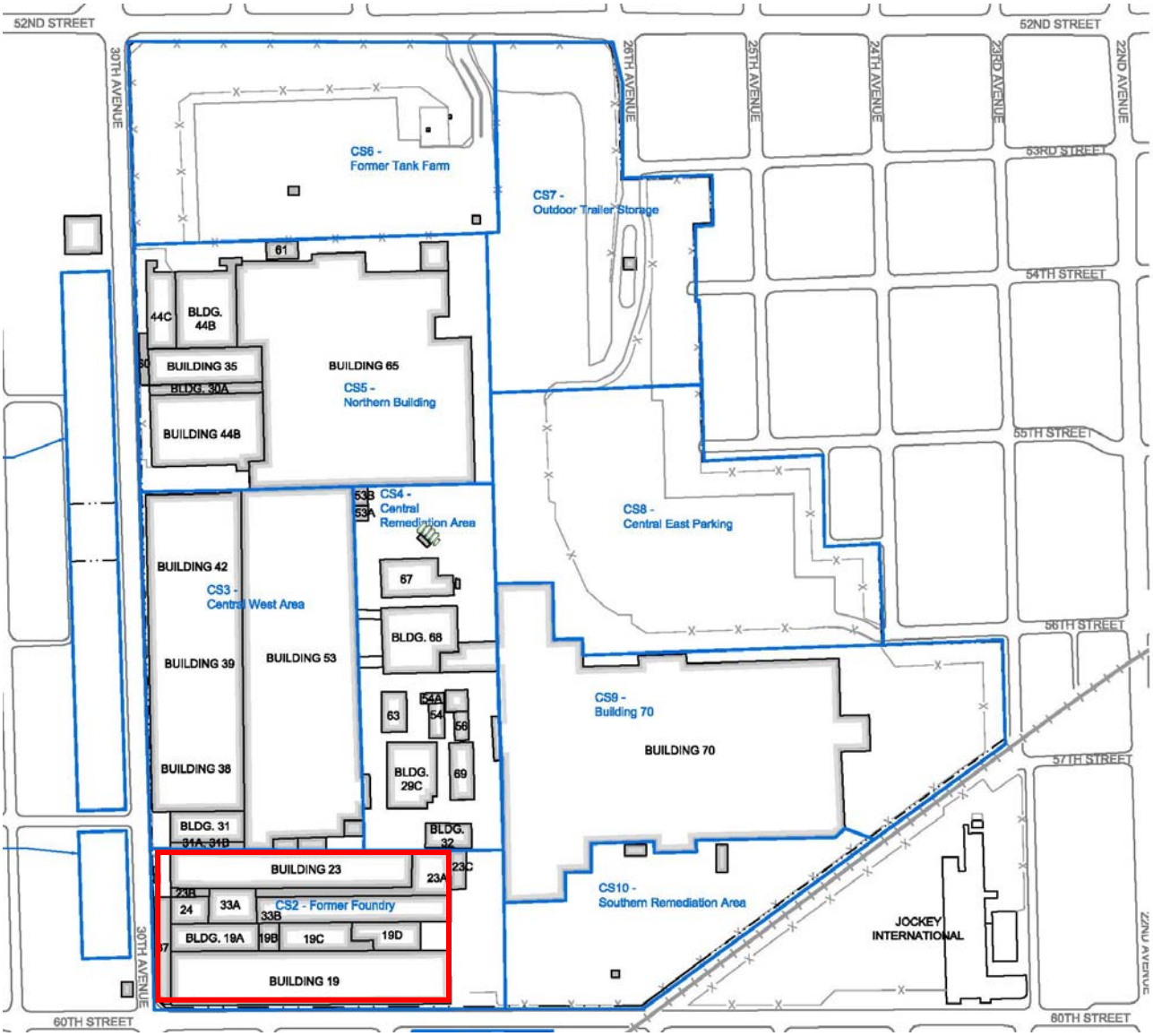
Prepared for:
City of Kenosha
Kenosha, Wisconsin

Prepared by:
AECOM
Milwaukee, WI
60440361
February 2016

CS2 Remedial Action Documentation Report – Kenosha Engine Plant

WDNR FID 230004500



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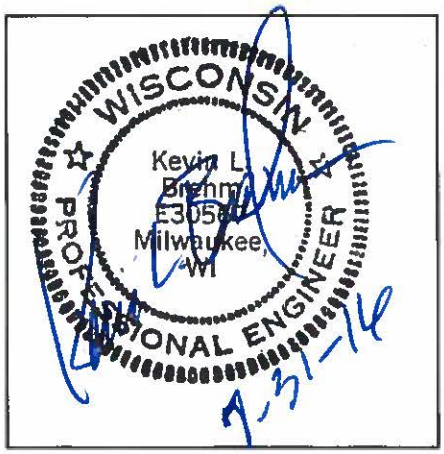
In conformance with NR 712.09 submittal certification requirements:

"I, Lanette Altenbach, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all 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."

