetrachloroethene ¹	30,700	153,000	4.54	2,070	<25.0	1,530	44,200	127	2,860	<26.0	33.1 J	<25.0
Trichloroethene ¹	1,260	8,810	3.6	<25.0	<25.0	<25.3	299 J	<25.0	<25.5	<26.0	<25.0	<25.0

Notes:

VOCs = Volatile Organic Compounds

RCL = Residual Contaminant Level

$\mu\text{g}/\text{kg}$ = micrograms per kilogram

Soil analytical results are displayed only for the detected VOCs.

¹ Soil analytical results for cis-1,2-Dichloroethene, tetrachloroethene and trichloroethene were compared to the following site-specific remedial goals:

Tetrachloroethene: 1,500 $\mu\text{g}/\text{kg}$

Trichloroethene: 1,260 $\mu\text{g}/\text{kg}$

cis-1,2-Dichloroethene: 156,000 $\mu\text{g}/\text{kg}$

Vinyl chloride: 67 $\mu\text{g}/\text{kg}$

² No site-specific remedial goals were established for styrene. Styrene was not detected at concentrations greater than the established soil RCLs.

Bold value indicates exceedance of site-specific remedial goal.

Soil RCLs established by the WDNR RR program using the EPA's RSL web-calculator with WAC NR 720 default parameters (WDNR PUB-RR-890, June 2014 - updated RCL spreadsheet dated June 2016).

Table 1: Pre-Remediation Soil Analytical Results
Former Express Cleaners Site
Racine, Wisconsin
Ramboll Environ Project No. 21-41301A

Parameters	Soil RCLs			B-43 (2-4')	B-43 (6-8')	B-43 (9-10')	B-44 (8-10')	B-45 (6-8')	B-45 (9-10')	B-45 (11-12')	B-46 (2-4')	B-46 (6-8')	B-46 (9-10')
	Non-Industrial Direct Contact	Industrial Direct Contact	Groundwater Pathway										
VOCs ($\mu\text{g}/\text{kg}$)													
cis-1,2-Dichloroethene ¹	156,000	2,040,000	41.2	<25.0	187 J	<25.0	<26.9	<500	<500	<25.0	<25.5	<25.0	<25.0
Styrene ²	867,000	867,000	220	<25.0	<25.0	<25.0	<26.9	<500	<500	<25.0	<25.5	<25.0	<25.0
Tetrachloroethene ¹	30,700	153,000	4.54	800	161 J	<25.0	<26.9	110,000	157,000	622	352	<25.0	<25.0
Trichloroethene ¹	1,260	8,810	3.6	<25.0	<25.0	<25.0	<26.9	871 J	<500	<25.0	<25.5	<25.0	<25.0

Notes:

VOCs = Volatile Organic Compounds

RCL = Residual Contaminant Level

$\mu\text{g}/\text{kg}$ = micrograms per kilogram

Soil analytical results are displayed only for the detected VOCs.

¹ Soil analytical results for cis-1,2-Dichloroethene, tetrachloroethene and trichloroethene were compared to the following site-specific remedial goals:

Tetrachloroethene: 1,500 $\mu\text{g}/\text{kg}$

Trichloroethene: 1,260 $\mu\text{g}/\text{kg}$

cis-1,2-Dichloroethene: 156,000 $\mu\text{g}/\text{kg}$

Vinyl chloride: 67 $\mu\text{g}/\text{kg}$

² No site-specific remedial goals were established for styrene. Styrene was not detected at concentrations greater than the established soil RCLs.

Bold value indicates exceedance of site-specific remedial goal.

Soil RCLs established by the WDNR RR program using the EPA's RSL web-calculator with WAC NR 720 default parameters (WDNR PUB-RR-890, June 2014 - updated RCL spreadsheet dated June 2016).

Table 1: Pre-Remediation Soil Analytical Results
Former Express Cleaners Site
Racine, Wisconsin
Ramboll Environ Project No. 21-41301A

Parameters	Soil RCLs			B-47 (1-2')	B-47 (5-7')	B-48 (1-2')	B-48 (5-7')	B-49 (1-2')	B-49 (5-7')	B-50 (1-2')	B-50 (5-7')
	Non-Industrial Direct Contact	Industrial Direct Contact	Groundwater Pathway								
VOCs (µg/kg)											
cis-1,2-Dichloroethene ¹	156,000	2,040,000	41.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Styrene ²	867,000	867,000	220	<25.0	<25.0	<25.0	114	<25.0	<25.0	<25.0	<25.0
Tetrachloroethene ¹	30,700	153,000	4.54	<25.0	<25.0	174	<25.0	<25.0	<25.0	<25.0	<25.0
Trichloroethene ¹	1,260	8,810	3.6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0

Notes:

VOCs = Volatile Organic Compounds

RCL = Residual Contaminant Level

µg/kg = micrograms per kilogram

Soil analytical results are displayed only for the detected VOCs.

¹ Soil analytical results for cis-1,2-Dichloroethene, tetrachloroethene and trichloroethene were compared to the following site-specific remedial goals:

Tetrachloroethene: 1,500 ug/kg

Trichloroethene: 1,260 ug/kg

cis-1,2-Dichloroethene: 156,000 ug/kg

Vinyl chloride: 67 ug/kg

² No site-specific remedial goals were established for styrene. Styrene was not detected at concentrations greater than the established soil RCLs.

Bold value indicates exceedance of site-specific remedial goal.

Soil RCLs established by the WDNR RR program using the EPA's RSL web-calculator with WAC NR 720 default parameters (WDNR PUB-RR-890, June 2014 - updated RCL spreadsheet dated June 2016).

Table 2: Pre-Remediation Groundwater Analytical Results
Former Express Cleaners Site
Racine, Wisconsin
Ramboll Environ Project No. 21-41301A

Parameters	NR 140 Standards		MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9
	ES	PAL	09/15/2016	09/14/2016	09/15/2016	09/14/2016	09/15/2016	09/15/2016	09/15/2016	09/15/2016	09/14/2016
VOCs (µg/L)											
Chloromethane	30	3	<1.0	0.52 J	<5.0	<0.50	<0.50	<0.50	1.0	<5.0	<0.50
cis-1,2-Dichloroethene	70	7	96.3	29.7	175	<0.26	<0.26	4.5	<0.26	71.4	<0.26
trans-1,2-Dichloroethene	100	20	5.1	1.6	9.4 J	<0.26	<0.26	0.53 J	<0.26	4.9 J	<0.26
Tetrachloroethene	5	0.5	193	47.1	437	<0.50	<0.50	7.8	<0.50	920	0.88 J
Trichloroethene	5	0.5	15.5	14.0	34.5	<0.33	<0.33	2.9	<0.33	39.9	<0.33

Notes:

VOCs = Volatile Organic Compounds

µg/L = micrograms per Liter

ES = Enforcement Standard

PAL = Preventive Action Limit

Groundwater analytical results are shown only for detected VOCs.

Bold value indicates exceedance of NR 140 ES.

J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Table 2: Pre-Remediation Groundwater Analytical Results
Former Express Cleaners Site
Racine, Wisconsin
Ramboll Environ Project No. 21-41301A

Parameters	NR 140 Standards		MW-10	MW-11	MW-11 DUP	MW-12	MW-13	MW-14	MW-14 DUP	MW-15	PZ-1
	ES	PAL	09/15/2016	09/15/2016	09/15/2016	09/15/2016	09/15/2016	09/14/2016	09/14/2016	09/14/2016	09/15/2016
VOCs (µg/L)											
Chloromethane	30	3	0.79 J	0.57 J	<0.50	0.58 J	0.77 J	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	70	7	<0.26	<0.26	<0.26	92.8	4.7	<0.26	<0.26	<0.26	<0.26
trans-1,2-Dichloroethene	100	20	<0.26	<0.26	<0.26	5.0	0.56 J	<0.26	<0.26	<0.26	<0.26
Tetrachloroethene	5	0.5	<0.50	<0.50	<0.50	25.7	<0.50	<0.50	<0.50	<0.50	5.7
Trichloroethene	5	0.5	<0.33	<0.33	<0.33	2.5	<0.33	<0.33	<0.33	<0.33	<0.33

Notes:

VOCs = Volatile Organic Compounds

µg/L = micrograms per Liter

ES = Enforcement Standard

PAL = Preventive Action Limit

Groundwater analytical results are shown only for detected VOCs.

Bold value indicates exceedance of NR 140 ES.

J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Table 3: Former Pugh Oil Building Sub-Slab Vapor Sample Results
Former Express Cleaners Site
Racine, Wisconsin
Ramboll Environ Project No. 21-41301A

VOCs ($\mu\text{g}/\text{m}^3$)	Wisconsin Sub-Slab Vapor Risk Screening Levels ($\mu\text{g}/\text{m}^3$) ¹			SS-VP-1	SS-VP-2
	Residential (AF = 0.03)	Small Commercial (AF = 0.03)	Large Commercial/ Industrial (AF = 0.01)		
cis-1,2-Dichloroethene	--	--	--	3.0	<0.40
trans-1,2-Dichloroethene	--	--	--	<0.60	<0.62
Tetrachloroethene	1,400	6,000	18,000	298	6440 A, B
Trichloroethene	70	290	880	11.1	3.2
Vinyl chloride	57	930	2800	<0.30	<0.31

Notes:

$\mu\text{g}/\text{m}^3$ = Microgram per cubic meter

¹ Wisconsin Vapor Risk Screening Levels based on May 2016 USEPA Regional Screening Level Tables

-- No RSL established.

Bold = Exceeds Wisconsin Screening Level

A = Exceeds Wisconsin Residential Sub-Slab Vapor Risk Screening Level

B = Exceeds Wisconsin Small Commercial Sub-Slab Vapor Risk Screening Level

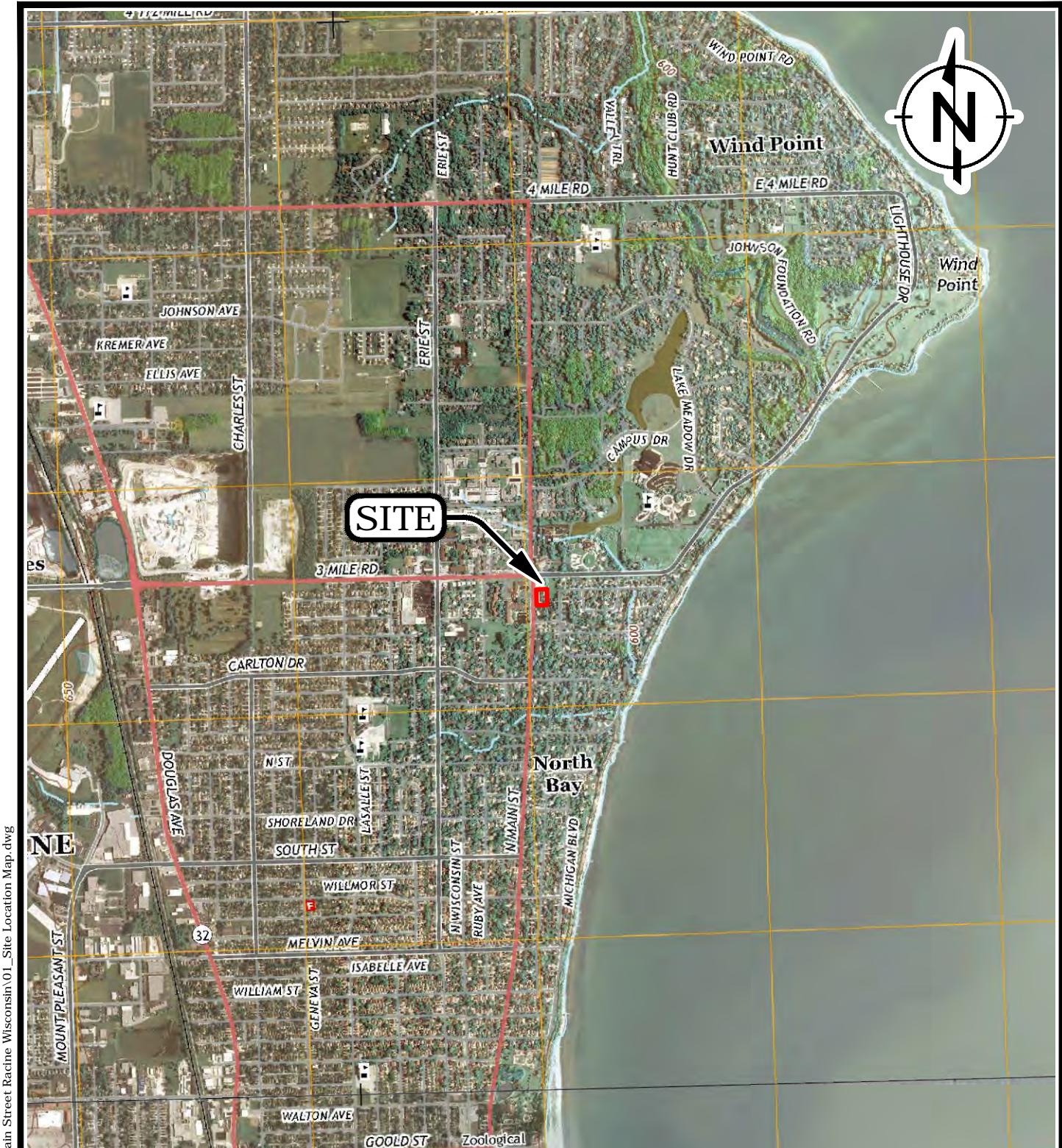
C = Exceeds Wisconsin Large Commercial/Industrial Sub-Slab Vapor Risk Screening Level

J = Estimated concentration at or above the LOD and below the LOQ.

Table 4: CVOC Mass Estimates
Former Express Cleaners Site
Racine, Wisconsin
Ramboll Environ Project No. 21-41301A

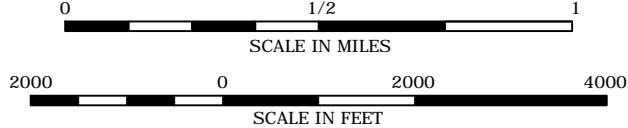
Zone	Area Designations	Area (sq ft)	Vertical Zone	cis 1,2 DCE (lbs)	trans 1,2 DCE (lbs)	PCE (lbs)	TCE (lbs)	Subtotal (lbs)	Percent of Total CVOC
Primary Source	1, 2	2,179	Soil - Vadose Zone	2.735	0.745	139.789	2.012	145.28	33.1%
			Soil (Coarse, Saturated)	0.174	0.003	107.035	0.496	107.71	24.5%
			Soil (Clay, Saturated)	0.001	0.001	18.783	0.082	18.87	4.3%
			Groundwater (Coarse saturated)	0.034	0.002	0.086	0.007	0.13	0.0%
			Groundwater (Clay saturated)	0.070	0.004	0.174	0.014	0.26	0.1%
Downgradient of Source	4, 5	4,801	Soil - Vadose Zone	0.027	0.027	1.245	0.027	1.33	0.3%
			Soil (Coarse, Saturated)	0.017	0.017	41.499	0.535	42.07	9.6%
			Groundwater (Coarse saturated)	0.017	0.001	0.210	0.009	0.24	0.1%
			Groundwater (Clay saturated)	0.029	0.002	0.378	0.016	0.43	0.1%
Plume Adjacent to Source	3	802	Soil - Vadose Zone	0.019	0.004	1.575	0.015	1.61	0.4%
			Groundwater (Coarse saturated)	0.084	0.002	0.398	0.011	0.49	0.1%
			Groundwater (Clay saturated)	0.135	0.003	0.637	0.017	0.79	0.2%
Migrated Plume	6, 7, 8, 9, 10, 11, 12	8,227	Soil - Vadose Zone	0.122	0.122	9.019	0.130	9.39	2.1%
			Soil (Coarse, Saturated)	0.210	0.210	109.225	0.459	110.10	25.1%
			Groundwater (Coarse saturated)	0.033	0.002	0.022	0.002	0.06	0.01%
			Groundwater (Clay saturated)	0.012	0.001	0.021	0.002	0.04	0.01%
Proposed Treatment Area	Portions of 1, 2, 3, 4, 6, 7, 8, 9	5,708	Soil - Vadose Zone	2.829	0.815	139.620	2.033	145.30	33.1%
			Soil (Coarse, Saturated)	0.185	0.027	141.157	0.972	142.34	32.4%
			Soil (Clay, Saturated)	0.001	0.001	17.672	0.077	17.75	4.0%
			Groundwater (Coarse saturated)	0.116	0.005	0.740	0.029	0.89	0.2%
			Groundwater (Clay saturated)	0.191	0.009	1.251	0.050	1.50	0.3%
Total Site	All Areas	16,009	Soil - Vadose Zone	2.903	0.897	151.627	2.184	157.61	35.9%
			Soil (Coarse, Saturated)	0.400	0.229	257.760	1.491	259.88	59.2%
			Soil (Clay, Saturated)	0.001	0.001	18.783	0.082	18.87	4.3%
			Groundwater (Coarse saturated)	0.168	0.006	0.716	0.029	0.92	0.2%
			Groundwater (Clay saturated)	0.246	0.009	1.209	0.050	1.51	0.3%
Summary Total				3.72	1.14	430.10	3.83	438.8	

FIGURES



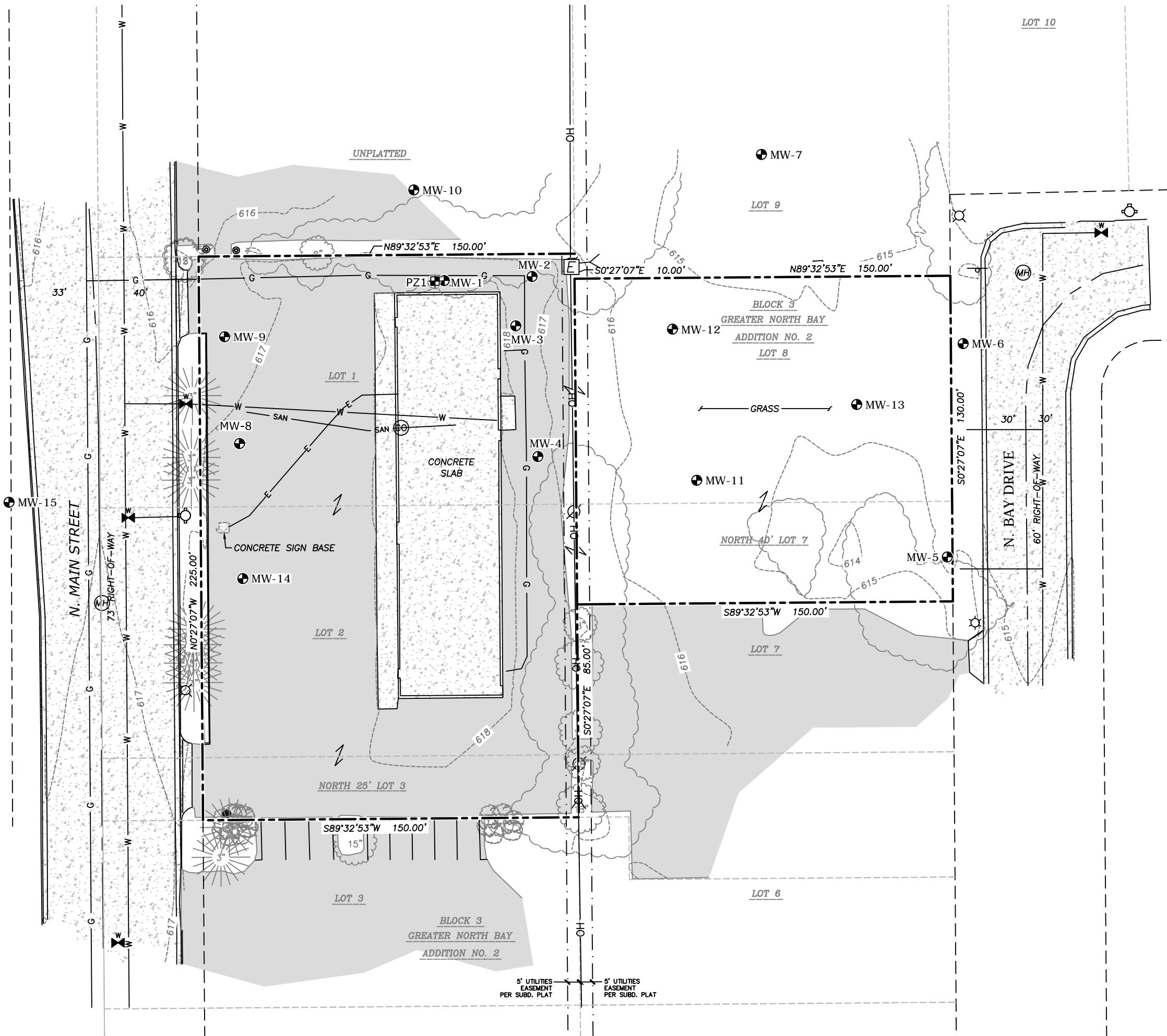
LEGEND:

PROPERTY BOUNDARY
(APPROXIMATE)



QUADRANGLE LOCATION

Source: USGS 7.5 minute series (topographic)
Quadrangle: Racine North, Wisconsin (2013), Racine South, Wisconsin (2013).



LEGEND

- | | |
|-----|---------------------------|
| | PROPERTY BOUNDARY |
| | EXISTING MONITORING WELL |
| | PIEZOMETER |
| | HYDRANT |
| | WATER VALVE |
| | MANHOLE - UNVERIFIED TYPE |
| | ELECTRIC PEDESTAL |
| | LIGHT POLE |
| | POWER POLE W/GUY |
| | YARD LIGHT |
| | DECIDUOUS TREE |
| | CONIFEROUS TREE |
| | BUSH |
| | PLATTED LOT LINE |
| | EASEMENT LINE |
| | CENTERLINE |
| | RIGHT-OF-WAY LINE |
| G | NATURAL GAS |
| W | WATER LINE |
| OH | OVERHEAD LINE |
| SAN | SANITARY SEWER |
| | BITUMINOUS PAVEMENT |
| | CONCRETE PAVEMENT |

LEGAL DESCRIPTION

*ALL OF LOTS 1 AND 2, THE NORTH 25 FEET OF
LOT 3, THE NORTH 40 FEET OF LOT 7, AND ALL
OF LOT 8, GREATER NORTH BAY ADDITION NO. 2.*

*TAX KEY NOS: 276-00-00-04-690-001 AND
276-00-00-04-690-024.*

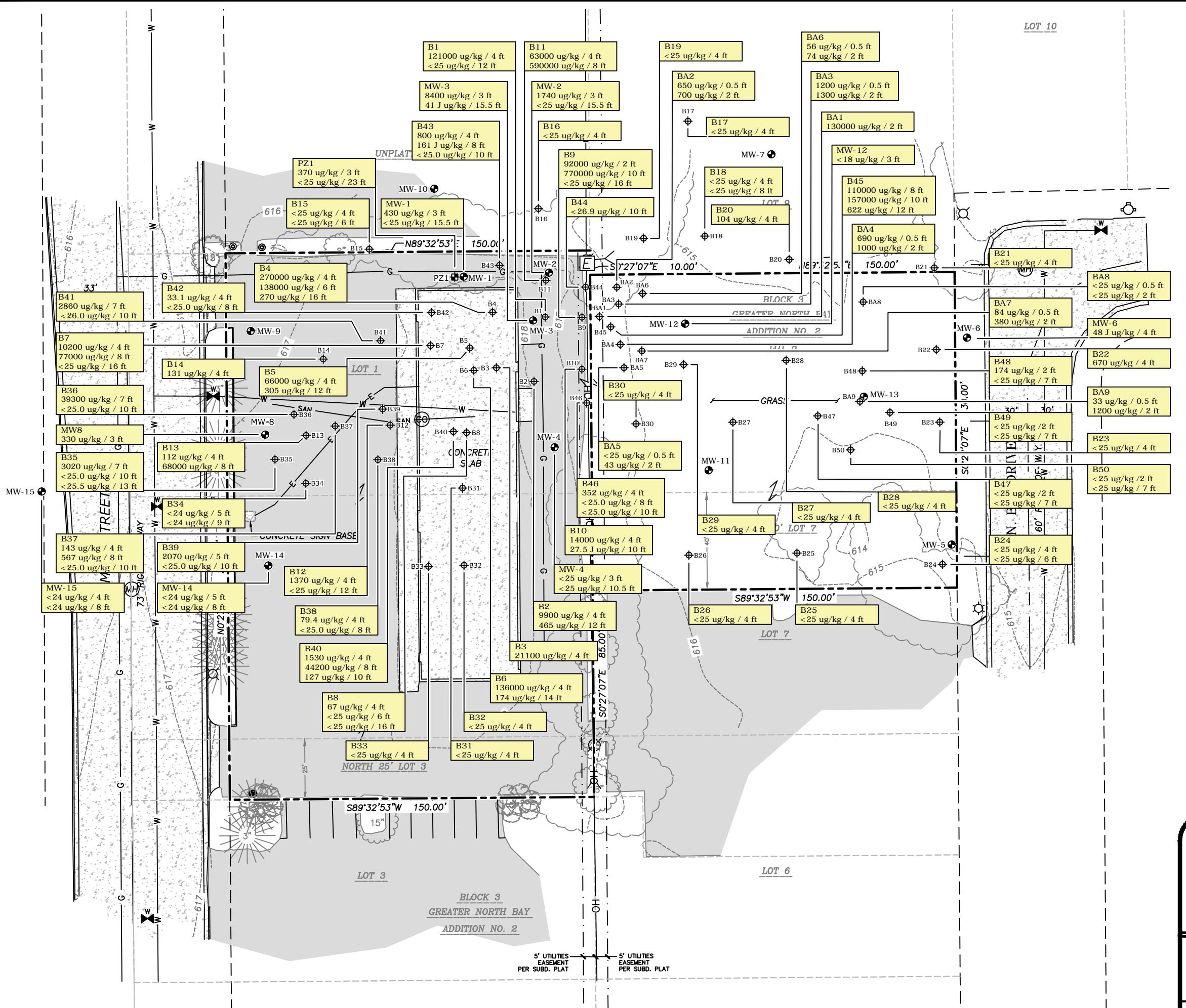


SITE PLAN

ER EXPRESS CLEANERS ACINE, WISCONSIN

AMBOLL ENVIRON

FIGURE 2



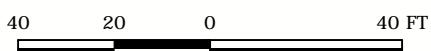
LEGEND

- | PROPERTY BOUNDARY | |
|---------------------------------|---------------------------|
| | EXISTING MONITORING WELL |
| | PIEZOMETER |
| | HYDRANT |
| | WATER VALVE |
| | MANHOLE - UNVERIFIED TYPE |
| | ELECTRIC PEDESTAL |
| | LIGHT POLE |
| | POWER POLE W/GUY |
| | YARD LIGHT |
| | DECIDUOUS TREE |
| | CONIFEROUS TREE |
| | BUSH |
|
- - - - - PLATTED LOT LINE | |
|
- - - - - EASEMENT LINE | |
|
- - - - - CENTERLINE | |
|
- - - - - RIGHT-OF-WAY LINE | |
| G - - - - | NATURAL GAS |
| W - - - - | WATER LINE |
| OH - - - - | OVERHEAD LINE |
| SAN - - - - | SANITARY SEWER |
| | BITUMINOUS PAVEMENT |
| | CONCRETE PAVEMENT |

LEGAL DESCRIPTION

*ALL OF LOTS 1 AND 2, THE NORTH 25 FEET OF
LOT 3, THE NORTH 40 FEET OF LOT 7, AND ALL
OF LOT 8, GREATER NORTH BAY ADDITION NO. 2.*

TAX KEY NOS: 276-00-00-04-690-001 AND
276-00-00-04-690-024.

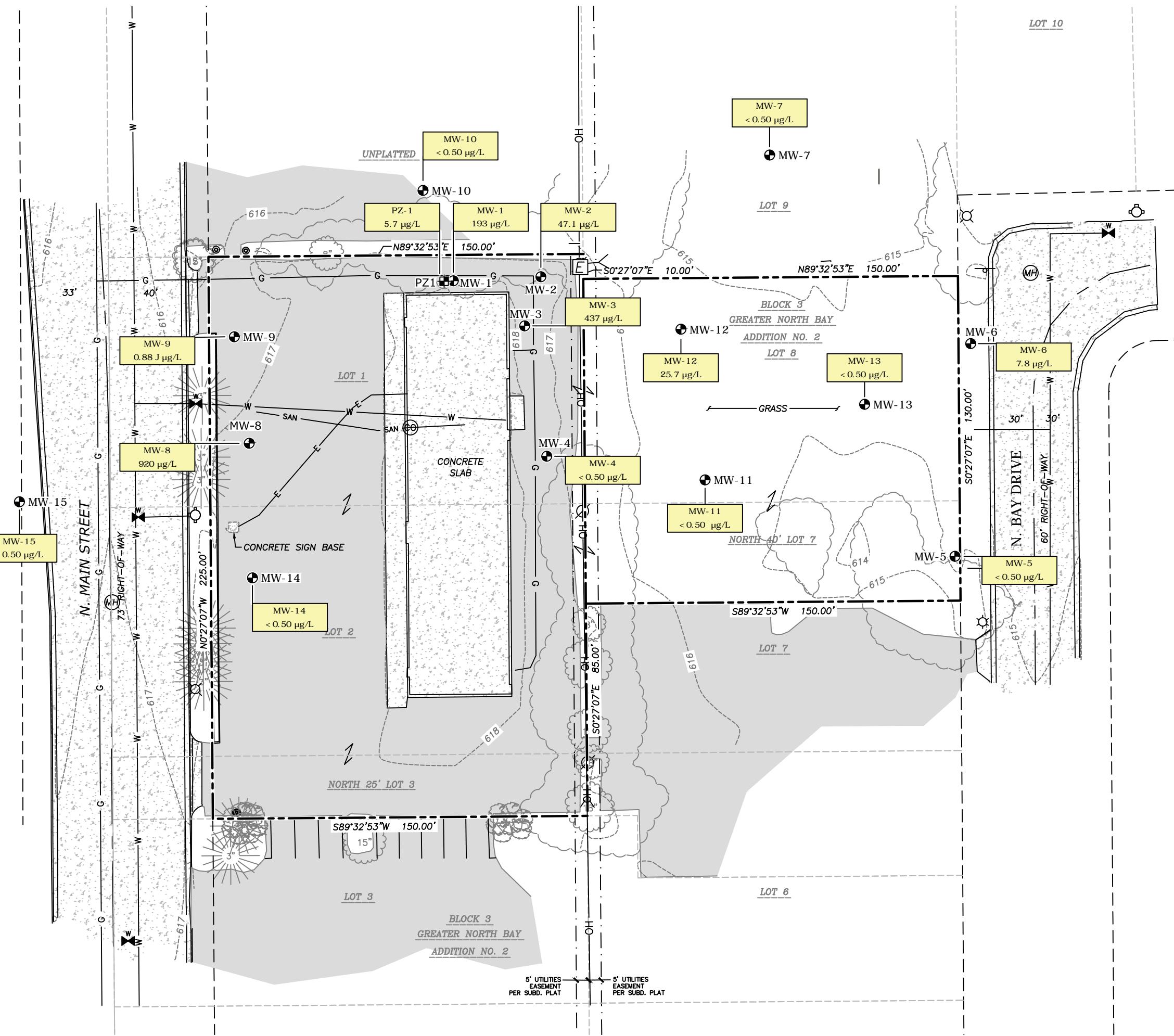


EXTENT OF SOIL PCE IMPACTS

FORMER EXPRESS CLEANERS RACINE, WISCONSIN

RAMBOLL ENVIRON

FIGURE 3

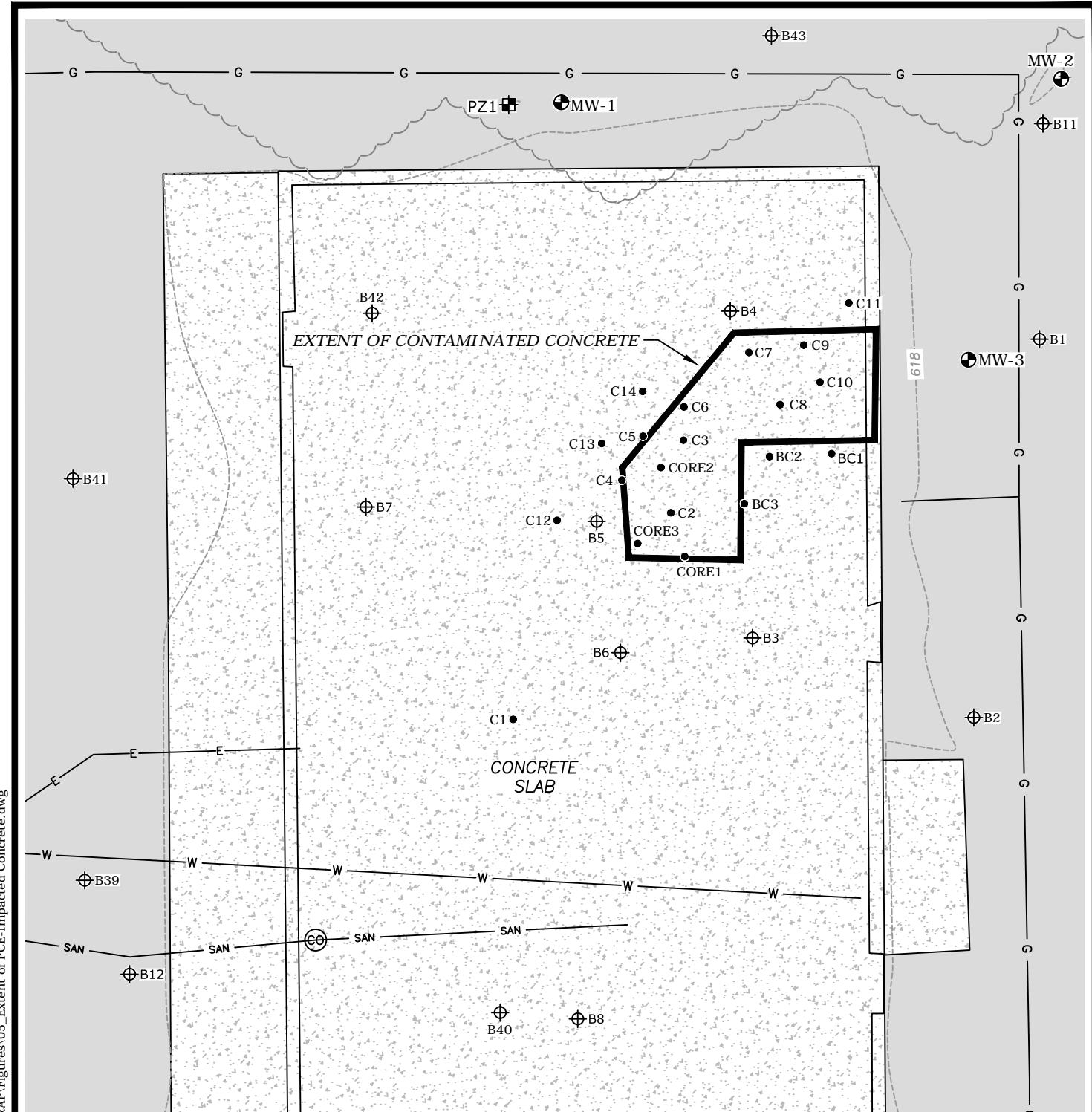


**EXTENT OF
GROUNDWATER PCE IMPACTS
(SEPTEMBER 2016)**

FORMER EXPRESS CLEANERS
RACINE, WISCONSIN

RAMBOLL ENVIRON

FIGURE
4



LEGEND

- - - PROPERTY BOUNDARY
- [Shaded Box] BITUMINOUS PAVEMENT
- [Hatched Box] CONCRETE PAVEMENT
- (Circle with Cross) EXISTING MONITORING WELL
- (Square with Cross) PIEZOMETER
- (Circle with Cross) SOIL BORING
- (Solid Circle) CORE SAMPLE



0 10
SCALE IN FEET

RAMBOLL ENVIRON

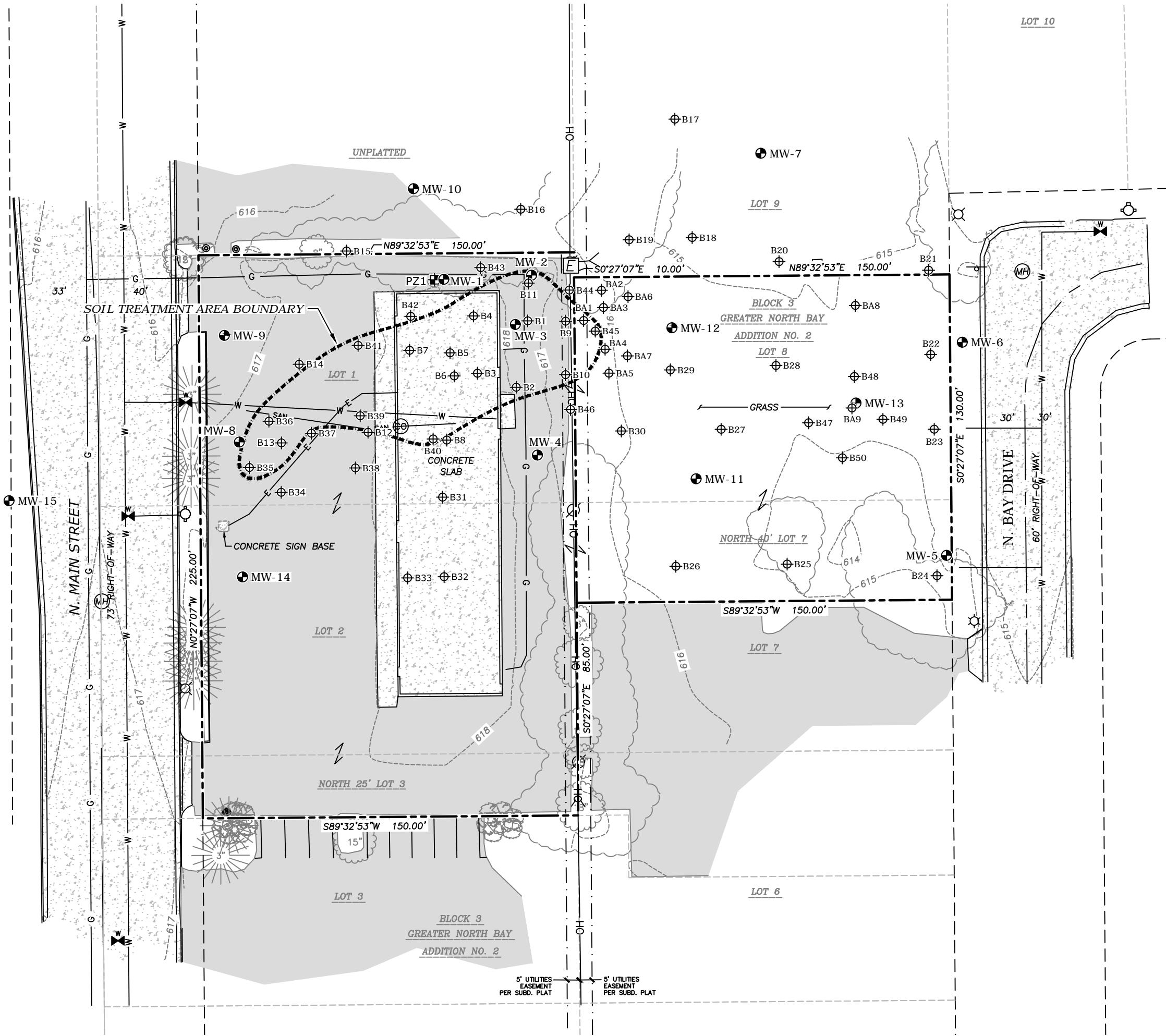
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DATE: 10/7/16

EXTENT OF
PCE-IMPACTED CONCRETE
FORMER EXPRESS CLEANERS
RACINE, WISCONSIN

FIGURE
5

0740892A

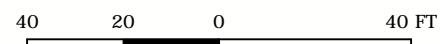


LEGEND	
PROPERTY BOUNDARY	- - -
EXISTING MONITORING WELL	●
PIEZOMETER	■
SOIL BORING	○
HYDRANT	●
WATER VALVE	■
MANHOLE – UNVERIFIED TYPE	○
ELECTRIC PEDESTAL	E
LIGHT POLE	○
POWER POLE W/GUY	○
YARD LIGHT	○
DECIDUOUS TREE	○
CONIFEROUS TREE	○
BUSH	○
PLATTED LOT LINE	- - -
EASEMENT LINE	- - -
CENTERLINE	- - -
RIGHT-OF-WAY LINE	- - -
NATURAL GAS	G
WATER LINE	W
OVERHEAD LINE	OH
SANITARY SEWER	SAN
BITUMINOUS PAVEMENT	■
CONCRETE PAVEMENT	■

LEGAL DESCRIPTION

ALL OF LOTS 1 AND 2, THE NORTH 25 FEET OF LOT 3, THE NORTH 40 FEET OF LOT 7, AND ALL OF LOT 8, GREATER NORTH BAY ADDITION NO. 2.

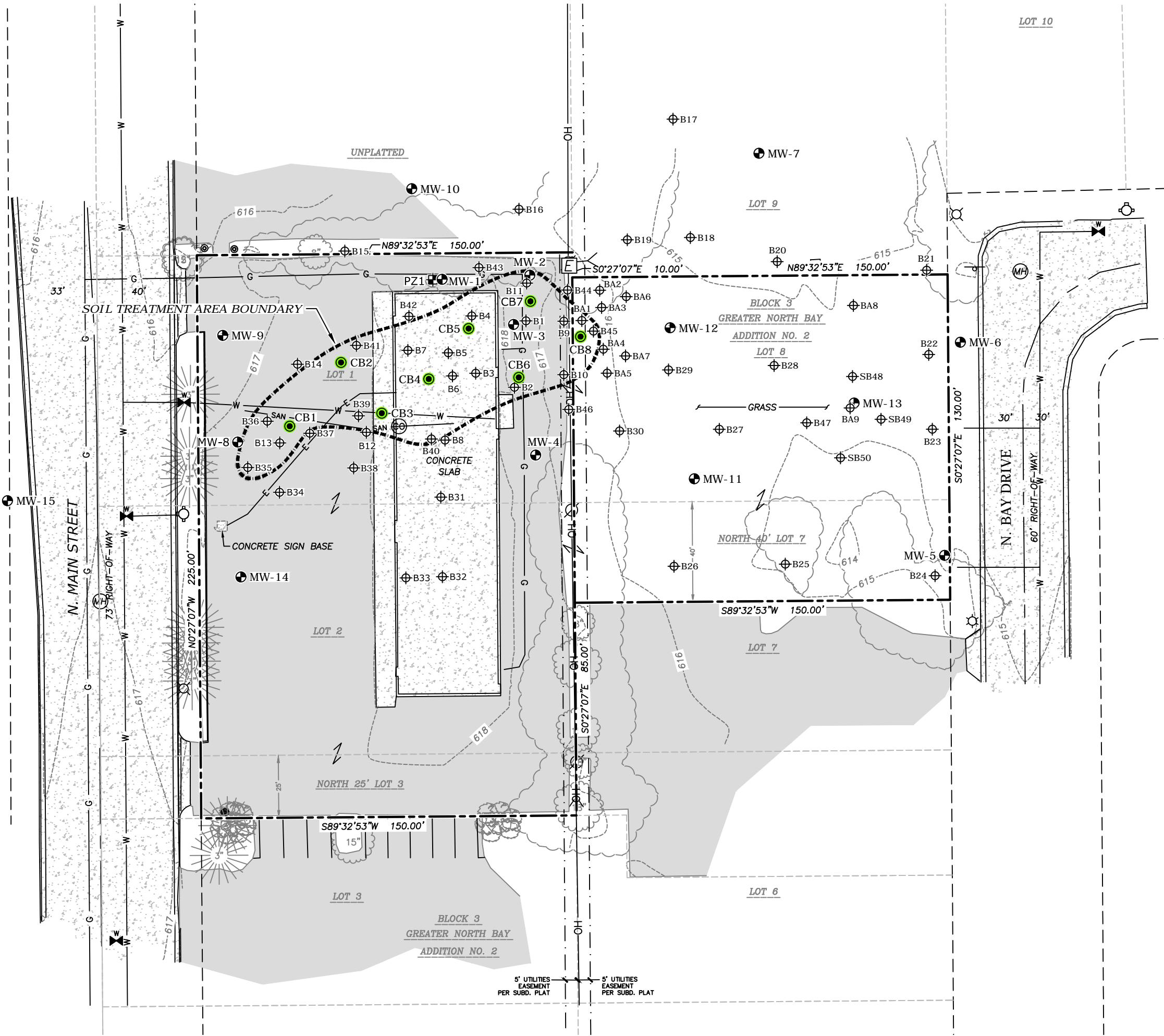
TAX KEY NOS: 276-00-00-04-690-001 AND 276-00-00-04-690-024.



SOURCE SOIL AND GROUNDWATER TREATMENT AREA
FORMER EXPRESS CLEANERS
RACINE, WISCONSIN

RAMBOLL ENVIRON

FIGURE 6

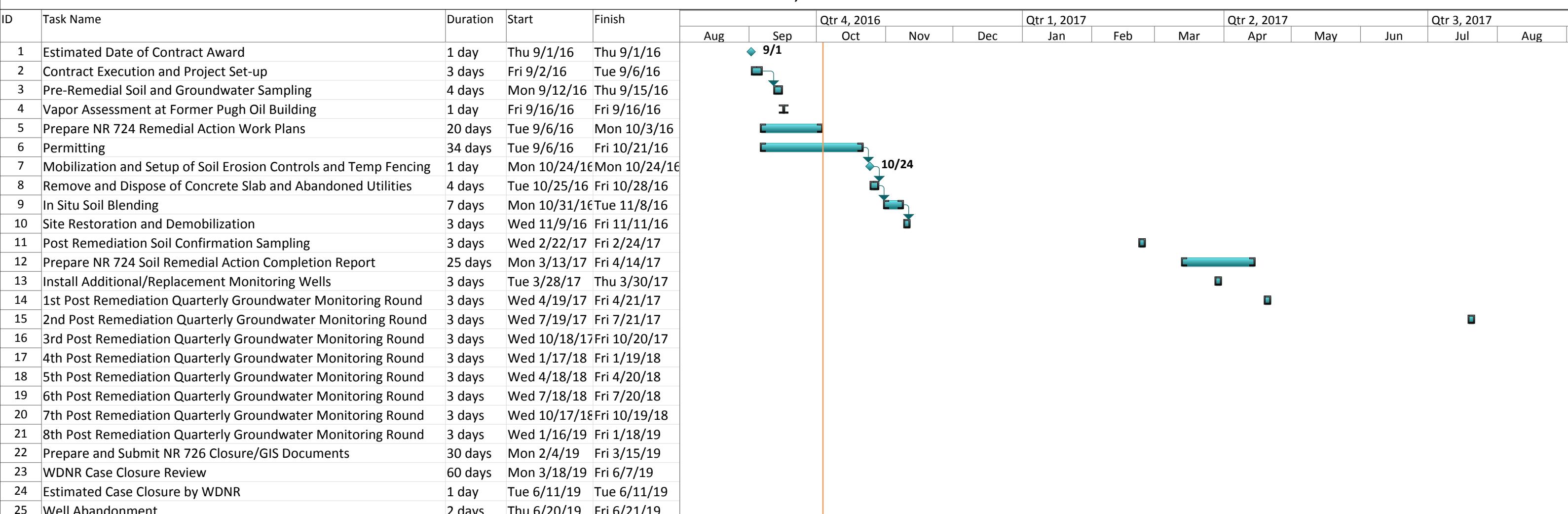


**POST-REMEDIATION
SOIL SAMPLING LOCATIONS**
FORMER EXPRESS CLEANERS
RACINE, WISCONSIN

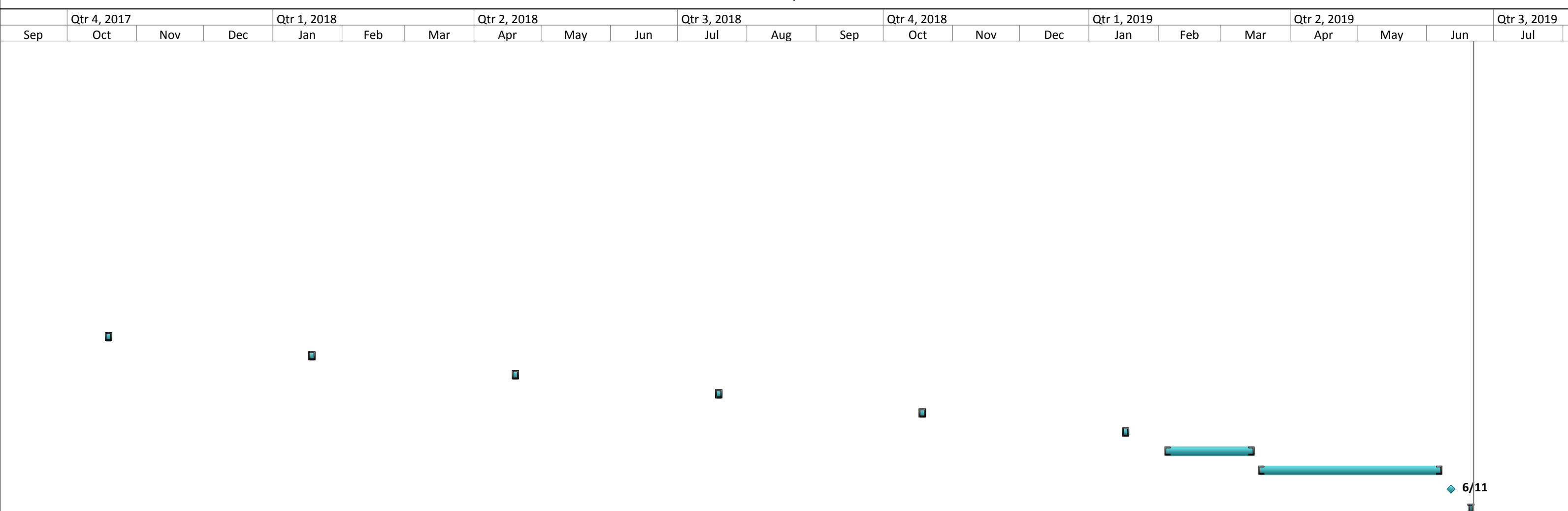
RAMBOLL ENVIRON

FIGURE
7

**Figure 8. Remedial Implementation Schedule
Former Express Cleaners Site
Racine, WI**



**Figure 8. Remedial Implementation Schedule
Former Express Cleaners Site
Racine, WI**



APPENDIX A
Plan Drawings and Specifications

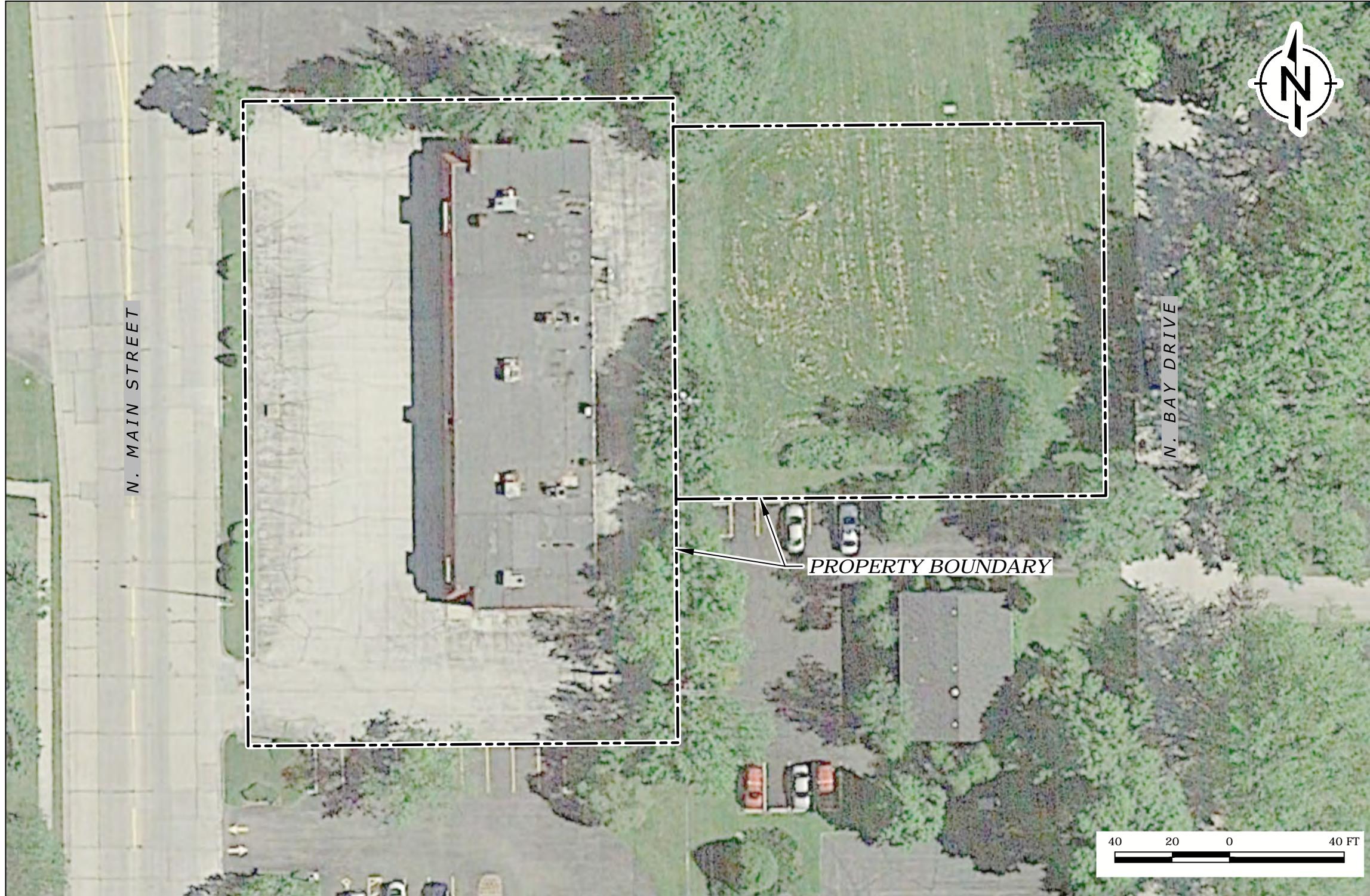
PLAN DRAWINGS AND SPECIFICATIONS

SOURCE AREA SOIL AND GROUNDWATER REMEDIATION

FORMER EXPRESS CLEANERS

3921-3941 N. MAIN STREET, RACINE, WISCONSIN

OCTOBER 2016



SOURCE: AERIAL IMAGERY: GOOGLE EARTH™, IMAGE DATED 06/18/2016.



INDEX TO DRAWINGS

SHEET 1	COVER SHEET
SHEET 2	PRE-REMEDIATION SITE CONSTRUCTION PLAN
SHEET 3	DETAILS FOR MANAGEMENT OF PCE-IMPACTED CONCRETE
SHEET 4	DETAILS ON EROSION CONTROLS
SHEET 5	SOIL BLENDING AREA
SHEET 6	SOIL BLENDING TREATMENT CELLS
SHEET 7	SITE RESTORATION PLAN

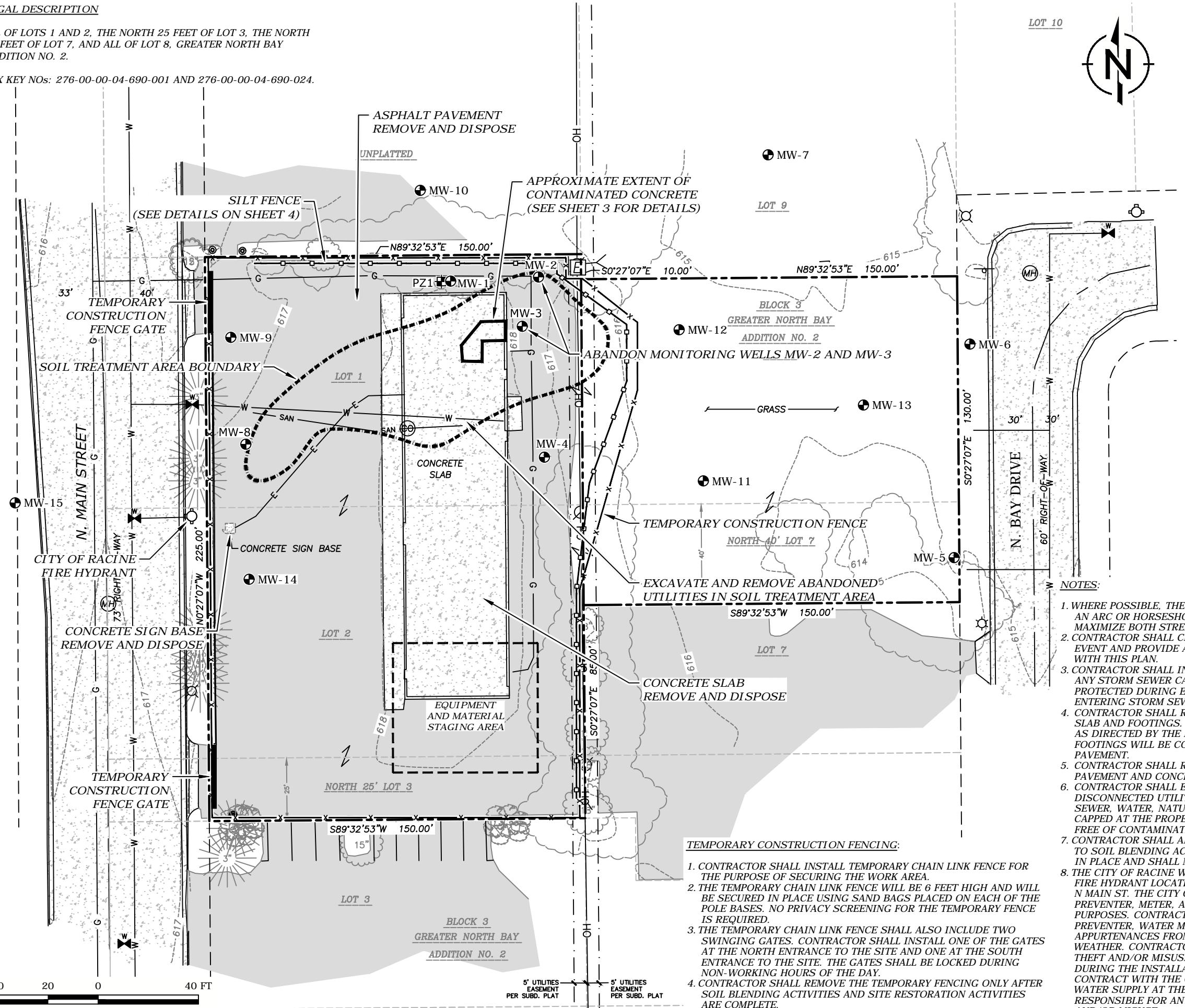
PREPARED BY

RAMBOLL ENVIRON

LEGAL DESCRIPTION

ALL OF LOTS 1 AND 2, THE NORTH 25 FEET OF LOT 3, THE NORTH 40 FEET OF LOT 7, AND ALL OF LOT 8, GREATER NORTH BAY ADDITION NO. 2.

TAX KEY NOS: 276-00-00-04-690-001 AND 276-00-00-04-690-024.



LEGEND

PROPERTY BOUNDARY	
	EXISTING MONITORING WELL
	PIEZOMETER
	SOIL BORING
	HYDRANT
	WATER VALVE
	MANHOLE - UNVERIFIED TYPE
	ELECTRIC PEDESTAL
	LIGHT POLE
	POWER POLE W/GUY
	YARD LIGHT
	DECIDUOUS TREE
	CONIFEROUS TREE
	BUSH
PLATTED LOT LINE	
	EASEMENT LINE
	CENTERLINE
	RIGHT-OF-WAY LINE
	NATURAL GAS
	WATER LINE
	OVERHEAD LINE
	SANITARY SEWER
	BITUMINOUS PAVEMENT
	CONCRETE PAVEMENT
	SILT FENCE
	TEMPORARY CONSTRUCTION FENCE
	TREATMENT AREA BOUNDARY

PRE-REMEDIATION SITE CONSTRUCTION PLAN

FORMER EXPRESS CLEANERS
RACINE, WISCONSIN

THE ST. LOUIS
EX-CHIEF
FORMER EXPRESS CLEANER
RACINE, WISCONSIN

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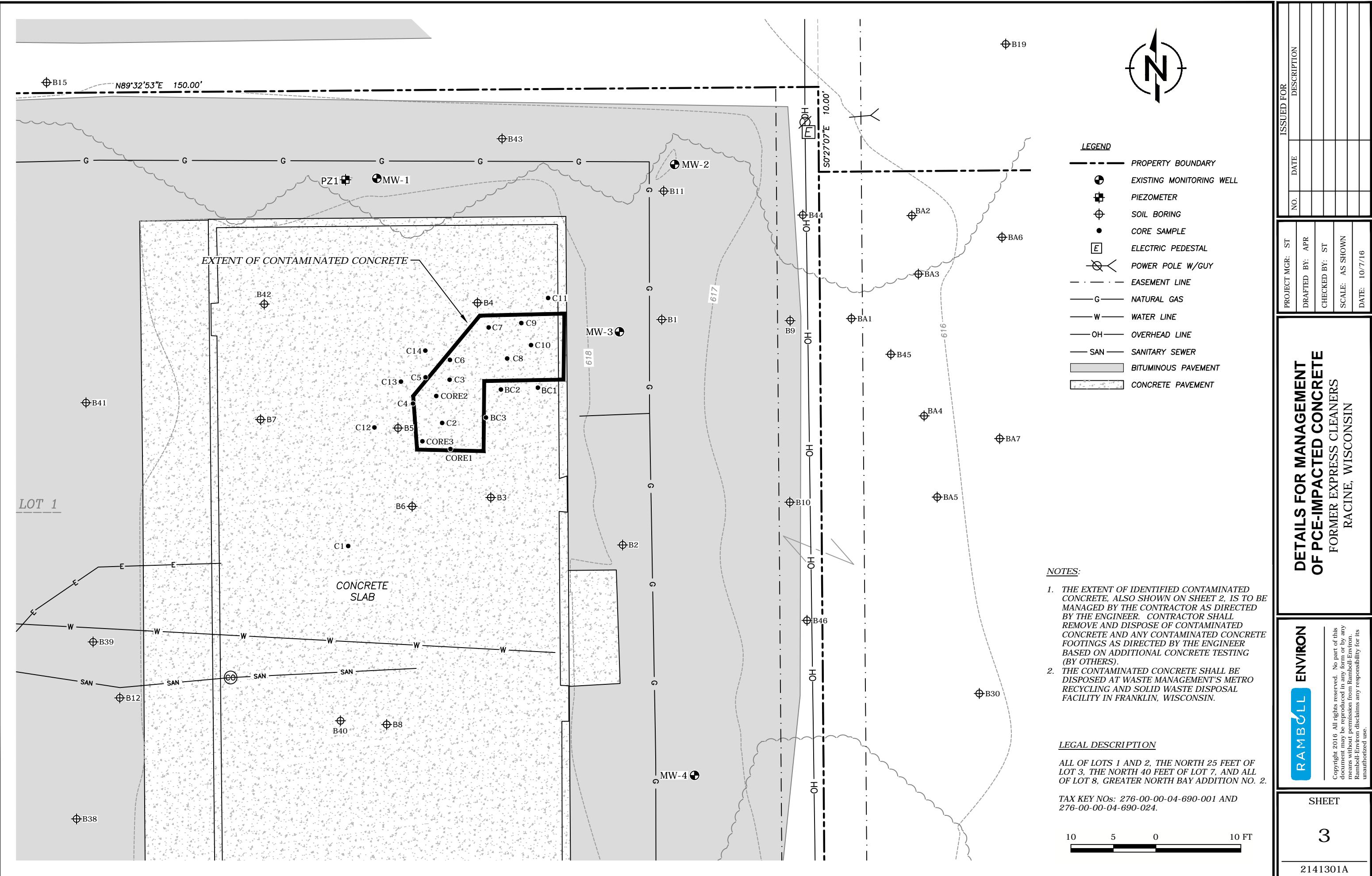
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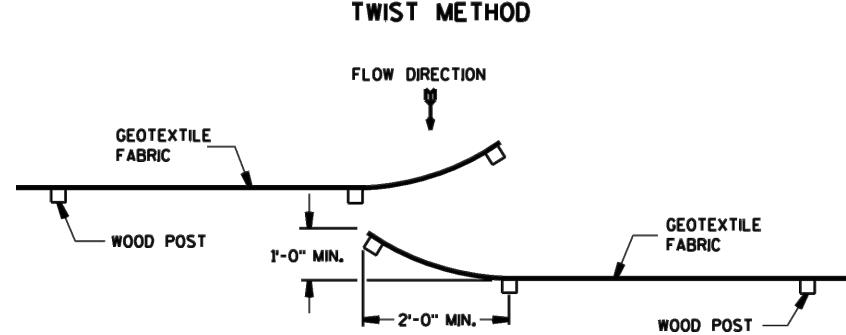
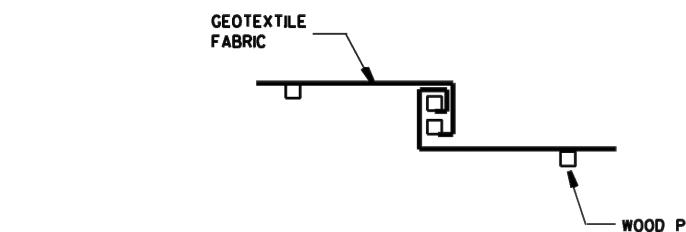
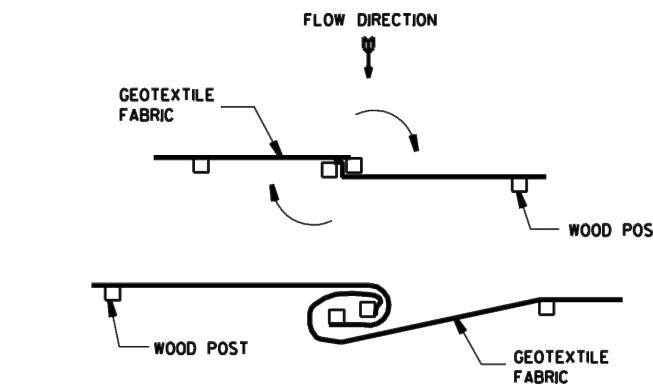
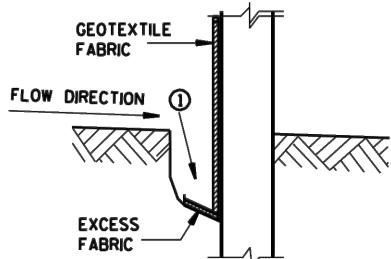
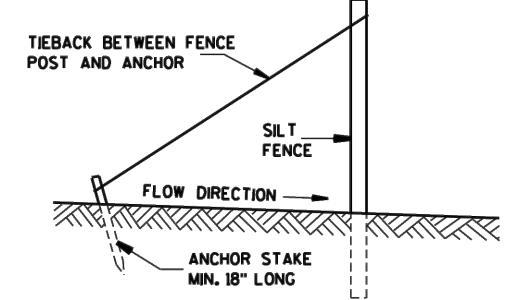
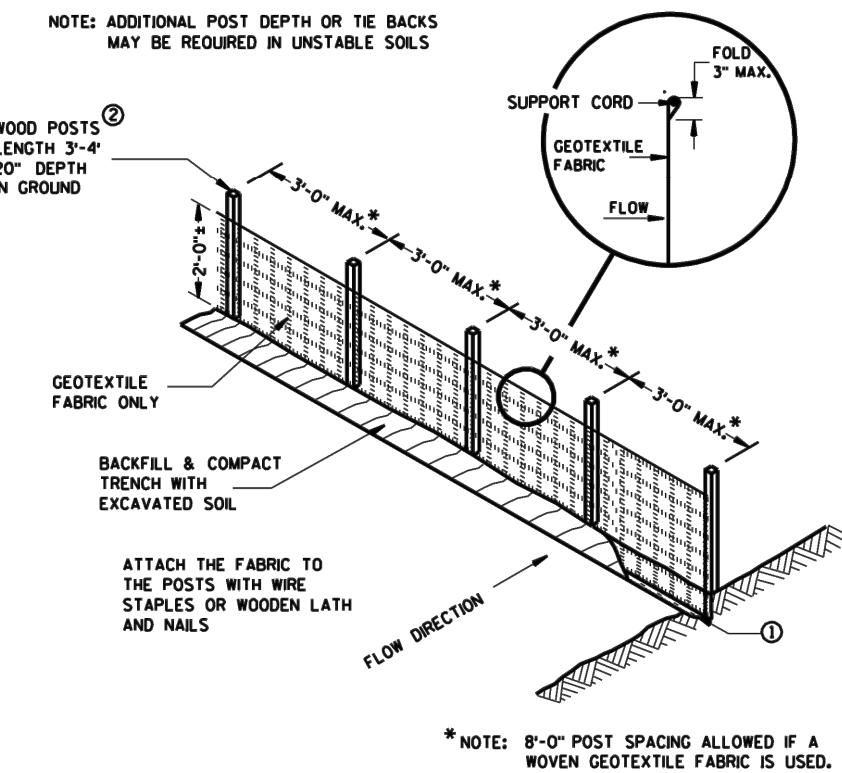
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NOTES:

1. WHERE POSSIBLE, THE CONTRACTOR SHALL CONSTRUCT THE SILT FENCE IN AN ARC OR HORSESHOE SHAPE WITH ENDS POINTING UPSLOPE TO MAXIMIZE BOTH STRENGTH AND EFFECTIVENESS.
2. CONTRACTOR SHALL CHECK ALL SILT FENCE INSTALLATION AFTER A STORM EVENT AND PROVIDE ANY MAINTENANCE REQUIRED FOR CONFORMANCE WITH THIS PLAN.
3. CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROLS AROUND ANY STORM SEWER CATCH BASINS/GRADE INLETS. INLETS SHALL BE PROTECTED DURING EARTHWORK ACTIVITIES TO PREVENT SEDIMENT FROM ENTERING STORM SEWERS IN PUBLIC RIGHT-OF-WAY.
4. CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING CONCRETE SLAB AND FOOTINGS. ANY CONTAMINATED CONCRETE SHALL BE MANAGED AS DIRECTED BY THE ENGINEER. THE REMOVAL OF THE CONCRETE SLAB AND FOOTINGS WILL BE COMPLETED PRIOR TO THE REMOVAL OF THE ASPHALT PAVEMENT.
5. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING ASPHALT PAVEMENT AND CONCRETE SIGN BASE ON THE PROPERTY.
6. CONTRACTOR SHALL EXCAVATE, REMOVE, AND DISPOSE OF ALL DISCONNECTED UTILITIES IN THE SOIL TREATMENT AREA. ALL SANITARY SEWER, WATER, NATURAL GAS, AND ELECTRIC SERVICES ARE PRESENTLYAPPED AT THE PROPERTY BOUNDARY. ALL EXCAVATED UTILITIES SHALL BE FREE OF CONTAMINATED SOIL PRIOR TO DISPOSAL.
7. CONTRACTOR SHALL ABANDON MONITORING WELLS MW-2 AND MW-3 PRIOR TO SOIL BLENDING ACTIVITIES. ALL OTHER MONITORING WELLS TO REMAIN IN PLACE AND SHALL NOT BE DAMAGED.
8. THE CITY OF RACINE WATER UTILITY WILL PROVIDE A CONNECTION TO THE FIRE HYDRANT LOCATED NEAR THE WESTERN PROPERTY BOUNDARY ALONG N MAIN ST. THE CITY OF RACINE WATER UTILITY WILL INSTALL A BACKFLOW PREVENTER, METER, AND SWEEPER VALVE, WITH CHAIN FOR SAFETY PURPOSES. CONTRACTOR SHALL INSTALL INSULATION FOR THE BACKFLOW PREVENTER, WATER METER, AND SWEEPER VALVE TO PROTECT THESE APPURTENANCES FROM FREEZING AT TIMES OF NON-USE DURING COLD WEATHER. CONTRACTOR SHALL LOCK THE APPURTENANCES TO PREVENT THEFT AND/OR MISUSE. CONTRACTOR SHALL BE PRESENT AT THE SITE DURING THE INSTALLATION OF THE APPURTENANCES AND SHALL SIGN THE CONTRACT WITH THE CITY OF RACINE FOR THE USE OF THE TEMPORARY WATER SUPPLY AT THE TIME OF CONNECTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EQUIPMENT CAUSED BY FREEZING AND/OR MISUSE.





SILT FENCE INSTALLATION GENERAL NOTES:

1. SILT FENCE SHALL BE IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARD NO. 1056.
2. TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. CONTRACTOR SHALL FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.
4. CONTRACTOR SHALL CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY, USE ONE OF THE FOLLOWING TWO METHODS:
 - a. TWIST METHOD - OVERLAP THE ENDPOSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES.
 - b. HOOK METHOD - HOOK THE END OF EACH SILT FENCE LENGTH.
5. CONTRACTOR SHALL ATTACH THE FABRIC TO THE POSTS WITH WIRE STAPLES OR WOODEN LATH AND NAILS.

EROSION CONTROL:

1. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COPY OF THESE STANDARDS.
2. CONTRACTOR SHALL PROTECT ADJACENT PROPERTIES WITH SILT FENCING UNTIL CONSTRUCTION IS COMPLETED. CONTRACTOR SHALL REFER TO THE PRE-REMEDIATION SITE CONSTRUCTION PLAN FOR LOCATION OF SILT FENCING.
3. CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES PRIOR TO BEGINNING SOIL REMEDIATION. MODIFICATIONS TO SEDIMENT CONTROL DESIGN MAY BE CONDUCTED TO MEET UNFORESEEN FIELD CONDITIONS IF THE MODIFICATIONS CONFORM TO WDNR TECHNICAL STANDARDS FOR CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY MODIFICATIONS TO THE SEDIMENT CONTROL DESIGN.
4. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AFTER EACH RAINFALL EVENT OF 1/2" OR GREATER WITHIN A 24 HR PERIOD. CONTRACTOR SHALL REPAIR ANY DAMAGE OBSERVED DURING THE INSPECTION. WRITTEN DOCUMENTATION OF EACH INSPECTION SHALL BE MAINTAINED AT THE CONSTRUCTION SITE PER WISCONSIN ADMINISTRATIVE CODE NR 216.46.
5. CONTRACTOR SHALL INSPECT AND MAINTAIN ALL EROSION CONTROL MEASURES ROUTINELY (ONCE PER WEEK MINIMUM) TO ENSURE PROPER FUNCTION OF EROSION CONTROLS AT ALL TIMES. EROSION CONTROL MEASURES ARE TO BE IN WORKING ORDER AT THE END OF EACH WORK DAY.
6. CONTRACTOR SHALL REMOVE EROSION CONTROL MEASURES ONLY AFTER SITE CONSTRUCTION IS COMPLETE WITH ALL SOIL SURFACES HAVING A STONE AGGREGATE COVER.
7. SOIL EROSION CONTROL MAINTENANCE ITEMS ARE TO BE CONSIDERED INCIDENTAL TO THE COST OF THE CONTRACT.

This drawing based on Wisconsin Department of Transportation Standard Detail Drawing 8 E 9-6.

RAMBOLL ENVIRON

ISSUED FOR
DESCRIPTION

PROJECT MGR: ST
DRAFTED BY: APR

CHECKED BY: ST
SCALE: AS SHOWN
DATE: 10/5/16

DETAILS ON EROSION CONTROLS
Former Express Cleaners
Racine, Wisconsin

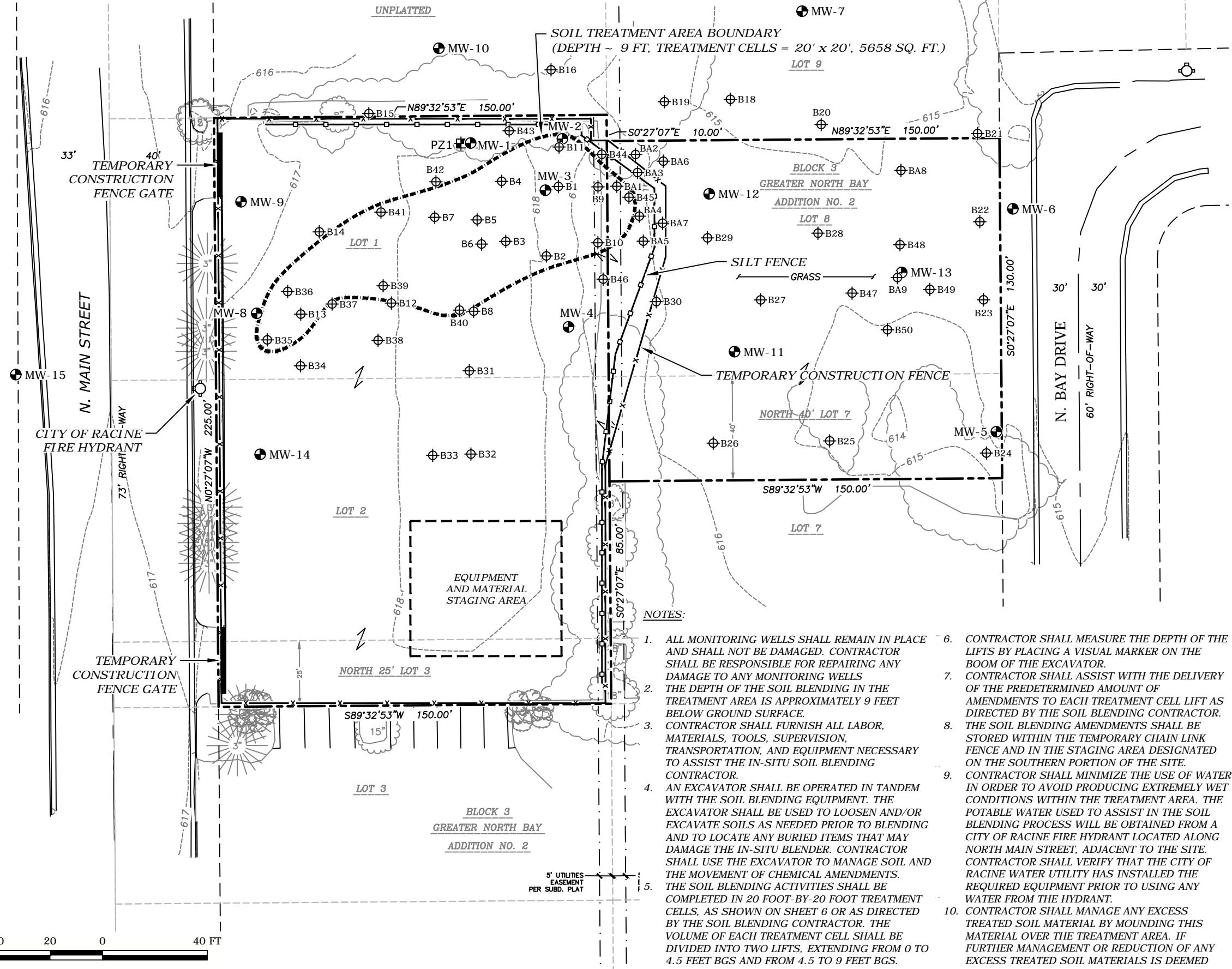
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SHEET
4
2141301A

LEGAL DESCRIPTION

ALL OF LOTS 1 AND 2, THE NORTH 25 FEET OF LOT 3, THE NORTH 40 FEET OF LOT 7, AND ALL OF LOT 8, GREATER NORTH BAY ADDITION NO. 2.

TAX KEY NOS: 276-00-00-04-690-001 AND 276-00-00-04-690-024.



LEGEND

- PROPERTY BOUNDARY
- EXISTING MONITORING WELL
- PIEZOMETER
- ⊕ SOIL BORING
- HYDRANT
- - - PLATTED LOT LINE
- - - EASEMENT LINE
- - - CENTERLINE
- - - RIGHT-OF-WAY LINE
- SILT FENCE
- X TEMPORARY CONSTRUCTION FENCE
- - - TREATMENT AREA BOUNDARY

SOIL BLENDING AREA
FORMER EXPRESS CLEANERS
RACINE, WISCONSIN

RAMBOLL ENVIRON

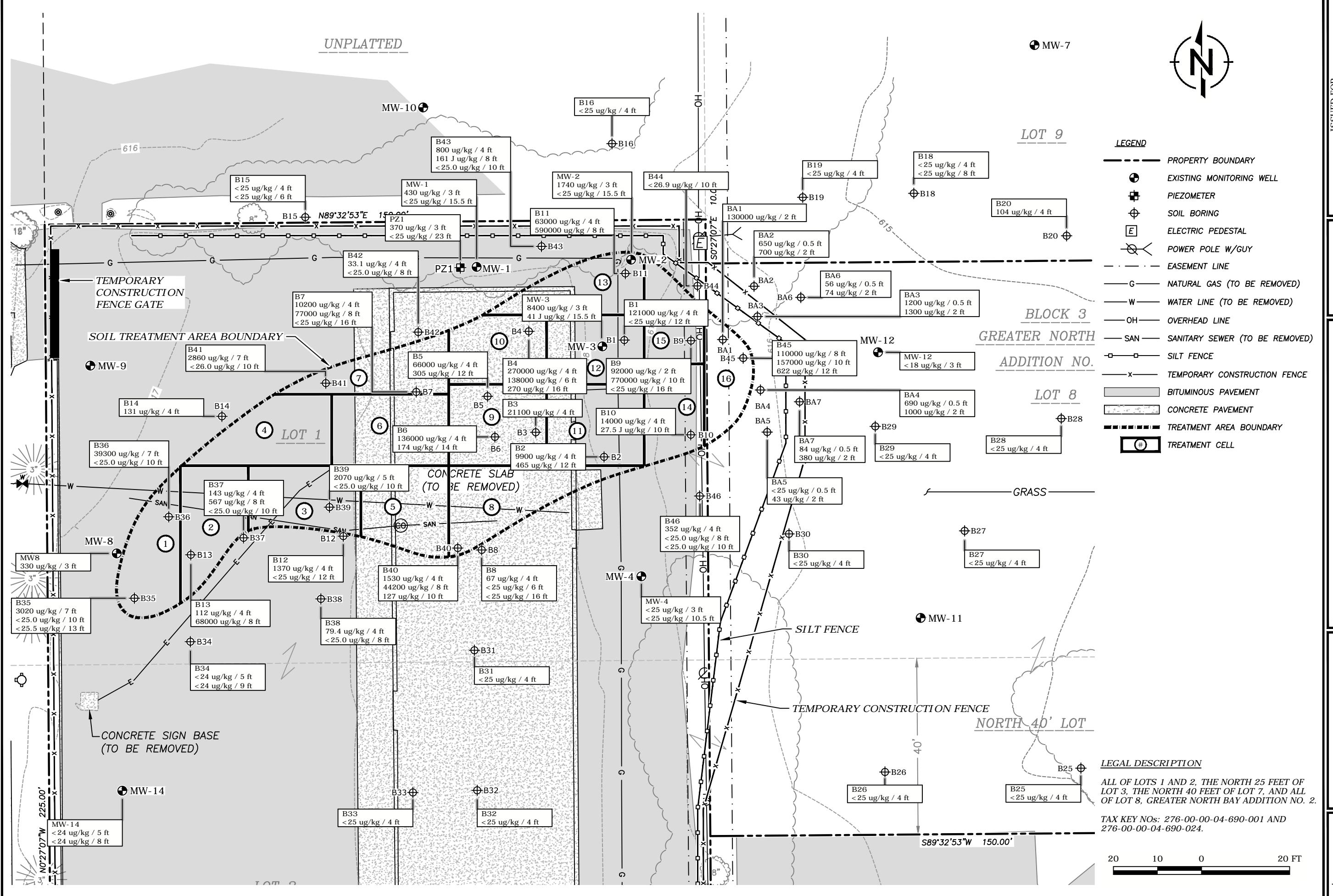
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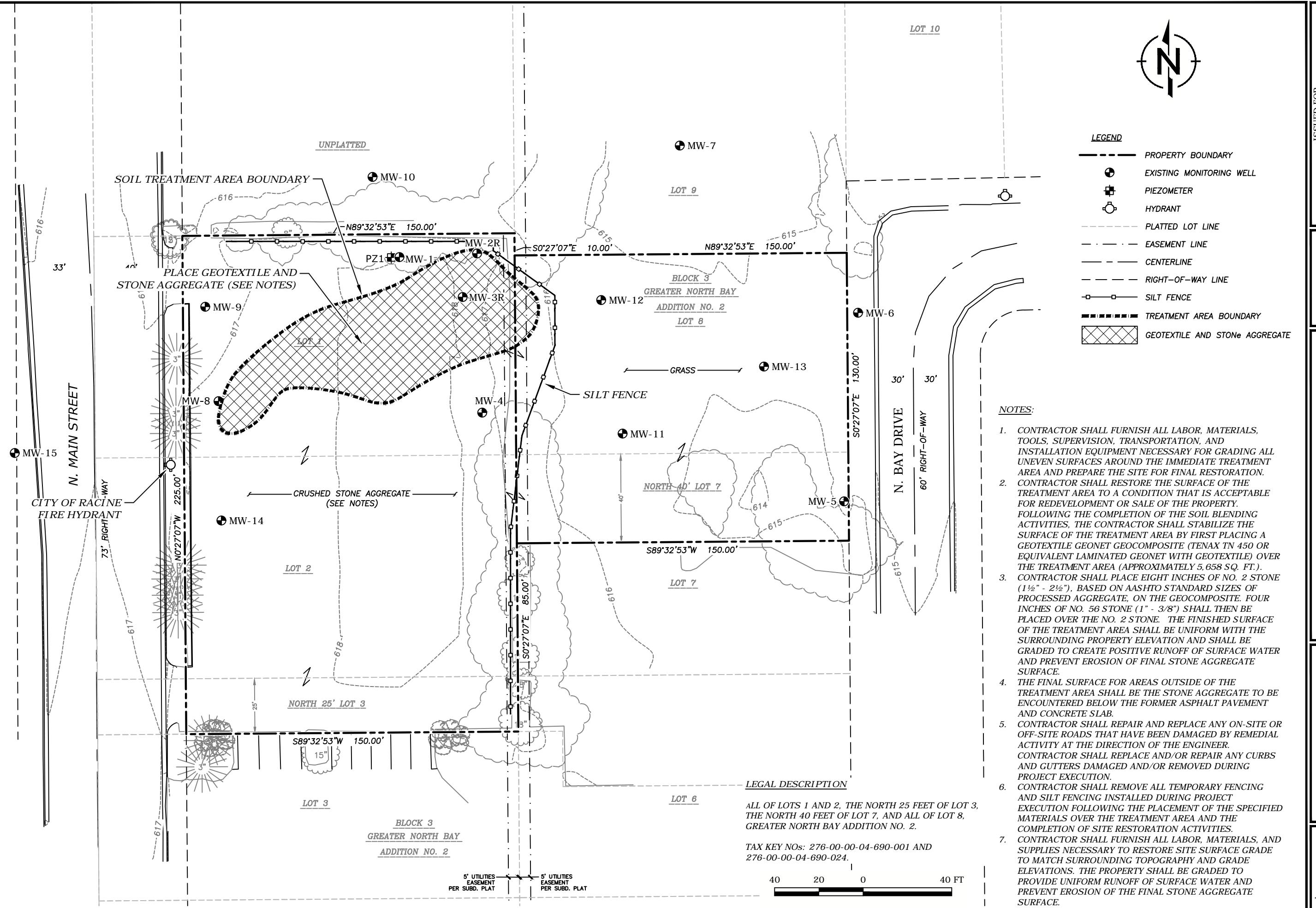
SHEET
5

2141301A

PROJECT MGR: ST	DRAFTED BY: APR	ISSUED FOR DESCRIPTION

CHECKED BY: ST
SCALE: AS SHOWN
DATE: 10/7/16





PROJECT MGR: ST		ISSUED FOR DESCRIPTION	
NO.	DATE	NO.	DATE
DRAFTED BY: APR			
CHECKED BY: ST			
SCALE: AS SHOWN			
DATE: 10/7/16			

SITE RESTORATION PLAN

FORMER EXPRESS CLEANERS
RACINE, WISCONSIN

RAMBOLL ENVIRON

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SHEET
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APPENDIX B

Pre-Remediation Soil Boring Logs

Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Former Express Cleaners			License/Permit/Monitoring Number		Boring Number B-35				
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Augi Last Name: Mendez Firm: CS Drilling			Date Drilling Started 0 9 / 1 3 / 2 0 1 6 m m d d y y y y	Date Drilling Completed 0 9 / 1 3 / 2 0 1 6 m m d d y y y y	Drilling Method GeoProbe				
WI Unique Well No. -----	DNR Well ID No. -----	Well Name --	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 2 inches				
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) State Plane 1/4 of _____	Boring Location <input type="checkbox"/> N, _____, T _____, N, R _____	Lat _____ ° _____ ' _____ " Long _____ ° _____ ' _____ "	Local Grid Location □ N □ E Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W						
Facility ID	County Racine	County Code 5 1	Civil Town/City/ or Village Racine, Wisconsin						
Number and Type	Length Alt. & Recovered (ft)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description and Geologic Origin for Each Major Unit				P 200	RQD/Comments
				USCS	Graphic Log	Well Diagram	PID/FID		
Lab Sample (6-7')	1.0		(0-0.33') Asphalt	--			0.0		
			(0.33-1') Coarse gravel backfill (fill)	--			1.4		
			(1-3') Brown, silty sand, trace fine gravel, dense (fill)	--			6.0		
			(3-6') Brown, fine silty sand, dense, moist (possible fill)	--			9.5		
							19.6		
							23.0		
							28.5		
							23.0		
							17.5		
Lab Sample (9-10')	4.0		(6-10') Grey, silt, dense, moist	ML					
Lab Sample (12-13')	6.0		(10-12') Grey, silty sand, loose, wet	SM					
Lab Sample (12-13')	8.0		(12-15') Grey, silty sand, loose, wet	SM					
Lab Sample (12-13')	10.0			SM					
Lab Sample (12-13')	12.0			SM					
Lab Sample (12-13')	14.0			SM					
Lab Sample (12-13')	16.0			SM					
Lab Sample (12-13')	18.0			SM					
Lab Sample (12-13')	20.0			SM					
Lab Sample (12-13')	22.0			SM					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm

Ramboll-Environ

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Route To: Watershed/Wastewater
Remediation/Redevelopment

Waste Management
Other

Page 1 of 1

Facility/Project Name Former Express Cleaners			License/Permit/Monitoring Number		Boring Number B-36								
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Augi Last Name: Mendez Firm: CS Drilling			Date Drilling Started 0 9 / 1 3 / 2 0 1 6 m m d d y y y y	Date Drilling Completed 0 9 / 1 3 / 2 0 1 6 m m d d y y y y	Drilling Method GeoProbe								
WI Unique Well No. -----	DNR Well ID No. -----	Well Name --	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 2 inches								
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) State Plane 1/4 of _____	Boring Location <input type="checkbox"/> N, _____ 1/4 of Section _____, T _____ N, R _____	Lat ° ' " _____ Long ° ' " _____	Local Grid Location □ N □ E Feet □ S Feet □ W										
Facility ID	County Racine	County Code 5 1	Civil Town/City/ or Village Racine, Wisconsin										
Number and Type	Length Alt. & Recovered (ft)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description and Geologic Origin for Each Major Unit				PID/FID	Soil Properties				RQD/Comments
				USCS	Graphic Log	Well Diagram	Compressive Strength		Moisture Content	Liquid Limit	Plasticity Index	P 200	
Lab Sample (6-7')	1.0		(0-0.33') Asphalt	--			0.0						
			(0.33-0.67') Coarse gravel backfill (fill)	--			4.8						
			(0.67-2.5') Dark brown, fine sand, dense (fill)	--			28.0						
			(2.5-5') Red/Brown, medium sand, medium dense (possible fill)	--			34.2						
			(5-6.5') Tan, medium sand, medium dense (possible fill)	--			9.3						
			(6.5-8') Brown, clay, stiff	CL			7.8						
			(8-11.5') Brown, silty sand, wet	SM			14.5						
			(11.5-12') Brown, clay, stiff	CL			0.5						
							0.4						
I hereby certify that the information on this form is true and correct to the best of my knowledge.													
Signature				Firm Ramboll-Environ									

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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Former Express Cleaners			License/Permit/Monitoring Number		Boring Number B-37										
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Augi Last Name: Mendez Firm: CS Drilling			Date Drilling Started 0 9 / 1 3 / 2 0 1 6	Date Drilling Completed 0 9 / 1 3 / 2 0 1 6	Drilling Method GeoProbe										
WI Unique Well No. -----	DNR Well ID No. -----	Well Name --	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 2 inches										
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E 1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Lat _____ ° _____ ' _____ " Long _____ ° _____ ' _____ "	Local Grid Location ____ N <input type="checkbox"/> E ____ S <input type="checkbox"/> Feet <input type="checkbox"/> W											
Facility ID		County Racine	County Code 5 1	Civil Town/City/ or Village Racine, Wisconsin											
Number and Type	Length Alt. & Recovered (ft)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description and Geologic Origin for Each Major Unit			USCS	Graphic Log	Well Diagram	Soil Properties					RQD/Comments
				PID/FID	Compressive Strength	Moisture Content				Liquid Limit	Plasticity Index	P 200			
Lab Sample (2-4')	1.0		(0-0.33') Asphalt	--			0.0								
			(0.33-1') Coarse gravel backfill (fill)	--			2.3								
			(1-2') Brown, clay and gravel fill (fill)	--			4.9								
			(2-2.5') Brown, med. sand, dense (fill)	--			8.0								
								17.1							
									21.0						
										8.9					
											2.5				
											9.8				
												0.8			
													0.5		
I hereby certify that the information on this form is true and correct to the best of my knowledge.															
Signature				Firm Ramboll-Environ											