Lanette Altenbach, P.G., C.P.G.
Senior Hydrogeologist

"I, Kevin L. Brehm, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Kevin L. Brehm, P.E.,
Principal/Office Manager



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Executive Summary

AECOM Technical Services, Inc. (AECOM) has prepared this CS2 Remedial Action Documentation Report for the City of Kenosha to provide the description of the remedial actions undertaken at the former Kenosha Engine Plant (KEP) within the CS2 area. This report was prepared to meet Wisconsin Administrative Code (WAC) NR 724 requirements.

The KEP is located at 5555 - 30th Avenue in the city of Kenosha, Kenosha County, Wisconsin. The property is currently vacant; however, the former building floors have been left to act as a temporary barrier until remediation is conducted. The site is relatively flat with perimeter soil berms present along the north property boundary (along 52nd Street) and the east property boundary (26th Avenue) of the KEP. The KEP is divided into 12 separate areas or Chrysler Sites (CS areas), CS1 through CS12, to aid the investigation and remediation of the overall site.

The Kenosha Engine Plant (KEP) property is approximately 106 acres and has been used for automotive manufacturing for over 100 years. The use and storage of petroleum fuels and oils as part of manufacturing operations occurred over much of the site. This use and storage resulted in releases to the environment creating soil and groundwater impacts. The goal of the remedial action, completed in CS2 and described in this report, was to remove the residual light non-aqueous phase liquid (LNAPL) by removing the petroleum-impacted soils where the LNAPL existed and to remove soil with contaminant concentrations that exceeded industrial residual contaminant levels (RCLs).

Specifications for the soil remediation by removal were prepared and the soil removal activities were publicly bid in June 2015. The Public Works Bid was awarded by the Kenosha Common Council in July, 2015.

The remedial activities began on July 27, 2015 and were completed on October 23, 2015 with the final seeding of the area. The soil remediation excavation was completed in general conformance with the plans and specifications provided during the public bidding process. Approximately 13,730 tons of petroleum-impacted soil was excavated from the five petroleum-impacted excavation areas and approximately 1,070 tons of chlorinated-impacted soil was excavated from the one chlorinated-impacted excavation area. The six excavations were completed to their planned extents. The remedial activities included the following (in order of occurrence):

- Removal of concrete pavement from the six excavation areas and stockpiled on-site.
- Abandonment of monitoring wells MW-205, PZ-205, MW-203, PZ-203, MW-201, MW-200, PZ-200, MW-204, MW-48, and PZ-48.
- Excavated the soil in E32L, E30L, E29T, E28L, E31L, and ECS2-Extra. Backfilled and compacted excavations using stockpiled soil located in CS9 and perimeter berm soil located in CS7.
- Removed surface concrete from the remaining CS2 area. Kept a slab of concrete around MW-206 to protect it from damage during the removal of surface and sub surface concrete. Lightly stained and unstained concrete was stockpiled in the designated area in CS8. Heavily stained concrete was removed and hauled off site to Kestrel Hawk landfill in Racine, Wisconsin for disposal.

- Former concrete building foundations, machine lines, piping, trenches, conduit, or other material encountered during removal of the concrete slab were removed or cut to approximately two feet below the finished grade.

- Graded site in accordance with the site grading plan, installed specified storm water inlets, and connected inlets to existing storm sewer line.

- Modified monitoring well MW-206 from a stick-up well to flush-grade construction per the specifications.

- Placed four inches of topsoil that was obtained from the City's topsoil stockpile located at 4710-4722 47th Avenue. Seeded the disturbed areas; CS2, the CS7 berm and at the off-site topsoil borrow area. DOT seed mix #40 was sowed, mulch was spread and, erosion control measures were installed.

Soil samples were collected from the sidewalls and base of each excavation to document the post-excavation conditions. Detected concentrations of petroleum and chlorinated volatile organic compounds (VOCs) are shown in Table 2 and detected concentrations of polycyclic aromatic hydrocarbons (PAHs) are shown in Table 3. There were only two residual industrial exceedances, one VOC at the water table, 12 feet below ground surface, and one PAH at six feet below ground surface. These impacts are well below the direct contact zone and are not likely to be encountered during future construction.

The excavation of the contaminated soil removed petroleum-impacted soil, chlorinated-impacted soil, and visually observed LNAPL from known historic releases that were not technically recoverable by the currently operating groundwater recovery system. The remedial action was successful and the eight acre area known as CS2 is now prepared for redevelopment.

1.0 Introduction

AECOM Technical Services, Inc. (AECOM) has prepared this CS2 Remedial Action Documentation Report (RAD) for the City of Kenosha to provide the description of the soil remedial actions undertaken at the former Kenosha Engine Plant (KEP) within the CS2 area. This report was prepared to meet Wisconsin Administrative Code (WAC) NR 724 requirements. The CS2 soil remedial actions discussed herein were performed consistent with the overall site-wide soil remediation plan as described in the Soil Remedial Design Report (AECOM, June 2015).

The KEP is located at 5555 - 30th Avenue in the city of Kenosha, Kenosha County, Wisconsin. The property is currently vacant; however, the former building floors remain to act as a temporary barrier until remediation is conducted. The site is relatively flat with perimeter soil berms present along the north property boundary (along 52nd Street) and the east property boundary (26th Avenue) of the KEP. The KEP is divided into 12 separate areas or Chrysler Sites (CS areas), CS1 through CS12, to aid the investigation and remediation of the overall site.

The Kenosha Engine Plant (KEP) property is approximately 106 acres and has been used for automotive manufacturing for over 100 years. The use and storage of petroleum fuels and oils as part of manufacturing operations occurred over much of the site. This use and storage resulted in releases to the environment creating soil and groundwater impacts. The goal of the remedial action was to remove the residual LNAPL by removing the petroleum-impacted soils where the LNAPL existed and to remove soil with contaminant concentrations that exceeded industrial residual contaminant levels (RCLs). The KEP site location is shown in Figure 1. Figure 2 depicts the CS areas and the locations of the CS2 area that is the focus of this report.

1.1 Purpose and Scope

The purpose of this report is to document the soil remediation conducted in the CS2 area of the KEP.

The scope of the remediation included:

- removal of the former concrete floors from the entire CS2 area so the impacted soils were accessible,
- the planned excavation of approximately 17,500 tons of contaminated soil from four discrete areas to depths of 12 feet below ground surface (bgs) and from two additional discrete areas to depths of four feet bgs; and
- The disposal of excavated impacted soil at Kestrel Hawk landfill in Racine, Wisconsin for bioremediation.

Post-excavation, the CS2 area was graded, covered with topsoil and seeded.

1.2 Project Participants

Site Owner: City of Kenosha
625 52nd Street, Room 305
Kenosha, WI 53140
Contact: Shelly Billingsley, P.E.
262-653-4050

Oversight Agencies
Wisconsin Department of Natural Resources
Southeast Region
141 NW Barstow St, Room 180
Waukesha, WI 53188
Contact: David Volkert
262-574-2166

US Environmental Protection Agency
Region V
77 W. Jackson Boulevard,
Chicago, Il 60606
Contact: Kyle Rogers

Consultant: AECOM
1555 RiverCenter Drive, Suite 214
Milwaukee, WI 53212
Contact: Lanette Altenbach, P.G.
414-944-6186

Laboratory: Pace Analytical Laboratory
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
Contact: Chris Hyska
920-321-9407

Soil Removal Contractor: A. W. Oakes & Son
2000 Oakes Road
Racine, WI 53406
Contact: Mike Newholm
262-866-4474

Soil Disposal Location: Republic Services
Kestrel Hawk Park Landfill
1989 Oakes Rd
Racine, WI 53406
(262) 884-7080

2.0 Project Background

The CS2 historical uses included (chronologically); a foundry, manufacturing of automotive parts, and most recently a warehouse. The subsurface at CS2 has historic fill consisting of foundry sand and former machine pits and trenches. The former machine pits and trenches were filled (or partially filled) with concrete. A steam tunnel (formerly connected) at the east side of the former Building 19 was identified as part of the CS1 evaluation of the steam tunnel under 60th Street, however, documentation of its full location, extent and abandonment was not available. Figure 3 depicts the location of the former steam tunnel based on current observations and historical maps. Figure 3 also depicts the foots prints of historical building formerly located on CS2. Below are soil and groundwater impacts that were seen in CS2:

Pre-Remediation Soil Impacts

- Petroleum volatile organic compounds (PVOCs) or diesel range organics (DRO) likely indicative of oil or oily soil in former Building 19 at GP-227, MW-200, MW-201 and MW-204.
- Industrial direct contact RCL exceedances occurred at GP-SL-59 (arsenic [over 100 milligrams per kilogram (mg/kg)] and PAHs) and at GP-213 (lead and arsenic).
- A benzo(a)pyrene exceedance above the industrial direct contact RCLs occurred at GP-221.

Pre-Remediation Groundwater Impacts

- LNAPL was measured in MW-200 and MW-204 at observed thicknesses of 0.2 to one foot. However, petroleum VOCs were not detected in the groundwater samples from the affected monitoring wells.
- Benzene was detected at concentrations above the enforcement standard (ES) in the groundwater sample from MW-201.
- Chlorinated VOCs were detected in the central and eastern portion of CS2. TCE concentrations were slightly above to slightly below the ES. Higher concentrations of the breakdown chlorinated VOCs, cis-1,2-dichloroethene and vinyl chloride were detected in groundwater samples from multiple wells.