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Route To: Watershed/Wastewater
Remediation/Redevelopment

Waste Management
Other

Page 1 of 1

Facility/Project Name Former Express Cleaners				License/Permit/Monitoring Number		Boring Number B-38									
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Augi Last Name: Mendez Firm: CS Drilling				Date Drilling Started 0 9 / 1 3 / 2 0 1 6	Date Drilling Completed 0 9 / 1 3 / 2 0 1 6	Drilling Method GeoProbe									
mm d d y y y	mm d d y y y														
WI Unique Well No.		DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2 inches									
-----	-----	-----	--	-----	-----	-----									
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or State Plane <input type="checkbox"/> N, <input type="checkbox"/> E 1/4 of <input type="checkbox"/> 1/4 of Section <input type="checkbox"/> T <input type="checkbox"/> N, R		Boring Location <input type="checkbox"/> Lat <input type="checkbox"/> ° <input type="checkbox"/> ' <input type="checkbox"/> " Long <input type="checkbox"/> ° <input type="checkbox"/> ' <input type="checkbox"/> "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> Feet <input type="checkbox"/> W											
Facility ID		County Racine	County Code 5 1	Civil Town/City/ or Village Racine, Wisconsin											
Number and Type	Length Alt. & Recovered (ft)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description and Geologic Origin for Each Major Unit			USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties				RQD/Comments
											Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	
Lab Sample (2-4')				(0-0.33') Asphalt	--		0.0								
				(0.33-1') Coarse gravel backfill (fill)	--		0.0								
				(1-2') Brown, Sand and gravel fill (fill)	--		0.4								
				(2-3') Brown, clay, stiff (fill)	--		0.6								
				(3-3.5') Brown, med. Sand, dense (fill)	--		4.2								
				(3.5-6.5') Red/brown, med. Sand dense, moist (possible fill)	--		1.9								
				(6.5-7') Med. Sand, some fine gravel, wet	SP		0.7								
				(7-9') Brown, clay, very stiff	CL		0.8								
				(9-11') Grey, silt, very stiff	ML		0.0								
				(11-12') Grey, clay, very stiff	CL		0.0								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature



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Route To: Watershed/Wastewater

Waste Management

Remediation/Redevelopment

Other

Page 1 of 1

Facility/Project Name Former Express Cleaners			License/Permit/Monitoring Number		Boring Number B-39								
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Augi Last Name: Mendez Firm: CS Drilling			Date Drilling Started 0 9 / 1 3 / 2 0 1 6	Date Drilling Completed 0 9 / 1 3 / 2 0 1 6	Drilling Method GeoProbe								
WI Unique Well No. -----	DNR Well ID No. -----	Well Name --	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 2 inches								
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E 1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Lat _____ ° _____ ' _____ " Long _____ ° _____ ' _____ "	Local Grid Location ____ N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> Feet <input type="checkbox"/> W									
Facility ID		County Racine	County Code 5 1	Civil Town/City/ or Village Racine, Wisconsin									
Number and Type	Sample Length Alt. & Recovered (ft)	Blow Counts Depth in Feet (below ground surface)	Soil/Rock Description and Geologic Origin for Each Major Unit		Soil Properties						RQD/Comments		
			USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index		P 200	
Lab Sample (3-5')			(0-0.33') Asphalt	--		0.0							
			1.0	(0.33-1') Coarse gravel backfill (fill)	--		4.8						
			2.0	(1-2') Brown, Sand and gravel fill (fill)	--		9.4						
			3.0	(2-3') Brown, clay, trace silt, stiff (fill)	--		80.0						
			4.0	(3-6') Red/brown, medium sand, med. dense (possible fill)	--		4.9						
			5.0				13.0						
			6.0	(6-7') Grey, clayey silt, stiff	ML		16.3						
			7.0				18.4						
			8.0	(7-9.5') Grey, fine to medium silty sand, dense, wet at 8'	SM		1.9						
			9.0				2.8						
Lab Sample (9-10')			(9.5-12') Grey, clay, very stiff	CL		1.2							
I hereby certify that the information on this form is true and correct to the best of my knowledge.													
Signature 			Firm Ramboll-Environ										

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Route To: Watershed/Wastewater
Remediation/Redevelopment

Waste Management
Other

Page 1 of 1

Facility/Project Name Former Express Cleaners			License/Permit/Monitoring Number		Boring Number B-40									
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Augi Last Name: Mendez Firm: CS Drilling			Date Drilling Started 0 9 / 1 3 / 2 0 1 6	Date Drilling Completed 0 9 / 1 3 / 2 0 1 6	Drilling Method GeoProbe									
mm dd yy yy	mm dd yy yy													
WI Unique Well No. -----	DNR Well ID No. -----	Well Name --	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 2 inches									
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or State Plane 1/4 of _____	Boring Location <input type="checkbox"/> N, _____ 1/4 of Section _____, T _____	E N, R _____	Lat _____ ° _____ ' _____ " Long _____ ° _____ ' _____ "	Local Grid Location Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____	<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W									
Facility ID	County Racine	County Code 5 1	Civil Town/City/ or Village Racine, Wisconsin											
Number and Type	Sample Length Alt. & Recovered (ft)	Blow Counts Depth in Feet (below ground surface)	Soil/Rock Description and Geologic Origin for Each Major Unit		Soil Properties						RQD/Comments			
Lab Sample (2-4')			1.0	(0-0.33') Asphalt	USCS --	Graphic Log ██████████	Well Diagram 0.0	PID/FID 54.0	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			2.0	(0.33-1.5') Sand and gravel backfill (fill)	--	██████████	26.7							
			3.0	(1.5-2') Red/brown, medium sand, loose (fill)	--	██████████	78.9							
			4.0	(2-2.5') Brown, clay, stiff (fill)	--	██████████	55.3							
			5.0	(2.5-3') Brown, med. Sand, well sorted, loose (fill)	--	SP	7.2							
			6.0	(3-5') Red/brown, fine to medium sand, well sorted, dense (possible fill)	--	SP	20.4							
			7.0	(5-6') Tan, fine to medium sand, dense, well sorted, moist	--	SP	36.7							
			8.0	(6-6.5') Brown, fine to med. Sand, trace fine gravel, wet	--	SP	138.8							
			9.0	(6.5-10') Brown, clay, stiff, wet at 8'	--	CL	23.8							
			10.0	(10-12') Brown/grey, clay, trace silt, medium stiff	--	CL	4.7							
11.0		--	CL	3.0										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

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Route To: Watershed/Wastewater
 Remediation/Redevelopment

Waste Management

Other

Page 1 of 1

Facility/Project Name Former Express Cleaners			License/Permit/Monitoring Number		Boring Number B-41											
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Augi Last Name: Mendez Firm: CS Drilling			Date Drilling Started 0 9 / 1 3 / 2 0 1 6 m m d d y y y	Date Drilling Completed 0 9 / 1 3 / 2 0 1 6 m m d d y y y	Drilling Method GeoProbe											
WI Unique Well No. -----	DNR Well ID No. -----	Well Name --	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 2 inches											
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or State Plane 1/4 of _____ 1/4 of Section	Boring Location <input type="checkbox"/> N, _____, T _____ N, R _____	Lat _____ ° _____ ' _____ " Long _____ ° _____ ' _____ "	Local Grid Location ____ N <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S <input type="checkbox"/> Feet <input type="checkbox"/> W													
Facility ID	County Racine	County Code 5 1	Civil Town/City/ or Village Racine, Wisconsin													
Number and Type	Length Alt. & Recovered (ft)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description and Geologic Origin for Each Major Unit				PID/FID	Soil Properties				RQD/Comments			
				USCS	Graphic Log	Well Diagram	Compressive Strength		Moisture Content	Liquid Limit	Plasticity Index	P 200				
Lab Sample (5-7')	2.0		(0-0.5') Concrete	--			0.0									
			(0.5-3') Sand and gravel fill (fill)	--			60.6									
			(3-4') Brown, fine to medium sand, dense (fill)	--			258.3									
			(4-6') Red/brown, fine-med. Sand, dense, moist, wet at 6' (possible fill)	--			611.7									
			(7.5-8') Brown, clay, stiff	CL			15.3									
			(8-9') Brown/grey, clay, trace fine gravel				282.7									
			Lab Sample (9-10')	10.0		(9-12') Grey, fine to medium sand, well sorted, wet, loose	SP			9.1						
										51.5						
									2.0							
									2.2							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Ramboll-Environ
---	----------------------

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Route To: Watershed/Wastewater
Remediation/Redevelopment

Waste Management
Other

Page 1 of 1

Facility/Project Name Former Express Cleaners				License/Permit/Monitoring Number		Boring Number B-42		
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Augi Last Name: Mendez Firm: CS Drilling				Date Drilling Started 0 9 / 1 3 / 2 0 1 6	Date Drilling Completed 0 9 / 1 3 / 2 0 1 6	Drilling Method GeoProbe		
WI Unique Well No. -----	DNR Well ID No. -----	Well Name --	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 2 inches			
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or State Plane 1/4 of _____ N, _____ E 1/4 of Section, T, N, R	Boring Location <input type="checkbox"/> Lat _____ ° _____ ' _____ " Long _____ ° _____ ' _____ "	Local Grid Location Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W		<input type="checkbox"/> N <input type="checkbox"/> E				
Facility ID County Racine		County Code 5 1	Civil Town/City/ or Village Racine, Wisconsin					
Number and Type	Length Alt. & Recovered (ft)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description and Geologic Origin for Each Major Unit				RQD/Comments
				USCS	Graphic Log	Well Diagram	PID/FID	
Lab Sample (2-4')	2.0		(0-0.5') Concrete	--			0.0	
			(0.5-3') Sand and gravel fill, clay in last 0.5 feet (fill)	--				
			(3-5') Brown, fine to medium sand, med. dense (fill)	--				
						3.7		
						3.8		
						3.9		
						3.7		
						4.4		
						4.1		
						2.7		
Lab Sample (6-8')	6.0							
Lab Sample (11-12')	12.0		(5-11') Brown/grey, fine to medium sand, medium density, wet	SW				
			(11-12') Grey, sandy clay, stiff, wet	CL				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Ramboll-Environ
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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Former Express Cleaners			License/Permit/Monitoring Number		Boring Number B-43											
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Augi Last Name: Mendez Firm: CS Drilling			Date Drilling Started 0 9 / 1 3 / 2 0 1 6	Date Drilling Completed 0 9 / 1 3 / 2 0 1 6	Drilling Method GeoProbe											
WI Unique Well No. -----	DNR Well ID No. -----	Well Name --	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 2 inches											
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or State Plane <input type="checkbox"/> N, _____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____	Boring Location <input type="checkbox"/> E		Lat _____ ° _____ ' _____ "	Local Grid Location <input type="checkbox"/> N _____ Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet												
Facility ID	County Racine	County Code 5 1	Civil Town/City/ or Village Racine, Wisconsin													
Sample Number and Type	Length Alt. & Recovered (ft)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description and Geologic Origin for Each Major Unit		USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties				RQD/Comments		
Lab Sample (2'-4')	2.0		(0-0.33') Asphalt	--					0.0	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			(0.33-2') Sand and gravel fill (fill)	--				18.4/49.2								
			(2-3') Brown, fine to med. Sand, trace fine gravel (fill)	--				38.9								
			(3-6') Red/brown, fine to medium sand, dense, wet at 5' (possible fill)	4.0					4.7							
									43.0							
			(6-12') Brown, clay, very stiff	6.0					3.2							
									2.6							
				8.0					2.8							
				10.0												
	12.0															
	14.0															
	16.0															
	18.0															
	20.0															
	22.0															
I hereby certify that the information on this form is true and correct to the best of my knowledge.																
Signature		Firm		Ramboll-Environ												

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Waste Management
Other

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Facility/Project Name Former Express Cleaners				License/Permit/Monitoring Number		Boring Number B-44									
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Augi Last Name: Mendez Firm: CS Drilling				Date Drilling Started 0 9 / 1 3 / 2 0 1 6	Date Drilling Completed 0 9 / 1 3 / 2 0 1 6	Drilling Method GeoProbe									
WI Unique Well No. -----	DNR Well ID No. -----	Well Name --	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 2 inches										
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or State Plane 1/4 of _____ 1/4 of Section _____ N, _____ E	Boring Location <input type="checkbox"/> 1/4 of _____, T _____ N, R _____	Lat _____ ° _____ ' _____ " Long _____ ° _____ ' _____ "	Local Grid Location ____ N <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S <input type="checkbox"/> W												
Facility ID	County Racine	County Code 5 1	Civil Town/City/ or Village Racine, Wisconsin												
Number and Type	Length Alt. & Recovered (ft)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description and Geologic Origin for Each Major Unit			RQD/Comments								
				USCS	Graphic Log	Well Diagram		PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
Lab Sample (8-10')	2.0		(0-0.5') Topsoil	--			0.0								
			(0.5-2') Brown, med. Sand, loose (fill)	--			6.9								
			(2-6') Red/brown, fine to med. Sand, well sorted, dense (possible fill)	--			2.2								
							1.6								

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Waste Management
 Other

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Facility/Project Name Former Express Cleaners			License/Permit/Monitoring Number		Boring Number B-45							
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Augi Last Name: Mendez Firm: CS Drilling			Date Drilling Started 0 9 / 1 3 / 2 0 1 6 m m d d y y y y	Date Drilling Completed 0 9 / 1 3 / 2 0 1 6 m m d d y y y y	Drilling Method GeoProbe							
WI Unique Well No. - - - - -	DNR Well ID No. - - - - -	Well Name --	Final Static Water Level - - - - - Feet MSL	Surface Elevation - - - - - Feet MSL	Borehole Diameter 2 inches							
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or State Plane 1/4 of _____ N, _____ E 1/4 of Section, T _____ N, R _____	Boring Location <input type="checkbox"/> Lat _____ ° _____ ' _____ " Long _____ ° _____ ' _____ "	Local Grid Location □ N □ E Feet □ S Feet □ W										
Facility ID	County Racine	County Code 5 1	Civil Town/City/ or Village Racine, Wisconsin									
Sample Number and Type	Length Alt. & Recovered (ft)	Blow Counts Depth in Feet (below ground surface)	Soil/Rock Description and Geologic Origin for Each Major Unit		Soil Properties				RQD/Comments			
			USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			(0-0.67') Topsoil	--		0.0						
		2.0	(0.67-2') Brown, med. Sand, trace fine gravel (fill)	--		55.3						
			(2-3') Brown, clay, medium stiff (fill)	--		47.2						
		4.0	(3-4') Tan, fine to medium sand, dense (possible fill)	--		12.0						
		6.0				5.6						
		8.0	(4-11') Tan, fine to medium sand, dense, wet at 5', grey at 6'			3.8						
		10.0										
		12.0	(11-12') Grey, clay, very stiff	--		2.8						
		14.0										
		16.0										
		18.0										
		20.0										
		22.0										

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Waste Management
Other

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Facility/Project Name Former Express Cleaners				License/Permit/Monitoring Number		Boring Number B-46				
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Augi Last Name: Mendez Firm: CS Drilling				Date Drilling Started 0 9 / 1 3 / 2 0 1 6 m m d d y y y y	Date Drilling Completed 0 9 / 1 3 / 2 0 1 6 m m d d y y y y	Drilling Method GeoProbe				
WI Unique Well No. -----	DNR Well ID No. -----	Well Name --	Final Static Water Level Feet MSL -----	Surface Elevation Feet MSL -----	Borehole Diameter 2 inches					
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) State Plane 1/4 of _____ 1/4 of Section	Boring Location <input type="checkbox"/> N, _____ E , T _____ N, R _____	Lat ° ' " Long ° ' "	Local Grid Location □ N Feet □ S Feet □ W							
Facility ID	County Racine	County Code 5 1	Civil Town/City/ or Village Racine, Wisconsin							
Sample Number and Type	Length Alt. & Recovered (ft)	Blow Counts Depth in Feet (below ground surface)	Soil/Rock Description and Geologic Origin for Each Major Unit		PID/FID	Soil Properties				RQD/Comments
Lab Sample (2 4')	2.0		USCS --	Graphic Log 7.5 6.3	0.0	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200
Lab Sample (6 8')	4.0		CL	5.0 9.7	4.0					
Lab Sample (9 10')	6.0				3.6					
	8.0									
	10.0									
	12.0									
	14.0									
	16.0									
	18.0									
	20.0									
	22.0									
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Waste Management
 Other

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Facility/Project Name Former Express Cleaners			License/Permit/Monitoring Number		Boring Number B-47			
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Augi Last Name: Mendez Firm: CS Drilling			Date Drilling Started 0 9 / 1 3 / 2 0 1 6	Date Drilling Completed 0 9 / 1 3 / 2 0 1 6	Drilling Method GeoProbe			
WI Unique Well No. -----	DNR Well ID No. -----	Well Name --	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 2 inches			
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) State Plane 1/4 of _____ 1/4 of Section _____	Boring Location <input type="checkbox"/> N, _____ E T _____ N, R _____	Lat _____ ° _____ ' _____ " Long _____ ° _____ ' _____ "	Local Grid Location □ N <input type="checkbox"/> E <input type="checkbox"/> Feet <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>					
Facility ID	County Racine	County Code 5 1	Civil Town/City/ or Village Racine, Wisconsin					
Number and Type	Length Alt. & Recovered (ft)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description and Geologic Origin for Each Major Unit				RQD/Comments
				USCS	Graphic Log	Well Diagram	PID/FID	
Lab Sample (1-2')	2.0		(0-0.5') Topsoil	--			5.9	
Lab Sample (5-7')	4.0		(0.5-3') Brown, medium sand, trace fine gravel, dense (fill)	--			5.8	
	6.0		(3-6') Brown, fine to medium sand, dense, moist, wet at 4' (possible fill to 4')	--			5.6	
	8.0		(6-12') Brown, clay, stiff, wet, some sand around 8-10'	CL			8.1	
	10.0						4.6	
	12.0						4.0	
	14.0							
	16.0							
	18.0							
	20.0							
	22.0							

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Facility/Project Name Former Express Cleaners			License/Permit/Monitoring Number		Boring Number B-48										
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Augi Last Name: Mendez Firm: CS Drilling			Date Drilling Started 0 9 / 1 3 / 2 0 1 6 m m d d y y y y	Date Drilling Completed 0 9 / 1 3 / 2 0 1 6 m m d d y y y y	Drilling Method GeoProbe										
WI Unique Well No. -----	DNR Well ID No. -----	Well Name --	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 2 inches										
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E 1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Lat _____ ° _____ ' _____ " Long _____ ° _____ ' _____ "	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> S _____ Feet <input type="checkbox"/> E <input type="checkbox"/> W _____ Feet											
Facility ID		County Racine	County Code 5 1	Civil Town/City/ or Village Racine, Wisconsin											
Number and Type	Length Alt. & Recovered (ft)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description and Geologic Origin for Each Major Unit		USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties				P 200	RQD/Comments
										Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index		
Lab Sample (1-2')	2.0		(0-0.5') Topsoil	--		2.6									
			(0.5-2') Brown, med. Sand, trace fine gravel (fill)	--		6.6									
			(2-3') Brown, fine to medium sand, dense, moist (fill)	--		6.5									
			(3-5.5') Red/brown, fine to medium sand, moist, wet at 4' (possible fill to 4')	--		3.4									
								4.1							
							ML		4.2						
									6.5						
							CL		2.7						
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Waste Management Other

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Facility/Project Name Former Express Cleaners			License/Permit/Monitoring Number		Boring Number B-49										
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Augi Last Name: Mendez Firm: CS Drilling			Date Drilling Started 0 9 / 1 3 / 2 0 1 6 m m d d y y y y	Date Drilling Completed 0 9 / 1 3 / 2 0 1 6 m m d d y y y y	Drilling Method GeoProbe										
WI Unique Well No. - - - - -	DNR Well ID No. - - - - -	Well Name --	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 2 inches										
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or State Plane 1/4 of _____ 1/4 of Section _____, T _____ N, R _____	Boring Location <input type="checkbox"/> N, E	Lat ° ' " Long ° ' "	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W												
Facility ID	County Racine	County Code 5 1	Civil Town/City/ or Village Racine, Wisconsin												
Number and Type	Length Alt. & Recovered (ft)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description and Geologic Origin for Each Major Unit			USCS	Graphic Log	Well Diagram	P/D/FID	Soil Properties				RQD/Comments
				(0-0.5') Topsoil	(0.5-2') Brown, med. Sand, trace fine gravel (fill)	(2-6') Dark brown, fine to medium sand, dense, moist, wet at 4' (possible fill)					Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	
Lab Sample (1-2')	2.0			--			2.4								
Lab Sample (5-7')	4.0			--			2.5								
	6.0			--			2.2								
	8.0			--			3.5								
	10.0			CL			3.8								
	12.0						3.0								
	14.0														
	16.0														
	18.0														
	20.0														
	22.0														
I hereby certify that the information on this form is true and correct to the best of my knowledge.															
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Facility/Project Name Former Express Cleaners			License/Permit/Monitoring Number		Boring Number B-50						
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Augi Last Name: Mendez Firm: CS Drilling			Date Drilling Started 0 9 / 1 3 / 2 0 1 6	Date Drilling Completed 0 9 / 1 3 / 2 0 1 6	Drilling Method GeoProbe						
WI Unique Well No. -----	DNR Well ID No. -----	Well Name --	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 2 inches						
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or State Plane 1/4 of _____ N, _____ E 1/4 of Section _____, T _____ N, R _____	Boring Location <input type="checkbox"/> Lat _____ ° _____ ' _____ " Long _____ ° _____ ' _____ "		Local Grid Location ____ N <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S <input type="checkbox"/> W								
Facility ID Racine	County Racine	County Code 5 1	Civil Town/City/ or Village Racine, Wisconsin								
Number and Type	Sample Length Alt. & Recovered (ft)	Blow Counts Depth in Feet (below ground surface)	Soil/Rock Description and Geologic Origin for Each Major Unit		Soil Properties					RQD/Comments	
			USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200
Lab Sample (1-2')	2.0	(0-0.5') Topsoil (0.5-2') Brown, med. Sand, trace fine gravel (fill) (2-3') Brown, fine to medium sand, dense (fill)	--			2.7					
Lab Sample (5-7')	4.0	(3-6') Red/brown, fine to medium sand, dense, moist, wet at 5' (possible fill to 5')	--			5.1 3.8 5.6					
	6.0	(6-7') Brown, clay stiff	CL			5.0					
	8.0	(7-8') Clayey silt, grey, dense	ML			4.5					
	10.0	(8-12') Brown, clay very stiff	CL			3.5					
	12.0										
	14.0										
	16.0										
	18.0										
	20.0										
	22.0										

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APPENDIX C

Documentation of Fenceline Air Action Levels for Tetrachloroethene and Trichloroethene

Appendix C.

Documentation of Fenceline Air Action Level for Tetrachloroethene and Trichloroethene

Ramboll Environ will compare the results of the integrated fenceline air sampling taken during the duration of the remediation activities to a risk-based air action level (AL) for tetrachloroethene (PCE) and trichloroethene (TCE) to assess the effectiveness of site management activities during source soil remediation. The running average fenceline air concentration may be compared to the air AL to assess whether remediation activities are resulting in perimeter air concentrations that may pose a potential health risk to downwind receptors.

During the remediation activities, the Site will be fenced to limit access, as described in the *Remedial Action Plan* (Ramboll Environ, October 2016). The Site is currently vacant and contains a concrete slab-on-grade that was once part of a one-story, 6,804 square foot strip mall (without a basement), and therefore, there are no current on-site receptors or health risks on the property. Potential offsite receptors include an assisted living facility to the west, a commercial bank to the south, an auto repair shop and drycleaners to the north, and a hair salon to the east. The closest receptor is the auto repair shop and drycleaners to the north. Following the remediation activities, the Site will be redeveloped for light commercial land use.

It should be noted that comparing air ALs directly to fenceline air concentrations is highly conservative, as it does not take into account dispersion and dilution that occurs between the site perimeter and the downwind point of exposure (e.g., assisted living facility, auto shop, etc.). Screening modeling can be performed to calculate a dispersion factor to apply to the air AL to provide for a more realistic assessment of the fenceline monitoring data. The documentation provided in this appendix discusses the derivation of the air action levels only.

The magnitude of the air ALs for PCE and TCE depends on several factors, including target risk level, chemical-specific toxicity, human exposure assumptions, as well as project-specific parameters such as remediation frequency and duration. As described in the *Remedial Action Plan* (Ramboll Environ, October 2016), the soil blending activities for this project are assumed to occur over a twelve hour period, seven days per week, for a project duration of up to 14 days, which is considered a subchronic (less-than-chronic) period of exposure (United States Environmental Protection Agency [USEPA], 2009). The project will occur during year 2016. The basis of the air action levels is described below.

Basis of Air Action Levels

Both PCE and TCE are considered by the USEPA to have both potential carcinogenic and non-carcinogenic effects. USEPA identifies TCE as carcinogenic to humans, and PCE as being likely carcinogenic to humans (USEPA, 2016). Thus, risk-based air concentrations (RBAC) were derived that are protective of both cancer and non-cancer endpoints. For potential carcinogenic effects, RBACs were derived using the three target risk levels within USEPA's acceptable risk range (10^{-6} , 10^{-5} , and 10^{-4}). The equations used to derive the RBACs are based on USEPA's *Regional Screening Levels* (USEPA, 2016a), and have been modified to solve for an air concentration, rather than calculate cancer risk or non-cancer hazard. These air concentrations will be used to evaluate potential health risks to downwind receptors and set air action levels for air monitoring at the Site.

Toxicity values for both types of potential health effects for both PCE and TCE are shown in Table 1. It should be noted that the non-carcinogenic reference concentrations have been derived to be protective of chronic (i.e., lifetime) exposures. Due to the lack of subchronic reference concentrations, chronic values have been used. This is a very conservative approach for evaluating a subchronic period of exposure. For both PCE and TCE, the RBACs for potential carcinogenic and non-carcinogenic effects were derived, and the assumptions and calculations are shown in Tables 2 and 3, respectively. A summary of all calculated RBACs is included in Table 4, and the air ALs to be used in evaluating the fenceline air monitoring data for PCE and TCE are identified.

The equations and assumptions used to derive the Risk-Based Air Concentration (RBAC)s for potential carcinogenic and non-carcinogenic effects are also described below.

Risk-Based Air Concentration Based on Potential Carcinogenic Effects (Cancer Risk-Based)

$$RBAC = \frac{TR \times AT}{IUR \times CF \times ET \times EF \times ED}$$

Where:

- RBAC = Risk-based concentration in air (mg/m^3)
- TR = Acceptable target cancer risk level (unitless) (e.g., 10^{-6} , 10^{-5} , 10^{-4})
- AT = averaging time (70 yr x365 days/year = 25,550 days)
- IUR = inhalation unit risk ($\mu\text{g}/\text{m}^3$)⁻¹
- CF = Unit Conversion Factor (1,000 ug/mg)
- ET = Exposure time (Hours of exposure per day per hours in a day, resulting in a unitless number)
- EF= Exposure frequency is 14 days per year, based on the project duration of 14 days.
- ED = Exposure duration (1 yr)

The parameters are discussed further below.

Target risk – For potential carcinogens, USEPA recommends an acceptable carcinogenic risk range of 1×10^{-4} to 1×10^{-6} . Therefore, when calculating RBACs, it is necessary to specify a target risk level. RBACs were derived using all three target risk levels (10^{-6} , 10^{-5} , and 10^{-4}).

Averaging time – The averaging time used in carcinogenic risk equations is the total lifetime. The default lifetime used in these equations is 70 years (USEPA, 1989). This value is multiplied by 365 days per year, to express the result in days.

Inhalation Unit Risk – The inhalation unit risk is defined by USEPA as “the upper-bound excess lifetime cancer risk estimated to result from continuous exposure to an agent at a concentration of 1 $\mu\text{g}/\text{m}^3$ in air” (USEPA, 2009). It is expressed in units of ($\mu\text{g}/\text{m}^3$)⁻¹. The inhalation unit risks were obtained for inhalation cancer toxicity factors from the following sources:

- USEPA, 2016b. Integrated Risk Information System (IRIS), Chemical Assessment Summary for Trichloroethene (Completion date: September 28, 2011); and
- USEPA, 2016c. Integrated Risk Information System (IRIS), Chemical Assessment Summary for Tetrachloroethene (Completion date: February 10, 2012).

Exposure time – The exposure time is the time during which remediation takes place. It is anticipated that the soil remediation activities will be conducted over a standard 8-hour working day. However, an exposure time of 12 hours per 24 hours of the day is used to provide a protective means to derive the estimate and to account for variability in work patterns. The treatment area is not required to be covered during non-working times, unless air monitoring indicates that the placement of a vapour suppressing foam barrier is necessary, as discussed in Sections 6.3.7 and 6.3.8 in the *Remedial Action Plan* (Ramboll Environ, October 2016).

Exposure frequency (EF) – The exposure frequency is the number of days over which remediation takes place within one year. For this project, the remediation period is assumed to be 14 days in one year. As described in the *Remedial Action Plan* (Ramboll Environ, October 2016), the remediation activities will be completed during Fall 2016.

Exposure duration – The exposure duration is the total number of years over which remediation takes place and is considered within the derivation of RBACs for cancer endpoints. Since the remediation is assumed to take place over a 14-day period, the exposure duration is considered to be 1 year.

Risk-Based Air Concentration Based on Potential Non-carcinogenic Effects

$$RBAC = \frac{RfC * AT}{ET * EF}$$

Where:

- RBAC = Acceptable risk-based concentration in air (mg/m³)
- RfC = Reference concentration (mg/m³)
- ET = Exposure time (Hours of exposure per day per hours in a day, resulting in a unitless number)
- EF= Exposure frequency is 14 days per year, based on the project duration of 14 days.

The equation shown above is based on the USEPA's *Regional Screening Levels* (USEPA, 2016a). For evaluation of non-carcinogenic effects, the averaging time is one year total period of exposure (365 days), and the exposure duration is 14 days for this project. The parameters are discussed further below.

Reference Concentration – The reference concentration is defined as “an estimate (with uncertainty spanning perhaps an order of magnitude) of a continuous inhalation exposure to the human population (including sensitive subgroups) that is likely to be without an appreciable risk of deleterious effects during a lifetime” (USEPA, 2009). It is expressed in units of µg/m³ or mg/m³. It is conservative (health-protective) to use a reference concentration derived to be protective of chronic (long-term) exposure to derive a RBAC for a subchronic (less than lifetime) period of exposure.

The sources listed below were consulted for inhalation reference concentrations for both PCE and TCE:

- USEPA, 2016b. Integrated Risk Information System (IRIS), Chemical Assessment Summary for Trichloroethene (Completion date: September 28, 2011); and
- USEPA, 2016c. Integrated Risk Information System (IRIS), Chemical Assessment Summary for Tetrachloroethene (Completion date: February 10, 2012).

Exposure time – The exposure time is the time during which remediation takes place. For this project, soil remediation activities and potential soil emissions of PCE and TCE are assumed to take place for 12 hours of the 24 hours per day.

Exposure frequency – For evaluation of potential non-carcinogenic effects, the exposure frequency is the number of days over which remediation take place over a one year period. For this project, the remediation period is assumed to be 14 days in one year.

Selection of Fenceline Air Action Levels

A summary of the calculated RBACs based on potential carcinogenic and non-carcinogenic effects using both sets of toxicity factors for TCE and PCE is presented in Table 4.

For TCE, the range of project-specific RBACs range from 0.10 mg/m³ to 89 mg/m³. The lowest of the RBACs is 0.10 mg/m³, which is based on potential non-carcinogenic effects using the IRIS toxicity values for TCE. Thus, 0.10 mg/m³ (0.019 ppmv) is identified as the TCE air action level for use in the fenceline air monitoring to be conducted during soil remediation at the site, and is protective of both potential carcinogenic and non-carcinogenic effects.

For PCE, the range of project-specific RBACs derived using the IRIS toxicity factors is 2.1 mg/m³ to 1,400 mg/m³. It is recommended that the lowest of the RBACs for PCE be selected as the fenceline AL for PCE. This corresponds to an air action level for PCE of 2.1 mg/m³ (0.31 ppmv), which is protective of both potential carcinogenic and non-carcinogenic effects.

References

Ramboll Environ, 2016. Remedial Action Plan for Former Express Cleaners Site. October.

USEPA, 1989. Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part A). EPA/540-1-89/002. December.

USEPA, 2009. Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part F, Supplemental Guidance for Inhalation Risk Assessment), EPA-540-R-070-002, OSWER 9285.7-82, January 2009.

USEPA, 2016a. Regional Screening Levels. May. Available online at <https://www.epa.gov/risk/regional-screening-levels-rsls>

USEPA, 2016b. Integrated Risk Information System (IRIS), Chemical Assessment Summary for Tetrachloroethene (Completion date: February 10, 2012).

USEPA, 2016c. Integrated Risk Information System (IRIS), Chemical Assessment Summary for Trichloroethene (Completion date: September 28, 2011).

Table C-1
Toxicity Criteria for Tetrachloroethene and Trichloroethene
Former Express Cleaners Property
Racine, Wisconsin

Chemical	Inhalation Unit Risk (ug/m ³) ⁻¹	Inhalation Reference Concentration (mg/m ³) ^(c)
TCE (USEPA)	4.1E-06 (a)	2.00E-03 (a)
PCE (USEPA)	2.60E-07 (b)	4.00E-02 (b)

Notes:

(a) USEPA, 2016. Integrated Risk Information System (IRIS), Chemical Assessment Summary for Trichloroethene (Completion date: September 28, 2011). Available online at: https://cfpub.epa.gov/ncea/iris2/chemicalLanding.cfm?substance_nmbr=199

(b) USEPA, 2016. Integrated Risk Information System (IRIS), Chemical Assessment Summary for Tetrachloroethene (Completion date: February 10, 2012). Available online at: https://cfpub.epa.gov/ncea/iris2/chemicalLanding.cfm?substance_nmbr=106

(c) The reference concentration is "an estimate (with uncertainty spanning perhaps an order of magnitude) of a continuous inhalation exposure to the human population (including sensitive subgroups) that is likely to be without an appreciable risk of deleterious effects during a lifetime." (USEPA, 2009a). The reference concentrations are derived to be protective of chronic (long-term) inhalation exposures, and thus are very conservative for evaluating a subchronic period of exposure.

Table C-2
Derivation of Risk-Based Air Concentration for PCE and TCE (Carcinogenic Effects)
Former Express Cleaners Property
Racine, Wisconsin

Chemical	Target Cancer Risk Level	Lifetime (years)	Days per year Exposed (days/year)	Averaging Time (days) ^(a)	Inhalation Unit Risk (m ³ /ug)	Conversion Factor (ug/mg)	Hours of exposure ^(b)	Hours in a day ^(b)	Exposure Frequency ^(c)	Exposure Duration (yr) ^(d)	RBAC (mg/m ³) ^(e)
TCE (USEPA)	1.00E-06	70	365	25550	4.10E-06	1.00E+03	12	24	14	1	0.89
PCE (USEPA)	1.00E-06	70	365	25550	2.60E-07	1.00E+03	12	24	14	1	14.0

Notes:
RBAC - Risk-Based Air Concentration
(a) Averaging Time (days) = 365 days/year for 70 years
(b) The hours of exposure and hours in a day are used to calculate the exposure time, which is the ratio of the number of hours of exposure to the number of hours in a day.
(c) The work will be conducted over a 14 day period during one year, giving an exposure frequency of 14 days per year.
(e) Risk-Based Air Concentration (mg/m³) =
$$\frac{TR * AT \text{ (days)}}{IUR \text{ (m}^3\text{/ug)} * (1000 \text{ ug/mg}) * \text{Exposure Time} * \text{Exposure Frequency} * \text{Exposure Duration (yr)}}$$

Table C-3**Derivation of Risk-Based Air Concentration for PCE and TCE (Noncarcinogenic Effects)**

Former Express Cleaners Property

Racine, Wisconsin

Chemical	Reference Concentration (mg/m ³)	Hours of exposure ^(a)	Hours in a day ^(a)	Days per year Exposed ^(b)	Averaging time (days) ^(c)	RBAC (mg/m ³) ^(d)
TCE (USEPA)	2.00E-03	12	24	14	365	0.10
PCE (USEPA)	4.00E-02	12	24	14	365	2.1

Notes:

RBAC - Risk-Based Air Concentration

(a) The hours of exposure and hours in a day are used to calculate the exposure time, which is the ratio of the number of hours of exposure to the number of hours in a day.

(b) The work will be conducted over a 14 day period during one year, giving an exposure frequency of 14 days per year.

(c) An averaging time of 365 days per year is assumed since the work will be completed during one year.

(d) Risk-Based Air Concentration (mg/m³) =
$$\frac{\text{Reference Concentration (mg/m}^3\text{)} * \text{Averaging Time (365 days/year)}}{\text{Exposure Time (unitless)} * \text{Exposure Frequency (14 days/year)}}$$

Table C-4
Selection of Fenceline Air Action Level for PCE and TCE
Former Express Cleaners Property
Racine, Wisconsin

Chemical	Risk-Based Air Concentration (mg/m ³)				Fenceline Air Action Level ^(a) (mg/m ³)	Fenceline Air Action Level ^(a) (ug/m ³)	Fenceline Air Action Level ^(a,b) (ppm _v)			
	Non-cancer	Cancer								
		10 ⁻⁶	10 ⁻⁵	10 ⁻⁴						
TCE (USEPA)	0.10	0.89	8.9	89	0.10	104	0.019			
PCE (USEPA)	2.1	14	140	1,404	2.1	2,086	0.31			

Notes:

(a) - Lowest of cancer and non-cancer risk-based air concentrations for each chemical.

(b) - Molecular weights for PCE and TCE are as follows:

Molecular Weight _{PCE} =	165.83 g/mol
Molecular Weight _{TCE} =	131.4 g/mol

APPENDIX D

Laboratory Analytical Reports for Pre-Remediation Sampling Activities

October 06, 2016

Scott Tarmann
Environ
175 N. Corporate Dr.
Brookfield, WI 53045

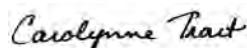
RE: Project: 21-41301A Express Cleaners
Pace Project No.: 10363661

Dear Scott Tarmann:

Enclosed are the analytical results for sample(s) received by the laboratory on September 23, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

cc: Michelle Murphy, Environ
Abigail Wedig, Environ



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 21-41301A Express Cleaners
 Pace Project No.: 10363661

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414	Michigan DEPH Certification #: 9909
Alaska Certification UST-107	Minnesota Certification #: 027-053-137
525 N 8th Street, Salina, KS 67401	Mississippi Certification #: Pace
A2LA Certification #: 2926.01	Montana Certification #: MT0092
Alaska Certification #: UST-078	Nevada Certification #: MN_00064
Alaska Certification #MN00064	Nebraska Certification #: Pace
Alabama Certification #40770	New Jersey Certification #: MN-002
Arizona Certification #: AZ-0014	New York Certification #: 11647
Arkansas Certification #: 88-0680	North Carolina Certification #: 530
California Certification #: 01155CA	North Carolina State Public Health #: 27700
Colorado Certification #Pace	North Dakota Certification #: R-036
Connecticut Certification #: PH-0256	Ohio EPA #: 4150
EPA Region 8 Certification #: 8TMS-L	Ohio VAP Certification #: CL101
Florida/NELAP Certification #: E87605	Oklahoma Certification #: 9507
Guam Certification #:14-008r	Oregon Certification #: MN200001
Georgia Certification #: 959	Oregon Certification #: MN300001
Georgia EPD #: Pace	Pennsylvania Certification #: 68-00563
Idaho Certification #: MN00064	Puerto Rico Certification
Hawaii Certification #MN00064	Saipan (CNMI) #.MP0003
Illinois Certification #: 200011	South Carolina #:74003001
Indiana Certification#C-MN-01	Texas Certification #: T104704192
Iowa Certification #: 368	Tennessee Certification #: 02818
Kansas Certification #: E-10167	Utah Certification #: MN000642013-4
Kentucky Dept of Envi. Protection - DW #90062	Virginia DGS Certification #: 251
Kentucky Dept of Envi. Protection - WW #:90062	Virginia/VELAP Certification #: Pace
Louisiana DEQ Certification #: 3086	Washington Certification #: C486
Louisiana DHH #: LA140001	West Virginia Certification #: 382
Maine Certification #: 2013011	West Virginia DHHR #:9952C
Maryland Certification #: 322	Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 21-41301A Express Cleaners

Pace Project No.: 10363661

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10363661001	SS-VP-1	Air	09/22/16 11:15	09/23/16 09:45
10363661002	SS-VP-2	Air	09/22/16 11:40	09/23/16 09:45

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SAMPLE ANALYTE COUNT

Project: 21-41301A Express Cleaners
Pace Project No.: 10363661

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10363661001	SS-VP-1	TO-15	NCK	5	PASI-M
10363661002	SS-VP-2	TO-15	NCK	5	PASI-M

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ANALYTICAL RESULTS

Project: 21-41301A Express Cleaners
Pace Project No.: 10363661

Sample: SS-VP-1	Lab ID: 10363661001	Collected: 09/22/16 11:15	Received: 09/23/16 09:45	Matrix: Air					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	3.0	ug/m3	1.3	0.38	1.55		10/06/16 01:58	156-59-2	
trans-1,2-Dichloroethene	<0.60	ug/m3	1.3	0.60	1.55		10/06/16 01:58	156-60-5	
Tetrachloroethene	298	ug/m3	1.1	0.43	1.55		10/06/16 01:58	127-18-4	
Trichloroethene	11.1	ug/m3	0.85	0.43	1.55		10/06/16 01:58	79-01-6	
Vinyl chloride	<0.30	ug/m3	0.40	0.30	1.55		10/06/16 01:58	75-01-4	

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ANALYTICAL RESULTS

Project: 21-41301A Express Cleaners
Pace Project No.: 10363661

Sample: SS-VP-2	Lab ID: 10363661002	Collected: 09/22/16 11:40	Received: 09/23/16 09:45	Matrix: Air					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	<0.40	ug/m3	1.3	0.40	1.61		10/06/16 02:29	156-59-2	
trans-1,2-Dichloroethene	<0.62	ug/m3	1.3	0.62	1.61		10/06/16 02:29	156-60-5	
Tetrachloroethene	6440	ug/m3	355	143	515.2		10/06/16 13:58	127-18-4	A3
Trichloroethene	3.2	ug/m3	0.89	0.44	1.61		10/06/16 02:29	79-01-6	
Vinyl chloride	<0.31	ug/m3	0.42	0.31	1.61		10/06/16 02:29	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21-41301A Express Cleaners

Pace Project No.: 10363661

QC Batch:	439271	Analysis Method:	TO-15
QC Batch Method:	TO-15	Analysis Description:	TO15 MSV AIR Low Level
Associated Lab Samples:	10363661001, 10363661002		

METHOD BLANK: 2386901 Matrix: Air

Associated Lab Samples: 10363661001, 10363661002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	10/05/16 09:06	
Tetrachloroethene	ug/m3	<0.28	0.69	10/05/16 09:06	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	10/05/16 09:06	
Trichloroethene	ug/m3	<0.28	0.55	10/05/16 09:06	
Vinyl chloride	ug/m3	<0.20	0.26	10/05/16 09:06	

LABORATORY CONTROL SAMPLE: 2386902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	47.6	118	65-139	
Tetrachloroethene	ug/m3	69	80.3	116	60-142	
trans-1,2-Dichloroethene	ug/m3	40.3	45.3	112	67-137	
Trichloroethene	ug/m3	54.6	58.4	107	60-144	
Vinyl chloride	ug/m3	26	28.4	109	63-135	

SAMPLE DUPLICATE: 2388780

Parameter	Units	10363644001 Result	Dup Result	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.34	25	
Tetrachloroethene	ug/m3	ND	<0.39	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.54	25	
Trichloroethene	ug/m3	ND	<0.39	25	
Vinyl chloride	ug/m3	ND	<0.27	25	

SAMPLE DUPLICATE: 2388797

Parameter	Units	10363644002 Result	Dup Result	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.38	25	
Tetrachloroethene	ug/m3	1.1	0.87J	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.60	25	
Trichloroethene	ug/m3	ND	<0.43	25	
Vinyl chloride	ug/m3	ND	<0.30	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 21-41301A Express Cleaners
Pace Project No.: 10363661

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

A3 The sample was analyzed by serial dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 21-41301A Express Cleaners

Pace Project No.: 10363661

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10363661001	SS-VP-1	TO-15	439271		
10363661002	SS-VP-2	TO-15	439271		

REPORT OF LABORATORY ANALYSIS

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10363661

Section A
 Required Client Information:

Section B
 Required Project Information:

Section C
 Invoice Information:

Company: Ramboil Enviro	Report To: Scott Tarmann	Attention:
Address: 175 N. Co-patch Dr #160 Brownfield WI 53505	Copy To:	Company Name:
Email To: SCOTT.TARMANN@RAMBOIL.COM	Purchase Order No.:	Address:
Phone: 262 901 0093	Project Name: Express Cleaners	Pace Quote Reference: 00031327
Fax: 	Project Number: 21-41301A	Pace Project Manager/Sales Rep. mike Dew
Requested Due Date/TAT: STD	Pace Profile #: 	

28875

 Page: **1** of **1**
Program

UST Superfund Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other

Location of Sampling by State **WI** Reporting Units
 $\mu\text{g}/\text{m}^3$ mg/m^3
 PPBV PPMV
 Other

 Report Level **II.** **III.** **IV.** **Other**
Method:

PM10
 3C-Fixed Gas (%)
 TO-3 (Methane)
 TO-4 (PCBS)
 TO-13 (PAH)
 TO-14
 TO-15
 TO-15 Short List

Pace Lab ID

ITEM #	Section D Required Client Information		PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number					
	AIR SAMPLE ID			COMPOSITE												
	Sample IDs MUST BE UNIQUE			COMPOSITE START		COMPOSITE END/GRAB										
	MEDIA	CODE		DATE	TIME	DATE	TIME									
1	6LC	2.1	9/22/16	10:38	9/22/16	11:15		-23	-4	0010	FC 1191					
2	6LC	0.0	9/22/16	11:03	9/22/16	11:40		-25	-5	0326	FC 1221					
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Comments:

Report only

Vinyl chloride

Trichloroethylene

Tetra chloroethylene

cis 1,2-DCE

trans 1,2,-DCE

ORIGINAL

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
D. Mahr/Ramboil	9/22/16	16:00	Reed	9/22/16	16:00	<input type="checkbox"/> Y/N <input type="checkbox"/> Y/N <input type="checkbox"/> Y/N <input type="checkbox"/> Y/N
			Mark Kliz/Pace	9/23/16	9:45 AMB	<input checked="" type="checkbox"/> Y/N <input type="checkbox"/> Y/N <input type="checkbox"/> Y/N <input type="checkbox"/> Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