A Remedial Action Options Report (RAOR) was prepared and submitted to the WDNR in April 2015. The selected alternative included for soil: excavation in select areas, surface capping, and/or institutional controls. Groundwater impacts except for LNAPL were not identified in CS2. The selected alternatives in the RAOR were approved by the WDNR in a letter dated June 18, 2015.

A Remedial Design Report (Soil) was prepared and submitted to the WDNR in June 2015 to provide additional details regarding the proposed soil remedial action activities. The overall objective for the soil remedial action is to address the direct contact exposure pathway while also reducing source area contaminant mass that could continue to serve as a source for ongoing groundwater impacts. As referenced in the SRDR, a separate remedial design report will be prepared to address residual groundwater impacts. Implementation of both the soil and groundwater remedial measures will be implemented in phases based on available funding sources and future site redevelopment plans.

CS2 was selected as the first phase of the soil remedial action because of the close proximity to the general public and because of the concentrations of petroleum and chlorinated constituents. Plans and specifications were prepared for soil remediation in the CS2 area in order to complete the remedial activities during the summer and early fall. The soil removal activities were publicly bid in June 2014 with a pre-bid meeting conducted on June 24, 2015. Bids were received from pre-qualified contractors and publicly opened on July 1, 2015. The lowest responsive bidder was awarded the contract by the Kenosha Common Council on July 6, 2015.

3.0 Construction Documentation

The soil remediation activities began on July 27, 2015 and were completed October 23, 2015 with the placement of topsoil and grass seed. The remedial activities included the following (in order of occurrence):

- Removed surface concrete from the six excavation areas and stockpiled on-site.
- Abandonment of monitoring wells MW-205, PZ-205, MW-203, PZ-203, MW-201, MW-200, PZ-200, MW-204, MW-48, and PZ-48.
- Excavated the soil in E32L, to depth of 12 feet bgs. Excavated soil was hauled off site to Kestrel Hawk landfill in Racine, Wisconsin for disposal.
- Excavated the soil in E30L, to depth of 12 feet bgs. Excavated soil was hauled off site to Kestrel Hawk landfill in Racine, Wisconsin for disposal.
- Excavated the soil in E29T, to depth of five feet bgs. Excavated soil was hauled off site to Kestrel Hawk landfill in Racine, Wisconsin for disposal. The depth of excavation was planned for four feet bgs, but the excavation was extended based on field observations of elevated PID readings.
- Excavated the soil in E28L, to depth of 12 feet bgs. Excavated soil was hauled off site to Kestrel Hawk landfill in Racine, Wisconsin for disposal.
- Excavated the soil in E31L, to depth of 12 feet bgs. Excavated soil was hauled off site to Kestrel Hawk landfill in Racine, Wisconsin for disposal.
- Excavated the soil in ECS2-Extra, to depth of 4 feet bgs. Excavated soil was hauled off site to Kestrel Hawk landfill in Racine, Wisconsin for disposal. This excavation was conducted to address WDNR's concern of naphthalene and DRO at concentrations above the groundwater pathway RCL and benzo(a)pyrene above the industrial direct contact RCL at soil boring GP-211.
- Backfilled and compacted excavations to approximately six feet below ground surface using stockpiled soil located in CS9 and soil from the perimeter berm located in CS7.
- Removed surface concrete from the remaining CS2 area. A portion of the concrete around MW-206 was retained to protect it from damage during the removal of surface and sub surface concrete. Lightly stained and unstained concrete was stockpiled in the designated area in CS8. Heavily stained concrete was removed and hauled off site to Kestrel Hawk landfill in Racine, Wisconsin for disposal.
- Former concrete building foundations, machine lines, piping, trenches, conduit, or other material encountered during removal of the concrete slab were removed or cut to approximately two feet below the finished grade.
- Permanent fencing was uninstalled along 30th Avenue and 60th Street
- Graded site in accordance with the site grading plan, installed specified storm water inlets, and connected inlets to existing storm sewer line.
- Modified monitoring well MW-206 from a stick-up well to flush-grade construction per the specifications and removed the remaining surface concrete around the monitoring well.
- Placed four inches of topsoil obtained from the City's topsoil stockpile located at 4710-4722 47th Avenue over the prepared CS2 subgrade.

- Permanent fence was reinstalled starting at a sliding gate located in northwest corner and continued along the north side and along the east side of CS2 which was connected back into the existing fence surrounding KEP.
- Seeded the disturbed areas; CS2, the CS7 berm and at the off-site topsoil borrow area. DOT seed mix #40 was sowed, mulch was spread and, erosion control measures were installed.
- These activities are described below and the excavation areas are depicted on Figures 4 and 5. Select photographs of the activities are included as Appendix A.