 David Mahr Kliz
 Mahr Kliz

DATE Signed (MM/DD/YR)

9/22/16

Temp In °C	Received on Ice	Custody Seal	Sealed Cooler	Samples Intact

	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26APR2016 Page 1 of 1
	Document No.: F-MN-A-106-rev.11	Issuing Authority: Pace Minnesota Quality Office
Air Sample Condition Upon Receipt	Client Name: <i>Ramboill Enviro</i>	Project #: WO# : 10363661
Courier:	<input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Speedee <input type="checkbox"/> Client <input type="checkbox"/> Commercial <input type="checkbox"/> Pace <input type="checkbox"/> Other: _____	 10363661
Tracking Number:	77729221380	

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No Optional: Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): _____ Corrected Temp (°C): _____ Thermom. Used: B88A912167504 151401163
 B88A0143310098 151401164

Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: *9-23-16 AM*

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	10.
Media: <input checked="" type="checkbox"/> Air Can <input type="checkbox"/> Airbag <input type="checkbox"/> Filter TDT Passive	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: *Carylyne Hunt* Date: 9/26/16
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

September 28, 2016

Jeanne Tarvin
Ramboll Environ
175 North Corporate Drive
Suite 160
Brookfield, WI 53045

RE: Project: 21-41301A EXPRESS CLEANERS
Pace Project No.: 40138259

Dear Jeanne Tarvin:

Enclosed are the analytical results for sample(s) received by the laboratory on September 14, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Steven Mleczko
steve.mleczko@pacelabs.com
Project Manager

Enclosures

cc: Jon Fuqua, Ramboll Environ
Jim Hutchens, Ramboll Environ
Jim Kane, Ramboll Environ
Snejana Karakis, Environ
David L. Markelz, Ramboll Environ
Michelle Murphy, Environ
Abigail M. Wedig, Environ International Corp



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 21-41301A EXPRESS CLEANERS
Pace Project No.: 40138259

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302	South Carolina Certification #: 83006001
Florida/NELAP Certification #: E87948	Texas Certification #: T104704529-14-1
Illinois Certification #: 200050	US Dept of Agriculture #: S-76505
Kentucky Certification #: 82	Virginia VELAP Certification ID: 460263
Louisiana Certification #: 04168	Virginia VELAP ID: 460263
Minnesota Certification #: 055-999-334	Wisconsin Certification #: 405132750
Virginia VELAP ID: 460263	Wisconsin DATCP Certification #: 105-444
North Dakota Certification #: R-150	

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40138259001	B-35 (6-7')	Solid	09/13/16 08:00	09/14/16 16:10
40138259002	B-35 (9-10')	Solid	09/13/16 08:03	09/14/16 16:10
40138259003	B-35 (12-13')	Solid	09/13/16 08:40	09/14/16 16:10
40138259004	B-36 (6-7')	Solid	09/13/16 09:05	09/14/16 16:10
40138259005	B-36 (9-10')	Solid	09/13/16 09:07	09/14/16 16:10
40138259006	B-37 (2-4')	Solid	09/13/16 09:35	09/14/16 16:10
40138259007	B-37 (6-8')	Solid	09/13/16 09:50	09/14/16 16:10
40138259008	B-37 (9-10')	Solid	09/13/16 09:55	09/14/16 16:10
40138259009	B-38 (2-4')	Solid	09/13/16 10:15	09/14/16 16:10
40138259010	B-38 (6-8')	Solid	09/13/16 10:20	09/14/16 16:10
40138259011	B-39 (3-5')	Solid	09/13/16 10:58	09/14/16 16:10
40138259012	B-39 (9-10')	Solid	09/13/16 11:02	09/14/16 16:10
40138259013	B-40 (2-4')	Solid	09/13/16 11:28	09/14/16 16:10
40138259014	B-40 (6-8')	Solid	09/13/16 11:31	09/14/16 16:10
40138259015	B-40 (9-10')	Solid	09/13/16 11:35	09/14/16 16:10
40138259016	B-41 (5-7')	Solid	09/13/16 12:50	09/14/16 16:10
40138259017	B-41 (9-10')	Solid	09/13/16 12:52	09/14/16 16:10
40138259018	B-42 (2-4')	Solid	09/13/16 13:05	09/14/16 16:10
40138259019	B-42 (6-8')	Solid	09/13/16 13:20	09/14/16 16:10
40138259020	B-43 (2-4')	Solid	09/13/16 13:45	09/14/16 16:10
40138259021	B-43 (6-8')	Solid	09/13/16 13:50	09/14/16 16:10
40138259022	B-43 (9-10')	Solid	09/13/16 14:00	09/14/16 16:10
40138259023	B-44 (8-10')	Solid	09/13/16 14:20	09/14/16 16:10
40138259024	B-45 (6-8')	Solid	09/13/16 14:50	09/14/16 16:10
40138259025	B-45 (9-10')	Solid	09/13/16 14:55	09/14/16 16:10
40138259026	B-45 (11-12')	Solid	09/13/16 15:00	09/14/16 16:10
40138259027	B-46 (2-4')	Solid	09/13/16 15:20	09/14/16 16:10
40138259028	B-46 (6-8')	Solid	09/13/16 15:25	09/14/16 16:10
40138259029	B-46 (9-10')	Solid	09/13/16 15:30	09/14/16 16:10
40138259030	B-47 (1-2')	Solid	09/13/16 15:30	09/14/16 16:10
40138259031	B-47 (5-7')	Solid	09/13/16 15:35	09/14/16 16:10
40138259032	B-48 (1-2')	Solid	09/13/16 16:00	09/14/16 16:10
40138259033	B-48 (5-7')	Solid	09/13/16 16:05	09/14/16 16:10
40138259034	B-49 (1-2')	Solid	09/13/16 16:20	09/14/16 16:10
40138259035	B-49 (5-7')	Solid	09/13/16 16:25	09/14/16 16:10
40138259036	B-50 (1-2')	Solid	09/13/16 16:35	09/14/16 16:10
40138259037	B-50 (5-7')	Solid	09/13/16 16:40	09/14/16 16:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40138259038	MEOH TRIP BLANK	Solid	09/13/16 00:00	09/14/16 16:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 21-41301A EXPRESS CLEANERS
Pace Project No.: 40138259

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40138259001	B-35 (6-7')	EPA 8260 ASTM D2974-87	SMT TEL	65 1	PASI-G
40138259002	B-35 (9-10')	EPA 8260 ASTM D2974-87	SMT TEL	65 1	PASI-G
40138259003	B-35 (12-13')	EPA 8260 ASTM D2974-87	SMT TEL	65 1	PASI-G
40138259004	B-36 (6-7')	EPA 8260 ASTM D2974-87	SMT TEL	65 1	PASI-G
40138259005	B-36 (9-10')	EPA 8260 ASTM D2974-87	SMT TEL	65 1	PASI-G
40138259006	B-37 (2-4')	EPA 8260 ASTM D2974-87	SMT TEL	65 1	PASI-G
40138259007	B-37 (6-8')	EPA 8260 ASTM D2974-87	SMT TEL	65 1	PASI-G
40138259008	B-37 (9-10')	EPA 8260 ASTM D2974-87	SMT TEL	65 1	PASI-G
40138259009	B-38 (2-4')	EPA 8260 ASTM D2974-87	SMT TEL	65 1	PASI-G
40138259010	B-38 (6-8')	EPA 8260 ASTM D2974-87	SMT TEL	65 1	PASI-G
40138259011	B-39 (3-5')	EPA 8260 ASTM D2974-87	SMT TEL	65 1	PASI-G
40138259012	B-39 (9-10')	EPA 8260 ASTM D2974-87	SMT TEL	65 1	PASI-G
40138259013	B-40 (2-4')	EPA 8260 ASTM D2974-87	SMT TEL	65 1	PASI-G
40138259014	B-40 (6-8')	EPA 8260 ASTM D2974-87	SMT TEL	65 1	PASI-G
40138259015	B-40 (9-10')	EPA 8260 ASTM D2974-87	SMT TEL	65 1	PASI-G
40138259016	B-41 (5-7')	EPA 8260 ASTM D2974-87	SMT TEL	65 1	PASI-G
40138259017	B-41 (9-10')	EPA 8260 ASTM D2974-87	SMT TEL	65 1	PASI-G
40138259018	B-42 (2-4')	EPA 8260 ASTM D2974-87	SMT TEL	65 1	PASI-G
40138259019	B-42 (6-8')	EPA 8260	SMT	65	PASI-G

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SAMPLE ANALYTE COUNT

Project: 21-41301A EXPRESS CLEANERS
Pace Project No.: 40138259

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	TEL	1	PASI-G
40138259020	B-43 (2-4')	EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40138259021	B-43 (6-8')	EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40138259022	B-43 (9-10')	EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40138259023	B-44 (8-10')	EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40138259024	B-45 (6-8')	EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40138259025	B-45 (9-10')	EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40138259026	B-45 (11-12')	EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40138259027	B-46 (2-4')	EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40138259028	B-46 (6-8')	EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40138259029	B-46 (9-10')	EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40138259030	B-47 (1-2')	EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40138259031	B-47 (5-7')	EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40138259032	B-48 (1-2')	EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40138259033	B-48 (5-7')	EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40138259034	B-49 (1-2')	EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40138259035	B-49 (5-7')	EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40138259036	B-50 (1-2')	EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40138259037	B-50 (5-7')	EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	TEL	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 21-41301A EXPRESS CLEANERS
Pace Project No.: 40138259

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40138259038	MEOH TRIP BLANK	EPA 8260	SMT	65	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 21-41301A EXPRESS CLEANERS
Pace Project No.: 40138259

Lab Sample ID	Client Sample ID						
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers	
40138259001	B-35 (6-7')						
EPA 8260	Tetrachloroethene	3020	ug/kg	72.5	09/19/16 16:26		
EPA 8260	Trichloroethene	842	ug/kg	72.5	09/19/16 16:26		
EPA 8260	cis-1,2-Dichloroethene	122	ug/kg	72.5	09/19/16 16:26		
ASTM D2974-87	Percent Moisture	15.5	%	0.10	09/26/16 14:21		
40138259002	B-35 (9-10')						
EPA 8260	cis-1,2-Dichloroethene	33.0J	ug/kg	66.9	09/19/16 16:49		
ASTM D2974-87	Percent Moisture	10.3	%	0.10	09/26/16 14:22		
40138259003	B-35 (12-13')						
ASTM D2974-87	Percent Moisture	17.5	%	0.10	09/26/16 14:22		
40138259004	B-36 (6-7')						
EPA 8260	Tetrachloroethene	39300	ug/kg	350	09/20/16 09:39		
EPA 8260	Trichloroethene	344J	ug/kg	350	09/20/16 09:39		
EPA 8260	cis-1,2-Dichloroethene	166J	ug/kg	350	09/20/16 09:39		
ASTM D2974-87	Percent Moisture	14.3	%	0.10	09/26/16 14:22		
40138259005	B-36 (9-10')						
ASTM D2974-87	Percent Moisture	16.2	%	0.10	09/26/16 14:22		
40138259006	B-37 (2-4')						
EPA 8260	Tetrachloroethene	143	ug/kg	66.7	09/19/16 17:58		
ASTM D2974-87	Percent Moisture	10.0	%	0.10	09/26/16 14:22		
40138259007	B-37 (6-8')						
EPA 8260	Tetrachloroethene	567	ug/kg	72.9	09/21/16 19:13		
EPA 8260	Trichloroethene	115	ug/kg	72.9	09/21/16 19:13		
EPA 8260	cis-1,2-Dichloroethene	39.1J	ug/kg	72.9	09/21/16 19:13		
ASTM D2974-87	Percent Moisture	17.7	%	0.10	09/26/16 14:22		
40138259008	B-37 (9-10')						
EPA 8260	cis-1,2-Dichloroethene	101	ug/kg	67.8	09/21/16 19:36		
ASTM D2974-87	Percent Moisture	11.5	%	0.10	09/26/16 14:22		
40138259009	B-38 (2-4')						
EPA 8260	Tetrachloroethene	79.4	ug/kg	65.8	09/21/16 19:58		
ASTM D2974-87	Percent Moisture	8.8	%	0.10	09/26/16 14:22		
40138259010	B-38 (6-8')						
ASTM D2974-87	Percent Moisture	12.6	%	0.10	09/26/16 14:22		
40138259011	B-39 (3-5')						
EPA 8260	Tetrachloroethene	2070	ug/kg	63.9	09/21/16 20:44		
ASTM D2974-87	Percent Moisture	6.0	%	0.10	09/26/16 14:23		
40138259012	B-39 (9-10')						
ASTM D2974-87	Percent Moisture	18.5	%	0.10	09/27/16 08:03		
40138259013	B-40 (2-4')						
EPA 8260	Tetrachloroethene	1530	ug/kg	65.9	09/21/16 23:04		
ASTM D2974-87	Percent Moisture	8.0	%	0.10	09/27/16 08:03		

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Lab Sample ID	Client Sample ID						
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers	
40138259014	B-40 (6-8')						
EPA 8260	Tetrachloroethene	44200	ug/kg	596	09/22/16 03:41		
EPA 8260	Trichloroethene	299J	ug/kg	596	09/22/16 03:41		
ASTM D2974-87	Percent Moisture	12.5	%	0.10	09/27/16 08:03		
40138259015	B-40 (9-10')						
EPA 8260	Tetrachloroethene	127	ug/kg	69.8	09/21/16 23:27		
ASTM D2974-87	Percent Moisture	14.0	%	0.10	09/27/16 08:03		
40138259016	B-41 (5-7')						
EPA 8260	Tetrachloroethene	2860	ug/kg	78.6	09/21/16 23:50		
ASTM D2974-87	Percent Moisture	22.1	%	0.10	09/27/16 08:03		
40138259017	B-41 (9-10')						
ASTM D2974-87	Percent Moisture	13.3	%	0.10	09/27/16 08:03		
40138259018	B-42 (2-4')						
EPA 8260	Tetrachloroethene	33.1J	ug/kg	68.4	09/22/16 00:36		
ASTM D2974-87	Percent Moisture	12.3	%	0.10	09/27/16 08:03		
40138259019	B-42 (6-8')						
ASTM D2974-87	Percent Moisture	17.1	%	0.10	09/27/16 08:03		
40138259020	B-43 (2-4')						
EPA 8260	Tetrachloroethene	800	ug/kg	284	09/22/16 01:22		
ASTM D2974-87	Percent Moisture	78.9	%	0.10	09/21/16 10:43		
40138259021	B-43 (6-8')						
EPA 8260	Tetrachloroethene	161J	ug/kg	228	09/22/16 01:45		
EPA 8260	cis-1,2-Dichloroethene	187J	ug/kg	228	09/22/16 01:45		
ASTM D2974-87	Percent Moisture	73.7	%	0.10	09/21/16 10:43		
40138259022	B-43 (9-10')						
ASTM D2974-87	Percent Moisture	67.1	%	0.10	09/21/16 10:44		
40138259023	B-44 (8-10')						
ASTM D2974-87	Percent Moisture	14.1	%	0.10	09/27/16 08:04		
40138259024	B-45 (6-8')						
EPA 8260	Tetrachloroethene	110000	ug/kg	1400	09/22/16 04:04		
EPA 8260	Trichloroethene	871J	ug/kg	1400	09/22/16 04:04		
ASTM D2974-87	Percent Moisture	14.1	%	0.10	09/27/16 08:04		
40138259025	B-45 (9-10')						
EPA 8260	Tetrachloroethene	157000	ug/kg	1450	09/22/16 04:27		
ASTM D2974-87	Percent Moisture	17.1	%	0.10	09/27/16 08:04		
40138259026	B-45 (11-12')						
EPA 8260	Tetrachloroethene	622	ug/kg	72.1	09/22/16 02:55		
ASTM D2974-87	Percent Moisture	16.8	%	0.10	09/27/16 08:04		
40138259027	B-46 (2-4')						
EPA 8260	Tetrachloroethene	352	ug/kg	71.4	09/22/16 03:18		

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 21-41301A EXPRESS CLEANERS
Pace Project No.: 40138259

Lab Sample ID	Client Sample ID	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40138259027	B-46 (2-4')						
ASTM D2974-87	Percent Moisture		14.2	%	0.10	09/27/16 08:04	
40138259028	B-46 (6-8')						
ASTM D2974-87	Percent Moisture		13.1	%	0.10	09/27/16 08:04	
40138259029	B-46 (9-10')						
ASTM D2974-87	Percent Moisture		11.5	%	0.10	09/27/16 08:04	
40138259030	B-47 (1-2')						
ASTM D2974-87	Percent Moisture		10.2	%	0.10	09/27/16 08:04	
40138259031	B-47 (5-7')						
ASTM D2974-87	Percent Moisture		13.9	%	0.10	09/27/16 08:04	
40138259032	B-48 (1-2')						
EPA 8260	Tetrachloroethene		174	ug/kg	64.8	09/22/16 08:20	
ASTM D2974-87	Percent Moisture		7.4	%	0.10	09/27/16 08:04	
40138259033	B-48 (5-7')						
EPA 8260	Styrene		114	ug/kg	71.8	09/22/16 13:21	
ASTM D2974-87	Percent Moisture		16.4	%	0.10	09/27/16 08:04	
40138259034	B-49 (1-2')						
ASTM D2974-87	Percent Moisture		9.8	%	0.10	09/27/16 08:05	
40138259035	B-49 (5-7')						
ASTM D2974-87	Percent Moisture		13.4	%	0.10	09/27/16 08:34	
40138259036	B-50 (1-2')						
ASTM D2974-87	Percent Moisture		9.5	%	0.10	09/27/16 08:34	
40138259037	B-50 (5-7')						
ASTM D2974-87	Percent Moisture		12.8	%	0.10	09/27/16 08:35	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-35 (6-7') Lab ID: 40138259001 Collected: 09/13/16 08:00 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	630-20-6	W
1,1,1-Trichloroethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	79-34-5	W
1,1,2-Trichloroethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	79-00-5	W
1,1-Dichloroethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	75-34-3	W
1,1-Dichloroethene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	75-35-4	W
1,1-Dichloropropene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	563-58-6	W
1,2,3-Trichlorobenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	87-61-6	W
1,2,3-Trichloropropane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	96-18-4	W
1,2,4-Trichlorobenzene	<48.5	ug/kg	255	48.5	1	09/19/16 08:00	09/19/16 16:26	120-82-1	W
1,2,4-Trimethylbenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	95-63-6	W
1,2-Dibromo-3-chloropropane	<93.1	ug/kg	255	93.1	1	09/19/16 08:00	09/19/16 16:26	96-12-8	W
1,2-Dibromoethane (EDB)	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	106-93-4	W
1,2-Dichlorobenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	95-50-1	W
1,2-Dichloroethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	107-06-2	W
1,2-Dichloropropane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	78-87-5	W
1,3,5-Trimethylbenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	108-67-8	W
1,3-Dichlorobenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	541-73-1	W
1,3-Dichloropropane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	142-28-9	W
1,4-Dichlorobenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	106-46-7	W
2,2-Dichloropropane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	594-20-7	W
2-Chlorotoluene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	95-49-8	W
4-Chlorotoluene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	106-43-4	W
Benzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	71-43-2	W
Bromobenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	108-86-1	W
Bromochloromethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	74-97-5	W
Bromodichloromethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	75-27-4	W
Bromoform	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	75-25-2	W
Bromomethane	<71.3	ug/kg	255	71.3	1	09/19/16 08:00	09/19/16 16:26	74-83-9	W
Carbon tetrachloride	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	56-23-5	W
Chlorobenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	108-90-7	W
Chloroethane	<68.4	ug/kg	255	68.4	1	09/19/16 08:00	09/19/16 16:26	75-00-3	W
Chloroform	<47.4	ug/kg	255	47.4	1	09/19/16 08:00	09/19/16 16:26	67-66-3	W
Chloromethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	74-87-3	W
Dibromochloromethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	124-48-1	W
Dibromomethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	74-95-3	W
Dichlorodifluoromethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	75-71-8	W
Diisopropyl ether	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	108-20-3	W
Ethylbenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	100-41-4	W
Hexachloro-1,3-butadiene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	87-68-3	W
Isopropylbenzene (Cumene)	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	98-82-8	W
Methyl-tert-butyl ether	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	1634-04-4	W
Methylene Chloride	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	75-09-2	W
Naphthalene	<40.9	ug/kg	255	40.9	1	09/19/16 08:00	09/19/16 16:26	91-20-3	W
Styrene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-35 (6-7') Lab ID: 40138259001 Collected: 09/13/16 08:00 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	3020	ug/kg	72.5	30.2	1	09/19/16 08:00	09/19/16 16:26	127-18-4	
Toluene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	108-88-3	W
Trichloroethene	842	ug/kg	72.5	30.2	1	09/19/16 08:00	09/19/16 16:26	79-01-6	
Trichlorofluoromethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	75-69-4	W
Vinyl chloride	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	75-01-4	W
Xylene (Total)	<76.5	ug/kg	184	76.5	1	09/19/16 08:00	09/19/16 16:26	1330-20-7	W
cis-1,2-Dichloroethene	122	ug/kg	72.5	30.2	1	09/19/16 08:00	09/19/16 16:26	156-59-2	
cis-1,3-Dichloropropene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	10061-01-5	W
m&p-Xylene	<51.0	ug/kg	122	51.0	1	09/19/16 08:00	09/19/16 16:26	179601-23-1	W
n-Butylbenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	104-51-8	W
n-Propylbenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	103-65-1	W
o-Xylene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	95-47-6	W
p-Isopropyltoluene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	99-87-6	W
sec-Butylbenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	135-98-8	W
tert-Butylbenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	98-06-6	W
trans-1,2-Dichloroethene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	156-60-5	W
trans-1,3-Dichloropropene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 16:26	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	97	%	53-165		1	09/19/16 08:00	09/19/16 16:26	1868-53-7	
Toluene-d8 (S)	106	%	54-163		1	09/19/16 08:00	09/19/16 16:26	2037-26-5	
4-Bromofluorobenzene (S)	103	%	48-138		1	09/19/16 08:00	09/19/16 16:26	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	15.5	%	0.10	0.10	1			09/26/16 14:21	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-35 (9-10') Lab ID: 40138259002 Collected: 09/13/16 08:03 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/19/16 08:00	09/19/16 16:49	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/19/16 08:00	09/19/16 16:49	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/19/16 08:00	09/19/16 16:49	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/19/16 08:00	09/19/16 16:49	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/19/16 08:00	09/19/16 16:49	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/19/16 08:00	09/19/16 16:49	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-35 (9-10') Lab ID: 40138259002 Collected: 09/13/16 08:03 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/19/16 08:00	09/19/16 16:49	1330-20-7	W
cis-1,2-Dichloroethene	33.0J	ug/kg	66.9	27.9	1	09/19/16 08:00	09/19/16 16:49	156-59-2	
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/19/16 08:00	09/19/16 16:49	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 16:49	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	101	%	53-165		1	09/19/16 08:00	09/19/16 16:49	1868-53-7	
Toluene-d8 (S)	107	%	54-163		1	09/19/16 08:00	09/19/16 16:49	2037-26-5	
4-Bromofluorobenzene (S)	107	%	48-138		1	09/19/16 08:00	09/19/16 16:49	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	10.3	%	0.10	0.10	1			09/26/16 14:22	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-35 (12-13') Lab ID: 40138259003 Collected: 09/13/16 08:40 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	630-20-6	W
1,1,1-Trichloroethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	79-34-5	W
1,1,2-Trichloroethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	79-00-5	W
1,1-Dichloroethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	75-34-3	W
1,1-Dichloroethene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	75-35-4	W
1,1-Dichloropropene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	563-58-6	W
1,2,3-Trichlorobenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	87-61-6	W
1,2,3-Trichloropropane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	96-18-4	W
1,2,4-Trichlorobenzene	<48.5	ug/kg	255	48.5	1	09/19/16 08:00	09/19/16 17:12	120-82-1	W
1,2,4-Trimethylbenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	95-63-6	W
1,2-Dibromo-3-chloropropane	<93.1	ug/kg	255	93.1	1	09/19/16 08:00	09/19/16 17:12	96-12-8	W
1,2-Dibromoethane (EDB)	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	106-93-4	W
1,2-Dichlorobenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	95-50-1	W
1,2-Dichloroethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	107-06-2	W
1,2-Dichloropropane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	78-87-5	W
1,3,5-Trimethylbenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	108-67-8	W
1,3-Dichlorobenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	541-73-1	W
1,3-Dichloropropane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	142-28-9	W
1,4-Dichlorobenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	106-46-7	W
2,2-Dichloropropane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	594-20-7	W
2-Chlorotoluene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	95-49-8	W
4-Chlorotoluene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	106-43-4	W
Benzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	71-43-2	W
Bromobenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	108-86-1	W
Bromochloromethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	74-97-5	W
Bromodichloromethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	75-27-4	W
Bromoform	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	75-25-2	W
Bromomethane	<71.3	ug/kg	255	71.3	1	09/19/16 08:00	09/19/16 17:12	74-83-9	W
Carbon tetrachloride	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	56-23-5	W
Chlorobenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	108-90-7	W
Chloroethane	<68.4	ug/kg	255	68.4	1	09/19/16 08:00	09/19/16 17:12	75-00-3	W
Chloroform	<47.4	ug/kg	255	47.4	1	09/19/16 08:00	09/19/16 17:12	67-66-3	W
Chloromethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	74-87-3	W
Dibromochloromethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	124-48-1	W
Dibromomethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	74-95-3	W
Dichlorodifluoromethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	75-71-8	W
Diisopropyl ether	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	108-20-3	W
Ethylbenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	100-41-4	W
Hexachloro-1,3-butadiene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	87-68-3	W
Isopropylbenzene (Cumene)	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	98-82-8	W
Methyl-tert-butyl ether	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	1634-04-4	W
Methylene Chloride	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	75-09-2	W
Naphthalene	<40.9	ug/kg	255	40.9	1	09/19/16 08:00	09/19/16 17:12	91-20-3	W
Styrene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-35 (12-13') Lab ID: 40138259003 Collected: 09/13/16 08:40 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	127-18-4	W
Toluene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	108-88-3	W
Trichloroethene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	79-01-6	W
Trichlorofluoromethane	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	75-69-4	W
Vinyl chloride	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	75-01-4	W
Xylene (Total)	<76.5	ug/kg	184	76.5	1	09/19/16 08:00	09/19/16 17:12	1330-20-7	W
cis-1,2-Dichloroethene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	156-59-2	W
cis-1,3-Dichloropropene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	10061-01-5	W
m&p-Xylene	<51.0	ug/kg	122	51.0	1	09/19/16 08:00	09/19/16 17:12	179601-23-1	W
n-Butylbenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	104-51-8	W
n-Propylbenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	103-65-1	W
o-Xylene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	95-47-6	W
p-Isopropyltoluene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	99-87-6	W
sec-Butylbenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	135-98-8	W
tert-Butylbenzene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	98-06-6	W
trans-1,2-Dichloroethene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	156-60-5	W
trans-1,3-Dichloropropene	<25.5	ug/kg	61.2	25.5	1	09/19/16 08:00	09/19/16 17:12	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	91	%	53-165		1	09/19/16 08:00	09/19/16 17:12	1868-53-7	
Toluene-d8 (S)	96	%	54-163		1	09/19/16 08:00	09/19/16 17:12	2037-26-5	
4-Bromofluorobenzene (S)	93	%	48-138		1	09/19/16 08:00	09/19/16 17:12	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	17.5	%	0.10	0.10	1			09/26/16 14:22	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-36 (6-7) Lab ID: 40138259004 Collected: 09/13/16 09:05 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	630-20-6	W
1,1,1-Trichloroethane	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	71-55-6	W
1,1,2,2-Tetrachloroethane	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	79-34-5	W
1,1,2-Trichloroethane	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	79-00-5	W
1,1-Dichloroethane	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	75-34-3	W
1,1-Dichloroethene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	75-35-4	W
1,1-Dichloropropene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	563-58-6	W
1,2,3-Trichlorobenzene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	87-61-6	W
1,2,3-Trichloropropane	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	96-18-4	W
1,2,4-Trichlorobenzene	<238	ug/kg	1250	238	5	09/19/16 08:00	09/20/16 09:39	120-82-1	W
1,2,4-Trimethylbenzene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	95-63-6	W
1,2-Dibromo-3-chloropropane	<456	ug/kg	1250	456	5	09/19/16 08:00	09/20/16 09:39	96-12-8	W
1,2-Dibromoethane (EDB)	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	106-93-4	W
1,2-Dichlorobenzene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	95-50-1	W
1,2-Dichloroethane	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	107-06-2	W
1,2-Dichloropropane	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	78-87-5	W
1,3,5-Trimethylbenzene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	108-67-8	W
1,3-Dichlorobenzene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	541-73-1	W
1,3-Dichloropropane	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	142-28-9	W
1,4-Dichlorobenzene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	106-46-7	W
2,2-Dichloropropane	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	594-20-7	W
2-Chlorotoluene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	95-49-8	W
4-Chlorotoluene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	106-43-4	W
Benzene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	71-43-2	W
Bromobenzene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	108-86-1	W
Bromochloromethane	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	74-97-5	W
Bromodichloromethane	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	75-27-4	W
Bromoform	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	75-25-2	W
Bromomethane	<350	ug/kg	1250	350	5	09/19/16 08:00	09/20/16 09:39	74-83-9	W
Carbon tetrachloride	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	56-23-5	W
Chlorobenzene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	108-90-7	W
Chloroethane	<335	ug/kg	1250	335	5	09/19/16 08:00	09/20/16 09:39	75-00-3	W
Chloroform	<232	ug/kg	1250	232	5	09/19/16 08:00	09/20/16 09:39	67-66-3	W
Chloromethane	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	74-87-3	W
Dibromochloromethane	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	124-48-1	W
Dibromomethane	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	74-95-3	W
Dichlorodifluoromethane	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	75-71-8	W
Diisopropyl ether	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	108-20-3	W
Ethylbenzene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	100-41-4	W
Hexachloro-1,3-butadiene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	87-68-3	W
Isopropylbenzene (Cumene)	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	98-82-8	W
Methyl-tert-butyl ether	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	1634-04-4	W
Methylene Chloride	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	75-09-2	W
Naphthalene	<200	ug/kg	1250	200	5	09/19/16 08:00	09/20/16 09:39	91-20-3	W
Styrene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-36 (6-7') Lab ID: 40138259004 Collected: 09/13/16 09:05 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	39300	ug/kg	350	146	5	09/19/16 08:00	09/20/16 09:39	127-18-4	
Toluene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	108-88-3	W
Trichloroethene	344J	ug/kg	350	146	5	09/19/16 08:00	09/20/16 09:39	79-01-6	
Trichlorofluoromethane	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	75-69-4	W
Vinyl chloride	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	75-01-4	W
Xylene (Total)	<375	ug/kg	900	375	5	09/19/16 08:00	09/20/16 09:39	1330-20-7	W
cis-1,2-Dichloroethene	166J	ug/kg	350	146	5	09/19/16 08:00	09/20/16 09:39	156-59-2	
cis-1,3-Dichloropropene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	10061-01-5	W
m&p-Xylene	<250	ug/kg	600	250	5	09/19/16 08:00	09/20/16 09:39	179601-23-1	W
n-Butylbenzene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	104-51-8	W
n-Propylbenzene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	103-65-1	W
o-Xylene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	95-47-6	W
p-Isopropyltoluene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	99-87-6	W
sec-Butylbenzene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	135-98-8	W
tert-Butylbenzene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	98-06-6	W
trans-1,2-Dichloroethene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	156-60-5	W
trans-1,3-Dichloropropene	<125	ug/kg	300	125	5	09/19/16 08:00	09/20/16 09:39	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	88	%	53-165		5	09/19/16 08:00	09/20/16 09:39	1868-53-7	
Toluene-d8 (S)	94	%	54-163		5	09/19/16 08:00	09/20/16 09:39	2037-26-5	
4-Bromofluorobenzene (S)	83	%	48-138		5	09/19/16 08:00	09/20/16 09:39	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	14.3	%	0.10	0.10	1			09/26/16 14:22	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-36 (9-10') Lab ID: 40138259005 Collected: 09/13/16 09:07 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/19/16 08:00	09/19/16 17:35	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/19/16 08:00	09/19/16 17:35	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/19/16 08:00	09/19/16 17:35	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/19/16 08:00	09/19/16 17:35	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/19/16 08:00	09/19/16 17:35	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/19/16 08:00	09/19/16 17:35	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-36 (9-10') Lab ID: 40138259005 Collected: 09/13/16 09:07 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/19/16 08:00	09/19/16 17:35	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/19/16 08:00	09/19/16 17:35	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:35	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	98	%	53-165		1	09/19/16 08:00	09/19/16 17:35	1868-53-7	
Toluene-d8 (S)	103	%	54-163		1	09/19/16 08:00	09/19/16 17:35	2037-26-5	
4-Bromofluorobenzene (S)	101	%	48-138		1	09/19/16 08:00	09/19/16 17:35	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	16.2	%	0.10	0.10	1			09/26/16 14:22	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-37 (2-4') **Lab ID: 40138259006** Collected: 09/13/16 09:35 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/19/16 08:00	09/19/16 17:58	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/19/16 08:00	09/19/16 17:58	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/19/16 08:00	09/19/16 17:58	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/19/16 08:00	09/19/16 17:58	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/19/16 08:00	09/19/16 17:58	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/19/16 08:00	09/19/16 17:58	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-37 (2-4') Lab ID: 40138259006 Collected: 09/13/16 09:35 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	143	ug/kg	66.7	27.8	1	09/19/16 08:00	09/19/16 17:58	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/19/16 08:00	09/19/16 17:58	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/19/16 08:00	09/19/16 17:58	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/19/16 08:00	09/19/16 17:58	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	109	%	53-165		1	09/19/16 08:00	09/19/16 17:58	1868-53-7	
Toluene-d8 (S)	115	%	54-163		1	09/19/16 08:00	09/19/16 17:58	2037-26-5	
4-Bromofluorobenzene (S)	114	%	48-138		1	09/19/16 08:00	09/19/16 17:58	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	10.0	%	0.10	0.10	1			09/26/16 14:22	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-37 (6-8') Lab ID: 40138259007 Collected: 09/13/16 09:50 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/21/16 07:30	09/21/16 19:13	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/21/16 07:30	09/21/16 19:13	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/21/16 07:30	09/21/16 19:13	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/21/16 07:30	09/21/16 19:13	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/21/16 07:30	09/21/16 19:13	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/21/16 07:30	09/21/16 19:13	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-37 (6-8') Lab ID: 40138259007 Collected: 09/13/16 09:50 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	567	ug/kg	72.9	30.4	1	09/21/16 07:30	09/21/16 19:13	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	108-88-3	W
Trichloroethene	115	ug/kg	72.9	30.4	1	09/21/16 07:30	09/21/16 19:13	79-01-6	
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/21/16 07:30	09/21/16 19:13	1330-20-7	W
cis-1,2-Dichloroethene	39.1J	ug/kg	72.9	30.4	1	09/21/16 07:30	09/21/16 19:13	156-59-2	
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/21/16 07:30	09/21/16 19:13	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:13	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	107	%	53-165		1	09/21/16 07:30	09/21/16 19:13	1868-53-7	
Toluene-d8 (S)	95	%	54-163		1	09/21/16 07:30	09/21/16 19:13	2037-26-5	
4-Bromofluorobenzene (S)	78	%	48-138		1	09/21/16 07:30	09/21/16 19:13	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	17.7	%	0.10	0.10	1			09/26/16 14:22	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-37 (9-10') Lab ID: 40138259008 Collected: 09/13/16 09:55 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/21/16 07:30	09/21/16 19:36	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/21/16 07:30	09/21/16 19:36	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/21/16 07:30	09/21/16 19:36	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/21/16 07:30	09/21/16 19:36	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/21/16 07:30	09/21/16 19:36	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/21/16 07:30	09/21/16 19:36	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-37 (9-10') Lab ID: 40138259008 Collected: 09/13/16 09:55 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/21/16 07:30	09/21/16 19:36	1330-20-7	W
cis-1,2-Dichloroethene	101	ug/kg	67.8	28.2	1	09/21/16 07:30	09/21/16 19:36	156-59-2	
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/21/16 07:30	09/21/16 19:36	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:36	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	120	%	53-165		1	09/21/16 07:30	09/21/16 19:36	1868-53-7	
Toluene-d8 (S)	102	%	54-163		1	09/21/16 07:30	09/21/16 19:36	2037-26-5	
4-Bromofluorobenzene (S)	82	%	48-138		1	09/21/16 07:30	09/21/16 19:36	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	11.5	%	0.10	0.10	1			09/26/16 14:22	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS
Pace Project No.: 40138259

Sample: B-38 (2-4') Lab ID: 40138259009 Collected: 09/13/16 10:15 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/21/16 07:30	09/21/16 19:58	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/21/16 07:30	09/21/16 19:58	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/21/16 07:30	09/21/16 19:58	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/21/16 07:30	09/21/16 19:58	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/21/16 07:30	09/21/16 19:58	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/21/16 07:30	09/21/16 19:58	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-38 (2-4') Lab ID: 40138259009 Collected: 09/13/16 10:15 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	79.4	ug/kg	65.8	27.4	1	09/21/16 07:30	09/21/16 19:58	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/21/16 07:30	09/21/16 19:58	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/21/16 07:30	09/21/16 19:58	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 19:58	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	132	%	53-165		1	09/21/16 07:30	09/21/16 19:58	1868-53-7	
Toluene-d8 (S)	114	%	54-163		1	09/21/16 07:30	09/21/16 19:58	2037-26-5	
4-Bromofluorobenzene (S)	93	%	48-138		1	09/21/16 07:30	09/21/16 19:58	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	8.8	%	0.10	0.10	1			09/26/16 14:22	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-38 (6-8') Lab ID: 40138259010 Collected: 09/13/16 10:20 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/21/16 07:30	09/21/16 20:21	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/21/16 07:30	09/21/16 20:21	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/21/16 07:30	09/21/16 20:21	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/21/16 07:30	09/21/16 20:21	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/21/16 07:30	09/21/16 20:21	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/21/16 07:30	09/21/16 20:21	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-38 (6-8') Lab ID: 40138259010 Collected: 09/13/16 10:20 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/21/16 07:30	09/21/16 20:21	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/21/16 07:30	09/21/16 20:21	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:21	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	115	%	53-165		1	09/21/16 07:30	09/21/16 20:21	1868-53-7	
Toluene-d8 (S)	97	%	54-163		1	09/21/16 07:30	09/21/16 20:21	2037-26-5	
4-Bromofluorobenzene (S)	79	%	48-138		1	09/21/16 07:30	09/21/16 20:21	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	12.6	%	0.10	0.10	1			09/26/16 14:22	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-39 (3-5') Lab ID: 40138259011 Collected: 09/13/16 10:58 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/21/16 07:30	09/21/16 20:44	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/21/16 07:30	09/21/16 20:44	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/21/16 07:30	09/21/16 20:44	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/21/16 07:30	09/21/16 20:44	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/21/16 07:30	09/21/16 20:44	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/21/16 07:30	09/21/16 20:44	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-39 (3-5') Lab ID: 40138259011 Collected: 09/13/16 10:58 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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							
Tetrachloroethene	2070	ug/kg	63.9	26.6	1	09/21/16 07:30	09/21/16 20:44	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/21/16 07:30	09/21/16 20:44	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/21/16 07:30	09/21/16 20:44	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 20:44	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	137	%	53-165		1	09/21/16 07:30	09/21/16 20:44	1868-53-7	
Toluene-d8 (S)	111	%	54-163		1	09/21/16 07:30	09/21/16 20:44	2037-26-5	
4-Bromofluorobenzene (S)	92	%	48-138		1	09/21/16 07:30	09/21/16 20:44	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	6.0	%	0.10	0.10	1			09/26/16 14:23	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-39 (9-10') Lab ID: 40138259012 Collected: 09/13/16 11:02 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/21/16 07:30	09/21/16 21:06	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/21/16 07:30	09/21/16 21:06	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/21/16 07:30	09/21/16 21:06	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/21/16 07:30	09/21/16 21:06	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/21/16 07:30	09/21/16 21:06	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/21/16 07:30	09/21/16 21:06	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-39 (9-10') Lab ID: 40138259012 Collected: 09/13/16 11:02 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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							
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/21/16 07:30	09/21/16 21:06	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/21/16 07:30	09/21/16 21:06	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 07:30	09/21/16 21:06	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	112	%	53-165		1	09/21/16 07:30	09/21/16 21:06	1868-53-7	
Toluene-d8 (S)	96	%	54-163		1	09/21/16 07:30	09/21/16 21:06	2037-26-5	
4-Bromofluorobenzene (S)	77	%	48-138		1	09/21/16 07:30	09/21/16 21:06	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	18.5	%	0.10	0.10	1			09/27/16 08:03	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-40 (2-4') Lab ID: 40138259013 Collected: 09/13/16 11:28 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	630-20-6	W
1,1,1-Trichloroethane	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	79-34-5	W
1,1,2-Trichloroethane	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	79-00-5	W
1,1-Dichloroethane	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	75-34-3	W
1,1-Dichloroethene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	75-35-4	W
1,1-Dichloropropene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	563-58-6	W
1,2,3-Trichlorobenzene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	87-61-6	W
1,2,3-Trichloropropane	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	96-18-4	W
1,2,4-Trichlorobenzene	<48.0	ug/kg	253	48.0	1	09/21/16 12:45	09/21/16 23:04	120-82-1	W
1,2,4-Trimethylbenzene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	95-63-6	W
1,2-Dibromo-3-chloropropane	<92.2	ug/kg	253	92.2	1	09/21/16 12:45	09/21/16 23:04	96-12-8	W
1,2-Dibromoethane (EDB)	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	106-93-4	W
1,2-Dichlorobenzene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	95-50-1	W
1,2-Dichloroethane	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	107-06-2	W
1,2-Dichloropropane	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	78-87-5	W
1,3,5-Trimethylbenzene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	108-67-8	W
1,3-Dichlorobenzene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	541-73-1	W
1,3-Dichloropropane	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	142-28-9	W
1,4-Dichlorobenzene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	106-46-7	W
2,2-Dichloropropane	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	594-20-7	W
2-Chlorotoluene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	95-49-8	W
4-Chlorotoluene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	106-43-4	W
Benzene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	71-43-2	W
Bromobenzene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	108-86-1	W
Bromochloromethane	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	74-97-5	W
Bromodichloromethane	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	75-27-4	W
Bromoform	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	75-25-2	W
Bromomethane	<70.6	ug/kg	253	70.6	1	09/21/16 12:45	09/21/16 23:04	74-83-9	W
Carbon tetrachloride	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	56-23-5	W
Chlorobenzene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	108-90-7	W
Chloroethane	<67.7	ug/kg	253	67.7	1	09/21/16 12:45	09/21/16 23:04	75-00-3	W
Chloroform	<46.9	ug/kg	253	46.9	1	09/21/16 12:45	09/21/16 23:04	67-66-3	W
Chloromethane	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	74-87-3	W
Dibromochloromethane	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	124-48-1	W
Dibromomethane	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	74-95-3	W
Dichlorodifluoromethane	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	75-71-8	W
Diisopropyl ether	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	108-20-3	W
Ethylbenzene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	100-41-4	W
Hexachloro-1,3-butadiene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	87-68-3	W
Isopropylbenzene (Cumene)	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	98-82-8	W
Methyl-tert-butyl ether	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	1634-04-4	W
Methylene Chloride	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	75-09-2	W
Naphthalene	<40.4	ug/kg	253	40.4	1	09/21/16 12:45	09/21/16 23:04	91-20-3	W
Styrene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-40 (2-4') Lab ID: 40138259013 Collected: 09/13/16 11:28 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	1530	ug/kg	65.9	27.4	1	09/21/16 12:45	09/21/16 23:04	127-18-4	
Toluene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	108-88-3	W
Trichloroethene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	79-01-6	W
Trichlorofluoromethane	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	75-69-4	W
Vinyl chloride	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	75-01-4	W
Xylene (Total)	<75.8	ug/kg	182	75.8	1	09/21/16 12:45	09/21/16 23:04	1330-20-7	W
cis-1,2-Dichloroethene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	156-59-2	W
cis-1,3-Dichloropropene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	10061-01-5	W
m&p-Xylene	<50.5	ug/kg	121	50.5	1	09/21/16 12:45	09/21/16 23:04	179601-23-1	W
n-Butylbenzene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	104-51-8	W
n-Propylbenzene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	103-65-1	W
o-Xylene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	95-47-6	W
p-Isopropyltoluene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	99-87-6	W
sec-Butylbenzene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	135-98-8	W
tert-Butylbenzene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	98-06-6	W
trans-1,2-Dichloroethene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	156-60-5	W
trans-1,3-Dichloropropene	<25.3	ug/kg	60.6	25.3	1	09/21/16 12:45	09/21/16 23:04	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	108	%	53-165		1	09/21/16 12:45	09/21/16 23:04	1868-53-7	
Toluene-d8 (S)	111	%	54-163		1	09/21/16 12:45	09/21/16 23:04	2037-26-5	
4-Bromofluorobenzene (S)	108	%	48-138		1	09/21/16 12:45	09/21/16 23:04	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	8.0	%	0.10	0.10	1			09/27/16 08:03	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-40 (6-8') Lab ID: 40138259014 Collected: 09/13/16 11:31 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	630-20-6	W
1,1,1-Trichloroethane	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	71-55-6	W
1,1,2,2-Tetrachloroethane	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	79-34-5	W
1,1,2-Trichloroethane	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	79-00-5	W
1,1-Dichloroethane	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	75-34-3	W
1,1-Dichloroethene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	75-35-4	W
1,1-Dichloropropene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	563-58-6	W
1,2,3-Trichlorobenzene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	87-61-6	W
1,2,3-Trichloropropane	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	96-18-4	W
1,2,4-Trichlorobenzene	<413	ug/kg	2170	413	8	09/21/16 12:45	09/22/16 03:41	120-82-1	W
1,2,4-Trimethylbenzene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	95-63-6	W
1,2-Dibromo-3-chloropropane	<793	ug/kg	2170	793	8	09/21/16 12:45	09/22/16 03:41	96-12-8	W
1,2-Dibromoethane (EDB)	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	106-93-4	W
1,2-Dichlorobenzene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	95-50-1	W
1,2-Dichloroethane	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	107-06-2	W
1,2-Dichloropropane	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	78-87-5	W
1,3,5-Trimethylbenzene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	108-67-8	W
1,3-Dichlorobenzene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	541-73-1	W
1,3-Dichloropropane	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	142-28-9	W
1,4-Dichlorobenzene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	106-46-7	W
2,2-Dichloropropane	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	594-20-7	W
2-Chlorotoluene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	95-49-8	W
4-Chlorotoluene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	106-43-4	W
Benzene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	71-43-2	W
Bromobenzene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	108-86-1	W
Bromochloromethane	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	74-97-5	W
Bromodichloromethane	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	75-27-4	W
Bromoform	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	75-25-2	W
Bromomethane	<608	ug/kg	2170	608	8	09/21/16 12:45	09/22/16 03:41	74-83-9	W
Carbon tetrachloride	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	56-23-5	W
Chlorobenzene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	108-90-7	W
Chloroethane	<583	ug/kg	2170	583	8	09/21/16 12:45	09/22/16 03:41	75-00-3	W
Chloroform	<404	ug/kg	2170	404	8	09/21/16 12:45	09/22/16 03:41	67-66-3	W
Chloromethane	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	74-87-3	W
Dibromochloromethane	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	124-48-1	W
Dibromomethane	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	74-95-3	W
Dichlorodifluoromethane	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	75-71-8	W
Diisopropyl ether	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	108-20-3	W
Ethylbenzene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	100-41-4	W
Hexachloro-1,3-butadiene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	87-68-3	W
Isopropylbenzene (Cumene)	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	98-82-8	W
Methyl-tert-butyl ether	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	1634-04-4	W
Methylene Chloride	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	75-09-2	W
Naphthalene	<348	ug/kg	2170	348	8	09/21/16 12:45	09/22/16 03:41	91-20-3	W
Styrene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-40 (6-8') Lab ID: 40138259014 Collected: 09/13/16 11:31 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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							
Tetrachloroethene	44200	ug/kg	596	248	8	09/21/16 12:45	09/22/16 03:41	127-18-4	
Toluene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	108-88-3	W
Trichloroethene	299J	ug/kg	596	248	8	09/21/16 12:45	09/22/16 03:41	79-01-6	
Trichlorofluoromethane	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	75-69-4	W
Vinyl chloride	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	75-01-4	W
Xylene (Total)	<652	ug/kg	1570	652	8	09/21/16 12:45	09/22/16 03:41	1330-20-7	W
cis-1,2-Dichloroethene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	156-59-2	W
cis-1,3-Dichloropropene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	10061-01-5	W
m&p-Xylene	<435	ug/kg	1040	435	8	09/21/16 12:45	09/22/16 03:41	179601-23-1	W
n-Butylbenzene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	104-51-8	W
n-Propylbenzene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	103-65-1	W
o-Xylene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	95-47-6	W
p-Isopropyltoluene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	99-87-6	W
sec-Butylbenzene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	135-98-8	W
tert-Butylbenzene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	98-06-6	W
trans-1,2-Dichloroethene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	156-60-5	W
trans-1,3-Dichloropropene	<217	ug/kg	522	217	8	09/21/16 12:45	09/22/16 03:41	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	103	%	53-165		8	09/21/16 12:45	09/22/16 03:41	1868-53-7	
Toluene-d8 (S)	103	%	54-163		8	09/21/16 12:45	09/22/16 03:41	2037-26-5	
4-Bromofluorobenzene (S)	96	%	48-138		8	09/21/16 12:45	09/22/16 03:41	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.5	%	0.10	0.10	1			09/27/16 08:03	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-40 (9-10') Lab ID: 40138259015 Collected: 09/13/16 11:35 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/21/16 12:45	09/21/16 23:27	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/21/16 12:45	09/21/16 23:27	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/21/16 12:45	09/21/16 23:27	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/21/16 12:45	09/21/16 23:27	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/21/16 12:45	09/21/16 23:27	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/21/16 12:45	09/21/16 23:27	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-40 (9-10') Lab ID: 40138259015 Collected: 09/13/16 11:35 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	127	ug/kg	69.8	29.1	1	09/21/16 12:45	09/21/16 23:27	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/21/16 12:45	09/21/16 23:27	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/21/16 12:45	09/21/16 23:27	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/21/16 23:27	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	103	%	53-165		1	09/21/16 12:45	09/21/16 23:27	1868-53-7	
Toluene-d8 (S)	107	%	54-163		1	09/21/16 12:45	09/21/16 23:27	2037-26-5	
4-Bromofluorobenzene (S)	103	%	48-138		1	09/21/16 12:45	09/21/16 23:27	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	14.0	%	0.10	0.10	1			09/27/16 08:03	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-41 (5-7) Lab ID: 40138259016 Collected: 09/13/16 12:50 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	630-20-6	W
1,1,1-Trichloroethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	79-34-5	W
1,1,2-Trichloroethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	79-00-5	W
1,1-Dichloroethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	75-34-3	W
1,1-Dichloroethene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	75-35-4	W
1,1-Dichloropropene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	563-58-6	W
1,2,3-Trichlorobenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	87-61-6	W
1,2,3-Trichloropropane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	96-18-4	W
1,2,4-Trichlorobenzene	<48.5	ug/kg	255	48.5	1	09/21/16 12:45	09/21/16 23:50	120-82-1	W
1,2,4-Trimethylbenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	95-63-6	W
1,2-Dibromo-3-chloropropane	<93.1	ug/kg	255	93.1	1	09/21/16 12:45	09/21/16 23:50	96-12-8	W
1,2-Dibromoethane (EDB)	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	106-93-4	W
1,2-Dichlorobenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	95-50-1	W
1,2-Dichloroethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	107-06-2	W
1,2-Dichloropropane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	78-87-5	W
1,3,5-Trimethylbenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	108-67-8	W
1,3-Dichlorobenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	541-73-1	W
1,3-Dichloropropane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	142-28-9	W
1,4-Dichlorobenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	106-46-7	W
2,2-Dichloropropane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	594-20-7	W
2-Chlorotoluene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	95-49-8	W
4-Chlorotoluene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	106-43-4	W
Benzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	71-43-2	W
Bromobenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	108-86-1	W
Bromochloromethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	74-97-5	W
Bromodichloromethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	75-27-4	W
Bromoform	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	75-25-2	W
Bromomethane	<71.3	ug/kg	255	71.3	1	09/21/16 12:45	09/21/16 23:50	74-83-9	W
Carbon tetrachloride	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	56-23-5	W
Chlorobenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	108-90-7	W
Chloroethane	<68.4	ug/kg	255	68.4	1	09/21/16 12:45	09/21/16 23:50	75-00-3	W
Chloroform	<47.4	ug/kg	255	47.4	1	09/21/16 12:45	09/21/16 23:50	67-66-3	W
Chloromethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	74-87-3	W
Dibromochloromethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	124-48-1	W
Dibromomethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	74-95-3	W
Dichlorodifluoromethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	75-71-8	W
Diisopropyl ether	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	108-20-3	W
Ethylbenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	100-41-4	W
Hexachloro-1,3-butadiene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	87-68-3	W
Isopropylbenzene (Cumene)	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	98-82-8	W
Methyl-tert-butyl ether	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	1634-04-4	W
Methylene Chloride	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	75-09-2	W
Naphthalene	<40.9	ug/kg	255	40.9	1	09/21/16 12:45	09/21/16 23:50	91-20-3	W
Styrene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-41 (5-7) Lab ID: 40138259016 Collected: 09/13/16 12:50 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	2860	ug/kg	78.6	32.7	1	09/21/16 12:45	09/21/16 23:50	127-18-4	
Toluene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	108-88-3	W
Trichloroethene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	79-01-6	W
Trichlorofluoromethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	75-69-4	W
Vinyl chloride	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	75-01-4	W
Xylene (Total)	<76.5	ug/kg	184	76.5	1	09/21/16 12:45	09/21/16 23:50	1330-20-7	W
cis-1,2-Dichloroethene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	156-59-2	W
cis-1,3-Dichloropropene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	10061-01-5	W
m&p-Xylene	<51.0	ug/kg	122	51.0	1	09/21/16 12:45	09/21/16 23:50	179601-23-1	W
n-Butylbenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	104-51-8	W
n-Propylbenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	103-65-1	W
o-Xylene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	95-47-6	W
p-Isopropyltoluene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	99-87-6	W
sec-Butylbenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	135-98-8	W
tert-Butylbenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	98-06-6	W
trans-1,2-Dichloroethene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	156-60-5	W
trans-1,3-Dichloropropene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/21/16 23:50	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	118	%	53-165		1	09/21/16 12:45	09/21/16 23:50	1868-53-7	
Toluene-d8 (S)	122	%	54-163		1	09/21/16 12:45	09/21/16 23:50	2037-26-5	
4-Bromofluorobenzene (S)	119	%	48-138		1	09/21/16 12:45	09/21/16 23:50	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	22.1	%	0.10	0.10	1			09/27/16 08:03	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-41 (9-10') Lab ID: 40138259017 Collected: 09/13/16 12:52 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	630-20-6	W
1,1,1-Trichloroethane	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	71-55-6	W
1,1,2,2-Tetrachloroethane	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	79-34-5	W
1,1,2-Trichloroethane	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	79-00-5	W
1,1-Dichloroethane	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	75-34-3	W
1,1-Dichloroethene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	75-35-4	W
1,1-Dichloropropene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	563-58-6	W
1,2,3-Trichlorobenzene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	87-61-6	W
1,2,3-Trichloropropane	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	96-18-4	W
1,2,4-Trichlorobenzene	<49.5	ug/kg	260	49.5	1	09/21/16 12:45	09/22/16 00:13	120-82-1	W
1,2,4-Trimethylbenzene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	95-63-6	W
1,2-Dibromo-3-chloropropane	<95.0	ug/kg	260	95.0	1	09/21/16 12:45	09/22/16 00:13	96-12-8	W
1,2-Dibromoethane (EDB)	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	106-93-4	W
1,2-Dichlorobenzene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	95-50-1	W
1,2-Dichloroethane	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	107-06-2	W
1,2-Dichloropropane	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	78-87-5	W
1,3,5-Trimethylbenzene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	108-67-8	W
1,3-Dichlorobenzene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	541-73-1	W
1,3-Dichloropropane	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	142-28-9	W
1,4-Dichlorobenzene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	106-46-7	W
2,2-Dichloropropane	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	594-20-7	W
2-Chlorotoluene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	95-49-8	W
4-Chlorotoluene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	106-43-4	W
Benzene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	71-43-2	W
Bromobenzene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	108-86-1	W
Bromochloromethane	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	74-97-5	W
Bromodichloromethane	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	75-27-4	W
Bromoform	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	75-25-2	W
Bromomethane	<72.8	ug/kg	260	72.8	1	09/21/16 12:45	09/22/16 00:13	74-83-9	W
Carbon tetrachloride	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	56-23-5	W
Chlorobenzene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	108-90-7	W
Chloroethane	<69.8	ug/kg	260	69.8	1	09/21/16 12:45	09/22/16 00:13	75-00-3	W
Chloroform	<48.4	ug/kg	260	48.4	1	09/21/16 12:45	09/22/16 00:13	67-66-3	W
Chloromethane	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	74-87-3	W
Dibromochloromethane	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	124-48-1	W
Dibromomethane	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	74-95-3	W
Dichlorodifluoromethane	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	75-71-8	W
Diisopropyl ether	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	108-20-3	W
Ethylbenzene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	100-41-4	W
Hexachloro-1,3-butadiene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	87-68-3	W
Isopropylbenzene (Cumene)	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	98-82-8	W
Methyl-tert-butyl ether	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	1634-04-4	W
Methylene Chloride	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	75-09-2	W
Naphthalene	<41.7	ug/kg	260	41.7	1	09/21/16 12:45	09/22/16 00:13	91-20-3	W
Styrene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-41 (9-10') Lab ID: 40138259017 Collected: 09/13/16 12:52 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	127-18-4	W
Toluene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	108-88-3	W
Trichloroethene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	79-01-6	W
Trichlorofluoromethane	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	75-69-4	W
Vinyl chloride	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	75-01-4	W
Xylene (Total)	<78.1	ug/kg	188	78.1	1	09/21/16 12:45	09/22/16 00:13	1330-20-7	W
cis-1,2-Dichloroethene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	156-59-2	W
cis-1,3-Dichloropropene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	10061-01-5	W
m&p-Xylene	<52.1	ug/kg	125	52.1	1	09/21/16 12:45	09/22/16 00:13	179601-23-1	W
n-Butylbenzene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	104-51-8	W
n-Propylbenzene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	103-65-1	W
o-Xylene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	95-47-6	W
p-Isopropyltoluene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	99-87-6	W
sec-Butylbenzene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	135-98-8	W
tert-Butylbenzene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	98-06-6	W
trans-1,2-Dichloroethene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	156-60-5	W
trans-1,3-Dichloropropene	<26.0	ug/kg	62.5	26.0	1	09/21/16 12:45	09/22/16 00:13	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	96	%	53-165		1	09/21/16 12:45	09/22/16 00:13	1868-53-7	
Toluene-d8 (S)	99	%	54-163		1	09/21/16 12:45	09/22/16 00:13	2037-26-5	
4-Bromofluorobenzene (S)	98	%	48-138		1	09/21/16 12:45	09/22/16 00:13	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	13.3	%	0.10	0.10	1			09/27/16 08:03	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS
Pace Project No.: 40138259

Sample: B-42 (2-4') Lab ID: 40138259018 Collected: 09/13/16 13:05 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/21/16 12:45	09/22/16 00:36	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/21/16 12:45	09/22/16 00:36	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/21/16 12:45	09/22/16 00:36	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/21/16 12:45	09/22/16 00:36	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/21/16 12:45	09/22/16 00:36	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/21/16 12:45	09/22/16 00:36	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-42 (2-4') Lab ID: 40138259018 Collected: 09/13/16 13:05 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	33.1J	ug/kg	68.4	28.5	1	09/21/16 12:45	09/22/16 00:36	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/21/16 12:45	09/22/16 00:36	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/21/16 12:45	09/22/16 00:36	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:36	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	106	%	53-165		1	09/21/16 12:45	09/22/16 00:36	1868-53-7	
Toluene-d8 (S)	113	%	54-163		1	09/21/16 12:45	09/22/16 00:36	2037-26-5	
4-Bromofluorobenzene (S)	112	%	48-138		1	09/21/16 12:45	09/22/16 00:36	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	12.3	%	0.10	0.10	1			09/27/16 08:03	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-42 (6-8') Lab ID: 40138259019 Collected: 09/13/16 13:20 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/21/16 12:45	09/22/16 00:59	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/21/16 12:45	09/22/16 00:59	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/21/16 12:45	09/22/16 00:59	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/21/16 12:45	09/22/16 00:59	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/21/16 12:45	09/22/16 00:59	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/21/16 12:45	09/22/16 00:59	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-42 (6-8') Lab ID: 40138259019 Collected: 09/13/16 13:20 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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							
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/21/16 12:45	09/22/16 00:59	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/21/16 12:45	09/22/16 00:59	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 00:59	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	100	%	53-165		1	09/21/16 12:45	09/22/16 00:59	1868-53-7	
Toluene-d8 (S)	105	%	54-163		1	09/21/16 12:45	09/22/16 00:59	2037-26-5	
4-Bromofluorobenzene (S)	101	%	48-138		1	09/21/16 12:45	09/22/16 00:59	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	17.1	%	0.10	0.10	1			09/27/16 08:03	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-43 (2-4') Lab ID: 40138259020 Collected: 09/13/16 13:45 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/21/16 12:45	09/22/16 01:22	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/21/16 12:45	09/22/16 01:22	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/21/16 12:45	09/22/16 01:22	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/21/16 12:45	09/22/16 01:22	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/21/16 12:45	09/22/16 01:22	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/21/16 12:45	09/22/16 01:22	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-43 (2-4') Lab ID: 40138259020 Collected: 09/13/16 13:45 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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							
Tetrachloroethene	800	ug/kg	284	118	1	09/21/16 12:45	09/22/16 01:22	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/21/16 12:45	09/22/16 01:22	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/21/16 12:45	09/22/16 01:22	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:22	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	126	%	53-165		1	09/21/16 12:45	09/22/16 01:22	1868-53-7	
Toluene-d8 (S)	128	%	54-163		1	09/21/16 12:45	09/22/16 01:22	2037-26-5	
4-Bromofluorobenzene (S)	125	%	48-138		1	09/21/16 12:45	09/22/16 01:22	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	78.9	%	0.10	0.10	1			09/21/16 10:43	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-43 (6-8') Lab ID: **40138259021** Collected: 09/13/16 13:50 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/21/16 12:45	09/22/16 01:45	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/21/16 12:45	09/22/16 01:45	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/21/16 12:45	09/22/16 01:45	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/21/16 12:45	09/22/16 01:45	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/21/16 12:45	09/22/16 01:45	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/21/16 12:45	09/22/16 01:45	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-43 (6-8') Lab ID: 40138259021 Collected: 09/13/16 13:50 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	161J	ug/kg	228	95.0	1	09/21/16 12:45	09/22/16 01:45	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/21/16 12:45	09/22/16 01:45	1330-20-7	W
cis-1,2-Dichloroethene	187J	ug/kg	228	95.0	1	09/21/16 12:45	09/22/16 01:45	156-59-2	
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/21/16 12:45	09/22/16 01:45	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 01:45	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	96	%	53-165		1	09/21/16 12:45	09/22/16 01:45	1868-53-7	
Toluene-d8 (S)	101	%	54-163		1	09/21/16 12:45	09/22/16 01:45	2037-26-5	
4-Bromofluorobenzene (S)	98	%	48-138		1	09/21/16 12:45	09/22/16 01:45	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	73.7	%	0.10	0.10	1			09/21/16 10:43	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-43 (9-10') Lab ID: 40138259022 Collected: 09/13/16 14:00 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/21/16 12:45	09/22/16 02:08	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/21/16 12:45	09/22/16 02:08	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/21/16 12:45	09/22/16 02:08	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/21/16 12:45	09/22/16 02:08	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/21/16 12:45	09/22/16 02:08	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/21/16 12:45	09/22/16 02:08	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-43 (9-10') Lab ID: **40138259022** Collected: 09/13/16 14:00 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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							
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/21/16 12:45	09/22/16 02:08	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/21/16 12:45	09/22/16 02:08	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:08	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	104	%	53-165		1	09/21/16 12:45	09/22/16 02:08	1868-53-7	
Toluene-d8 (S)	105	%	54-163		1	09/21/16 12:45	09/22/16 02:08	2037-26-5	
4-Bromofluorobenzene (S)	100	%	48-138		1	09/21/16 12:45	09/22/16 02:08	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	67.1	%	0.10	0.10	1			09/21/16 10:44	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-44 (8-10') Lab ID: 40138259023 Collected: 09/13/16 14:20 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	630-20-6	W
1,1,1-Trichloroethane	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	71-55-6	W
1,1,2,2-Tetrachloroethane	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	79-34-5	W
1,1,2-Trichloroethane	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	79-00-5	W
1,1-Dichloroethane	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	75-34-3	W
1,1-Dichloroethene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	75-35-4	W
1,1-Dichloropropene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	563-58-6	W
1,2,3-Trichlorobenzene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	87-61-6	W
1,2,3-Trichloropropane	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	96-18-4	W
1,2,4-Trichlorobenzene	<51.1	ug/kg	269	51.1	1	09/21/16 12:45	09/22/16 02:32	120-82-1	W
1,2,4-Trimethylbenzene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	95-63-6	W
1,2-Dibromo-3-chloropropane	<98.1	ug/kg	269	98.1	1	09/21/16 12:45	09/22/16 02:32	96-12-8	W
1,2-Dibromoethane (EDB)	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	106-93-4	W
1,2-Dichlorobenzene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	95-50-1	W
1,2-Dichloroethane	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	107-06-2	W
1,2-Dichloropropane	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	78-87-5	W
1,3,5-Trimethylbenzene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	108-67-8	W
1,3-Dichlorobenzene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	541-73-1	W
1,3-Dichloropropane	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	142-28-9	W
1,4-Dichlorobenzene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	106-46-7	W
2,2-Dichloropropane	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	594-20-7	W
2-Chlorotoluene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	95-49-8	W
4-Chlorotoluene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	106-43-4	W
Benzene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	71-43-2	W
Bromobenzene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	108-86-1	W
Bromochloromethane	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	74-97-5	W
Bromodichloromethane	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	75-27-4	W
Bromoform	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	75-25-2	W
Bromomethane	<75.2	ug/kg	269	75.2	1	09/21/16 12:45	09/22/16 02:32	74-83-9	W
Carbon tetrachloride	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	56-23-5	W
Chlorobenzene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	108-90-7	W
Chloroethane	<72.1	ug/kg	269	72.1	1	09/21/16 12:45	09/22/16 02:32	75-00-3	W
Chloroform	<49.9	ug/kg	269	49.9	1	09/21/16 12:45	09/22/16 02:32	67-66-3	W
Chloromethane	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	74-87-3	W
Dibromochloromethane	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	124-48-1	W
Dibromomethane	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	74-95-3	W
Dichlorodifluoromethane	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	75-71-8	W
Diisopropyl ether	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	108-20-3	W
Ethylbenzene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	100-41-4	W
Hexachloro-1,3-butadiene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	87-68-3	W
Isopropylbenzene (Cumene)	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	98-82-8	W
Methyl-tert-butyl ether	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	1634-04-4	W
Methylene Chloride	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	75-09-2	W
Naphthalene	<43.1	ug/kg	269	43.1	1	09/21/16 12:45	09/22/16 02:32	91-20-3	W
Styrene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-44 (8-10') Lab ID: 40138259023 Collected: 09/13/16 14:20 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	127-18-4	W
Toluene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	108-88-3	W
Trichloroethene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	79-01-6	W
Trichlorofluoromethane	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	75-69-4	W
Vinyl chloride	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	75-01-4	W
Xylene (Total)	<80.6	ug/kg	194	80.6	1	09/21/16 12:45	09/22/16 02:32	1330-20-7	W
cis-1,2-Dichloroethene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	156-59-2	W
cis-1,3-Dichloropropene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	10061-01-5	W
m&p-Xylene	<53.8	ug/kg	129	53.8	1	09/21/16 12:45	09/22/16 02:32	179601-23-1	W
n-Butylbenzene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	104-51-8	W
n-Propylbenzene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	103-65-1	W
o-Xylene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	95-47-6	W
p-Isopropyltoluene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	99-87-6	W
sec-Butylbenzene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	135-98-8	W
tert-Butylbenzene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	98-06-6	W
trans-1,2-Dichloroethene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	156-60-5	W
trans-1,3-Dichloropropene	<26.9	ug/kg	64.5	26.9	1	09/21/16 12:45	09/22/16 02:32	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	96	%	53-165		1	09/21/16 12:45	09/22/16 02:32	1868-53-7	
Toluene-d8 (S)	100	%	54-163		1	09/21/16 12:45	09/22/16 02:32	2037-26-5	
4-Bromofluorobenzene (S)	94	%	48-138		1	09/21/16 12:45	09/22/16 02:32	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	14.1	%	0.10	0.10	1			09/27/16 08:04	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-45 (6-8') Lab ID: 40138259024 Collected: 09/13/16 14:50 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	630-20-6	W
1,1,1-Trichloroethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	71-55-6	W
1,1,2,2-Tetrachloroethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	79-34-5	W
1,1,2-Trichloroethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	79-00-5	W
1,1-Dichloroethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	75-34-3	W
1,1-Dichloroethene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	75-35-4	W
1,1-Dichloropropene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	563-58-6	W
1,2,3-Trichlorobenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	87-61-6	W
1,2,3-Trichloropropane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	96-18-4	W
1,2,4-Trichlorobenzene	<951	ug/kg	5000	951	20	09/21/16 12:45	09/22/16 04:04	120-82-1	W
1,2,4-Trimethylbenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	95-63-6	W
1,2-Dibromo-3-chloropropane	<1820	ug/kg	5000	1820	20	09/21/16 12:45	09/22/16 04:04	96-12-8	W
1,2-Dibromoethane (EDB)	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	106-93-4	W
1,2-Dichlorobenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	95-50-1	W
1,2-Dichloroethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	107-06-2	W
1,2-Dichloropropane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	78-87-5	W
1,3,5-Trimethylbenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	108-67-8	W
1,3-Dichlorobenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	541-73-1	W
1,3-Dichloropropane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	142-28-9	W
1,4-Dichlorobenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	106-46-7	W
2,2-Dichloropropane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	594-20-7	W
2-Chlorotoluene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	95-49-8	W
4-Chlorotoluene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	106-43-4	W
Benzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	71-43-2	W
Bromobenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	108-86-1	W
Bromochloromethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	74-97-5	W
Bromodichloromethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	75-27-4	W
Bromoform	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	75-25-2	W
Bromomethane	<1400	ug/kg	5000	1400	20	09/21/16 12:45	09/22/16 04:04	74-83-9	W
Carbon tetrachloride	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	56-23-5	W
Chlorobenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	108-90-7	W
Chloroethane	<1340	ug/kg	5000	1340	20	09/21/16 12:45	09/22/16 04:04	75-00-3	W
Chloroform	<929	ug/kg	5000	929	20	09/21/16 12:45	09/22/16 04:04	67-66-3	W
Chloromethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	74-87-3	W
Dibromochloromethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	124-48-1	W
Dibromomethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	74-95-3	W
Dichlorodifluoromethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	75-71-8	W
Diisopropyl ether	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	108-20-3	W
Ethylbenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	100-41-4	W
Hexachloro-1,3-butadiene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	87-68-3	W
Isopropylbenzene (Cumene)	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	98-82-8	W
Methyl-tert-butyl ether	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	1634-04-4	W
Methylene Chloride	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	75-09-2	W
Naphthalene	<801	ug/kg	5000	801	20	09/21/16 12:45	09/22/16 04:04	91-20-3	W
Styrene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-45 (6-8') Lab ID: 40138259024 Collected: 09/13/16 14:50 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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							
Tetrachloroethene	110000	ug/kg	1400	582	20	09/21/16 12:45	09/22/16 04:04	127-18-4	
Toluene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	108-88-3	W
Trichloroethene	871J	ug/kg	1400	582	20	09/21/16 12:45	09/22/16 04:04	79-01-6	
Trichlorofluoromethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	75-69-4	W
Vinyl chloride	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	75-01-4	W
Xylene (Total)	<1500	ug/kg	3600	1500	20	09/21/16 12:45	09/22/16 04:04	1330-20-7	W
cis-1,2-Dichloroethene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	156-59-2	W
cis-1,3-Dichloropropene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	10061-01-5	W
m&p-Xylene	<1000	ug/kg	2400	1000	20	09/21/16 12:45	09/22/16 04:04	179601-23-1	W
n-Butylbenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	104-51-8	W
n-Propylbenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	103-65-1	W
o-Xylene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	95-47-6	W
p-Isopropyltoluene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	99-87-6	W
sec-Butylbenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	135-98-8	W
tert-Butylbenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	98-06-6	W
trans-1,2-Dichloroethene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	156-60-5	W
trans-1,3-Dichloropropene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:04	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	0	%	53-165		20	09/21/16 12:45	09/22/16 04:04	1868-53-7	S4
Toluene-d8 (S)	0	%	54-163		20	09/21/16 12:45	09/22/16 04:04	2037-26-5	S4
4-Bromofluorobenzene (S)	0	%	48-138		20	09/21/16 12:45	09/22/16 04:04	460-00-4	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	14.1	%	0.10	0.10	1			09/27/16 08:04	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-45 (9-10') Lab ID: 40138259025 Collected: 09/13/16 14:55 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	630-20-6	W
1,1,1-Trichloroethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	71-55-6	W
1,1,2,2-Tetrachloroethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	79-34-5	W
1,1,2-Trichloroethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	79-00-5	W
1,1-Dichloroethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	75-34-3	W
1,1-Dichloroethene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	75-35-4	W
1,1-Dichloropropene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	563-58-6	W
1,2,3-Trichlorobenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	87-61-6	W
1,2,3-Trichloropropane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	96-18-4	W
1,2,4-Trichlorobenzene	<951	ug/kg	5000	951	20	09/21/16 12:45	09/22/16 04:27	120-82-1	W
1,2,4-Trimethylbenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	95-63-6	W
1,2-Dibromo-3-chloropropane	<1820	ug/kg	5000	1820	20	09/21/16 12:45	09/22/16 04:27	96-12-8	W
1,2-Dibromoethane (EDB)	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	106-93-4	W
1,2-Dichlorobenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	95-50-1	W
1,2-Dichloroethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	107-06-2	W
1,2-Dichloropropane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	78-87-5	W
1,3,5-Trimethylbenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	108-67-8	W
1,3-Dichlorobenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	541-73-1	W
1,3-Dichloropropane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	142-28-9	W
1,4-Dichlorobenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	106-46-7	W
2,2-Dichloropropane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	594-20-7	W
2-Chlorotoluene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	95-49-8	W
4-Chlorotoluene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	106-43-4	W
Benzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	71-43-2	W
Bromobenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	108-86-1	W
Bromochloromethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	74-97-5	W
Bromodichloromethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	75-27-4	W
Bromoform	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	75-25-2	W
Bromomethane	<1400	ug/kg	5000	1400	20	09/21/16 12:45	09/22/16 04:27	74-83-9	W
Carbon tetrachloride	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	56-23-5	W
Chlorobenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	108-90-7	W
Chloroethane	<1340	ug/kg	5000	1340	20	09/21/16 12:45	09/22/16 04:27	75-00-3	W
Chloroform	<929	ug/kg	5000	929	20	09/21/16 12:45	09/22/16 04:27	67-66-3	W
Chloromethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	74-87-3	W
Dibromochloromethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	124-48-1	W
Dibromomethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	74-95-3	W
Dichlorodifluoromethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	75-71-8	W
Diisopropyl ether	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	108-20-3	W
Ethylbenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	100-41-4	W
Hexachloro-1,3-butadiene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	87-68-3	W
Isopropylbenzene (Cumene)	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	98-82-8	W
Methyl-tert-butyl ether	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	1634-04-4	W
Methylene Chloride	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	75-09-2	W
Naphthalene	<801	ug/kg	5000	801	20	09/21/16 12:45	09/22/16 04:27	91-20-3	W
Styrene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-45 (9-10') Lab ID: 40138259025 Collected: 09/13/16 14:55 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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							
Tetrachloroethene	157000	ug/kg	1450	603	20	09/21/16 12:45	09/22/16 04:27	127-18-4	
Toluene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	108-88-3	W
Trichloroethene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	79-01-6	W
Trichlorofluoromethane	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	75-69-4	W
Vinyl chloride	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	75-01-4	W
Xylene (Total)	<1500	ug/kg	3600	1500	20	09/21/16 12:45	09/22/16 04:27	1330-20-7	W
cis-1,2-Dichloroethene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	156-59-2	W
cis-1,3-Dichloropropene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	10061-01-5	W
m&p-Xylene	<1000	ug/kg	2400	1000	20	09/21/16 12:45	09/22/16 04:27	179601-23-1	W
n-Butylbenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	104-51-8	W
n-Propylbenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	103-65-1	W
o-Xylene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	95-47-6	W
p-Isopropyltoluene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	99-87-6	W
sec-Butylbenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	135-98-8	W
tert-Butylbenzene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	98-06-6	W
trans-1,2-Dichloroethene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	156-60-5	W
trans-1,3-Dichloropropene	<500	ug/kg	1200	500	20	09/21/16 12:45	09/22/16 04:27	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	0	%	53-165		20	09/21/16 12:45	09/22/16 04:27	1868-53-7	S4
Toluene-d8 (S)	0	%	54-163		20	09/21/16 12:45	09/22/16 04:27	2037-26-5	S4
4-Bromofluorobenzene (S)	0	%	48-138		20	09/21/16 12:45	09/22/16 04:27	460-00-4	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	17.1	%	0.10	0.10	1			09/27/16 08:04	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-45 (11-12') Lab ID: 40138259026 Collected: 09/13/16 15:00 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/21/16 12:45	09/22/16 02:55	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/21/16 12:45	09/22/16 02:55	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/21/16 12:45	09/22/16 02:55	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/21/16 12:45	09/22/16 02:55	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/21/16 12:45	09/22/16 02:55	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/21/16 12:45	09/22/16 02:55	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-45 (11-12') Lab ID: 40138259026 Collected: 09/13/16 15:00 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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							
Tetrachloroethene	622	ug/kg	72.1	30.0	1	09/21/16 12:45	09/22/16 02:55	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/21/16 12:45	09/22/16 02:55	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/21/16 12:45	09/22/16 02:55	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 02:55	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	105	%	53-165		1	09/21/16 12:45	09/22/16 02:55	1868-53-7	
Toluene-d8 (S)	106	%	54-163		1	09/21/16 12:45	09/22/16 02:55	2037-26-5	
4-Bromofluorobenzene (S)	103	%	48-138		1	09/21/16 12:45	09/22/16 02:55	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	16.8	%	0.10	0.10	1			09/27/16 08:04	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-46 (2-4') Lab ID: 40138259027 Collected: 09/13/16 15:20 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	630-20-6	W
1,1,1-Trichloroethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	79-34-5	W
1,1,2-Trichloroethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	79-00-5	W
1,1-Dichloroethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	75-34-3	W
1,1-Dichloroethene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	75-35-4	W
1,1-Dichloropropene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	563-58-6	W
1,2,3-Trichlorobenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	87-61-6	W
1,2,3-Trichloropropane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	96-18-4	W
1,2,4-Trichlorobenzene	<48.5	ug/kg	255	48.5	1	09/21/16 12:45	09/22/16 03:18	120-82-1	W
1,2,4-Trimethylbenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	95-63-6	W
1,2-Dibromo-3-chloropropane	<93.1	ug/kg	255	93.1	1	09/21/16 12:45	09/22/16 03:18	96-12-8	W
1,2-Dibromoethane (EDB)	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	106-93-4	W
1,2-Dichlorobenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	95-50-1	W
1,2-Dichloroethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	107-06-2	W
1,2-Dichloropropane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	78-87-5	W
1,3,5-Trimethylbenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	108-67-8	W
1,3-Dichlorobenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	541-73-1	W
1,3-Dichloropropane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	142-28-9	W
1,4-Dichlorobenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	106-46-7	W
2,2-Dichloropropane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	594-20-7	W
2-Chlorotoluene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	95-49-8	W
4-Chlorotoluene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	106-43-4	W
Benzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	71-43-2	W
Bromobenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	108-86-1	W
Bromochloromethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	74-97-5	W
Bromodichloromethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	75-27-4	W
Bromoform	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	75-25-2	W
Bromomethane	<71.3	ug/kg	255	71.3	1	09/21/16 12:45	09/22/16 03:18	74-83-9	W
Carbon tetrachloride	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	56-23-5	W
Chlorobenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	108-90-7	W
Chloroethane	<68.4	ug/kg	255	68.4	1	09/21/16 12:45	09/22/16 03:18	75-00-3	W
Chloroform	<47.4	ug/kg	255	47.4	1	09/21/16 12:45	09/22/16 03:18	67-66-3	W
Chloromethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	74-87-3	W
Dibromochloromethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	124-48-1	W
Dibromomethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	74-95-3	W
Dichlorodifluoromethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	75-71-8	W
Diisopropyl ether	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	108-20-3	W
Ethylbenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	100-41-4	W
Hexachloro-1,3-butadiene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	87-68-3	W
Isopropylbenzene (Cumene)	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	98-82-8	W
Methyl-tert-butyl ether	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	1634-04-4	W
Methylene Chloride	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	75-09-2	W
Naphthalene	<40.9	ug/kg	255	40.9	1	09/21/16 12:45	09/22/16 03:18	91-20-3	W
Styrene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-46 (2-4') Lab ID: 40138259027 Collected: 09/13/16 15:20 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	352	ug/kg	71.4	29.7	1	09/21/16 12:45	09/22/16 03:18	127-18-4	
Toluene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	108-88-3	W
Trichloroethene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	79-01-6	W
Trichlorofluoromethane	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	75-69-4	W
Vinyl chloride	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	75-01-4	W
Xylene (Total)	<76.5	ug/kg	184	76.5	1	09/21/16 12:45	09/22/16 03:18	1330-20-7	W
cis-1,2-Dichloroethene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	156-59-2	W
cis-1,3-Dichloropropene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	10061-01-5	W
m&p-Xylene	<51.0	ug/kg	122	51.0	1	09/21/16 12:45	09/22/16 03:18	179601-23-1	W
n-Butylbenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	104-51-8	W
n-Propylbenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	103-65-1	W
o-Xylene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	95-47-6	W
p-Isopropyltoluene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	99-87-6	W
sec-Butylbenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	135-98-8	W
tert-Butylbenzene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	98-06-6	W
trans-1,2-Dichloroethene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	156-60-5	W
trans-1,3-Dichloropropene	<25.5	ug/kg	61.2	25.5	1	09/21/16 12:45	09/22/16 03:18	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	102	%	53-165		1	09/21/16 12:45	09/22/16 03:18	1868-53-7	
Toluene-d8 (S)	108	%	54-163		1	09/21/16 12:45	09/22/16 03:18	2037-26-5	
4-Bromofluorobenzene (S)	106	%	48-138		1	09/21/16 12:45	09/22/16 03:18	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	14.2	%	0.10	0.10	1			09/27/16 08:04	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-46 (6-8') Lab ID: 40138259028 Collected: 09/13/16 15:25 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/21/16 12:45	09/22/16 08:43	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/21/16 12:45	09/22/16 08:43	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/21/16 12:45	09/22/16 08:43	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/21/16 12:45	09/22/16 08:43	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/21/16 12:45	09/22/16 08:43	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/21/16 12:45	09/22/16 08:43	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-46 (6-8') Lab ID: 40138259028 Collected: 09/13/16 15:25 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/21/16 12:45	09/22/16 08:43	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/21/16 12:45	09/22/16 08:43	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:43	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	109	%	53-165		1	09/21/16 12:45	09/22/16 08:43	1868-53-7	
Toluene-d8 (S)	110	%	54-163		1	09/21/16 12:45	09/22/16 08:43	2037-26-5	
4-Bromofluorobenzene (S)	105	%	48-138		1	09/21/16 12:45	09/22/16 08:43	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	13.1	%	0.10	0.10	1			09/27/16 08:04	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-46 (9-10') Lab ID: 40138259029 Collected: 09/13/16 15:30 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/21/16 12:45	09/22/16 09:06	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/21/16 12:45	09/22/16 09:06	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/21/16 12:45	09/22/16 09:06	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/21/16 12:45	09/22/16 09:06	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/21/16 12:45	09/22/16 09:06	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/21/16 12:45	09/22/16 09:06	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-46 (9-10') Lab ID: 40138259029 Collected: 09/13/16 15:30 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/21/16 12:45	09/22/16 09:06	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/21/16 12:45	09/22/16 09:06	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:06	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	104	%	53-165		1	09/21/16 12:45	09/22/16 09:06	1868-53-7	
Toluene-d8 (S)	104	%	54-163		1	09/21/16 12:45	09/22/16 09:06	2037-26-5	
4-Bromofluorobenzene (S)	101	%	48-138		1	09/21/16 12:45	09/22/16 09:06	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	11.5	%	0.10	0.10	1			09/27/16 08:04	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-47 (1-2') Lab ID: 40138259030 Collected: 09/13/16 15:30 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/21/16 12:45	09/22/16 09:29	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/21/16 12:45	09/22/16 09:29	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/21/16 12:45	09/22/16 09:29	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/21/16 12:45	09/22/16 09:29	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/21/16 12:45	09/22/16 09:29	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/21/16 12:45	09/22/16 09:29	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-47 (1-2') Lab ID: 40138259030 Collected: 09/13/16 15:30 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/21/16 12:45	09/22/16 09:29	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/21/16 12:45	09/22/16 09:29	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:29	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	109	%	53-165		1	09/21/16 12:45	09/22/16 09:29	1868-53-7	
Toluene-d8 (S)	110	%	54-163		1	09/21/16 12:45	09/22/16 09:29	2037-26-5	
4-Bromofluorobenzene (S)	106	%	48-138		1	09/21/16 12:45	09/22/16 09:29	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	10.2	%	0.10	0.10	1			09/27/16 08:04	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-47 (5-7) Lab ID: 40138259031 Collected: 09/13/16 15:35 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/21/16 12:45	09/22/16 09:52	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/21/16 12:45	09/22/16 09:52	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/21/16 12:45	09/22/16 09:52	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/21/16 12:45	09/22/16 09:52	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/21/16 12:45	09/22/16 09:52	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/21/16 12:45	09/22/16 09:52	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-47 (5-7) Lab ID: 40138259031 Collected: 09/13/16 15:35 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/21/16 12:45	09/22/16 09:52	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/21/16 12:45	09/22/16 09:52	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 09:52	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	92	%	53-165		1	09/21/16 12:45	09/22/16 09:52	1868-53-7	
Toluene-d8 (S)	96	%	54-163		1	09/21/16 12:45	09/22/16 09:52	2037-26-5	
4-Bromofluorobenzene (S)	94	%	48-138		1	09/21/16 12:45	09/22/16 09:52	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	13.9	%	0.10	0.10	1			09/27/16 08:04	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-48 (1-2') Lab ID: 40138259032 Collected: 09/13/16 16:00 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/21/16 12:45	09/22/16 08:20	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/21/16 12:45	09/22/16 08:20	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/21/16 12:45	09/22/16 08:20	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/21/16 12:45	09/22/16 08:20	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/21/16 12:45	09/22/16 08:20	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/21/16 12:45	09/22/16 08:20	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-48 (1-2') Lab ID: 40138259032 Collected: 09/13/16 16:00 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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							
Tetrachloroethene	174	ug/kg	64.8	27.0	1	09/21/16 12:45	09/22/16 08:20	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/21/16 12:45	09/22/16 08:20	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/21/16 12:45	09/22/16 08:20	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/21/16 12:45	09/22/16 08:20	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	104	%	53-165		1	09/21/16 12:45	09/22/16 08:20	1868-53-7	
Toluene-d8 (S)	108	%	54-163		1	09/21/16 12:45	09/22/16 08:20	2037-26-5	
4-Bromofluorobenzene (S)	106	%	48-138		1	09/21/16 12:45	09/22/16 08:20	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	7.4	%	0.10	0.10	1			09/27/16 08:04	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-48 (5-7) Lab ID: 40138259033 Collected: 09/13/16 16:05 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/22/16 07:15	09/22/16 13:21	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/22/16 07:15	09/22/16 13:21	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/22/16 07:15	09/22/16 13:21	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/22/16 07:15	09/22/16 13:21	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/22/16 07:15	09/22/16 13:21	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/22/16 07:15	09/22/16 13:21	91-20-3	W
Styrene	114	ug/kg	71.8	29.9	1	09/22/16 07:15	09/22/16 13:21	100-42-5	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-48 (5-7') Lab ID: 40138259033 Collected: 09/13/16 16:05 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/22/16 07:15	09/22/16 13:21	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/22/16 07:15	09/22/16 13:21	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:21	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	90	%	53-165		1	09/22/16 07:15	09/22/16 13:21	1868-53-7	
Toluene-d8 (S)	96	%	54-163		1	09/22/16 07:15	09/22/16 13:21	2037-26-5	
4-Bromofluorobenzene (S)	95	%	48-138		1	09/22/16 07:15	09/22/16 13:21	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	16.4	%	0.10	0.10	1			09/27/16 08:04	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-49 (1-2') Lab ID: 40138259034 Collected: 09/13/16 16:20 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/22/16 07:15	09/22/16 13:44	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/22/16 07:15	09/22/16 13:44	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/22/16 07:15	09/22/16 13:44	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/22/16 07:15	09/22/16 13:44	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/22/16 07:15	09/22/16 13:44	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/22/16 07:15	09/22/16 13:44	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-49 (1-2') Lab ID: 40138259034 Collected: 09/13/16 16:20 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/22/16 07:15	09/22/16 13:44	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/22/16 07:15	09/22/16 13:44	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 13:44	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	105	%	53-165		1	09/22/16 07:15	09/22/16 13:44	1868-53-7	
Toluene-d8 (S)	111	%	54-163		1	09/22/16 07:15	09/22/16 13:44	2037-26-5	
4-Bromofluorobenzene (S)	109	%	48-138		1	09/22/16 07:15	09/22/16 13:44	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	9.8	%	0.10	0.10	1			09/27/16 08:05	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-49 (5-7) Lab ID: 40138259035 Collected: 09/13/16 16:25 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/22/16 07:15	09/22/16 14:07	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/22/16 07:15	09/22/16 14:07	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/22/16 07:15	09/22/16 14:07	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/22/16 07:15	09/22/16 14:07	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/22/16 07:15	09/22/16 14:07	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/22/16 07:15	09/22/16 14:07	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-49 (5-7) Lab ID: 40138259035 Collected: 09/13/16 16:25 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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							
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/22/16 07:15	09/22/16 14:07	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/22/16 07:15	09/22/16 14:07	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:07	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	96	%	53-165		1	09/22/16 07:15	09/22/16 14:07	1868-53-7	
Toluene-d8 (S)	100	%	54-163		1	09/22/16 07:15	09/22/16 14:07	2037-26-5	
4-Bromofluorobenzene (S)	98	%	48-138		1	09/22/16 07:15	09/22/16 14:07	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	13.4	%	0.10	0.10	1			09/27/16 08:34	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-50 (1-2') Lab ID: 40138259036 Collected: 09/13/16 16:35 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/22/16 07:15	09/22/16 12:58	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/22/16 07:15	09/22/16 12:58	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/22/16 07:15	09/22/16 12:58	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/22/16 07:15	09/22/16 12:58	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/22/16 07:15	09/22/16 12:58	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/22/16 07:15	09/22/16 12:58	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-50 (1-2') Lab ID: 40138259036 Collected: 09/13/16 16:35 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/22/16 07:15	09/22/16 12:58	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/22/16 07:15	09/22/16 12:58	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:58	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	108	%	53-165		1	09/22/16 07:15	09/22/16 12:58	1868-53-7	
Toluene-d8 (S)	114	%	54-163		1	09/22/16 07:15	09/22/16 12:58	2037-26-5	
4-Bromofluorobenzene (S)	112	%	48-138		1	09/22/16 07:15	09/22/16 12:58	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	9.5	%	0.10	0.10	1			09/27/16 08:34	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-50 (5-7) Lab ID: 40138259037 Collected: 09/13/16 16:40 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/22/16 07:15	09/22/16 14:30	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/22/16 07:15	09/22/16 14:30	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/22/16 07:15	09/22/16 14:30	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/22/16 07:15	09/22/16 14:30	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/22/16 07:15	09/22/16 14:30	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/22/16 07:15	09/22/16 14:30	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	100-42-5	W

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: B-50 (5-7') Lab ID: 40138259037 Collected: 09/13/16 16:40 Received: 09/14/16 16:10 Matrix: Solid

Results reported on a "dry 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								
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/22/16 07:15	09/22/16 14:30	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/22/16 07:15	09/22/16 14:30	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 14:30	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	53-165		1	09/22/16 07:15	09/22/16 14:30	1868-53-7	
Toluene-d8 (S)	97	%	54-163		1	09/22/16 07:15	09/22/16 14:30	2037-26-5	
4-Bromofluorobenzene (S)	95	%	48-138		1	09/22/16 07:15	09/22/16 14:30	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	12.8	%	0.10	0.10	1			09/27/16 08:35	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: MEOH TRIP BLANK Lab ID: 40138259038 Collected: 09/13/16 00:00 Received: 09/14/16 16:10 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	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/22/16 07:15	09/22/16 12:11	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/22/16 07:15	09/22/16 12:11	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/22/16 07:15	09/22/16 12:11	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/22/16 07:15	09/22/16 12:11	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/22/16 07:15	09/22/16 12:11	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	09/22/16 07:15	09/22/16 12:11	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Sample: MEOH TRIP BLANK Lab ID: 40138259038 Collected: 09/13/16 00:00 Received: 09/14/16 16:10 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							
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	09/22/16 07:15	09/22/16 12:11	1330-20-7	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/22/16 07:15	09/22/16 12:11	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/22/16 07:15	09/22/16 12:11	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	53-165		1	09/22/16 07:15	09/22/16 12:11	1868-53-7	
Toluene-d8 (S)	95	%	54-163		1	09/22/16 07:15	09/22/16 12:11	2037-26-5	
4-Bromofluorobenzene (S)	96	%	48-138		1	09/22/16 07:15	09/22/16 12:11	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