3.1 Pre-Remediation Activities

Asbestos Abatement

Asbestos-containing material (ACM) was identified prior to construction in a small section of concrete floor coating located within the CS2 area. SAFE Abatement For Everyone, Inc. was on-site on July 28, 2015 to perform the abatement and remove the material before excavation activities began. ACM removal documentation can be found in Appendix B.

Permits

As was stated in the *Soil Remedial Design Report* (AECOM), a Water Resources Applications for Project Permits was submitted to the WDNR. In addition to the WRAPP, a Storm Water Pollution Prevention and Erosion Control Plan was prepared that described best management practices that were used on-site for erosion control (based on WDNR guidance documents). In addition the contractor obtained the following permits:

- a City of Kenosha Application for Erosion Control
- a temporary sidewalk closure; and
- a Street Occupancy Permit.

3.2 Surface Pavement Removal

The contractor began on July 28, 2015 by cutting the surface concrete for the six excavations followed by cutting the perimeter of CS2. The perimeter outline of CS2 that was cut deviated slightly from the original outline that was submitted with the Technical Plans and Specifications. The deviation was required because of a 90 foot sliding gate that extends from the northwest corner southward parallel to 30th Avenue. The revised northwestern corner boundary became a line cut at a 40° diagonal extending from the south end of the gate and continued northeast until it connected with the planned northern boundary CS2. The revised perimeter is depicted on Figures 2-8. The excavation areas were cut using a concrete saw and the non-stained and lightly-stained concrete was removed with an excavator, starting with excavation E32L. After excavation E32L was exposed the contractor removed concrete from the other excavations in the following order: E30L, E29T, E28L, E31L, and ECS2-Extra. As surface concrete removal was conducted, another contractor crew excavated contaminated soil and placed it into trucks which then transported the contaminated soil offsite for disposal at Kestrel Hawk Landfill in Racine, WI. Each excavation is discussed in more detail below.

After the planned excavations of contaminated soil were completed, the contractor continued to remove the remaining surface concrete working from the west end of CS2 to the east end. The surface concrete thickness varied throughout the CS2 area. In some areas the excavator could easily remove the surface slab, but most often a breaker attached to a backhoe was used to break the thicker slabs into smaller pieces so that they could be easily removed (Photo 1). The non-stained to moderately-stained concrete was

removed, hauled and stockpiled at a specified area in CS8 while the heavily-stained concrete was removed and transported for offsite disposal at Kestrel Hawk Landfill in Racine, WI. 12.07 tons of heavily-stained concrete was disposed offsite. Disposal documentation is included as Appendix C. Along with the removal of the heavily-stained concrete, a small section of wooden bricks measuring approximately one foot by one foot were removed and taken to Kestrel Hawk.

3.3 Monitoring Well Abandonment

Monitoring wells were abandoned in general conformance with NR 141 (Wisconsin Administrative Code) by backfilling with bentonite before the surface concrete was removed. Later, the PVC of the monitoring wells that were located inside of planned excavations was cut and removed during excavation activities and transported to the landfill as demolition debris. As for the monitoring wells that were not located inside of planned excavations, the PVC was cut a minimum of 30-inches below finished grade. Well abandonment forms for wells MW-205, PZ-205, MW-203, PZ-203, MW-201, MW-200, PZ-200, MW-204, MW-48, and PZ-48 are included as Appendix D.

3.4 CS2 Excavations and Remediation Confirmation Sampling

The areas identified for excavation are shown on Figure 4 and are labeled as E28L through E32L. The excavation areas, as shown in the *Remedial Design Report (Soil)* that was submitted on June 12, 2015, were numbered for a consistent reference to a specific area because of the potential for the excavations to be conducted in phases; phases that have yet to be defined and will be dependent upon funding availability. Each excavation label also provides a letter used as an indication why the area was selected for excavation. The letter designations are:

- L - The presence of LNAPL or elevated petroleum concentrations (i.e., E30L);
- T - An area where TCE concentrations are above the selected criteria (i.e.,E29T);

Soil samples were collected from the excavation bottom and sidewalls. Sidewall samples were collected from approximately six feet bgs in E28L, E30L, E31L, and E32L and from two feet bgs in E29T. The sidewall samples were collected preferentially from stained areas on the sidewall, if present. Soil samples were submitted to Pace Analytical Services and analyzed for Volatile Organic Compounds (VOCs) and polycyclic aromatic hydrocarbons (PAHs). The laboratory analytical data was reviewed and validated. The laboratory analytical results are provided in Table 2 – Laboratory Analytical Results – Detected Volatile Organic Compounds in Soil Post – Excavation Samples – CS2 and Table 3 – Laboratory Analytical Results – Detected PAHs in Soil Post-Excavation Samples – CS2. Sample locations are depicted on Figure 5. Copies of the laboratory analytical reports and data validation are provided in Appendix E.