QC Batch:	235301	Analysis Method:	EPA 8260
QC Batch Method:	EPA 5035/5030B	Analysis Description:	8260 MSV Med Level Normal List
Associated Lab Samples:	40138259001, 40138259002, 40138259003, 40138259004, 40138259005, 40138259006		

METHOD BLANK: 1394737	Matrix: Solid
Associated Lab Samples:	40138259001, 40138259002, 40138259003, 40138259004, 40138259005, 40138259006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	09/19/16 08:52	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	09/19/16 08:52	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	09/19/16 08:52	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	09/19/16 08:52	
1,1-Dichloroethane	ug/kg	<17.6	50.0	09/19/16 08:52	
1,1-Dichloroethene	ug/kg	<17.6	50.0	09/19/16 08:52	
1,1-Dichloropropene	ug/kg	<14.0	50.0	09/19/16 08:52	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	09/19/16 08:52	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	09/19/16 08:52	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	09/19/16 08:52	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	09/19/16 08:52	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	09/19/16 08:52	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	09/19/16 08:52	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	09/19/16 08:52	
1,2-Dichloroethane	ug/kg	<15.0	50.0	09/19/16 08:52	
1,2-Dichloropropane	ug/kg	<16.8	50.0	09/19/16 08:52	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	09/19/16 08:52	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	09/19/16 08:52	
1,3-Dichloropropane	ug/kg	<12.0	50.0	09/19/16 08:52	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	09/19/16 08:52	
2,2-Dichloropropane	ug/kg	<12.6	50.0	09/19/16 08:52	
2-Chlorotoluene	ug/kg	<15.8	50.0	09/19/16 08:52	
4-Chlorotoluene	ug/kg	<13.0	50.0	09/19/16 08:52	
Benzene	ug/kg	<9.2	20.0	09/19/16 08:52	
Bromobenzene	ug/kg	<20.6	50.0	09/19/16 08:52	
Bromochloromethane	ug/kg	<21.4	50.0	09/19/16 08:52	
Bromodichloromethane	ug/kg	<9.8	50.0	09/19/16 08:52	
Bromoform	ug/kg	<19.8	50.0	09/19/16 08:52	
Bromomethane	ug/kg	<69.9	250	09/19/16 08:52	
Carbon tetrachloride	ug/kg	<12.1	50.0	09/19/16 08:52	
Chlorobenzene	ug/kg	<14.8	50.0	09/19/16 08:52	
Chloroethane	ug/kg	<67.0	250	09/19/16 08:52	
Chloroform	ug/kg	<46.4	250	09/19/16 08:52	
Chloromethane	ug/kg	<20.4	50.0	09/19/16 08:52	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	09/19/16 08:52	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	09/19/16 08:52	
Dibromochloromethane	ug/kg	<17.9	50.0	09/19/16 08:52	
Dibromomethane	ug/kg	<19.3	50.0	09/19/16 08:52	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	09/19/16 08:52	
Diisopropyl ether	ug/kg	<17.7	50.0	09/19/16 08:52	
Ethylbenzene	ug/kg	<12.4	50.0	09/19/16 08:52	

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

METHOD BLANK: 1394737

Matrix: Solid

Associated Lab Samples: 40138259001, 40138259002, 40138259003, 40138259004, 40138259005, 40138259006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	09/19/16 08:52	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	09/19/16 08:52	
m&p-Xylene	ug/kg	<34.4	100	09/19/16 08:52	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	09/19/16 08:52	
Methylene Chloride	ug/kg	<16.2	50.0	09/19/16 08:52	
n-Butylbenzene	ug/kg	12.9J	50.0	09/19/16 08:52	
n-Propylbenzene	ug/kg	<11.6	50.0	09/19/16 08:52	
Naphthalene	ug/kg	<40.0	250	09/19/16 08:52	
o-Xylene	ug/kg	<14.0	50.0	09/19/16 08:52	
p-Isopropyltoluene	ug/kg	<12.0	50.0	09/19/16 08:52	
sec-Butylbenzene	ug/kg	<11.9	50.0	09/19/16 08:52	
Styrene	ug/kg	<9.0	50.0	09/19/16 08:52	
tert-Butylbenzene	ug/kg	<9.5	50.0	09/19/16 08:52	
Tetrachloroethene	ug/kg	<12.9	50.0	09/19/16 08:52	
Toluene	ug/kg	<11.2	50.0	09/19/16 08:52	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	09/19/16 08:52	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	09/19/16 08:52	
Trichloroethene	ug/kg	<23.6	50.0	09/19/16 08:52	
Trichlorofluoromethane	ug/kg	<24.7	50.0	09/19/16 08:52	
Vinyl chloride	ug/kg	<21.1	50.0	09/19/16 08:52	
Xylene (Total)	ug/kg	<48.4	150	09/19/16 08:52	
4-Bromofluorobenzene (S)	%	98	48-138	09/19/16 08:52	
Dibromofluoromethane (S)	%	99	53-165	09/19/16 08:52	
Toluene-d8 (S)	%	103	54-163	09/19/16 08:52	

LABORATORY CONTROL SAMPLE: 1394738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2440	98	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2670	107	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2730	109	70-130	
1,1-Dichloroethane	ug/kg	2500	2540	102	70-133	
1,1-Dichloroethene	ug/kg	2500	2030	81	70-130	
1,2,4-Trichlorobenzene	ug/kg	2500	2730	109	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2350	94	50-150	
1,2-Dibromoethane (EDB)	ug/kg	2500	2640	106	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2600	104	70-130	
1,2-Dichloroethane	ug/kg	2500	2600	104	70-138	
1,2-Dichloropropane	ug/kg	2500	2730	109	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2580	103	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2480	99	70-130	
Benzene	ug/kg	2500	2610	104	70-130	
Bromodichloromethane	ug/kg	2500	2610	104	70-130	
Bromoform	ug/kg	2500	2320	93	68-130	

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

LABORATORY CONTROL SAMPLE: 1394738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/kg	2500	2110	84	25-163	
Carbon tetrachloride	ug/kg	2500	2440	98	70-130	
Chlorobenzene	ug/kg	2500	2670	107	70-130	
Chloroethane	ug/kg	2500	2180	87	34-151	
Chloroform	ug/kg	2500	2480	99	70-130	
Chloromethane	ug/kg	2500	1820	73	52-130	
cis-1,2-Dichloroethene	ug/kg	2500	2520	101	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2640	105	70-130	
Dibromochloromethane	ug/kg	2500	2390	95	70-130	
Dichlorodifluoromethane	ug/kg	2500	1300	52	27-150	
Ethylbenzene	ug/kg	2500	2700	108	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2730	109	70-130	
m&p-Xylene	ug/kg	5000	5520	110	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2720	109	70-130	
Methylene Chloride	ug/kg	2500	2500	100	70-131	
o-Xylene	ug/kg	2500	2760	110	70-130	
Styrene	ug/kg	2500	2460	98	70-130	
Tetrachloroethene	ug/kg	2500	2560	102	70-130	
Toluene	ug/kg	2500	2750	110	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2430	97	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2450	98	70-130	
Trichloroethene	ug/kg	2500	2640	105	70-130	
Trichlorofluoromethane	ug/kg	2500	1960	78	50-150	
Vinyl chloride	ug/kg	2500	2090	84	57-130	
Xylene (Total)	ug/kg	7500	8280	110	70-130	
4-Bromofluorobenzene (S)	%			112	48-138	
Dibromofluoromethane (S)	%			106	53-165	
Toluene-d8 (S)	%			109	54-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1394739 1394740

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40138247001 Result	Spike Conc.	Spike Conc.	MS Result								
1,1,1-Trichloroethane	ug/kg	<0.025 mg/kg	1490	1490	1280	1410	86	95	70-130	10	20		
1,1,2,2-Tetrachloroethane	ug/kg	<0.025 mg/kg	1490	1490	1580	1670	106	112	70-130	6	20		
1,1,2-Trichloroethane	ug/kg	<0.025 mg/kg	1490	1490	1590	1660	107	112	70-130	5	20		
1,1-Dichloroethane	ug/kg	<0.025 mg/kg	1490	1490	1420	1480	96	99	64-133	4	20		
1,1-Dichloroethene	ug/kg	<0.025 mg/kg	1490	1490	1120	1200	75	81	56-130	7	24		
1,2,4-Trichlorobenzene	ug/kg	<0.048 mg/kg	1490	1490	1660	1850	110	123	70-130	11	20		
1,2-Dibromo-3-chloropropane	ug/kg	<0.091 mg/kg	1490	1490	1470	1750	99	118	50-150	17	20		

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REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1394739		1394740								
Parameter	Units	40138247001	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/kg	<0.025 mg/kg	1490	1490	1490	1620	100	109	70-130	8	20	
1,2-Dichlorobenzene	ug/kg	<0.025 mg/kg	1490	1490	1510	1660	101	112	70-130	10	20	
1,2-Dichloroethane	ug/kg	<0.025 mg/kg	1490	1490	1520	1530	102	103	70-138	1	20	
1,2-Dichloropropane	ug/kg	<0.025 mg/kg	1490	1490	1530	1620	103	109	70-130	6	20	
1,3-Dichlorobenzene	ug/kg	<0.025 mg/kg	1490	1490	1510	1660	101	111	70-130	9	20	
1,4-Dichlorobenzene	ug/kg	<0.025 mg/kg	1490	1490	1430	1580	96	106	70-130	10	20	
Benzene	ug/kg	<0.025 mg/kg	1490	1490	1470	1500	99	101	70-130	2	20	
Bromodichloromethane	ug/kg	<0.025 mg/kg	1490	1490	1420	1480	95	100	70-130	4	20	
Bromoform	ug/kg	<0.025 mg/kg	1490	1490	1320	1460	89	98	65-130	9	20	
Bromomethane	ug/kg	<0.070 mg/kg	1490	1490	1310	1400	88	94	11-163	7	21	
Carbon tetrachloride	ug/kg	<0.025 mg/kg	1490	1490	1250	1290	84	87	70-130	4	20	
Chlorobenzene	ug/kg	<0.025 mg/kg	1490	1490	1490	1550	101	104	70-130	4	20	
Chloroethane	ug/kg	<0.067 mg/kg	1490	1490	1150	1140	77	77	17-151	0	20	
Chloroform	ug/kg	<0.046 mg/kg	1490	1490	1400	1410	94	95	70-130	0	20	
Chloromethane	ug/kg	<0.025 mg/kg	1490	1490	1030	1070	69	72	13-130	4	20	
cis-1,2-Dichloroethene	ug/kg	<0.025 mg/kg	1490	1490	1400	1510	94	101	70-130	8	20	
cis-1,3-Dichloropropene	ug/kg	<0.025 mg/kg	1490	1490	1440	1520	97	102	70-130	5	20	
Dibromochloromethane	ug/kg	<0.025 mg/kg	1490	1490	1400	1470	94	99	70-130	5	20	
Dichlorodifluoromethane	ug/kg	<0.025 mg/kg	1490	1490	905	880	61	59	10-150	3	21	
Ethylbenzene	ug/kg	<0.025 mg/kg	1490	1490	1440	1580	97	107	70-130	10	20	
Isopropylbenzene (Cumene)	ug/kg	<0.025 mg/kg	1490	1490	1420	1580	95	106	70-130	11	20	
m&p-Xylene	ug/kg	0.085J mg/kg	2970	2970	2990	3330	98	109	70-130	11	20	
Methyl-tert-butyl ether	ug/kg	<0.025 mg/kg	1490	1490	1540	1640	103	110	70-130	6	20	
Methylene Chloride	ug/kg	<0.025 mg/kg	1490	1490	1390	1440	94	97	70-131	4	20	
o-Xylene	ug/kg	<0.025 mg/kg	1490	1490	1480	1580	99	107	70-130	7	20	
Styrene	ug/kg	<0.025 mg/kg	1490	1490	1410	1520	95	102	70-130	8	20	
Tetrachloroethene	ug/kg	<0.025 mg/kg	1490	1490	1340	1500	90	101	70-130	12	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Parameter	Units	40138247001		MS Spike Conc.		MSD Spike Conc.		MS Result		MSD Result		% Rec	MSD % Rec	% Rec Limits	Max	
		Result	Conc.			Result	Conc.	Result	Conc.	Result	Conc.				RPD	RPD
Toluene	ug/kg	<0.025 mg/kg		1490		1490		1510		1600		102		108	70-130	6 20
trans-1,2-Dichloroethene	ug/kg	<0.025 mg/kg		1490		1490		1330		1410		90		95	70-130	6 20
trans-1,3-Dichloropropene	ug/kg	<0.025 mg/kg		1490		1490		1340		1470		90		99	70-130	9 20
Trichloroethene	ug/kg	<0.025 mg/kg		1490		1490		1390		1540		94		104	70-130	10 20
Trichlorofluoromethane	ug/kg	<0.025 mg/kg		1490		1490		1120		1350		75		91	40-150	18 31
Vinyl chloride	ug/kg	<0.025 mg/kg		1490		1490		1200		1300		81		87	26-130	8 20
Xylene (Total)	ug/kg	<75.0		4460		4460		4460		4910		98		108	70-130	10 20
4-Bromofluorobenzene (S)	%											111		117	48-138	
Dibromofluoromethane (S)	%											106		107	53-165	
Toluene-d8 (S)	%											109		113	54-163	

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

QC Batch:	235591	Analysis Method:	EPA 8260
QC Batch Method:	EPA 5035/5030B	Analysis Description:	8260 MSV Med Level Normal List
Associated Lab Samples:	40138259007, 40138259008, 40138259009, 40138259010, 40138259011, 40138259012		

METHOD BLANK:	1396343	Matrix:	Solid
Associated Lab Samples:	40138259007, 40138259008, 40138259009, 40138259010, 40138259011, 40138259012		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	09/21/16 09:31	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	09/21/16 09:31	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	09/21/16 09:31	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	09/21/16 09:31	
1,1-Dichloroethane	ug/kg	<17.6	50.0	09/21/16 09:31	
1,1-Dichloroethene	ug/kg	<17.6	50.0	09/21/16 09:31	
1,1-Dichloropropene	ug/kg	<14.0	50.0	09/21/16 09:31	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	09/21/16 09:31	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	09/21/16 09:31	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	09/21/16 09:31	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	09/21/16 09:31	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	09/21/16 09:31	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	09/21/16 09:31	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	09/21/16 09:31	
1,2-Dichloroethane	ug/kg	<15.0	50.0	09/21/16 09:31	
1,2-Dichloropropane	ug/kg	<16.8	50.0	09/21/16 09:31	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	09/21/16 09:31	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	09/21/16 09:31	
1,3-Dichloropropane	ug/kg	<12.0	50.0	09/21/16 09:31	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	09/21/16 09:31	
2,2-Dichloropropane	ug/kg	<12.6	50.0	09/21/16 09:31	
2-Chlorotoluene	ug/kg	<15.8	50.0	09/21/16 09:31	
4-Chlorotoluene	ug/kg	<13.0	50.0	09/21/16 09:31	
Benzene	ug/kg	<9.2	20.0	09/21/16 09:31	
Bromobenzene	ug/kg	<20.6	50.0	09/21/16 09:31	
Bromochloromethane	ug/kg	<21.4	50.0	09/21/16 09:31	
Bromodichloromethane	ug/kg	<9.8	50.0	09/21/16 09:31	
Bromoform	ug/kg	<19.8	50.0	09/21/16 09:31	
Bromomethane	ug/kg	<69.9	250	09/21/16 09:31	
Carbon tetrachloride	ug/kg	<12.1	50.0	09/21/16 09:31	
Chlorobenzene	ug/kg	<14.8	50.0	09/21/16 09:31	
Chloroethane	ug/kg	<67.0	250	09/21/16 09:31	
Chloroform	ug/kg	<46.4	250	09/21/16 09:31	
Chloromethane	ug/kg	<20.4	50.0	09/21/16 09:31	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	09/21/16 09:31	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	09/21/16 09:31	
Dibromochloromethane	ug/kg	<17.9	50.0	09/21/16 09:31	
Dibromomethane	ug/kg	<19.3	50.0	09/21/16 09:31	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	09/21/16 09:31	
Diisopropyl ether	ug/kg	<17.7	50.0	09/21/16 09:31	
Ethylbenzene	ug/kg	<12.4	50.0	09/21/16 09:31	

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

METHOD BLANK: 1396343

Matrix: Solid

Associated Lab Samples: 40138259007, 40138259008, 40138259009, 40138259010, 40138259011, 40138259012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	09/21/16 09:31	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	09/21/16 09:31	
m&p-Xylene	ug/kg	<34.4	100	09/21/16 09:31	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	09/21/16 09:31	
Methylene Chloride	ug/kg	<16.2	50.0	09/21/16 09:31	
n-Butylbenzene	ug/kg	<10.5	50.0	09/21/16 09:31	
n-Propylbenzene	ug/kg	<11.6	50.0	09/21/16 09:31	
Naphthalene	ug/kg	<40.0	250	09/21/16 09:31	
o-Xylene	ug/kg	<14.0	50.0	09/21/16 09:31	
p-Isopropyltoluene	ug/kg	<12.0	50.0	09/21/16 09:31	
sec-Butylbenzene	ug/kg	<11.9	50.0	09/21/16 09:31	
Styrene	ug/kg	<9.0	50.0	09/21/16 09:31	
tert-Butylbenzene	ug/kg	<9.5	50.0	09/21/16 09:31	
Tetrachloroethene	ug/kg	<12.9	50.0	09/21/16 09:31	
Toluene	ug/kg	<11.2	50.0	09/21/16 09:31	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	09/21/16 09:31	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	09/21/16 09:31	
Trichloroethene	ug/kg	<23.6	50.0	09/21/16 09:31	
Trichlorofluoromethane	ug/kg	<24.7	50.0	09/21/16 09:31	
Vinyl chloride	ug/kg	<21.1	50.0	09/21/16 09:31	
Xylene (Total)	ug/kg	<48.4	150	09/21/16 09:31	
4-Bromofluorobenzene (S)	%	78	48-138	09/21/16 09:31	
Dibromofluoromethane (S)	%	117	53-165	09/21/16 09:31	
Toluene-d8 (S)	%	98	54-163	09/21/16 09:31	

LABORATORY CONTROL SAMPLE: 1396344

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2610	104	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2480	99	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2680	107	70-130	
1,1-Dichloroethane	ug/kg	2500	2960	119	70-133	
1,1-Dichloroethene	ug/kg	2500	2550	102	70-130	
1,2,4-Trichlorobenzene	ug/kg	2500	2300	92	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2390	96	50-150	
1,2-Dibromoethane (EDB)	ug/kg	2500	2510	101	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2460	98	70-130	
1,2-Dichloroethane	ug/kg	2500	2650	106	70-138	
1,2-Dichloropropane	ug/kg	2500	3210	128	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2410	97	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2550	102	70-130	
Benzene	ug/kg	2500	2800	112	70-130	
Bromodichloromethane	ug/kg	2500	3090	124	70-130	
Bromoform	ug/kg	2500	2390	96	68-130	

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

LABORATORY CONTROL SAMPLE: 1396344

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/kg	2500	2200	88	25-163	
Carbon tetrachloride	ug/kg	2500	2770	111	70-130	
Chlorobenzene	ug/kg	2500	2680	107	70-130	
Chloroethane	ug/kg	2500	2870	115	34-151	
Chloroform	ug/kg	2500	2750	110	70-130	
Chloromethane	ug/kg	2500	2290	92	52-130	
cis-1,2-Dichloroethene	ug/kg	2500	2630	105	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2700	108	70-130	
Dibromochloromethane	ug/kg	2500	2490	100	70-130	
Dichlorodifluoromethane	ug/kg	2500	1390	56	27-150	
Ethylbenzene	ug/kg	2500	2590	104	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2720	109	70-130	
m&p-Xylene	ug/kg	5000	5450	109	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2370	95	70-130	
Methylene Chloride	ug/kg	2500	2970	119	70-131	
o-Xylene	ug/kg	2500	2430	97	70-130	
Styrene	ug/kg	2500	2640	106	70-130	
Tetrachloroethene	ug/kg	2500	2610	104	70-130	
Toluene	ug/kg	2500	2730	109	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2640	106	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2460	99	70-130	
Trichloroethene	ug/kg	2500	2850	114	70-130	
Trichlorofluoromethane	ug/kg	2500	2270	91	50-150	
Vinyl chloride	ug/kg	2500	2350	94	57-130	
Xylene (Total)	ug/kg	7500	7890	105	70-130	
4-Bromofluorobenzene (S)	%			98	48-138	
Dibromofluoromethane (S)	%			116	53-165	
Toluene-d8 (S)	%			104	54-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1396345 1396346

Parameter	Units	MS		MSD		MS Result	MS % Rec	MSD Result	MSD % Rec	% Rec Limits		Max	
		40138515002 Result	Spike Conc.	Spike Conc.	MS					RPD	RPD	Qual	
1,1,1-Trichloroethane	ug/kg	<25.0	1520	1520	1540	1470	101	97	70-130	4	20		
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1520	1520	1440	1440	95	95	70-130	0	20		
1,1,2-Trichloroethane	ug/kg	<25.0	1520	1520	1570	1490	103	98	70-130	6	20		
1,1-Dichloroethane	ug/kg	<25.0	1520	1520	1770	1770	117	116	64-133	0	20		
1,1-Dichloroethene	ug/kg	<25.0	1520	1520	1470	1480	97	97	56-130	1	24		
1,2,4-Trichlorobenzene	ug/kg	<47.6	1520	1520	1500	1470	99	97	70-130	2	20		
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1520	1520	1560	1490	103	98	50-150	5	20		
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1520	1520	1470	1480	97	97	70-130	1	20		
1,2-Dichlorobenzene	ug/kg	55.5J	1520	1520	1560	1530	99	97	70-130	1	20		
1,2-Dichloroethane	ug/kg	<25.0	1520	1520	1650	1570	108	103	70-138	5	20		
1,2-Dichloropropane	ug/kg	<25.0	1520	1520	1830	1800	121	118	70-130	2	20		

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Parameter	Units	40138515002		MS Spike		MSD Spike		MS		MSD		% Rec Limits	RPD	RPD	Max Qual
		Result	Conc.	Conc.	Result	MSD	Result	Result	% Rec	MSD	% Rec				
1,3-Dichlorobenzene	ug/kg	<25.0	1520	1520	1450	1440	95	95	70-130	0	20				
1,4-Dichlorobenzene	ug/kg	<25.0	1520	1520	1560	1520	101	99	70-130	3	20				
Benzene	ug/kg	<25.0	1520	1520	1730	1630	113	106	70-130	6	20				
Bromodichloromethane	ug/kg	<25.0	1520	1520	1730	1740	114	114	70-130	0	20				
Bromoform	ug/kg	<25.0	1520	1520	1510	1520	99	100	65-130	1	20				
Bromomethane	ug/kg	<69.9	1520	1520	1370	1260	90	83	11-163	9	21				
Carbon tetrachloride	ug/kg	<25.0	1520	1520	1590	1530	104	101	70-130	3	20				
Chlorobenzene	ug/kg	<25.0	1520	1520	1580	1550	104	102	70-130	2	20				
Chloroethane	ug/kg	<67.0	1520	1520	1540	1460	101	96	17-151	5	20				
Chloroform	ug/kg	<46.4	1520	1520	1710	1630	112	107	70-130	5	20				
Chloromethane	ug/kg	<25.0	1520	1520	1110	1130	73	75	13-130	2	20				
cis-1,2-Dichloroethene	ug/kg	<25.0	1520	1520	1530	1560	101	103	70-130	2	20				
cis-1,3-Dichloropropene	ug/kg	<25.0	1520	1520	1440	1440	94	95	70-130	0	20				
Dibromochloromethane	ug/kg	<25.0	1520	1520	1540	1510	101	99	70-130	2	20				
Dichlorodifluoromethane	ug/kg	<25.0	1520	1520	671	621	44	41	10-150	8	21				
Ethylbenzene	ug/kg	<25.0	1520	1520	1400	1370	91	89	70-130	2	20				
Isopropylbenzene (Cumene)	ug/kg	<25.0	1520	1520	1440	1440	94	95	70-130	0	20				
m&p-Xylene	ug/kg	<50.0	3040	3040	2900	2940	95	97	70-130	2	20				
Methyl-tert-butyl ether	ug/kg	<25.0	1520	1520	1430	1430	94	94	70-130	0	20				
Methylene Chloride	ug/kg	<25.0	1520	1520	1840	1830	121	120	70-131	1	20				
o-Xylene	ug/kg	<25.0	1520	1520	1360	1360	88	89	70-130	1	20				
Styrene	ug/kg	<25.0	1520	1520	1470	1450	97	95	70-130	1	20				
Tetrachloroethene	ug/kg	<25.0	1520	1520	1430	1420	94	94	70-130	0	20				
Toluene	ug/kg	<25.0	1520	1520	1550	1550	101	102	70-130	1	20				
trans-1,2-Dichloroethene	ug/kg	<25.0	1520	1520	1570	1470	103	96	70-130	7	20				
trans-1,3-Dichloropropene	ug/kg	<25.0	1520	1520	1380	1360	91	90	70-130	1	20				
Trichloroethene	ug/kg	<25.0	1520	1520	1530	1570	101	104	70-130	3	20				
Trichlorofluoromethane	ug/kg	<25.0	1520	1520	1270	1190	84	78	40-150	6	31				
Vinyl chloride	ug/kg	<25.0	1520	1520	1340	1280	88	84	26-130	5	20				
Xylene (Total)	ug/kg	<75.0	4560	4560	4250	4300	93	94	70-130	1	20				
4-Bromofluorobenzene (S)	%						93	95	48-138						
Dibromofluoromethane (S)	%						119	113	53-165						
Toluene-d8 (S)	%						98	102	54-163						

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

QC Batch:	235660	Analysis Method:	EPA 8260
QC Batch Method:	EPA 5035/5030B	Analysis Description:	8260 MSV Med Level Normal List
Associated Lab Samples:	40138259013, 40138259014, 40138259015, 40138259016, 40138259017, 40138259018, 40138259019, 40138259020, 40138259021, 40138259022, 40138259023, 40138259024, 40138259025, 40138259026, 40138259027, 40138259028, 40138259029, 40138259030, 40138259031, 40138259032		

METHOD BLANK:	1396793	Matrix:	Solid
Associated Lab Samples:	40138259013, 40138259014, 40138259015, 40138259016, 40138259017, 40138259018, 40138259019, 40138259020, 40138259021, 40138259022, 40138259023, 40138259024, 40138259025, 40138259026, 40138259027, 40138259028, 40138259029, 40138259030, 40138259031, 40138259032		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	09/21/16 18:26	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	09/21/16 18:26	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	09/21/16 18:26	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	09/21/16 18:26	
1,1-Dichloroethane	ug/kg	<17.6	50.0	09/21/16 18:26	
1,1-Dichloroethene	ug/kg	<17.6	50.0	09/21/16 18:26	
1,1-Dichloropropene	ug/kg	<14.0	50.0	09/21/16 18:26	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	09/21/16 18:26	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	09/21/16 18:26	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	09/21/16 18:26	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	09/21/16 18:26	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	09/21/16 18:26	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	09/21/16 18:26	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	09/21/16 18:26	
1,2-Dichloroethane	ug/kg	<15.0	50.0	09/21/16 18:26	
1,2-Dichloropropane	ug/kg	<16.8	50.0	09/21/16 18:26	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	09/21/16 18:26	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	09/21/16 18:26	
1,3-Dichloropropane	ug/kg	<12.0	50.0	09/21/16 18:26	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	09/21/16 18:26	
2,2-Dichloropropane	ug/kg	<12.6	50.0	09/21/16 18:26	
2-Chlorotoluene	ug/kg	<15.8	50.0	09/21/16 18:26	
4-Chlorotoluene	ug/kg	<13.0	50.0	09/21/16 18:26	
Benzene	ug/kg	<9.2	20.0	09/21/16 18:26	
Bromobenzene	ug/kg	<20.6	50.0	09/21/16 18:26	
Bromochloromethane	ug/kg	<21.4	50.0	09/21/16 18:26	
Bromodichloromethane	ug/kg	<9.8	50.0	09/21/16 18:26	
Bromoform	ug/kg	<19.8	50.0	09/21/16 18:26	
Bromomethane	ug/kg	<69.9	250	09/21/16 18:26	
Carbon tetrachloride	ug/kg	<12.1	50.0	09/21/16 18:26	
Chlorobenzene	ug/kg	<14.8	50.0	09/21/16 18:26	
Chloroethane	ug/kg	<67.0	250	09/21/16 18:26	
Chloroform	ug/kg	<46.4	250	09/21/16 18:26	
Chloromethane	ug/kg	<20.4	50.0	09/21/16 18:26	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	09/21/16 18:26	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	09/21/16 18:26	
Dibromochloromethane	ug/kg	<17.9	50.0	09/21/16 18:26	
Dibromomethane	ug/kg	<19.3	50.0	09/21/16 18:26	

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

METHOD BLANK: 1396793 Matrix: Solid

Associated Lab Samples: 40138259013, 40138259014, 40138259015, 40138259016, 40138259017, 40138259018, 40138259019, 40138259020, 40138259021, 40138259022, 40138259023, 40138259024, 40138259025, 40138259026, 40138259027, 40138259028, 40138259029, 40138259030, 40138259031, 40138259032

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	09/21/16 18:26	
Diisopropyl ether	ug/kg	<17.7	50.0	09/21/16 18:26	
Ethylbenzene	ug/kg	<12.4	50.0	09/21/16 18:26	
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	09/21/16 18:26	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	09/21/16 18:26	
m&p-Xylene	ug/kg	<34.4	100	09/21/16 18:26	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	09/21/16 18:26	
Methylene Chloride	ug/kg	<16.2	50.0	09/21/16 18:26	
n-Butylbenzene	ug/kg	<10.5	50.0	09/21/16 18:26	
n-Propylbenzene	ug/kg	<11.6	50.0	09/21/16 18:26	
Naphthalene	ug/kg	<40.0	250	09/21/16 18:26	
o-Xylene	ug/kg	<14.0	50.0	09/21/16 18:26	
p-Isopropyltoluene	ug/kg	<12.0	50.0	09/21/16 18:26	
sec-Butylbenzene	ug/kg	<11.9	50.0	09/21/16 18:26	
Styrene	ug/kg	<9.0	50.0	09/21/16 18:26	
tert-Butylbenzene	ug/kg	<9.5	50.0	09/21/16 18:26	
Tetrachloroethene	ug/kg	<12.9	50.0	09/21/16 18:26	
Toluene	ug/kg	<11.2	50.0	09/21/16 18:26	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	09/21/16 18:26	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	09/21/16 18:26	
Trichloroethene	ug/kg	<23.6	50.0	09/21/16 18:26	
Trichlorofluoromethane	ug/kg	<24.7	50.0	09/21/16 18:26	
Vinyl chloride	ug/kg	<21.1	50.0	09/21/16 18:26	
Xylene (Total)	ug/kg	<48.4	150	09/21/16 18:26	
4-Bromofluorobenzene (S)	%	101	48-138	09/21/16 18:26	
Dibromofluoromethane (S)	%	101	53-165	09/21/16 18:26	
Toluene-d8 (S)	%	107	54-163	09/21/16 18:26	

LABORATORY CONTROL SAMPLE: 1396794

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
1,1,1-Trichloroethane	ug/kg	2500	2390	95	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2760	110	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2810	112	70-130	
1,1-Dichloroethane	ug/kg	2500	2550	102	70-133	
1,1-Dichloroethene	ug/kg	2500	2140	86	70-130	
1,2,4-Trichlorobenzene	ug/kg	2500	2700	108	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2480	99	50-150	
1,2-Dibromoethane (EDB)	ug/kg	2500	2700	108	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2620	105	70-130	
1,2-Dichloroethane	ug/kg	2500	2540	102	70-138	
1,2-Dichloropropane	ug/kg	2500	2870	115	70-130	

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

LABORATORY CONTROL SAMPLE: 1396794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/kg	2500	2520	101	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2500	100	70-130	
Benzene	ug/kg	2500	2620	105	70-130	
Bromodichloromethane	ug/kg	2500	2490	100	70-130	
Bromoform	ug/kg	2500	2260	90	68-130	
Bromomethane	ug/kg	2500	2190	88	25-163	
Carbon tetrachloride	ug/kg	2500	2370	95	70-130	
Chlorobenzene	ug/kg	2500	2660	107	70-130	
Chloroethane	ug/kg	2500	2200	88	34-151	
Chloroform	ug/kg	2500	2480	99	70-130	
Chloromethane	ug/kg	2500	2130	85	52-130	
cis-1,2-Dichloroethene	ug/kg	2500	2520	101	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2590	104	70-130	
Dibromochloromethane	ug/kg	2500	2270	91	70-130	
Dichlorodifluoromethane	ug/kg	2500	1500	60	27-150	
Ethylbenzene	ug/kg	2500	2720	109	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2700	108	70-130	
m&p-Xylene	ug/kg	5000	5600	112	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2680	107	70-130	
Methylene Chloride	ug/kg	2500	2530	101	70-131	
o-Xylene	ug/kg	2500	2770	111	70-130	
Styrene	ug/kg	2500	2540	102	70-130	
Tetrachloroethene	ug/kg	2500	2580	103	70-130	
Toluene	ug/kg	2500	2770	111	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2460	98	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2360	94	70-130	
Trichloroethene	ug/kg	2500	2580	103	70-130	
Trichlorofluoromethane	ug/kg	2500	2030	81	50-150	
Vinyl chloride	ug/kg	2500	2360	94	57-130	
Xylene (Total)	ug/kg	7500	8360	111	70-130	
4-Bromofluorobenzene (S)	%			109	48-138	
Dibromofluoromethane (S)	%			104	53-165	
Toluene-d8 (S)	%			109	54-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1396795 1396796

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40138259015 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/kg	<25.0	1450	1450	1310	1310	90	90	70-130	0	20
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1450	1450	1710	1700	118	117	70-130	1	20
1,1,2-Trichloroethane	ug/kg	<25.0	1450	1450	1710	1640	117	113	70-130	4	20
1,1-Dichloroethane	ug/kg	<25.0	1450	1450	1480	1450	102	100	64-133	2	20
1,1-Dichloroethene	ug/kg	<25.0	1450	1450	1090	1120	75	77	56-130	2	24
1,2,4-Trichlorobenzene	ug/kg	<47.6	1450	1450	1710	1770	116	120	70-130	3	20

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Parameter	Units	40138259015		MSD		1396795		1396796		% Rec	Limits	Max RPD	Max Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec				
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1450	1450	1550	1610	106	110	50-150	4	20		
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1450	1450	1550	1550	107	107	70-130	0	20		
1,2-Dichlorobenzene	ug/kg	<25.0	1450	1450	1630	1580	112	108	70-130	4	20		
1,2-Dichloroethane	ug/kg	<25.0	1450	1450	1520	1550	105	106	70-138	1	20		
1,2-Dichloropropane	ug/kg	<25.0	1450	1450	1610	1690	111	116	70-130	4	20		
1,3-Dichlorobenzene	ug/kg	<25.0	1450	1450	1570	1520	108	105	70-130	3	20		
1,4-Dichlorobenzene	ug/kg	<25.0	1450	1450	1560	1500	107	103	70-130	4	20		
Benzene	ug/kg	<25.0	1450	1450	1530	1520	105	105	70-130	0	20		
Bromodichloromethane	ug/kg	<25.0	1450	1450	1420	1440	98	99	70-130	2	20		
Bromoform	ug/kg	<25.0	1450	1450	1350	1350	93	93	65-130	1	20		
Bromomethane	ug/kg	<69.9	1450	1450	1090	1150	75	79	11-163	5	21		
Carbon tetrachloride	ug/kg	<25.0	1450	1450	1250	1270	86	87	70-130	2	20		
Chlorobenzene	ug/kg	<25.0	1450	1450	1530	1500	105	103	70-130	2	20		
Chloroethane	ug/kg	<67.0	1450	1450	1030	1040	71	72	17-151	1	20		
Chloroform	ug/kg	<46.4	1450	1450	1450	1460	100	100	70-130	0	20		
Chloromethane	ug/kg	<25.0	1450	1450	953	966	66	66	13-130	1	20		
cis-1,2-Dichloroethene	ug/kg	<25.0	1450	1450	1450	1440	100	99	70-130	1	20		
cis-1,3-Dichloropropene	ug/kg	<25.0	1450	1450	1410	1440	97	99	70-130	2	20		
Dibromochloromethane	ug/kg	<25.0	1450	1450	1370	1360	94	94	70-130	0	20		
Dichlorodifluoromethane	ug/kg	<25.0	1450	1450	615	657	42	45	10-150	7	21		
Ethylbenzene	ug/kg	<25.0	1450	1450	1520	1480	104	102	70-130	3	20		
Isopropylbenzene (Cumene)	ug/kg	<25.0	1450	1450	1510	1480	104	102	70-130	2	20		
m&p-Xylene	ug/kg	<50.0	2910	2910	3190	3090	110	106	70-130	3	20		
Methyl-tert-butyl ether	ug/kg	<25.0	1450	1450	1560	1610	107	111	70-130	3	20		
Methylene Chloride	ug/kg	<25.0	1450	1450	1480	1410	102	97	70-131	5	20		
o-Xylene	ug/kg	<25.0	1450	1450	1560	1450	108	100	70-130	7	20		
Styrene	ug/kg	<25.0	1450	1450	1500	1460	103	101	70-130	2	20		
Tetrachloroethene	ug/kg	127	1450	1450	1540	1460	97	92	70-130	5	20		
Toluene	ug/kg	<25.0	1450	1450	1590	1520	109	105	70-130	4	20		
trans-1,2-Dichloroethene	ug/kg	<25.0	1450	1450	1370	1380	94	95	70-130	1	20		
trans-1,3-Dichloropropene	ug/kg	<25.0	1450	1450	1390	1370	96	94	70-130	1	20		
Trichloroethene	ug/kg	<25.0	1450	1450	1410	1520	97	105	70-130	7	20		
Trichlorofluoromethane	ug/kg	<25.0	1450	1450	1070	1060	73	73	40-150	0	31		
Vinyl chloride	ug/kg	<25.0	1450	1450	1190	1190	82	82	26-130	0	20		
Xylene (Total)	ug/kg	<75.0	4360	4360	4750	4550	109	104	70-130	4	20		
4-Bromofluorobenzene (S)	%						109	105	48-138				
Dibromofluoromethane (S)	%						104	101	53-165				
Toluene-d8 (S)	%						106	102	54-163				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

QC Batch:	235777	Analysis Method:	EPA 8260
QC Batch Method:	EPA 5035/5030B	Analysis Description:	8260 MSV Med Level Normal List
Associated Lab Samples:	40138259033, 40138259034, 40138259035, 40138259036, 40138259037, 40138259038		

METHOD BLANK:	1397834	Matrix:	Solid
Associated Lab Samples:	40138259033, 40138259034, 40138259035, 40138259036, 40138259037, 40138259038		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	09/22/16 07:34	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	09/22/16 07:34	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	09/22/16 07:34	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	09/22/16 07:34	
1,1-Dichloroethane	ug/kg	<17.6	50.0	09/22/16 07:34	
1,1-Dichloroethene	ug/kg	<17.6	50.0	09/22/16 07:34	
1,1-Dichloropropene	ug/kg	<14.0	50.0	09/22/16 07:34	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	09/22/16 07:34	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	09/22/16 07:34	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	09/22/16 07:34	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	09/22/16 07:34	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	09/22/16 07:34	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	09/22/16 07:34	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	09/22/16 07:34	
1,2-Dichloroethane	ug/kg	<15.0	50.0	09/22/16 07:34	
1,2-Dichloropropane	ug/kg	<16.8	50.0	09/22/16 07:34	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	09/22/16 07:34	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	09/22/16 07:34	
1,3-Dichloropropane	ug/kg	<12.0	50.0	09/22/16 07:34	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	09/22/16 07:34	
2,2-Dichloropropane	ug/kg	<12.6	50.0	09/22/16 07:34	
2-Chlorotoluene	ug/kg	<15.8	50.0	09/22/16 07:34	
4-Chlorotoluene	ug/kg	<13.0	50.0	09/22/16 07:34	
Benzene	ug/kg	<9.2	20.0	09/22/16 07:34	
Bromobenzene	ug/kg	<20.6	50.0	09/22/16 07:34	
Bromochloromethane	ug/kg	<21.4	50.0	09/22/16 07:34	
Bromodichloromethane	ug/kg	<9.8	50.0	09/22/16 07:34	
Bromoform	ug/kg	<19.8	50.0	09/22/16 07:34	
Bromomethane	ug/kg	<69.9	250	09/22/16 07:34	
Carbon tetrachloride	ug/kg	<12.1	50.0	09/22/16 07:34	
Chlorobenzene	ug/kg	<14.8	50.0	09/22/16 07:34	
Chloroethane	ug/kg	<67.0	250	09/22/16 07:34	
Chloroform	ug/kg	<46.4	250	09/22/16 07:34	
Chloromethane	ug/kg	<20.4	50.0	09/22/16 07:34	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	09/22/16 07:34	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	09/22/16 07:34	
Dibromochloromethane	ug/kg	<17.9	50.0	09/22/16 07:34	
Dibromomethane	ug/kg	<19.3	50.0	09/22/16 07:34	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	09/22/16 07:34	
Diisopropyl ether	ug/kg	<17.7	50.0	09/22/16 07:34	
Ethylbenzene	ug/kg	<12.4	50.0	09/22/16 07:34	

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

METHOD BLANK: 1397834

Matrix: Solid

Associated Lab Samples: 40138259033, 40138259034, 40138259035, 40138259036, 40138259037, 40138259038

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	09/22/16 07:34	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	09/22/16 07:34	
m&p-Xylene	ug/kg	<34.4	100	09/22/16 07:34	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	09/22/16 07:34	
Methylene Chloride	ug/kg	<16.2	50.0	09/22/16 07:34	
n-Butylbenzene	ug/kg	<10.5	50.0	09/22/16 07:34	
n-Propylbenzene	ug/kg	<11.6	50.0	09/22/16 07:34	
Naphthalene	ug/kg	<40.0	250	09/22/16 07:34	
o-Xylene	ug/kg	<14.0	50.0	09/22/16 07:34	
p-Isopropyltoluene	ug/kg	<12.0	50.0	09/22/16 07:34	
sec-Butylbenzene	ug/kg	<11.9	50.0	09/22/16 07:34	
Styrene	ug/kg	<9.0	50.0	09/22/16 07:34	
tert-Butylbenzene	ug/kg	<9.5	50.0	09/22/16 07:34	
Tetrachloroethene	ug/kg	<12.9	50.0	09/22/16 07:34	
Toluene	ug/kg	<11.2	50.0	09/22/16 07:34	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	09/22/16 07:34	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	09/22/16 07:34	
Trichloroethene	ug/kg	<23.6	50.0	09/22/16 07:34	
Trichlorofluoromethane	ug/kg	<24.7	50.0	09/22/16 07:34	
Vinyl chloride	ug/kg	<21.1	50.0	09/22/16 07:34	
Xylene (Total)	ug/kg	<48.4	150	09/22/16 07:34	
4-Bromofluorobenzene (S)	%	100	48-138	09/22/16 07:34	
Dibromofluoromethane (S)	%	96	53-165	09/22/16 07:34	
Toluene-d8 (S)	%	103	54-163	09/22/16 07:34	

LABORATORY CONTROL SAMPLE: 1397835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2300	92	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2550	102	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2490	100	70-130	
1,1-Dichloroethane	ug/kg	2500	2460	98	70-133	
1,1-Dichloroethene	ug/kg	2500	2220	89	70-130	
1,2,4-Trichlorobenzene	ug/kg	2500	2550	102	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2180	87	50-150	
1,2-Dibromoethane (EDB)	ug/kg	2500	2470	99	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2490	100	70-130	
1,2-Dichloroethane	ug/kg	2500	2490	99	70-138	
1,2-Dichloropropane	ug/kg	2500	2680	107	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2490	100	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2440	98	70-130	
Benzene	ug/kg	2500	2560	103	70-130	
Bromodichloromethane	ug/kg	2500	2370	95	70-130	
Bromoform	ug/kg	2500	2000	80	68-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

LABORATORY CONTROL SAMPLE: 1397835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/kg	2500	1900	76	25-163	
Carbon tetrachloride	ug/kg	2500	2330	93	70-130	
Chlorobenzene	ug/kg	2500	2460	98	70-130	
Chloroethane	ug/kg	2500	2090	83	34-151	
Chloroform	ug/kg	2500	2370	95	70-130	
Chloromethane	ug/kg	2500	1970	79	52-130	
cis-1,2-Dichloroethene	ug/kg	2500	2420	97	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2410	96	70-130	
Dibromochloromethane	ug/kg	2500	2130	85	70-130	
Dichlorodifluoromethane	ug/kg	2500	1400	56	27-150	
Ethylbenzene	ug/kg	2500	2550	102	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2530	101	70-130	
m&p-Xylene	ug/kg	5000	5240	105	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2490	99	70-130	
Methylene Chloride	ug/kg	2500	2390	96	70-131	
o-Xylene	ug/kg	2500	2480	99	70-130	
Styrene	ug/kg	2500	2340	94	70-130	
Tetrachloroethene	ug/kg	2500	2410	97	70-130	
Toluene	ug/kg	2500	2610	105	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2430	97	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2150	86	70-130	
Trichloroethene	ug/kg	2500	2450	98	70-130	
Trichlorofluoromethane	ug/kg	2500	2100	84	50-150	
Vinyl chloride	ug/kg	2500	2230	89	57-130	
Xylene (Total)	ug/kg	7500	7720	103	70-130	
4-Bromofluorobenzene (S)	%			104	48-138	
Dibromofluoromethane (S)	%			101	53-165	
Toluene-d8 (S)	%			103	54-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1397836 1397837

Parameter	Units	MS		MSD		MS Result	% Rec	MSD % Rec	% Rec Limits	Max	
		40138259036 Result	Spike Conc.	Spike Conc.	MS Result					RPD	RPD
1,1,1-Trichloroethane	ug/kg	<25.0	1380	1380	1210	1190	88	86	70-130	2	20
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1380	1380	1550	1560	112	113	70-130	1	20
1,1,2-Trichloroethane	ug/kg	<25.0	1380	1380	1490	1520	108	110	70-130	2	20
1,1-Dichloroethane	ug/kg	<25.0	1380	1380	1400	1370	101	99	64-133	2	20
1,1-Dichloroethene	ug/kg	<25.0	1380	1380	1110	1100	80	80	56-130	1	24
1,2,4-Trichlorobenzene	ug/kg	<47.6	1380	1380	1620	1660	118	120	70-130	2	20
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1380	1380	1460	1430	106	103	50-150	2	20
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1380	1380	1470	1430	106	103	70-130	3	20
1,2-Dichlorobenzene	ug/kg	<25.0	1380	1380	1480	1530	107	111	70-130	3	20
1,2-Dichloroethane	ug/kg	<25.0	1380	1380	1400	1390	101	100	70-138	1	20
1,2-Dichloropropane	ug/kg	<25.0	1380	1380	1490	1560	108	113	70-130	5	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Parameter	Units	40138259036		MS Spike		MSD Spike		MS Result		MSD Result		% Rec	MSD % Rec	% Rec Limits	Max	
		Result	Conc.	Conc.	Result	Conc.	Result	% Rec	RPD	RPD	Qual				RPD	RPD
1,3-Dichlorobenzene	ug/kg	<25.0	1380	1380	1410	1470	102	106	70-130	4	20					
1,4-Dichlorobenzene	ug/kg	<25.0	1380	1380	1370	1430	99	103	70-130	4	20					
Benzene	ug/kg	<25.0	1380	1380	1410	1470	102	106	70-130	4	20					
Bromodichloromethane	ug/kg	<25.0	1380	1380	1310	1330	95	96	70-130	1	20					
Bromoform	ug/kg	<25.0	1380	1380	1220	1300	89	94	65-130	6	20					
Bromomethane	ug/kg	<69.9	1380	1380	1030	1090	75	79	11-163	6	21					
Carbon tetrachloride	ug/kg	<25.0	1380	1380	1180	1210	85	88	70-130	3	20					
Chlorobenzene	ug/kg	<25.0	1380	1380	1400	1470	101	107	70-130	5	20					
Chloroethane	ug/kg	<67.0	1380	1380	991	974	72	71	17-151	2	20					
Chloroform	ug/kg	<46.4	1380	1380	1350	1370	98	99	70-130	2	20					
Chloromethane	ug/kg	<25.0	1380	1380	920	920	67	67	13-130	0	20					
cis-1,2-Dichloroethene	ug/kg	<25.0	1380	1380	1350	1390	98	101	70-130	3	20					
cis-1,3-Dichloropropene	ug/kg	<25.0	1380	1380	1290	1370	93	100	70-130	6	20					
Dibromochloromethane	ug/kg	<25.0	1380	1380	1240	1330	90	97	70-130	7	20					
Dichlorodifluoromethane	ug/kg	<25.0	1380	1380	626	585	45	42	10-150	7	21					
Ethylbenzene	ug/kg	<25.0	1380	1380	1410	1400	102	102	70-130	0	20					
Isopropylbenzene (Cumene)	ug/kg	<25.0	1380	1380	1440	1420	104	103	70-130	1	20					
m&p-Xylene	ug/kg	<50.0	2760	2760	2930	3000	106	109	70-130	3	20					
Methyl-tert-butyl ether	ug/kg	<25.0	1380	1380	1410	1490	102	108	70-130	5	20					
Methylene Chloride	ug/kg	<25.0	1380	1380	1350	1440	98	104	70-131	6	20					
o-Xylene	ug/kg	<25.0	1380	1380	1430	1490	104	108	70-130	4	20					
Styrene	ug/kg	<25.0	1380	1380	1370	1390	99	101	70-130	1	20					
Tetrachloroethene	ug/kg	<25.0	1380	1380	1320	1350	95	98	70-130	2	20					
Toluene	ug/kg	<25.0	1380	1380	1460	1490	105	108	70-130	3	20					
trans-1,2-Dichloroethene	ug/kg	<25.0	1380	1380	1300	1320	94	96	70-130	2	20					
trans-1,3-Dichloropropene	ug/kg	<25.0	1380	1380	1280	1330	93	96	70-130	4	20					
Trichloroethene	ug/kg	<25.0	1380	1380	1370	1370	99	99	70-130	0	20					
Trichlorofluoromethane	ug/kg	<25.0	1380	1380	1060	993	76	72	40-150	6	31					
Vinyl chloride	ug/kg	<25.0	1380	1380	1140	1100	82	80	26-130	3	20					
Xylene (Total)	ug/kg	<75.0	4140	4140	4360	4490	105	108	70-130	3	20					
4-Bromofluorobenzene (S)	%						118	119	48-138							
Dibromofluoromethane (S)	%						112	111	53-165							
Toluene-d8 (S)	%						114	114	54-163							

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

QC Batch: 235580 Analysis Method: ASTM D2974-87

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

Associated Lab Samples: 40138259020, 40138259021, 40138259022

SAMPLE DUPLICATE: 1396312

Parameter	Units	40138541001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.7	6.7	0	10	

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

QC Batch: 236208 Analysis Method: ASTM D2974-87

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

Associated Lab Samples: 40138259001, 40138259002, 40138259003, 40138259004, 40138259005, 40138259006, 40138259007,
 40138259008, 40138259009, 40138259010, 40138259011

SAMPLE DUPLICATE: 1400617

Parameter	Units	40138247015 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.6	16.6	0	10	

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

QC Batch: 236248 Analysis Method: ASTM D2974-87

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

Associated Lab Samples: 40138259012, 40138259013, 40138259014, 40138259015, 40138259016, 40138259017, 40138259018,
40138259019, 40138259023, 40138259024, 40138259025, 40138259026, 40138259027, 40138259028,
40138259029, 40138259030, 40138259031, 40138259032, 40138259033, 40138259034

SAMPLE DUPLICATE: 1400726

Parameter	Units	40138259015 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.0	13.9	0	10	

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

QC Batch: 236255 Analysis Method: ASTM D2974-87

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

Associated Lab Samples: 40138259035, 40138259036, 40138259037

SAMPLE DUPLICATE: 1400743

Parameter	Units	40138259037 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.8	13.1	3	10	

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QUALIFIERS

Project: 21-41301A EXPRESS CLEANERS
Pace Project No.: 40138259

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

ANALYTE QUALIFIERS

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

W Non-detect results are reported on a wet weight basis.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40138259001	B-35 (6-7')	EPA 5035/5030B	235301	EPA 8260	235305
40138259002	B-35 (9-10')	EPA 5035/5030B	235301	EPA 8260	235305
40138259003	B-35 (12-13')	EPA 5035/5030B	235301	EPA 8260	235305
40138259004	B-36 (6-7')	EPA 5035/5030B	235301	EPA 8260	235305
40138259005	B-36 (9-10')	EPA 5035/5030B	235301	EPA 8260	235305
40138259006	B-37 (2-4')	EPA 5035/5030B	235301	EPA 8260	235305
40138259007	B-37 (6-8')	EPA 5035/5030B	235591	EPA 8260	235593
40138259008	B-37 (9-10')	EPA 5035/5030B	235591	EPA 8260	235593
40138259009	B-38 (2-4')	EPA 5035/5030B	235591	EPA 8260	235593
40138259010	B-38 (6-8')	EPA 5035/5030B	235591	EPA 8260	235593
40138259011	B-39 (3-5')	EPA 5035/5030B	235591	EPA 8260	235593
40138259012	B-39 (9-10')	EPA 5035/5030B	235591	EPA 8260	235593
40138259013	B-40 (2-4')	EPA 5035/5030B	235660	EPA 8260	235662
40138259014	B-40 (6-8')	EPA 5035/5030B	235660	EPA 8260	235662
40138259015	B-40 (9-10')	EPA 5035/5030B	235660	EPA 8260	235662
40138259016	B-41 (5-7')	EPA 5035/5030B	235660	EPA 8260	235662
40138259017	B-41 (9-10')	EPA 5035/5030B	235660	EPA 8260	235662
40138259018	B-42 (2-4')	EPA 5035/5030B	235660	EPA 8260	235662
40138259019	B-42 (6-8')	EPA 5035/5030B	235660	EPA 8260	235662
40138259020	B-43 (2-4')	EPA 5035/5030B	235660	EPA 8260	235662
40138259021	B-43 (6-8')	EPA 5035/5030B	235660	EPA 8260	235662
40138259022	B-43 (9-10')	EPA 5035/5030B	235660	EPA 8260	235662
40138259023	B-44 (8-10')	EPA 5035/5030B	235660	EPA 8260	235662
40138259024	B-45 (6-8')	EPA 5035/5030B	235660	EPA 8260	235662
40138259025	B-45 (9-10')	EPA 5035/5030B	235660	EPA 8260	235662
40138259026	B-45 (11-12')	EPA 5035/5030B	235660	EPA 8260	235662
40138259027	B-46 (2-4')	EPA 5035/5030B	235660	EPA 8260	235662
40138259028	B-46 (6-8')	EPA 5035/5030B	235660	EPA 8260	235662
40138259029	B-46 (9-10')	EPA 5035/5030B	235660	EPA 8260	235662
40138259030	B-47 (1-2')	EPA 5035/5030B	235660	EPA 8260	235662
40138259031	B-47 (5-7')	EPA 5035/5030B	235660	EPA 8260	235662
40138259032	B-48 (1-2')	EPA 5035/5030B	235660	EPA 8260	235662
40138259033	B-48 (5-7')	EPA 5035/5030B	235777	EPA 8260	235788
40138259034	B-49 (1-2')	EPA 5035/5030B	235777	EPA 8260	235788
40138259035	B-49 (5-7')	EPA 5035/5030B	235777	EPA 8260	235788
40138259036	B-50 (1-2')	EPA 5035/5030B	235777	EPA 8260	235788
40138259037	B-50 (5-7')	EPA 5035/5030B	235777	EPA 8260	235788
40138259038	MEOH TRIP BLANK	EPA 5035/5030B	235777	EPA 8260	235788
40138259001	B-35 (6-7')	ASTM D2974-87	236208		
40138259002	B-35 (9-10')	ASTM D2974-87	236208		
40138259003	B-35 (12-13')	ASTM D2974-87	236208		
40138259004	B-36 (6-7')	ASTM D2974-87	236208		
40138259005	B-36 (9-10')	ASTM D2974-87	236208		
40138259006	B-37 (2-4')	ASTM D2974-87	236208		
40138259007	B-37 (6-8')	ASTM D2974-87	236208		
40138259008	B-37 (9-10')	ASTM D2974-87	236208		
40138259009	B-38 (2-4')	ASTM D2974-87	236208		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138259

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40138259010	B-38 (6-8')	ASTM D2974-87	236208		
40138259011	B-39 (3-5')	ASTM D2974-87	236208		
40138259012	B-39 (9-10')	ASTM D2974-87	236248		
40138259013	B-40 (2-4')	ASTM D2974-87	236248		
40138259014	B-40 (6-8')	ASTM D2974-87	236248		
40138259015	B-40 (9-10')	ASTM D2974-87	236248		
40138259016	B-41 (5-7')	ASTM D2974-87	236248		
40138259017	B-41 (9-10')	ASTM D2974-87	236248		
40138259018	B-42 (2-4')	ASTM D2974-87	236248		
40138259019	B-42 (6-8')	ASTM D2974-87	236248		
40138259020	B-43 (2-4')	ASTM D2974-87	235580		
40138259021	B-43 (6-8')	ASTM D2974-87	235580		
40138259022	B-43 (9-10')	ASTM D2974-87	235580		
40138259023	B-44 (8-10')	ASTM D2974-87	236248		
40138259024	B-45 (6-8')	ASTM D2974-87	236248		
40138259025	B-45 (9-10')	ASTM D2974-87	236248		
40138259026	B-45 (11-12')	ASTM D2974-87	236248		
40138259027	B-46 (2-4')	ASTM D2974-87	236248		
40138259028	B-46 (6-8')	ASTM D2974-87	236248		
40138259029	B-46 (9-10')	ASTM D2974-87	236248		
40138259030	B-47 (1-2')	ASTM D2974-87	236248		
40138259031	B-47 (5-7')	ASTM D2974-87	236248		
40138259032	B-48 (1-2')	ASTM D2974-87	236248		
40138259033	B-48 (5-7')	ASTM D2974-87	236248		
40138259034	B-49 (1-2')	ASTM D2974-87	236248		
40138259035	B-49 (5-7')	ASTM D2974-87	236255		
40138259036	B-50 (1-2')	ASTM D2974-87	236255		
40138259037	B-50 (5-7')	ASTM D2974-87	236255		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name:	Ramboll Environ
Branch/Location:	Milwaukee
Project Contact:	Jeanne Tarvin
Phone:	262-901-0085
Project Number:	21-41301A
Project Name:	Express Cleaners
Project State:	WI
Sampled By (Print):	Jonathan Fuqua
Sampled By (Sign):	<i>Jonathan</i> <i>JF</i>
PO #:	
Regulatory Program:	

**Data Package Options
(billable)**

- EPA Level III
 EPA Level IV

MS/MSD

- On your sample
(billable)
 NOT needed on
your sample
- A = Air W = Water
B = Biota DW = Drinking Water
C = Charcoal GW = Ground Water
O = Oil SW = Surface Water
S = Soil WW = Waste Water
Sl = Sludge WP = Wipe

Matrix Codes

- COLLECTION
DATE TIME

MATRIX

Analyses Requested

Y / N

Pick Letter

F

(8260)

VOC

X

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436



Page 1 of 3

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40138259

CHAIN OF CUSTODY***Preservation Codes**

A=None	B=HCL	C=H ₂ SO ₄	D=HNO ₃	E=DI Water	F=Methanol	G=NaOH
H=Sodium Bisulfate Solution	I=Sodium Thiosulfate	J=Other				

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

PACE LAB #	CLIENT FIELD ID			Analyses Requested	Y / N	Pick Letter	(8260)	VOC	X	CLIENT COMMENTS (Lab Use Only)	LAB COMMENTS (Lab Use Only)	Profile #
		COLLECTION DATE	MATRIX									
001	B-35 (6-7')	9/13/16	0800	S						1-40ml UF 1-40cpA		
002	B-35 (9-10')		0803									
003	B-35 (12-13')		0840									
004	B-36 (6-7')		0905									
005	B-36 (9-10')		0907									
006	B-37 (2-4')		0935									
007	B-37 (6-8')		0950									
008	B-37 (9-10')		0955									
009	B-38 (2-4')		1015									
010	B-38 (6-8')		1020									
011	B-39 (3-5')		1058									
012	B-39 (9-10')		1102									
013	B-40 (2-4')		1128									

Date/Time:

Received By: Mary Fannin 9/14/16 10:20 Date/Time:

PACE Project No. 40138259

Received By: Mary Fannin 9/14/16 10:20 Date/Time:

Receipt Temp = ROT °C

Received By: Melissa Vareen Pace 9/14/16 1300 Date/Time:

Sample Receipt pH

Received By: Melissa Vareen Pace 9/14/16 1610 Date/Time:

OK / Adjusted

Received By: Melissa Vareen Pace 9/14/16 1610 Date/Time:

Cooler Custody Seal

Received By: Melissa Vareen Pace 9/14/16 1610 Date/Time:

Present / Not Present

Received By: Melissa Vareen Pace 9/14/16 1610 Date/Time:

Intact / Not Intact

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:

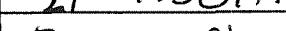
Fax:

Samples on HOLD are subject to
special pricing and release of liabilityRelinquished By: *Jutta* *JF* Date/Time: 9/14/16 10:20Relinquished By: *Mary Fannin* 9/14/16 1300 Date/Time:Relinquished By: *Melissa Vareen Pace* 9/14/16 1610 Date/Time:Received By: *Mary Fannin* 9/14/16 10:20 Date/Time:Received By: *Melissa Vareen Pace* 9/14/16 1300 Date/Time:Received By: *Melissa Vareen Pace* 9/14/16 1610 Date/Time:

Version 6.0 06/14/06

ORIGINAL

(Please Print Clearly)

Company Name:	Ramboll Environ
Branch/Location:	Milwaukee
Project Contact:	Jeanne Tarvin
Phone:	262-901-0085
Project Number:	21-41301A
Project Name:	Express Cleaners
Project State:	WI
Sampled By (Print):	Jonathan Fuqua
Sampled By (Sign):	
PO #:	
	Regulatory Program:



UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

*Preservation Codes						
A=None	B=HCl	C=H ₂ SO ₄	D=HNO ₃	E=DI Water	F=Methanol	G=NaOH
H=Sodium Bisulfate Solution	I=Sodium Thiosulfate	J=Other				

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

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

Transmit Prelim Rush Results by

mail #1:

Email #2:

Telephone:

Fax:

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

Relinquished By: <i>Jesse Fj</i>	Date/Time: 9/14/16 10:20	Received By: <i>Mary Fannin</i>	Date/Time: 9/14/16 10:20	PACE Project No. 40138259
Relinquished By: <i>Mary Fannin</i>	Date/Time: 9/14/16 1300	Received By: <i>Melissa Veneracion</i>	Date/Time: 9-14-16 1300	Receipt Temp = ROT °C
Relinquished By: <i>Melissa Veneracion</i>	Date/Time: 9-14-16 16010	Received By: <i>Pauline Pace</i>	Date/Time: 9/14/16 1610	Sample Receipt pH <u>OK / Adjusted</u>
Relinquished By:	Date/Time:	Received By:	Date/Time:	Cooler Custody Seal <u>Present / Not Present</u> <u>Intact / Not Intact</u>
Relinquished By:	Date/Time:	Received By:	Date/Time:	

(Please Print Clearly)

Company Name: Ramboll Environ
 Branch/Location: Milwaukee
 Project Contact: Jeanne Tarvin
 Phone: 262-901-0085
 Project Number: 21-41301A
 Project Name: Express Cleaners
 Project State: WI
 Sampled By (Print): Jonathan Fuqua
 Sampled By (Sign): *Jonathan Fuqua*
 PO #: *Jonathan Fuqua* Regulatory Program:

Data Package Options

(billable)

 EPA Level III EPA Level IV

MS/MSD

Matrix Codes

 On your sample

(billable)

 NOT needed on your sample

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

COLLECTION

DATE

TIME

MATRIX

PACE LAB

CLIENT FIELD ID

PACE LAB #	CLIENT FIELD ID	Analyses Requested		Y / N	Pick Letter	Preservation Code	Notes	Quote #:	Mail To Contact:	Mail To Company:	Mail To Address:	Invoice To Contact:	Invoice To Company:	Invoice To Address:	Invoice To Phone:	CLIENT COMMENTS	LAB COMMENTS	Profile #	
		Y	N																
037	B-46 (2-4')	9/13/16	1520	S	F	VOCs (8260)	X										1-4026A 140mlVF		
026	B-46 (6-8')		1525																
029	B-46 (9-10')		1530																
030	B-47 (1-2')		1530																
031	B-47 (5-7')		1535																
032	B-48 (1-2')		1600																
033	B-48 (5-7')		1605																
034	B-49 (1-2')		1620																
035	B-49 (5-7')		1625																
036	B-50 (1-2')		1635																
037	B-50 (5-7')	↓	1640	↓												✓			
038	MEOH TRIP BLANK					↓											240mlVF		

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:

PACE Project No.

40138259

Receipt Temp = ROI °C

Sample Receipt pH

OK/Adjusted

Cooler Custody Seal

Present / Not Present

Intact / Not Intact



UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

Page 3 of 3

Page 113 of 114

Sample Condition Upon Receipt

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

Pace Analytical

Client Name: Ramboll Env

Project #:

WO# : **40138259**

Courier: FedEx UPS Client Pace Other: _____

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 NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT /Corr: _____

Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Temp should be above freezing to 6°C for all sample except Biota.

Frozen Biota Samples should be received ≤ 0°C.

Comments: _____

Person examining contents:
Date: 9/14/16
Initials: BH

Chain of Custody Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time: - VOA Samples frozen upon receipt	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume: <u>yes</u> <u>full</u> <u>less</u> <u>more</u> <u>not enough</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. <u>less no dry weight volume received</u> BH 9/14/16
Correct Containers Used: <u>✓ 9/14/16</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: <u>S</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. 017 collect time 1152 BH 9/14/16
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO ₃ , H ₂ SO ₄ ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER: <u>OTHER</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed Lab Std #ID of preservative Date/ Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: 9/15/16

September 27, 2016

Jeanne Tarvin
Ramboll Environ
175 North Corporate Drive
Suite 160
Brookfield, WI 53045

RE: Project: 21-41301A EXPRESS CLEANERS
Pace Project No.: 40138497

Dear Jeanne Tarvin:

Enclosed are the analytical results for sample(s) received by the laboratory on September 17, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Steven Mleczko
steve.mleczko@pacelabs.com
Project Manager

Enclosures

cc: Jon Fuqua, Ramboll Environ
Jim Hutchens, Ramboll Environ
Jim Kane, Ramboll Environ
Snejana Karakis, Environ
David L. Markelz, Ramboll Environ
Michelle Murphy, Environ
Abigail M. Wedig, Environ International Corp



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 21-41301A EXPRESS CLEANERS
Pace Project No.: 40138497

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

Virginia VELAP ID: 460263

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Virginia VELAP Certification ID: 460263

Virginia VELAP ID: 460263

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

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SAMPLE SUMMARY

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40138497001	MW-9	Water	09/14/16 12:58	09/17/16 07:30
40138497002	MW-14	Water	09/14/16 13:50	09/17/16 07:30
40138497003	MW-14 DUP	Water	09/14/16 13:53	09/17/16 07:30
40138497004	MW-4	Water	09/14/16 14:35	09/17/16 07:30
40138497005	MW-2	Water	09/14/16 15:25	09/17/16 07:30
40138497006	MW-15	Water	09/14/16 16:05	09/17/16 07:30
40138497007	PZ-1	Water	09/15/16 09:25	09/17/16 07:30
40138497008	MW-1	Water	09/15/16 10:05	09/17/16 07:30
40138497009	MW-7	Water	09/15/16 10:50	09/17/16 07:30
40138497010	MW-12	Water	09/15/16 11:35	09/17/16 07:30
40138497011	MW-11	Water	09/15/16 12:15	09/17/16 07:30
40138497012	MW-11 DUP	Water	09/15/16 12:18	09/17/16 07:30
40138497013	MW-13	Water	09/15/16 13:00	09/17/16 07:30
40138497014	MW-6	Water	09/15/16 13:40	09/17/16 07:30
40138497015	MW-5	Water	09/15/16 15:10	09/17/16 07:30
40138497016	MW-10	Water	09/15/16 15:50	09/17/16 07:30
40138497017	MW-8	Water	09/15/16 16:45	09/17/16 07:30
40138497018	MW-3	Water	09/15/16 17:45	09/17/16 07:30
40138497019	TRIP BLANK	Water	09/15/16 00:00	09/17/16 07:30

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SAMPLE ANALYTE COUNT

Project: 21-41301A EXPRESS CLEANERS
Pace Project No.: 40138497

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40138497001	MW-9	EPA 8260	HNW	65	PASI-G
40138497002	MW-14	EPA 8260	HNW	65	PASI-G
40138497003	MW-14 DUP	EPA 8260	HNW	65	PASI-G
40138497004	MW-4	EPA 8260	HNW	65	PASI-G
40138497005	MW-2	EPA 8260	HNW	65	PASI-G
40138497006	MW-15	EPA 8260	HNW	65	PASI-G
40138497007	PZ-1	EPA 8260	HNW	65	PASI-G
40138497008	MW-1	EPA 8260	HNW	65	PASI-G
40138497009	MW-7	EPA 8260	HNW	65	PASI-G
40138497010	MW-12	EPA 8260	HNW	65	PASI-G
40138497011	MW-11	EPA 8260	HNW	65	PASI-G
40138497012	MW-11 DUP	EPA 8260	HNW	65	PASI-G
40138497013	MW-13	EPA 8260	HNW	65	PASI-G
40138497014	MW-6	EPA 8260	HNW	65	PASI-G
40138497015	MW-5	EPA 8260	HNW	65	PASI-G
40138497016	MW-10	EPA 8260	HNW	65	PASI-G
40138497017	MW-8	EPA 8015B Modified EPA 6010 EPA 8260 HACH 8146 EPA 300.0 EPA 353.2 SM 5310C	JSK DLB HNW DEY HMB DAW TJJ	3 1 65 1 1 1 1	PASI-G PASI-G PASI-G PASI-G PASI-G PASI-G PASI-G
40138497018	MW-3	EPA 8015B Modified EPA 6010 EPA 8260 HACH 8146 EPA 300.0 EPA 353.2 SM 5310C	JSK DLB HNW DEY HMB DAW TJJ	3 1 65 1 1 1 1	PASI-G PASI-G PASI-G PASI-G PASI-G PASI-G PASI-G
40138497019	TRIP BLANK	EPA 8260	HNW	65	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40138497001	MW-9					
EPA 8260	Tetrachloroethene	0.88J	ug/L	1.0	09/21/16 08:40	
40138497005	MW-2					
EPA 8260	Chloromethane	0.52J	ug/L	1.0	09/21/16 09:03	
EPA 8260	cis-1,2-Dichloroethene	29.7	ug/L	1.0	09/21/16 09:03	
EPA 8260	trans-1,2-Dichloroethene	1.6	ug/L	1.0	09/21/16 09:03	
EPA 8260	Tetrachloroethene	47.1	ug/L	1.0	09/21/16 09:03	
EPA 8260	Trichloroethene	14.0	ug/L	1.0	09/21/16 09:03	
40138497007	PZ-1					
EPA 8260	Tetrachloroethene	5.7	ug/L	1.0	09/21/16 12:26	
40138497008	MW-1					
EPA 8260	cis-1,2-Dichloroethene	96.3	ug/L	2.0	09/21/16 10:11	
EPA 8260	trans-1,2-Dichloroethene	5.1	ug/L	2.0	09/21/16 10:11	
EPA 8260	Tetrachloroethene	193	ug/L	2.0	09/21/16 10:11	
EPA 8260	Trichloroethene	15.5	ug/L	2.0	09/21/16 10:11	
40138497009	MW-7					
EPA 8260	Chloromethane	1.0	ug/L	1.0	09/21/16 12:49	
40138497010	MW-12					
EPA 8260	Chloromethane	0.58J	ug/L	1.0	09/21/16 09:25	
EPA 8260	cis-1,2-Dichloroethene	92.8	ug/L	1.0	09/21/16 09:25	
EPA 8260	trans-1,2-Dichloroethene	5.0	ug/L	1.0	09/21/16 09:25	
EPA 8260	Tetrachloroethene	25.7	ug/L	1.0	09/21/16 09:25	
EPA 8260	Trichloroethene	2.5	ug/L	1.0	09/21/16 09:25	
40138497011	MW-11					
EPA 8260	Chloromethane	0.57J	ug/L	1.0	09/21/16 13:12	
40138497013	MW-13					
EPA 8260	Chloromethane	0.77J	ug/L	1.0	09/21/16 13:34	
EPA 8260	cis-1,2-Dichloroethene	4.7	ug/L	1.0	09/21/16 13:34	
EPA 8260	trans-1,2-Dichloroethene	0.56J	ug/L	1.0	09/21/16 13:34	
40138497014	MW-6					
EPA 8260	cis-1,2-Dichloroethene	4.5	ug/L	1.0	09/21/16 13:57	
EPA 8260	trans-1,2-Dichloroethene	0.53J	ug/L	1.0	09/21/16 13:57	
EPA 8260	Tetrachloroethene	7.8	ug/L	1.0	09/21/16 13:57	
EPA 8260	Trichloroethene	2.9	ug/L	1.0	09/21/16 13:57	
40138497016	MW-10					
EPA 8260	Chloromethane	0.79J	ug/L	1.0	09/21/16 17:38	
40138497017	MW-8					
EPA 6010	Iron, Dissolved	80.0J	ug/L	100	09/22/16 13:19	
EPA 8260	cis-1,2-Dichloroethene	71.4	ug/L	10.0	09/21/16 10:33	
EPA 8260	trans-1,2-Dichloroethene	4.9J	ug/L	10.0	09/21/16 10:33	
EPA 8260	Tetrachloroethene	920	ug/L	10.0	09/21/16 10:33	
EPA 8260	Trichloroethene	39.9	ug/L	10.0	09/21/16 10:33	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 21-41301A EXPRESS CLEANERS
Pace Project No.: 40138497

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40138497017	MW-8					
EPA 300.0	Sulfate	169	mg/L	40.0	09/27/16 00:36	
EPA 353.2	Nitrogen, NO ₂ plus NO ₃	7.6	mg/L	0.25	09/23/16 11:45	
SM 5310C	Total Organic Carbon	2.1	mg/L	0.84	09/23/16 11:40	
40138497018	MW-3					
EPA 6010	Iron, Dissolved	115	ug/L	100	09/22/16 13:21	
EPA 8260	cis-1,2-Dichloroethene	175	ug/L	10.0	09/21/16 10:56	
EPA 8260	trans-1,2-Dichloroethene	9.4J	ug/L	10.0	09/21/16 10:56	
EPA 8260	Tetrachloroethene	437	ug/L	10.0	09/21/16 10:56	
EPA 8260	Trichloroethene	34.5	ug/L	10.0	09/21/16 10:56	
EPA 300.0	Sulfate	144	mg/L	40.0	09/27/16 00:47	
EPA 353.2	Nitrogen, NO ₂ plus NO ₃	0.20J	mg/L	0.25	09/23/16 11:46	
SM 5310C	Total Organic Carbon	1.3	mg/L	0.84	09/23/16 12:36	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-9	Lab ID: 40138497001	Collected: 09/14/16 12:58	Received: 09/17/16 07:30	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		09/21/16 08:40	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		09/21/16 08:40	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		09/21/16 08:40	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 08:40	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		09/21/16 08:40	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		09/21/16 08:40	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		09/21/16 08:40	67-66-3	M1
Chloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		09/21/16 08:40	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		09/21/16 08:40	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		09/21/16 08:40	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		09/21/16 08:40	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		09/21/16 08:40	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/21/16 08:40	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		09/21/16 08:40	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		09/21/16 08:40	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 08:40	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 08:40	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		09/21/16 08:40	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		09/21/16 08:40	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		09/21/16 08:40	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		09/21/16 08:40	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		09/21/16 08:40	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		09/21/16 08:40	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/21/16 08:40	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		09/21/16 08:40	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		09/21/16 08:40	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		09/21/16 08:40	630-20-6	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-9 Lab ID: 40138497001 Collected: 09/14/16 12:58 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		09/21/16 08:40	79-34-5	
Tetrachloroethene	0.88J	ug/L	1.0	0.50	1		09/21/16 08:40	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		09/21/16 08:40	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 08:40	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		09/21/16 08:40	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		09/21/16 08:40	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		09/21/16 08:40	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/21/16 08:40	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		09/21/16 08:40	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		09/21/16 08:40	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		09/21/16 08:40	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		09/21/16 08:40	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		1		09/21/16 08:40	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		09/21/16 08:40	2037-26-5	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-14 **Lab ID: 40138497002** Collected: 09/14/16 13:50 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		09/21/16 16:30	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		09/21/16 16:30	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		09/21/16 16:30	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 16:30	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		09/21/16 16:30	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		09/21/16 16:30	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		09/21/16 16:30	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		09/21/16 16:30	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		09/21/16 16:30	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		09/21/16 16:30	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		09/21/16 16:30	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		09/21/16 16:30	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/21/16 16:30	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		09/21/16 16:30	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		09/21/16 16:30	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 16:30	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 16:30	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		09/21/16 16:30	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		09/21/16 16:30	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		09/21/16 16:30	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		09/21/16 16:30	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		09/21/16 16:30	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		09/21/16 16:30	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/21/16 16:30	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		09/21/16 16:30	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		09/21/16 16:30	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		09/21/16 16:30	630-20-6	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-14 **Lab ID: 40138497002** Collected: 09/14/16 13:50 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		09/21/16 16:30	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		09/21/16 16:30	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 16:30	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		09/21/16 16:30	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		09/21/16 16:30	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		09/21/16 16:30	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/21/16 16:30	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		09/21/16 16:30	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		09/21/16 16:30	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		1		09/21/16 16:30	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		09/21/16 16:30	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		09/21/16 16:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-14 DUP Lab ID: 40138497003 Collected: 09/14/16 13:53 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		09/21/16 16:52	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		09/21/16 16:52	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		09/21/16 16:52	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 16:52	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		09/21/16 16:52	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		09/21/16 16:52	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		09/21/16 16:52	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		09/21/16 16:52	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		09/21/16 16:52	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		09/21/16 16:52	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		09/21/16 16:52	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		09/21/16 16:52	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/21/16 16:52	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		09/21/16 16:52	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		09/21/16 16:52	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 16:52	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 16:52	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		09/21/16 16:52	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		09/21/16 16:52	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		09/21/16 16:52	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		09/21/16 16:52	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		09/21/16 16:52	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		09/21/16 16:52	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/21/16 16:52	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		09/21/16 16:52	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		09/21/16 16:52	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		09/21/16 16:52	630-20-6	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-14 DUP Lab ID: 40138497003 Collected: 09/14/16 13:53 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		09/21/16 16:52	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		09/21/16 16:52	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 16:52	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		09/21/16 16:52	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		09/21/16 16:52	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		09/21/16 16:52	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/21/16 16:52	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		09/21/16 16:52	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		09/21/16 16:52	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		09/21/16 16:52	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		09/21/16 16:52	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		09/21/16 16:52	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		09/21/16 16:52	2037-26-5	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-4	Lab ID: 40138497004	Collected: 09/14/16 14:35	Received: 09/17/16 07:30	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		09/21/16 11:18	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		09/21/16 11:18	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		09/21/16 11:18	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 11:18	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		09/21/16 11:18	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		09/21/16 11:18	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		09/21/16 11:18	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		09/21/16 11:18	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		09/21/16 11:18	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		09/21/16 11:18	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		09/21/16 11:18	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		09/21/16 11:18	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/21/16 11:18	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		09/21/16 11:18	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		09/21/16 11:18	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 11:18	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 11:18	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		09/21/16 11:18	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		09/21/16 11:18	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		09/21/16 11:18	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		09/21/16 11:18	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		09/21/16 11:18	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		09/21/16 11:18	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/21/16 11:18	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		09/21/16 11:18	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		09/21/16 11:18	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		09/21/16 11:18	630-20-6	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-4 **Lab ID: 40138497004** Collected: 09/14/16 14:35 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		09/21/16 11:18	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		09/21/16 11:18	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 11:18	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		09/21/16 11:18	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		09/21/16 11:18	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		09/21/16 11:18	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/21/16 11:18	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		09/21/16 11:18	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		09/21/16 11:18	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		09/21/16 11:18	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		1		09/21/16 11:18	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		09/21/16 11:18	2037-26-5	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-2 **Lab ID: 40138497005** Collected: 09/14/16 15:25 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		09/21/16 09:03	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		09/21/16 09:03	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		09/21/16 09:03	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 09:03	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		09/21/16 09:03	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		09/21/16 09:03	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		09/21/16 09:03	67-66-3	
Chloromethane	0.52J	ug/L	1.0	0.50	1		09/21/16 09:03	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		09/21/16 09:03	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		09/21/16 09:03	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		09/21/16 09:03	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		09/21/16 09:03	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		09/21/16 09:03	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/21/16 09:03	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		09/21/16 09:03	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		09/21/16 09:03	75-35-4	
cis-1,2-Dichloroethene	29.7	ug/L	1.0	0.26	1		09/21/16 09:03	156-59-2	
trans-1,2-Dichloroethene	1.6	ug/L	1.0	0.26	1		09/21/16 09:03	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		09/21/16 09:03	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		09/21/16 09:03	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		09/21/16 09:03	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		09/21/16 09:03	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		09/21/16 09:03	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		09/21/16 09:03	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/21/16 09:03	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		09/21/16 09:03	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		09/21/16 09:03	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		09/21/16 09:03	630-20-6	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-2 Lab ID: 40138497005 Collected: 09/14/16 15:25 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		09/21/16 09:03	79-34-5	
Tetrachloroethene	47.1	ug/L	1.0	0.50	1		09/21/16 09:03	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		09/21/16 09:03	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 09:03	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		09/21/16 09:03	79-00-5	
Trichloroethene	14.0	ug/L	1.0	0.33	1		09/21/16 09:03	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		09/21/16 09:03	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/21/16 09:03	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		09/21/16 09:03	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		09/21/16 09:03	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:03	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		09/21/16 09:03	460-00-4	
Dibromofluoromethane (S)	119	%	70-130		1		09/21/16 09:03	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		09/21/16 09:03	2037-26-5	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-15 **Lab ID: 40138497006** Collected: 09/14/16 16:05 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		09/21/16 12:04	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		09/21/16 12:04	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		09/21/16 12:04	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 12:04	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		09/21/16 12:04	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		09/21/16 12:04	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		09/21/16 12:04	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		09/21/16 12:04	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		09/21/16 12:04	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		09/21/16 12:04	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		09/21/16 12:04	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		09/21/16 12:04	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/21/16 12:04	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		09/21/16 12:04	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		09/21/16 12:04	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 12:04	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 12:04	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		09/21/16 12:04	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		09/21/16 12:04	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		09/21/16 12:04	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		09/21/16 12:04	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		09/21/16 12:04	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		09/21/16 12:04	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/21/16 12:04	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		09/21/16 12:04	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		09/21/16 12:04	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		09/21/16 12:04	630-20-6	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-15 Lab ID: 40138497006 Collected: 09/14/16 16:05 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		09/21/16 12:04	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		09/21/16 12:04	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 12:04	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		09/21/16 12:04	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		09/21/16 12:04	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		09/21/16 12:04	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/21/16 12:04	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		09/21/16 12:04	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		09/21/16 12:04	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		09/21/16 12:04	460-00-4	
Dibromofluoromethane (S)	124	%	70-130		1		09/21/16 12:04	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		09/21/16 12:04	2037-26-5	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: PZ-1	Lab ID: 40138497007	Collected: 09/15/16 09:25	Received: 09/17/16 07:30	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		09/21/16 12:26	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		09/21/16 12:26	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		09/21/16 12:26	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 12:26	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		09/21/16 12:26	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		09/21/16 12:26	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		09/21/16 12:26	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		09/21/16 12:26	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		09/21/16 12:26	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		09/21/16 12:26	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		09/21/16 12:26	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		09/21/16 12:26	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/21/16 12:26	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		09/21/16 12:26	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		09/21/16 12:26	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 12:26	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 12:26	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		09/21/16 12:26	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		09/21/16 12:26	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		09/21/16 12:26	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		09/21/16 12:26	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		09/21/16 12:26	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		09/21/16 12:26	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/21/16 12:26	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		09/21/16 12:26	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		09/21/16 12:26	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		09/21/16 12:26	630-20-6	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: PZ-1 Lab ID: 40138497007 Collected: 09/15/16 09:25 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		09/21/16 12:26	79-34-5	
Tetrachloroethene	5.7	ug/L	1.0	0.50	1		09/21/16 12:26	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		09/21/16 12:26	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 12:26	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		09/21/16 12:26	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		09/21/16 12:26	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		09/21/16 12:26	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/21/16 12:26	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		09/21/16 12:26	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		09/21/16 12:26	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:26	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		09/21/16 12:26	460-00-4	
Dibromofluoromethane (S)	120	%	70-130		1		09/21/16 12:26	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		09/21/16 12:26	2037-26-5	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-1	Lab ID: 40138497008	Collected: 09/15/16 10:05	Received: 09/17/16 07:30	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	71-43-2	
Bromobenzene	<0.46	ug/L	2.0	0.46	2		09/21/16 10:11	108-86-1	
Bromo(chloromethane)	<0.68	ug/L	2.0	0.68	2		09/21/16 10:11	74-97-5	
Bromodichloromethane	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	75-27-4	
Bromoform	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	75-25-2	
Bromomethane	<4.9	ug/L	10.0	4.9	2		09/21/16 10:11	74-83-9	
n-Butylbenzene	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	104-51-8	
sec-Butylbenzene	<4.4	ug/L	10.0	4.4	2		09/21/16 10:11	135-98-8	
tert-Butylbenzene	<0.36	ug/L	2.0	0.36	2		09/21/16 10:11	98-06-6	
Carbon tetrachloride	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	56-23-5	
Chlorobenzene	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	108-90-7	
Chloroethane	<0.75	ug/L	2.0	0.75	2		09/21/16 10:11	75-00-3	
Chloroform	<5.0	ug/L	10.0	5.0	2		09/21/16 10:11	67-66-3	
Chloromethane	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	74-87-3	
2-Chlorotoluene	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	95-49-8	
4-Chlorotoluene	<0.43	ug/L	2.0	0.43	2		09/21/16 10:11	106-43-4	
1,2-Dibromo-3-chloropropane	<4.3	ug/L	10.0	4.3	2		09/21/16 10:11	96-12-8	
Dibromochloromethane	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	124-48-1	
1,2-Dibromoethane (EDB)	<0.36	ug/L	2.0	0.36	2		09/21/16 10:11	106-93-4	
Dibromomethane	<0.85	ug/L	2.0	0.85	2		09/21/16 10:11	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	106-46-7	
Dichlorodifluoromethane	<0.45	ug/L	2.0	0.45	2		09/21/16 10:11	75-71-8	
1,1-Dichloroethane	<0.48	ug/L	2.0	0.48	2		09/21/16 10:11	75-34-3	
1,2-Dichloroethane	<0.34	ug/L	2.0	0.34	2		09/21/16 10:11	107-06-2	
1,1-Dichloroethene	<0.82	ug/L	2.0	0.82	2		09/21/16 10:11	75-35-4	
cis-1,2-Dichloroethene	96.3	ug/L	2.0	0.51	2		09/21/16 10:11	156-59-2	
trans-1,2-Dichloroethene	5.1	ug/L	2.0	0.51	2		09/21/16 10:11	156-60-5	
1,2-Dichloropropane	<0.47	ug/L	2.0	0.47	2		09/21/16 10:11	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	142-28-9	
2,2-Dichloropropane	<0.97	ug/L	2.0	0.97	2		09/21/16 10:11	594-20-7	
1,1-Dichloropropene	<0.88	ug/L	2.0	0.88	2		09/21/16 10:11	563-58-6	
cis-1,3-Dichloropropene	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	10061-01-5	
trans-1,3-Dichloropropene	<0.46	ug/L	2.0	0.46	2		09/21/16 10:11	10061-02-6	
Diisopropyl ether	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	108-20-3	
Ethylbenzene	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	100-41-4	
Hexachloro-1,3-butadiene	<4.2	ug/L	10.0	4.2	2		09/21/16 10:11	87-68-3	
Isopropylbenzene (Cumene)	<0.29	ug/L	2.0	0.29	2		09/21/16 10:11	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	99-87-6	
Methylene Chloride	<0.47	ug/L	2.0	0.47	2		09/21/16 10:11	75-09-2	
Methyl-tert-butyl ether	<0.35	ug/L	2.0	0.35	2		09/21/16 10:11	1634-04-4	
Naphthalene	<5.0	ug/L	10.0	5.0	2		09/21/16 10:11	91-20-3	
n-Propylbenzene	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	103-65-1	
Styrene	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	2.0	0.36	2		09/21/16 10:11	630-20-6	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-1 **Lab ID: 40138497008** Collected: 09/15/16 10:05 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	<0.50	ug/L	2.0	0.50	2		09/21/16 10:11	79-34-5	
Tetrachloroethene	193	ug/L	2.0	1.0	2		09/21/16 10:11	127-18-4	
Toluene	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	108-88-3	
1,2,3-Trichlorobenzene	<4.3	ug/L	10.0	4.3	2		09/21/16 10:11	87-61-6	
1,2,4-Trichlorobenzene	<4.4	ug/L	10.0	4.4	2		09/21/16 10:11	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/L	2.0	0.39	2		09/21/16 10:11	79-00-5	
Trichloroethene	15.5	ug/L	2.0	0.66	2		09/21/16 10:11	79-01-6	
Trichlorofluoromethane	<0.37	ug/L	2.0	0.37	2		09/21/16 10:11	75-69-4	
1,2,3-Trichloropropane	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	96-18-4	
1,2,4-Trimethylbenzene	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	108-67-8	
Vinyl chloride	<0.35	ug/L	2.0	0.35	2		09/21/16 10:11	75-01-4	
Xylene (Total)	<3.0	ug/L	6.0	3.0	2		09/21/16 10:11	1330-20-7	
m&p-Xylene	<2.0	ug/L	4.0	2.0	2		09/21/16 10:11	179601-23-1	
o-Xylene	<1.0	ug/L	2.0	1.0	2		09/21/16 10:11	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		2		09/21/16 10:11	460-00-4	
Dibromofluoromethane (S)	126	%	70-130		2		09/21/16 10:11	1868-53-7	
Toluene-d8 (S)	90	%	70-130		2		09/21/16 10:11	2037-26-5	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-7 **Lab ID: 40138497009** Collected: 09/15/16 10:50 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		09/21/16 12:49	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		09/21/16 12:49	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		09/21/16 12:49	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 12:49	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		09/21/16 12:49	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		09/21/16 12:49	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		09/21/16 12:49	67-66-3	
Chloromethane	1.0	ug/L	1.0	0.50	1		09/21/16 12:49	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		09/21/16 12:49	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		09/21/16 12:49	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		09/21/16 12:49	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		09/21/16 12:49	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		09/21/16 12:49	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/21/16 12:49	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		09/21/16 12:49	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		09/21/16 12:49	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 12:49	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 12:49	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		09/21/16 12:49	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		09/21/16 12:49	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		09/21/16 12:49	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		09/21/16 12:49	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		09/21/16 12:49	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		09/21/16 12:49	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/21/16 12:49	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		09/21/16 12:49	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		09/21/16 12:49	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		09/21/16 12:49	630-20-6	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-7 **Lab ID: 40138497009** Collected: 09/15/16 10:50 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		09/21/16 12:49	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		09/21/16 12:49	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 12:49	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		09/21/16 12:49	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		09/21/16 12:49	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		09/21/16 12:49	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/21/16 12:49	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		09/21/16 12:49	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		09/21/16 12:49	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		09/21/16 12:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		09/21/16 12:49	460-00-4	
Dibromofluoromethane (S)	122	%	70-130		1		09/21/16 12:49	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		09/21/16 12:49	2037-26-5	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-12 **Lab ID: 40138497010** Collected: 09/15/16 11:35 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		09/21/16 09:25	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		09/21/16 09:25	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		09/21/16 09:25	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 09:25	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		09/21/16 09:25	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		09/21/16 09:25	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		09/21/16 09:25	67-66-3	
Chloromethane	0.58J	ug/L	1.0	0.50	1		09/21/16 09:25	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		09/21/16 09:25	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		09/21/16 09:25	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		09/21/16 09:25	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		09/21/16 09:25	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		09/21/16 09:25	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/21/16 09:25	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		09/21/16 09:25	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		09/21/16 09:25	75-35-4	
cis-1,2-Dichloroethene	92.8	ug/L	1.0	0.26	1		09/21/16 09:25	156-59-2	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	0.26	1		09/21/16 09:25	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		09/21/16 09:25	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		09/21/16 09:25	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		09/21/16 09:25	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		09/21/16 09:25	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		09/21/16 09:25	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		09/21/16 09:25	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/21/16 09:25	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		09/21/16 09:25	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		09/21/16 09:25	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		09/21/16 09:25	630-20-6	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-12 Lab ID: 40138497010 Collected: 09/15/16 11:35 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		09/21/16 09:25	79-34-5	
Tetrachloroethene	25.7	ug/L	1.0	0.50	1		09/21/16 09:25	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		09/21/16 09:25	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 09:25	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		09/21/16 09:25	79-00-5	
Trichloroethene	2.5	ug/L	1.0	0.33	1		09/21/16 09:25	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		09/21/16 09:25	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/21/16 09:25	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		09/21/16 09:25	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		09/21/16 09:25	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		09/21/16 09:25	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		09/21/16 09:25	460-00-4	
Dibromofluoromethane (S)	125	%	70-130		1		09/21/16 09:25	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		09/21/16 09:25	2037-26-5	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-11 Lab ID: 40138497011 Collected: 09/15/16 12:15 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		09/21/16 13:12	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		09/21/16 13:12	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		09/21/16 13:12	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 13:12	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		09/21/16 13:12	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		09/21/16 13:12	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		09/21/16 13:12	67-66-3	
Chloromethane	0.57J	ug/L	1.0	0.50	1		09/21/16 13:12	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		09/21/16 13:12	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		09/21/16 13:12	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		09/21/16 13:12	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		09/21/16 13:12	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		09/21/16 13:12	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/21/16 13:12	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		09/21/16 13:12	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		09/21/16 13:12	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 13:12	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 13:12	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		09/21/16 13:12	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		09/21/16 13:12	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		09/21/16 13:12	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		09/21/16 13:12	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		09/21/16 13:12	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		09/21/16 13:12	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/21/16 13:12	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		09/21/16 13:12	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		09/21/16 13:12	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		09/21/16 13:12	630-20-6	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-11 Lab ID: 40138497011 Collected: 09/15/16 12:15 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		09/21/16 13:12	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		09/21/16 13:12	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 13:12	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		09/21/16 13:12	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		09/21/16 13:12	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		09/21/16 13:12	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/21/16 13:12	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		09/21/16 13:12	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		09/21/16 13:12	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		09/21/16 13:12	460-00-4	
Dibromofluoromethane (S)	118	%	70-130		1		09/21/16 13:12	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		09/21/16 13:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-11 DUP Lab ID: 40138497012 Collected: 09/15/16 12:18 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		09/21/16 11:41	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		09/21/16 11:41	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		09/21/16 11:41	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 11:41	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		09/21/16 11:41	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		09/21/16 11:41	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		09/21/16 11:41	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		09/21/16 11:41	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		09/21/16 11:41	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		09/21/16 11:41	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		09/21/16 11:41	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		09/21/16 11:41	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/21/16 11:41	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		09/21/16 11:41	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		09/21/16 11:41	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 11:41	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 11:41	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		09/21/16 11:41	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		09/21/16 11:41	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		09/21/16 11:41	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		09/21/16 11:41	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		09/21/16 11:41	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		09/21/16 11:41	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/21/16 11:41	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		09/21/16 11:41	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		09/21/16 11:41	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		09/21/16 11:41	630-20-6	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-11 DUP Lab ID: 40138497012 Collected: 09/15/16 12:18 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		09/21/16 11:41	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		09/21/16 11:41	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 11:41	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		09/21/16 11:41	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		09/21/16 11:41	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		09/21/16 11:41	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/21/16 11:41	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		09/21/16 11:41	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		09/21/16 11:41	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		09/21/16 11:41	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		09/21/16 11:41	460-00-4	
Dibromofluoromethane (S)	124	%	70-130		1		09/21/16 11:41	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		09/21/16 11:41	2037-26-5	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-13 Lab ID: 40138497013 Collected: 09/15/16 13:00 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		09/21/16 13:34	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		09/21/16 13:34	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		09/21/16 13:34	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 13:34	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		09/21/16 13:34	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		09/21/16 13:34	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		09/21/16 13:34	67-66-3	
Chloromethane	0.77J	ug/L	1.0	0.50	1		09/21/16 13:34	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		09/21/16 13:34	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		09/21/16 13:34	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		09/21/16 13:34	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		09/21/16 13:34	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		09/21/16 13:34	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/21/16 13:34	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		09/21/16 13:34	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		09/21/16 13:34	75-35-4	
cis-1,2-Dichloroethene	4.7	ug/L	1.0	0.26	1		09/21/16 13:34	156-59-2	
trans-1,2-Dichloroethene	0.56J	ug/L	1.0	0.26	1		09/21/16 13:34	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		09/21/16 13:34	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		09/21/16 13:34	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		09/21/16 13:34	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		09/21/16 13:34	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		09/21/16 13:34	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		09/21/16 13:34	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/21/16 13:34	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		09/21/16 13:34	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		09/21/16 13:34	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		09/21/16 13:34	630-20-6	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-13 Lab ID: 40138497013 Collected: 09/15/16 13:00 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		09/21/16 13:34	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		09/21/16 13:34	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 13:34	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		09/21/16 13:34	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		09/21/16 13:34	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		09/21/16 13:34	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/21/16 13:34	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		09/21/16 13:34	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		09/21/16 13:34	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:34	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		09/21/16 13:34	460-00-4	
Dibromofluoromethane (S)	121	%	70-130		1		09/21/16 13:34	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		09/21/16 13:34	2037-26-5	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-6 **Lab ID: 40138497014** Collected: 09/15/16 13:40 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		09/21/16 13:57	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		09/21/16 13:57	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		09/21/16 13:57	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 13:57	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		09/21/16 13:57	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		09/21/16 13:57	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		09/21/16 13:57	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		09/21/16 13:57	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		09/21/16 13:57	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		09/21/16 13:57	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		09/21/16 13:57	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		09/21/16 13:57	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/21/16 13:57	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		09/21/16 13:57	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		09/21/16 13:57	75-35-4	
cis-1,2-Dichloroethene	4.5	ug/L	1.0	0.26	1		09/21/16 13:57	156-59-2	
trans-1,2-Dichloroethene	0.53J	ug/L	1.0	0.26	1		09/21/16 13:57	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		09/21/16 13:57	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		09/21/16 13:57	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		09/21/16 13:57	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		09/21/16 13:57	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		09/21/16 13:57	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		09/21/16 13:57	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/21/16 13:57	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		09/21/16 13:57	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		09/21/16 13:57	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		09/21/16 13:57	630-20-6	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-6 Lab ID: 40138497014 Collected: 09/15/16 13:40 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		09/21/16 13:57	79-34-5	
Tetrachloroethene	7.8	ug/L	1.0	0.50	1		09/21/16 13:57	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		09/21/16 13:57	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 13:57	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		09/21/16 13:57	79-00-5	
Trichloroethene	2.9	ug/L	1.0	0.33	1		09/21/16 13:57	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		09/21/16 13:57	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/21/16 13:57	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		09/21/16 13:57	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		09/21/16 13:57	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		09/21/16 13:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		09/21/16 13:57	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		1		09/21/16 13:57	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		09/21/16 13:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-5	Lab ID: 40138497015	Collected: 09/15/16 15:10	Received: 09/17/16 07:30	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		09/21/16 17:15	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		09/21/16 17:15	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		09/21/16 17:15	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 17:15	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		09/21/16 17:15	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		09/21/16 17:15	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		09/21/16 17:15	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		09/21/16 17:15	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		09/21/16 17:15	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		09/21/16 17:15	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		09/21/16 17:15	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		09/21/16 17:15	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/21/16 17:15	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		09/21/16 17:15	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		09/21/16 17:15	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 17:15	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 17:15	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		09/21/16 17:15	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		09/21/16 17:15	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		09/21/16 17:15	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		09/21/16 17:15	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		09/21/16 17:15	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		09/21/16 17:15	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/21/16 17:15	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		09/21/16 17:15	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		09/21/16 17:15	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		09/21/16 17:15	630-20-6	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-5 Lab ID: 40138497015 Collected: 09/15/16 15:10 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		09/21/16 17:15	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		09/21/16 17:15	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 17:15	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		09/21/16 17:15	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		09/21/16 17:15	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		09/21/16 17:15	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/21/16 17:15	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		09/21/16 17:15	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		09/21/16 17:15	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:15	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	82	%	70-130		1		09/21/16 17:15	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		09/21/16 17:15	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		09/21/16 17:15	2037-26-5	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-10 **Lab ID: 40138497016** Collected: 09/15/16 15:50 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		09/21/16 17:38	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		09/21/16 17:38	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		09/21/16 17:38	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 17:38	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		09/21/16 17:38	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		09/21/16 17:38	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		09/21/16 17:38	67-66-3	
Chloromethane	0.79J	ug/L	1.0	0.50	1		09/21/16 17:38	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		09/21/16 17:38	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		09/21/16 17:38	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		09/21/16 17:38	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		09/21/16 17:38	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		09/21/16 17:38	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/21/16 17:38	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		09/21/16 17:38	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		09/21/16 17:38	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 17:38	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 17:38	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		09/21/16 17:38	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		09/21/16 17:38	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		09/21/16 17:38	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		09/21/16 17:38	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		09/21/16 17:38	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		09/21/16 17:38	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/21/16 17:38	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		09/21/16 17:38	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		09/21/16 17:38	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		09/21/16 17:38	630-20-6	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-10 Lab ID: 40138497016 Collected: 09/15/16 15:50 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		09/21/16 17:38	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		09/21/16 17:38	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 17:38	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		09/21/16 17:38	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		09/21/16 17:38	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		09/21/16 17:38	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/21/16 17:38	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		09/21/16 17:38	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		09/21/16 17:38	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		09/21/16 17:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		1		09/21/16 17:38	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		09/21/16 17:38	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		09/21/16 17:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-8 **Lab ID: 40138497017** Collected: 09/15/16 16:45 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
Ethane	<0.58	ug/L	5.6	0.58	1		09/22/16 12:46	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		09/22/16 12:46	74-85-1	
Methane	<1.4	ug/L	2.8	1.4	1		09/22/16 12:46	74-82-8	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	80.0J	ug/L	100	12.9	1		09/22/16 13:19	7439-89-6	
8260 MSV	Analytical Method: EPA 8260								
Benzene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	71-43-2	
Bromobenzene	<2.3	ug/L	10.0	2.3	10		09/21/16 10:33	108-86-1	
Bromochloromethane	<3.4	ug/L	10.0	3.4	10		09/21/16 10:33	74-97-5	
Bromodichloromethane	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	75-27-4	
Bromoform	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	75-25-2	
Bromomethane	<24.3	ug/L	50.0	24.3	10		09/21/16 10:33	74-83-9	
n-Butylbenzene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	104-51-8	
sec-Butylbenzene	<21.9	ug/L	50.0	21.9	10		09/21/16 10:33	135-98-8	
tert-Butylbenzene	<1.8	ug/L	10.0	1.8	10		09/21/16 10:33	98-06-6	
Carbon tetrachloride	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	56-23-5	
Chlorobenzene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	108-90-7	
Chloroethane	<3.7	ug/L	10.0	3.7	10		09/21/16 10:33	75-00-3	
Chloroform	<25.0	ug/L	50.0	25.0	10		09/21/16 10:33	67-66-3	
Chloromethane	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	74-87-3	
2-Chlorotoluene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	95-49-8	
4-Chlorotoluene	<2.1	ug/L	10.0	2.1	10		09/21/16 10:33	106-43-4	
1,2-Dibromo-3-chloropropane	<21.6	ug/L	50.0	21.6	10		09/21/16 10:33	96-12-8	
Dibromochloromethane	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	124-48-1	
1,2-Dibromoethane (EDB)	<1.8	ug/L	10.0	1.8	10		09/21/16 10:33	106-93-4	
Dibromomethane	<4.3	ug/L	10.0	4.3	10		09/21/16 10:33	74-95-3	
1,2-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	95-50-1	
1,3-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	541-73-1	
1,4-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	106-46-7	
Dichlorodifluoromethane	<2.2	ug/L	10.0	2.2	10		09/21/16 10:33	75-71-8	
1,1-Dichloroethane	<2.4	ug/L	10.0	2.4	10		09/21/16 10:33	75-34-3	
1,2-Dichloroethane	<1.7	ug/L	10.0	1.7	10		09/21/16 10:33	107-06-2	
1,1-Dichloroethene	<4.1	ug/L	10.0	4.1	10		09/21/16 10:33	75-35-4	
cis-1,2-Dichloroethene	71.4	ug/L	10.0	2.6	10		09/21/16 10:33	156-59-2	
trans-1,2-Dichloroethene	4.9J	ug/L	10.0	2.6	10		09/21/16 10:33	156-60-5	
1,2-Dichloropropane	<2.3	ug/L	10.0	2.3	10		09/21/16 10:33	78-87-5	
1,3-Dichloropropane	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	142-28-9	
2,2-Dichloropropane	<4.8	ug/L	10.0	4.8	10		09/21/16 10:33	594-20-7	
1,1-Dichloropropene	<4.4	ug/L	10.0	4.4	10		09/21/16 10:33	563-58-6	
cis-1,3-Dichloropropene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	10061-01-5	
trans-1,3-Dichloropropene	<2.3	ug/L	10.0	2.3	10		09/21/16 10:33	10061-02-6	
Diisopropyl ether	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	108-20-3	
Ethylbenzene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	100-41-4	
Hexachloro-1,3-butadiene	<21.1	ug/L	50.0	21.1	10		09/21/16 10:33	87-68-3	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS
Pace Project No.: 40138497