<u>Excavation E32L</u>

The excavation of E32L began on July 29, 2015. The concrete was removed and excavation began at the east side continued to the west. Several large concrete blocks measuring 6’ by 6’ by 5’ (Photo 2) were pulled out of the excavation along the southern edge. Several conical tanks filled with stone (Photo 3) and a large steel bin filled with stone (Photo 4) was also pulled out of the excavation. These tanks were found sporadically throughout the excavation and were removed and piled separately into a pile for recycling. The limits of the planned excavation were shortened by roughly 20 feet to the south because of low PID readings in samples collected along the sidewall indicated little soil impact. The excavation was completed on August 4, 2015.

Six sidewall samples and two bottom samples were collected from E32L.

No VOCs were detected above industrial RCLs in either the sidewall or bottom soil samples. Only benzo(a)pyrene was detected above industrial RCLs in the northeastern sidewall sample, E32L-SW-2, which was collected approximately 6 feet bgs and is below the direct contact zone.

Excavation 30L

The excavation of E30L began on August 6, 2015. The concrete was removed and the excavation started from the west side working east. Metal sheeting was discovered in the southeast corner of E30L (Photo 5). It formed an open-top box roughly 20' by 10' and contained a small conical tank that was filled with stone (Photo 6). A very small amount of residual LNAPL was observed inside of box and elevated PID readings were recorded. The LNAPL was mixed into the soil by the contractor and removed offsite.

The eastern side of the excavation was extended approximately 10 feet to the east because of elevated PID readings in samples collected along the sidewall which indicated that there was additional contaminated soil to be removed. The excavation was also extended vertically approximately 1.5 feet in an effort to remove more residual petroleum impact observed near the top of the water table. The excavation was completed on August 7, 2015.

Four sidewall samples and one bottom sample was collected from E30L. Because of the depth of the excavation the bottom sample was collected below the water table.

No VOCs or PAHs were detected above industrial RCLs in the sidewall or bottom soil samples.

Excavation E29T

The excavation of E29T began on August 7, 2015. The concrete was removed and contaminated soil excavation began at the west side and moved eastward. The excavation was bound to the north by a foundation wall at the northern boundary of CS2. The excavation was extended approximately six feet to the south because of elevated PID readings. A 12" in diameter PVC pipe was discovered running east to west along the northern boundary of E29T (Photo 7). The pipe's historic use is unknown. A section of pipe that ran through the excavation was removed but the section of pipe that continued outside of the limits of the excavation was left in place, as shown on Figure 6. The contractor stockpiled the concrete in the designated area in CS8 and the soil was transported to the landfill for disposal. The excavation was completed on August 10, 2015.

Four sidewall and one bottom sample was collected from E29T.

No VOCs or PAHs were detected above industrial RCLs in the sidewall or bottom soil samples.

Excavation E28L

The excavation of E28L began on August 10, 2015. The contractor started by breaking and removing the concrete then started digging at the west side and worked their way to the east. The excavation was bound to the north by a foundation wall and the northern boundary of CS2 and had a clay filled trench that ran east to west connecting E28L and E29T (Photo 8). The limits of the planned excavation were extended roughly 10 feet to the south for additional contaminated soil removal. The excavation was also extended vertically by 1.5 feet to remove more residual petroleum impact that was observed near the top of the water table. The contractor stockpiled the concrete in the designated area in CS8 and the soil was hauled off to the landfill for disposal. A 12" in diameter pipe was discovered running east to west along the northern boundary of E28L. The section of pipe that ran through the excavation was removed but the section of pipe that continued outside of the limits of the excavation was left in place, as shown on Figure 6. A minimal amount of water was observed coming from the pipe. The water was clear and no odor was present. The excavation was completed on August 11, 2015.

Four sidewall samples and one bottom sample was collected from E28L. Because of the depth of the excavation the bottom sample was collected below the water table. Only vinyl chloride was detected above industrial residual contaminant levels (RCLs) in the bottom sample.

PAHs were not detected above industrial RCLs in the sidewall or bottom soil samples.

Excavation 31L

The excavation of E31L began on August 11, 2015. The concrete was removed and excavation began at the west side and continued to the east. A hydraulic pump that had a small amount of residual oil in it was uncovered in the northeastern corner of the excavation (Photo 9). The pump was uncovered inside the excavation and the oil was mixed in with the contaminated soil and removed offsite. The hydraulic pump was separated out and was taken to the landfill as debris. As shown on Figure 4, this excavation was over a former loading dock. As the concrete was removed, a set of train tracks was uncovered (Photo 10) beneath the loading dock. The excavation was extended approximately eight feet to the north because of elevated PID readings were observed in samples collected along the sidewall. This observation indicated that more petroleum contaminated soil was present. A 48" in diameter pipe that ran east to west along the north side of the excavation (Photo 11) was removed. Water and a small amount of residual oil was observed coming out of the pipe and onto the soil inside of the excavation. The contractor mixed the oil and water into the contaminated soil and was removed offsite. The excavation was completed on August 13, 2015.

Four sidewall samples and one bottom sample was collected from E31L.

No VOCs were detected above industrial RCLs. Only benzo(a)pyrene was detected above industrial RCLs in the eastern sidewall sample, E31L-SW-3, which was collected approximately 6 feet bgs and is below the direct contact zone.

Added Excavation

This small excavation was added based on conversations with the WDNR after the review of the Site Investigation Report and RAOR. The location of the additional excavation is depicted in Figure 4. The excavation measured roughly 9 feet by 7 feet by 4 feet.

One bottom sample was collected from this excavation. No VOCs or PAHs were detected above industrial RCLs.

3.5 Excavation Backfilling

Backfilling began when the proposed extent and depth of each excavation was reached and confirmation samples were collected. The backfill material consisted of sand, silt and clay that was obtained from an approved off-site source in the City of Kenosha (Southport soils) and from silty sand contained in the perimeter berm in CS7. Each excavation was backfilled in the following manner. The backfill was dumped into the excavation by a truck load or was placed using a front-end loader. The backfill was placed in 12-inch lifts and compacted with a construction driver compactor (tamper plate on a backhoe). The tamper plate compactor was used in small and deeper areas. In the larger portion of the excavation a ramp was constructed so the roller compactor could drive into the excavation (Photo 12). The loads were continued in 12-inch lifts with compaction between each lift. The construction driver compactor was used to compact backfill near the edges. The initial lifts in each of the excavations used the Southport backfill, approximately 3,000 cubic yards, and the remainders of the excavations were backfilled with the perimeter berm soil from CS7up to 6' below ground surface, approximately 2,700 cubic yards.

3.6 Dust and Odor Mitigation Measures

Dust and odor mitigation was important throughout the duration of the CS2 excavation and site restoration work because of the location of the site and the proximity to the residents of the City of Kenosha. Due to the nature of the work, dust was generated and in some cases strong petroleum odors were present. Dust was controlled by the use of a water truck spraying at least twice per day, or as dust was observed. The contractor obtained water from the city via a fire hydrant that was located on the southeast side of the site.

The city received two odor complaints while site work was conducted. The odors were mitigated by covering the source area of the odor with cut soils from the work area after the contaminated soil was removed.

3.7 Erosion Control Measures

The Wisconsin Pollutant Discharge Elimination System (WPDES) for storm water runoff is regulated under the authority of s. NR 216, Wis. Adm. Code. As part of the USEPA National Pollutant Discharge Elimination System (NPDES), the WPDES Storm Water Program regulates discharge of storm water in Wisconsin from construction sites, industrial facilities, and selected municipalities. The horizontal extent of the soil remediation area (including the removal of the former building foundations) exposing erodible surface soil will exceed one acre; therefore, a Water Resources Application for Project Permits (WRAPP), formerly known as Storm Water Notice of Intent (NOI), was prepared and submitted to the WDNR. The WRAPP and related attachments will be submitted to the WDNR to obtain coverage under the state Construction Site Storm Water Runoff General Permit No. WI–S067831–4.

As part of completion of the WRAPP, a Storm Water Pollution Prevention and Erosion Control Plan was prepared that describes best management practices that will be used on-site for erosion control (based on WDNR's guidance documents).

3.8 Subsurface Concrete Removal

A meeting was conducted on site on August 31, 2015 to discuss the removal of subsurface concrete under the allowance bid item. Subsurface concrete consisted of foundation walls, foundation footers, tank pits, former machine lines, tunnels, etc. There were approximately six former machine trenches filled with concrete that were included in the subsurface category because of their shape and thickness. These machine lines ran east to west, were approximately six foot thick, and had a metal trench that ran lengthwise down the center (Photo 13). These machine lines were fully removed by the contractor and stockpiled on the concrete stockpile.

One tunnel was also encountered once the surface concrete was removed. This tunnel had a steel funnel (Photo 14) that was discovered when some of the stained concrete was removed. This tunnel was approximately 20 feet long and 8 feet deep, ran north to south, and was located just north of E30L. It had a steel door that separated it into two parts. The tunnel also contained chunks of concrete that were likely from the removal of the surface concrete and water (Photo 15). The entire tunnel including sidewalls and concrete slab were removed by the contractor and stockpiled on the concrete stockpile.

A buried loading dock was also discovered just to the north of another former loading dock. This dock was filled with sand and covered with a concrete slab. The dock had railcar tracks which extended into the center of the loading dock (Photo 16). The concrete slab that formed the base of the dock was left in place by the contractor because it was located two feet below finished grade. Figure 6 depicts the locations of subsurface concrete or other appurtenances that were left in place.