Sample: MW-8	Lab ID: 40138497017	Collected: 09/15/16 16:45	Received: 09/17/16 07:30	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	<1.4	ug/L	10.0	1.4	10		09/21/16 10:33	98-82-8	
p-Isopropyltoluene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	99-87-6	
Methylene Chloride	<2.3	ug/L	10.0	2.3	10		09/21/16 10:33	75-09-2	
Methyl-tert-butyl ether	<1.7	ug/L	10.0	1.7	10		09/21/16 10:33	1634-04-4	
Naphthalene	<25.0	ug/L	50.0	25.0	10		09/21/16 10:33	91-20-3	
n-Propylbenzene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	103-65-1	
Styrene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	100-42-5	
1,1,1,2-Tetrachloroethane	<1.8	ug/L	10.0	1.8	10		09/21/16 10:33	630-20-6	
1,1,2,2-Tetrachloroethane	<2.5	ug/L	10.0	2.5	10		09/21/16 10:33	79-34-5	
Tetrachloroethene	920	ug/L	10.0	5.0	10		09/21/16 10:33	127-18-4	
Toluene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	108-88-3	
1,2,3-Trichlorobenzene	<21.3	ug/L	50.0	21.3	10		09/21/16 10:33	87-61-6	
1,2,4-Trichlorobenzene	<22.1	ug/L	50.0	22.1	10		09/21/16 10:33	120-82-1	
1,1,1-Trichloroethane	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	71-55-6	
1,1,2-Trichloroethane	<2.0	ug/L	10.0	2.0	10		09/21/16 10:33	79-00-5	
Trichloroethene	39.9	ug/L	10.0	3.3	10		09/21/16 10:33	79-01-6	
Trichlorofluoromethane	<1.8	ug/L	10.0	1.8	10		09/21/16 10:33	75-69-4	
1,2,3-Trichloropropane	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	96-18-4	
1,2,4-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	95-63-6	
1,3,5-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	108-67-8	
Vinyl chloride	<1.8	ug/L	10.0	1.8	10		09/21/16 10:33	75-01-4	
Xylene (Total)	<15.0	ug/L	30.0	15.0	10		09/21/16 10:33	1330-20-7	
m&p-Xylene	<10.0	ug/L	20.0	10.0	10		09/21/16 10:33	179601-23-1	
o-Xylene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		10		09/21/16 10:33	460-00-4	
Dibromofluoromethane (S)	122	%	70-130		10		09/21/16 10:33	1868-53-7	
Toluene-d8 (S)	91	%	70-130		10		09/21/16 10:33	2037-26-5	
Iron, Ferrous	Analytical Method: HACH 8146								
Iron, Ferrous	<0.028	mg/L	0.093	0.028	1		09/21/16 10:27		H6,M0
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	169	mg/L	40.0	20.0	10		09/27/16 00:36	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	7.6	mg/L	0.25	0.095	1		09/23/16 11:45		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	2.1	mg/L	0.84	0.25	1		09/23/16 11:40	7440-44-0	

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-3	Lab ID: 40138497018	Collected: 09/15/16 17:45	Received: 09/17/16 07:30	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
Ethane	<0.58	ug/L	5.6	0.58	1		09/22/16 12:53	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		09/22/16 12:53	74-85-1	
Methane	<1.4	ug/L	2.8	1.4	1		09/22/16 12:53	74-82-8	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	115	ug/L	100	12.9	1		09/22/16 13:21	7439-89-6	
8260 MSV	Analytical Method: EPA 8260								
Benzene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	71-43-2	
Bromobenzene	<2.3	ug/L	10.0	2.3	10		09/21/16 10:56	108-86-1	
Bromochloromethane	<3.4	ug/L	10.0	3.4	10		09/21/16 10:56	74-97-5	
Bromodichloromethane	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	75-27-4	
Bromoform	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	75-25-2	
Bromomethane	<24.3	ug/L	50.0	24.3	10		09/21/16 10:56	74-83-9	
n-Butylbenzene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	104-51-8	
sec-Butylbenzene	<21.9	ug/L	50.0	21.9	10		09/21/16 10:56	135-98-8	
tert-Butylbenzene	<1.8	ug/L	10.0	1.8	10		09/21/16 10:56	98-06-6	
Carbon tetrachloride	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	56-23-5	
Chlorobenzene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	108-90-7	
Chloroethane	<3.7	ug/L	10.0	3.7	10		09/21/16 10:56	75-00-3	
Chloroform	<25.0	ug/L	50.0	25.0	10		09/21/16 10:56	67-66-3	
Chloromethane	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	74-87-3	
2-Chlorotoluene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	95-49-8	
4-Chlorotoluene	<2.1	ug/L	10.0	2.1	10		09/21/16 10:56	106-43-4	
1,2-Dibromo-3-chloropropane	<21.6	ug/L	50.0	21.6	10		09/21/16 10:56	96-12-8	
Dibromochloromethane	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	124-48-1	
1,2-Dibromoethane (EDB)	<1.8	ug/L	10.0	1.8	10		09/21/16 10:56	106-93-4	
Dibromomethane	<4.3	ug/L	10.0	4.3	10		09/21/16 10:56	74-95-3	
1,2-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	95-50-1	
1,3-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	541-73-1	
1,4-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	106-46-7	
Dichlorodifluoromethane	<2.2	ug/L	10.0	2.2	10		09/21/16 10:56	75-71-8	
1,1-Dichloroethane	<2.4	ug/L	10.0	2.4	10		09/21/16 10:56	75-34-3	
1,2-Dichloroethane	<1.7	ug/L	10.0	1.7	10		09/21/16 10:56	107-06-2	
1,1-Dichloroethene	<4.1	ug/L	10.0	4.1	10		09/21/16 10:56	75-35-4	
cis-1,2-Dichloroethene	175	ug/L	10.0	2.6	10		09/21/16 10:56	156-59-2	
trans-1,2-Dichloroethene	9.4J	ug/L	10.0	2.6	10		09/21/16 10:56	156-60-5	
1,2-Dichloropropane	<2.3	ug/L	10.0	2.3	10		09/21/16 10:56	78-87-5	
1,3-Dichloropropane	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	142-28-9	
2,2-Dichloropropane	<4.8	ug/L	10.0	4.8	10		09/21/16 10:56	594-20-7	
1,1-Dichloropropene	<4.4	ug/L	10.0	4.4	10		09/21/16 10:56	563-58-6	
cis-1,3-Dichloropropene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	10061-01-5	
trans-1,3-Dichloropropene	<2.3	ug/L	10.0	2.3	10		09/21/16 10:56	10061-02-6	
Diisopropyl ether	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	108-20-3	
Ethylbenzene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	100-41-4	
Hexachloro-1,3-butadiene	<21.1	ug/L	50.0	21.1	10		09/21/16 10:56	87-68-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: MW-3	Lab ID: 40138497018	Collected: 09/15/16 17:45	Received: 09/17/16 07:30	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	<1.4	ug/L	10.0	1.4	10		09/21/16 10:56	98-82-8	
p-Isopropyltoluene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	99-87-6	
Methylene Chloride	<2.3	ug/L	10.0	2.3	10		09/21/16 10:56	75-09-2	
Methyl-tert-butyl ether	<1.7	ug/L	10.0	1.7	10		09/21/16 10:56	1634-04-4	
Naphthalene	<25.0	ug/L	50.0	25.0	10		09/21/16 10:56	91-20-3	
n-Propylbenzene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	103-65-1	
Styrene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	100-42-5	
1,1,1,2-Tetrachloroethane	<1.8	ug/L	10.0	1.8	10		09/21/16 10:56	630-20-6	
1,1,2,2-Tetrachloroethane	<2.5	ug/L	10.0	2.5	10		09/21/16 10:56	79-34-5	
Tetrachloroethene	437	ug/L	10.0	5.0	10		09/21/16 10:56	127-18-4	
Toluene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	108-88-3	
1,2,3-Trichlorobenzene	<21.3	ug/L	50.0	21.3	10		09/21/16 10:56	87-61-6	
1,2,4-Trichlorobenzene	<22.1	ug/L	50.0	22.1	10		09/21/16 10:56	120-82-1	
1,1,1-Trichloroethane	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	71-55-6	
1,1,2-Trichloroethane	<2.0	ug/L	10.0	2.0	10		09/21/16 10:56	79-00-5	
Trichloroethene	34.5	ug/L	10.0	3.3	10		09/21/16 10:56	79-01-6	
Trichlorofluoromethane	<1.8	ug/L	10.0	1.8	10		09/21/16 10:56	75-69-4	
1,2,3-Trichloropropane	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	96-18-4	
1,2,4-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	95-63-6	
1,3,5-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	108-67-8	
Vinyl chloride	<1.8	ug/L	10.0	1.8	10		09/21/16 10:56	75-01-4	
Xylene (Total)	<15.0	ug/L	30.0	15.0	10		09/21/16 10:56	1330-20-7	
m&p-Xylene	<10.0	ug/L	20.0	10.0	10		09/21/16 10:56	179601-23-1	
o-Xylene	<5.0	ug/L	10.0	5.0	10		09/21/16 10:56	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		10		09/21/16 10:56	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		10		09/21/16 10:56	1868-53-7	
Toluene-d8 (S)	92	%	70-130		10		09/21/16 10:56	2037-26-5	
Iron, Ferrous	Analytical Method: HACH 8146								
Iron, Ferrous	<0.028	mg/L	0.093	0.028	1		09/21/16 10:32		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	144	mg/L	40.0	20.0	10		09/27/16 00:47	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	0.20J	mg/L	0.25	0.095	1		09/23/16 11:46		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	1.3	mg/L	0.84	0.25	1		09/23/16 12:36	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: TRIP BLANK Lab ID: 40138497019 Collected: 09/15/16 00:00 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		09/21/16 15:45	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		09/21/16 15:45	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		09/21/16 15:45	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 15:45	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		09/21/16 15:45	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		09/21/16 15:45	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		09/21/16 15:45	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		09/21/16 15:45	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		09/21/16 15:45	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		09/21/16 15:45	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		09/21/16 15:45	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		09/21/16 15:45	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/21/16 15:45	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		09/21/16 15:45	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		09/21/16 15:45	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 15:45	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/21/16 15:45	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		09/21/16 15:45	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		09/21/16 15:45	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		09/21/16 15:45	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		09/21/16 15:45	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		09/21/16 15:45	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		09/21/16 15:45	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/21/16 15:45	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		09/21/16 15:45	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		09/21/16 15:45	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		09/21/16 15:45	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Sample: TRIP BLANK Lab ID: 40138497019 Collected: 09/15/16 00:00 Received: 09/17/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		09/21/16 15:45	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		09/21/16 15:45	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		09/21/16 15:45	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		09/21/16 15:45	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		09/21/16 15:45	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		09/21/16 15:45	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/21/16 15:45	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		09/21/16 15:45	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		09/21/16 15:45	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		09/21/16 15:45	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		09/21/16 15:45	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		09/21/16 15:45	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		09/21/16 15:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

QC Batch: 235707 Analysis Method: EPA 8015B Modified

QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV

Associated Lab Samples: 40138497017, 40138497018

METHOD BLANK: 1397414 Matrix: Water

Associated Lab Samples: 40138497017, 40138497018

Parameter	Units	Blank	Reporting		Analyzed	Qualifiers
		Result	Limit			
Ethane	ug/L	<0.58	5.6	09/22/16 12:25		
Ethene	ug/L	<0.52	5.0	09/22/16 12:25		
Methane	ug/L	<1.4	2.8	09/22/16 12:25		

LABORATORY CONTROL SAMPLE & LCSD: 1397415

1397416

Parameter	Units	Spike	LCS	LCSD	LCS	LCSD	% Rec	RPD	Max RPD	Qualifiers
		Conc.	Result	Result	% Rec	% Rec	Limits			
Ethane	ug/L	53.6	52.4	52.3	98	98	76-120	0	20	
Ethene	ug/L	50	48.7	48.4	97	97	75-120	1	20	
Methane	ug/L	28.6	27.0	26.7	94	93	73-122	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1397916

1397917

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max RPD	Qual
		40138497017	Spike	Spike	Result	Result	% Rec	% Rec			
Ethane	ug/L	<0.58	53.6	53.6	49.0	50.0	91	93	73-120	2	20
Ethene	ug/L	<0.52	50	50	45.6	46.6	91	93	72-120	2	20
Methane	ug/L	<1.4	28.6	28.6	24.7	25.4	87	89	15-187	3	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS
Pace Project No.: 40138497

QC Batch:	235685	Analysis Method:	EPA 6010
QC Batch Method:	EPA 6010	Analysis Description:	ICP Metals, Trace, Dissolved
Associated Lab Samples:	40138497017, 40138497018		

METHOD BLANK: 1397038 Matrix: Water

Associated Lab Samples: 40138497017, 40138497018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<12.9	100	09/22/16 12:51	

LABORATORY CONTROL SAMPLE: 1397039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	5000	4860	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1397040 1397041

Parameter	Units	40138490030 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Iron, Dissolved	ug/L	289	5000	5000	5130	5160	97	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

QC Batch:

235351

Analysis Method:

EPA 8260

QC Batch Method:

EPA 8260

Analysis Description:

8260 MSV

Associated Lab Samples: 40138497001, 40138497002, 40138497003, 40138497004, 40138497005, 40138497006, 40138497007,
40138497008, 40138497009, 40138497010, 40138497011, 40138497012, 40138497013, 40138497014,
40138497015, 40138497016, 40138497017, 40138497018, 40138497019

METHOD BLANK: 1394992

Matrix: Water

Associated Lab Samples: 40138497001, 40138497002, 40138497003, 40138497004, 40138497005, 40138497006, 40138497007,
40138497008, 40138497009, 40138497010, 40138497011, 40138497012, 40138497013, 40138497014,
40138497015, 40138497016, 40138497017, 40138497018, 40138497019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	09/21/16 06:48	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	09/21/16 06:48	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	09/21/16 06:48	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	09/21/16 06:48	
1,1-Dichloroethane	ug/L	<0.24	1.0	09/21/16 06:48	
1,1-Dichloroethene	ug/L	<0.41	1.0	09/21/16 06:48	
1,1-Dichloropropene	ug/L	<0.44	1.0	09/21/16 06:48	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	09/21/16 06:48	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	09/21/16 06:48	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	09/21/16 06:48	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	09/21/16 06:48	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	09/21/16 06:48	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	09/21/16 06:48	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	09/21/16 06:48	
1,2-Dichloroethane	ug/L	<0.17	1.0	09/21/16 06:48	
1,2-Dichloropropane	ug/L	<0.23	1.0	09/21/16 06:48	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	09/21/16 06:48	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	09/21/16 06:48	
1,3-Dichloropropane	ug/L	<0.50	1.0	09/21/16 06:48	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	09/21/16 06:48	
2,2-Dichloropropane	ug/L	<0.48	1.0	09/21/16 06:48	
2-Chlorotoluene	ug/L	<0.50	1.0	09/21/16 06:48	
4-Chlorotoluene	ug/L	<0.21	1.0	09/21/16 06:48	
Benzene	ug/L	<0.50	1.0	09/21/16 06:48	
Bromobenzene	ug/L	<0.23	1.0	09/21/16 06:48	
Bromochloromethane	ug/L	<0.34	1.0	09/21/16 06:48	
Bromodichloromethane	ug/L	<0.50	1.0	09/21/16 06:48	
Bromoform	ug/L	<0.50	1.0	09/21/16 06:48	
Bromomethane	ug/L	<2.4	5.0	09/21/16 06:48	
Carbon tetrachloride	ug/L	<0.50	1.0	09/21/16 06:48	
Chlorobenzene	ug/L	<0.50	1.0	09/21/16 06:48	
Chloroethane	ug/L	<0.37	1.0	09/21/16 06:48	
Chloroform	ug/L	<2.5	5.0	09/21/16 06:48	
Chloromethane	ug/L	<0.50	1.0	09/21/16 06:48	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	09/21/16 06:48	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	09/21/16 06:48	
Dibromochloromethane	ug/L	<0.50	1.0	09/21/16 06:48	
Dibromomethane	ug/L	<0.43	1.0	09/21/16 06:48	

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

METHOD BLANK: 1394992 Matrix: Water

Associated Lab Samples: 40138497001, 40138497002, 40138497003, 40138497004, 40138497005, 40138497006, 40138497007,
40138497008, 40138497009, 40138497010, 40138497011, 40138497012, 40138497013, 40138497014,
40138497015, 40138497016, 40138497017, 40138497018, 40138497019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	<0.22	1.0	09/21/16 06:48	
Diisopropyl ether	ug/L	<0.50	1.0	09/21/16 06:48	
Ethylbenzene	ug/L	<0.50	1.0	09/21/16 06:48	
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	09/21/16 06:48	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	09/21/16 06:48	
m&p-Xylene	ug/L	<1.0	2.0	09/21/16 06:48	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	09/21/16 06:48	
Methylene Chloride	ug/L	<0.23	1.0	09/21/16 06:48	
n-Butylbenzene	ug/L	<0.50	1.0	09/21/16 06:48	
n-Propylbenzene	ug/L	<0.50	1.0	09/21/16 06:48	
Naphthalene	ug/L	<2.5	5.0	09/21/16 06:48	
o-Xylene	ug/L	<0.50	1.0	09/21/16 06:48	
p-Isopropyltoluene	ug/L	<0.50	1.0	09/21/16 06:48	
sec-Butylbenzene	ug/L	<2.2	5.0	09/21/16 06:48	
Styrene	ug/L	<0.50	1.0	09/21/16 06:48	
tert-Butylbenzene	ug/L	<0.18	1.0	09/21/16 06:48	
Tetrachloroethene	ug/L	<0.50	1.0	09/21/16 06:48	
Toluene	ug/L	<0.50	1.0	09/21/16 06:48	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	09/21/16 06:48	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	09/21/16 06:48	
Trichloroethene	ug/L	<0.33	1.0	09/21/16 06:48	
Trichlorofluoromethane	ug/L	<0.18	1.0	09/21/16 06:48	
Vinyl chloride	ug/L	<0.18	1.0	09/21/16 06:48	
Xylene (Total)	ug/L	<1.5	3.0	09/21/16 06:48	
4-Bromofluorobenzene (S)	%	92	70-130	09/21/16 06:48	
Dibromofluoromethane (S)	%	115	70-130	09/21/16 06:48	
Toluene-d8 (S)	%	96	70-130	09/21/16 06:48	

LABORATORY CONTROL SAMPLE: 1394993

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	60.5	121	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	48.3	97	67-130	
1,1,2-Trichloroethane	ug/L	50	50.2	100	70-130	
1,1-Dichloroethane	ug/L	50	63.2	126	70-133	
1,1-Dichloroethene	ug/L	50	52.9	106	70-130	
1,2,4-Trichlorobenzene	ug/L	50	39.3	79	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	45.1	90	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	47.8	96	70-130	
1,2-Dichlorobenzene	ug/L	50	47.4	95	70-130	
1,2-Dichloroethane	ug/L	50	63.7	127	70-130	
1,2-Dichloropropane	ug/L	50	55.0	110	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

LABORATORY CONTROL SAMPLE: 1394993

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	45.6	91	70-130	
1,4-Dichlorobenzene	ug/L	50	45.7	91	70-130	
Benzene	ug/L	50	65.0	130	60-135	
Bromodichloromethane	ug/L	50	57.0	114	70-130	
Bromoform	ug/L	50	44.3	89	70-130	
Bromomethane	ug/L	50	48.9	98	33-130	
Carbon tetrachloride	ug/L	50	56.2	112	70-138	
Chlorobenzene	ug/L	50	49.5	99	70-130	
Chloroethane	ug/L	50	53.0	106	51-130	
Chloroform	ug/L	50	61.0	122	70-130	
Chloromethane	ug/L	50	47.1	94	25-132	
cis-1,2-Dichloroethene	ug/L	50	59.1	118	69-130	
cis-1,3-Dichloropropene	ug/L	50	54.1	108	70-130	
Dibromochloromethane	ug/L	50	49.9	100	70-130	
Dichlorodifluoromethane	ug/L	50	54.0	108	23-130	
Ethylbenzene	ug/L	50	51.4	103	70-136	
Isopropylbenzene (Cumene)	ug/L	50	53.0	106	70-140	
m&p-Xylene	ug/L	100	104	104	70-138	
Methyl-tert-butyl ether	ug/L	50	62.8	126	66-138	
Methylene Chloride	ug/L	50	56.8	114	70-130	
o-Xylene	ug/L	50	48.7	97	70-134	
Styrene	ug/L	50	53.2	106	70-133	
Tetrachloroethene	ug/L	50	43.9	88	70-138	
Toluene	ug/L	50	50.1	100	70-130	
trans-1,2-Dichloroethene	ug/L	50	57.5	115	70-131	
trans-1,3-Dichloropropene	ug/L	50	48.4	97	69-130	
Trichloroethene	ug/L	50	53.7	107	70-130	
Trichlorofluoromethane	ug/L	50	58.3	117	50-150	
Vinyl chloride	ug/L	50	59.4	119	49-130	
Xylene (Total)	ug/L	150	153	102	70-135	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			117	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1396011 1396012

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max		
		40138497001 Result	Spike Conc.	Spike Conc.	MS Result				RPD	RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	125	125	142	157	114	125	70-134	9	20
1,1,2,2-Tetrachloroethane	ug/L	<0.25	125	125	117	121	93	96	67-130	3	20
1,1,2-Trichloroethane	ug/L	<0.20	125	125	114	124	92	99	70-130	8	20
1,1-Dichloroethane	ug/L	<0.24	125	125	156	166	125	133	70-134	7	20
1,1-Dichloroethene	ug/L	<0.41	125	125	128	141	103	112	68-136	9	20
1,2,4-Trichlorobenzene	ug/L	<2.2	125	125	100	108	80	86	62-139	7	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Parameter	Units	40138497001		MSD		1396011		1396012		% Rec	Max	RPD	RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec					
1,2-Dibromo-3-chloropropane	ug/L	<2.2	125	125	101	105	81	84	50-150	4	20			
1,2-Dibromoethane (EDB)	ug/L	<0.18	125	125	111	116	89	93	70-130	4	20			
1,2-Dichlorobenzene	ug/L	<0.50	125	125	115	119	92	95	70-130	4	20			
1,2-Dichloroethane	ug/L	<0.17	125	125	156	163	125	130	70-130	4	20			
1,2-Dichloropropane	ug/L	<0.23	125	125	135	137	108	110	70-130	2	20			
1,3-Dichlorobenzene	ug/L	<0.50	125	125	109	115	87	92	70-131	5	20			
1,4-Dichlorobenzene	ug/L	<0.50	125	125	114	120	91	96	70-130	5	20			
Benzene	ug/L	<0.50	125	125	153	170	123	136	57-138	10	20			
Bromodichloromethane	ug/L	<0.50	125	125	133	139	107	111	70-130	4	20			
Bromoform	ug/L	<0.50	125	125	102	104	82	83	70-130	2	20			
Bromomethane	ug/L	<2.4	125	125	120	127	96	102	33-130	6	27			
Carbon tetrachloride	ug/L	<0.50	125	125	136	151	109	121	70-138	11	20			
Chlorobenzene	ug/L	<0.50	125	125	116	123	93	98	70-130	6	20			
Chloroethane	ug/L	<0.37	125	125	121	132	97	106	51-130	9	20			
Chloroform	ug/L	<2.5	125	125	148	166	119	133	70-130	11	20	M1		
Chloromethane	ug/L	<0.50	125	125	116	125	92	100	25-132	8	20			
cis-1,2-Dichloroethene	ug/L	<0.26	125	125	139	156	111	125	61-140	11	20			
cis-1,3-Dichloropropene	ug/L	<0.50	125	125	132	135	105	108	70-130	3	20			
Dibromochloromethane	ug/L	<0.50	125	125	113	121	90	97	70-130	7	20			
Dichlorodifluoromethane	ug/L	<0.22	125	125	132	141	105	112	23-130	7	20			
Ethylbenzene	ug/L	<0.50	125	125	120	128	96	102	70-138	7	20			
Isopropylbenzene (Cumene)	ug/L	<0.14	125	125	121	131	97	105	70-152	8	20			
m&p-Xylene	ug/L	<1.0	250	250	247	259	99	104	70-140	5	20			
Methyl-tert-butyl ether	ug/L	<0.17	125	125	148	161	118	129	66-139	9	20			
Methylene Chloride	ug/L	<0.23	125	125	135	148	108	118	70-130	9	20			
o-Xylene	ug/L	<0.50	125	125	115	124	92	99	70-134	7	20			
Styrene	ug/L	<0.50	125	125	122	130	97	104	70-138	7	20			
Tetrachloroethene	ug/L	0.88J	125	125	103	111	82	88	70-148	8	20			
Toluene	ug/L	<0.50	125	125	116	123	93	98	70-130	6	20			
trans-1,2-Dichloroethene	ug/L	<0.26	125	125	137	151	109	120	70-133	10	20			
trans-1,3-Dichloropropene	ug/L	<0.23	125	125	108	118	86	94	69-130	9	20			
Trichloroethene	ug/L	<0.33	125	125	129	136	103	109	70-131	5	20			
Trichlorofluoromethane	ug/L	<0.18	125	125	141	158	113	126	50-150	12	20			
Vinyl chloride	ug/L	<0.18	125	125	140	150	112	120	49-133	7	20			
Xylene (Total)	ug/L	<1.5	375	375	362	383	96	102	70-135	6	20			
4-Bromofluorobenzene (S)	%						99	98	70-130					
Dibromofluoromethane (S)	%							117	117	70-130				
Toluene-d8 (S)	%							91	91	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS
Pace Project No.: 40138497

QC Batch:	235553	Analysis Method:	HACH 8146
QC Batch Method:	HACH 8146	Analysis Description:	Iron, Ferrous
Associated Lab Samples:	40138497017, 40138497018		

METHOD BLANK: 1396128 Matrix: Water

Associated Lab Samples: 40138497017, 40138497018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.028	0.093	09/21/16 10:25	

LABORATORY CONTROL SAMPLE: 1396129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	.6	0.62	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1396130 1396131

Parameter	Units	40138497017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Iron, Ferrous	mg/L	<0.028	.6	.6	0.90	0.87	151	144	80-120	4	20	M0

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS
Pace Project No.: 40138497

QC Batch:	235570	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples: 40138497017, 40138497018			

METHOD BLANK: 1396278 Matrix: Water

Associated Lab Samples: 40138497017, 40138497018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<2.0	4.0	09/26/16 10:31	

LABORATORY CONTROL SAMPLE: 1396279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1396280 1396281

Parameter	Units	40138569002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
Sulfate	mg/L	228	400	400	637	637	102	102	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1396282 1396283

Parameter	Units	40138562004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
Sulfate	mg/L	15.4	20	20	37.1	37.7	108	111	90-110	2	15	M0

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

QC Batch: 235901 Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved

Associated Lab Samples: 40138497017, 40138497018

METHOD BLANK: 1398598 Matrix: Water

Associated Lab Samples: 40138497017, 40138497018

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Nitrogen, NO ₂ plus NO ₃	mg/L	<0.095	0.25	09/23/16 11:06	

LABORATORY CONTROL SAMPLE: 1398599

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Nitrogen, NO ₂ plus NO ₃	mg/L	2.5	2.7	110	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1398600 1398601

Parameter	Units	40138620004	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	
		Result	Spike	Spike								
Nitrogen, NO ₂ plus NO ₃	mg/L	<0.095	2.5	2.5	2.8	2.5	111	100	90-110	10	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1398602 1398603

Parameter	Units	40138497018	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	
		Result	Spike	Spike								
Nitrogen, NO ₂ plus NO ₃	mg/L	0.20J	2.5	2.5	2.7	2.8	102	102	90-110	1	20	M0

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QUALITY CONTROL DATA

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

QC Batch: 235878 Analysis Method: SM 5310C

QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon

Associated Lab Samples: 40138497017, 40138497018

METHOD BLANK: 1398442 Matrix: Water

Associated Lab Samples: 40138497017, 40138497018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.25	0.84	09/23/16 11:02	

LABORATORY CONTROL SAMPLE: 1398443

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	2.6	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1398444 1398445

Parameter	Units	40138497017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Total Organic Carbon	mg/L	2.1	1	1	3.2	3.2	113	114	80-120	0	10	

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QUALIFIERS

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

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

ANALYTE QUALIFIERS

H6 Analysis initiated outside of the 15 minute EPA required holding time.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 21-41301A EXPRESS CLEANERS

Pace Project No.: 40138497

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40138497017	MW-8	EPA 8015B Modified	235707		
40138497018	MW-3	EPA 8015B Modified	235707		
40138497017	MW-8	EPA 6010	235685		
40138497018	MW-3	EPA 6010	235685		
40138497001	MW-9	EPA 8260	235351		
40138497002	MW-14	EPA 8260	235351		
40138497003	MW-14 DUP	EPA 8260	235351		
40138497004	MW-4	EPA 8260	235351		
40138497005	MW-2	EPA 8260	235351		
40138497006	MW-15	EPA 8260	235351		
40138497007	PZ-1	EPA 8260	235351		
40138497008	MW-1	EPA 8260	235351		
40138497009	MW-7	EPA 8260	235351		
40138497010	MW-12	EPA 8260	235351		
40138497011	MW-11	EPA 8260	235351		
40138497012	MW-11 DUP	EPA 8260	235351		
40138497013	MW-13	EPA 8260	235351		
40138497014	MW-6	EPA 8260	235351		
40138497015	MW-5	EPA 8260	235351		
40138497016	MW-10	EPA 8260	235351		
40138497017	MW-8	EPA 8260	235351		
40138497018	MW-3	EPA 8260	235351		
40138497019	TRIP BLANK	EPA 8260	235351		
40138497017	MW-8	HACH 8146	235553		
40138497018	MW-3	HACH 8146	235553		
40138497017	MW-8	EPA 300.0	235570		
40138497018	MW-3	EPA 300.0	235570		
40138497017	MW-8	EPA 353.2	235901		
40138497018	MW-3	EPA 353.2	235901		
40138497017	MW-8	SM 5310C	235878		
40138497018	MW-3	SM 5310C	235878		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Ramboll Environ
 Branch/Location: Milwaukee
 Project Contact: Jeanne Tarvin
 Phone: 262-901-0085
 Project Number: 21-41301A
 Project Name: Express Cleaners
 Project State: WI
 Sampled By (Print): Jonathan Fuqua
 Sampled By (Sign): *Jonathan Fuqua*
 PO #: *PO#* Regulatory Program:

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

MS/MSD

<input type="checkbox"/> On your sample (billable)	<input type="checkbox"/> NOT needed on your sample	<u>Matrix Codes</u>
A = Air	W = Water	
B = Biota	DW = Drinking Water	
C = Charcoal	GW = Ground Water	
O = Oil	SW = Surface Water	
S = Soil	WW = Waste Water	
Sl = Sludge	WP = Wipe	

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analyses Requested	Y/N	N	Preservation Code*	Mail To Contact:	Mail To Company:	Mail To Address:	Invoice To Contact:	Invoice To Company:	Invoice To Address:	Invoice To Phone:	CLIENT COMMENTS (Lab Use Only)	LAB COMMENTS (Lab Use Only)	Profile #	
		DATE	TIME																
001	MW-9	9/14/16	1258	GW	X													3-40mlvB	
002	MW-14	9/14/16	1350																
003	MW-14 DUP	9/14/16	1353																
004	MW-4	9/14/16	1435																
005	MW-2	9/14/16	1525																
006	MW-15	9/14/16	1605																
007	PZ-1	9/15/16	0925																
008	MW-1		1005																
009	MW-7		1050																
010	MW-12		1135																
011	MW-11		1215																
012	MW-11 DUP		1218																
013	MW-13		1300																

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed: 10 - DAY

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



UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

Page 1 of 2

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40138497

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

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

Y/N

Pick Letter

VOCs (8260)

Analyses Requested

Y/N

N

Y/N

Relinquished By: <i>Jonathan Fuqua</i>	Date/Time: 9-16-16 1400	Received By: <i>Mary Fannin</i>	Date/Time: 9/16/16 1400	PACE Project No. 40138497
Relinquished By: <i>Mary Fannin</i>	Date/Time: 9/16/16 1600	Received By: <i>Zach Schramm</i>	Date/Time: 9/17/16 0730	Receipt Temp = 201 °C
Relinquished By: <i>CS Logistics</i>	Date/Time: 9/17/16 0730	Received By: <i>Zach Schramm</i>	Date/Time: 9/17/16 0730	Sample Receipt pH OK / Adjusted
Relinquished By:	Date/Time:	Received By:	Date/Time:	Cooler Custody Seal Present / Not Present Intact / Not Intact
Relinquished By:	Date/Time:	Received By:	Date/Time:	Version 03-02-04/06



Sample Condition Upon Receipt

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

Project #:

WO# : 40138497

Client Name: Ramboll

Courier: FedEx UPS Client Pace Other: CS Logistics

Tracking #:

Custody Seal on Cooler/Box Present: yes no Seals intact: yes noCustody Seal on Samples Present: yes no Seals intact: yes noPacking Material: Bubble Wrap Bubble Bags None OtherThermometer Used: SR-58 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begunCooler Temperature: Uncorr: 4.5 /Corr: 5.5 Biological Tissue is Frozen: yes noTemp Blank Present: yes no

Temp should be above freezing to 6°C for all sample except Biota.

Frozen Biota Samples should be received ≤ 0°C.

Comments:

Person examining contents:
Date: 9/19/16
Initials: bms

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time: - VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	5. Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used: -Pace Containers Used: -Pace IR Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers Intact:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO ₃ , H ₂ SO ₄ <2; NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: TOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <input checked="" type="checkbox"/> Lab Std #ID of preservative: <input type="checkbox"/> Date/Time: <input type="checkbox"/>
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): 369		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: 9/19/16