Another set of concrete bins were discovered on the western side of the site. There were a total of 6 bins that each measured roughly 10 feet by 10 feet and were six feet deep. Each bin was filled with sand and

sealed with a slab of concrete on top (Photo 17). The concrete walls were reinforced with rebar. The entire set of bins were removed by the contractor and stockpiled on the concrete stockpile.

A steel lined tank pit was also found just to the west of the former loading dock. The pit measured roughly 10 feet by 20 feet and was filled with stone and clear water (Photo 18). The contractor removed the concrete that surrounded the tank pit and stockpiled it on-site. The steel that was removed was piled separately and recycled with the rest of the scrap metal.

A large foundation wall that ran east to west was encountered along the southern edge of the site. The wall was reinforced with rebar. The contractor was able to break the wall down to two feet below finished grade and the rest of the wall was left in place, as shown in Figure 6.

A void was also discovered in the southwest corner of the site. The void measured approximately 60 feet by 15 feet and was eight feet deep. The void had a concrete slab bottom and a ladder that led down into the void (Photo 19). The walls of the void were removed to two feet below grade and the concrete slab at the bottom of the void was left in place. The void was then backfilled and compacted with a combination of cut soil and berm soil.

3.9 Removal of Subsurface Manufacturing Remnants

Along with the subsurface concrete removal, subsurface manufacturing remnants were encountered and removed. These remnants included abandoned pipes, abandoned sewer lines, tanks, etc. Several conical tanks, like the ones removed of the excavations, were uncovered at different locations around the site.

A steam tunnel was uncovered in the southeast corner of the site (Photo 20). This steam tunnel had several pipes running to the east (Photo 21) and had three vertical pipes sticking up to just below the surface of concrete. The pipes were removed to the best of the contractor's abilities and the concrete walls and bottom of the tunnel were removed as well.

A steel box full of water was also uncovered in the same area of the steam tunnel (Photo 22). It had a steel I-beam running across the top of it. The water was drained by the contractor and the steel box removed.

Another steel tank was pulled out of a concrete box in the northwestern corner of the site. The tank had residual water that had a strong petroleum odor to it. The water that came out of the tank was pumped by the contractor into a steel drum that was located on-site. The water was disposed through the on-site groundwater treatment systems.

3.10 CS2 Restoration

The contractor started grading the site once they had removed roughly 20 percent of the subsurface concrete. On October 5, 2015, the contractor used a bulldozer equipped with a global positioning system (GPS) so that they could grade the site according to the grading plan that was submitted in the technical plans and specifications. As shown in Figure 2, perimeter berm soil was used as fill for areas that below the established finished subgrade. Berm soil was only used where there was not enough cut soils in the surrounding area to bring it up to the final subgrade.

The contractor started the installation of the storm water inlets and piping on October 12, 2015. Two separate subsurface pipes were located within the planned path of the new storm water pipe. One 12" plastic pipe was encountered roughly 8' to the west of the existing manhole (Photo 23) and another 24" concrete pipe was encountered just outside of the CS2 remediation area (Photo 24). Each pipe was cut, a section removed to permit the new storm water line and then the ends of each of the abandoned pipes were bulkheaded on each side with brick and mortar. Two inlets were installed on the new storm water line, as directed in the Technical Plans and Specifications and as depicted on Figure 8.

Transportation of the topsoil from the offsite source area began on October 14, 2015 (Photo 25). The topsoil was transported to the KEP via dump truck and placed in CS2. Graders and spreaders pulverized the topsoil then spread the topsoil throughout the CS2 area. Screening of the topsoil at the source area was planned, but omitted with the approval of the City due to the source area site constraints. After the topsoil was spread, seeding, mulching, and installation of erosion protection occurred (Photo 26).

MW-206 was converted from a stick-up protector pipe to a flush grade protector pipe by the contractor. The steel stickup protector pipe was removed, the PVC casing was cut, and a flush grade monitoring well vault was installed around the PVC well casing. A two foot by two foot concrete pad was installed around the flush-mounted monitoring well in general conformance with the contract specifications.

Statewide Fencing removed the permanent fencing within the work area and installed temporary fencing in its place on October 1, 2015. After the site was graded and topsoil was placed, Statewide installed new permanent fencing in the new configuration as required by the contract specifications. As mentioned in Section 3.2, the perimeter of the CS2 remediation area had been modified due to the presence of a 90 foot long sliding gate on the 30th Avenue side of the KEP. The replacement permanent fencing was attached to the south end of the sliding gate and the fencing angled northward at a 40°angle until it intersected with the northern boundary of the CS2 area. The fence proceeded east along the northern CS2 area to the eastern extent of CS2. The fence then proceeded south to intersect the existing southern fencing west of the 60th Street access gate. The revised fence perimeter is shown in shown in Figure 8. The sidewalk along 30th Avenue and damaged sidewalk squares along 60th Street were replaced by the contractor as directed by the City.

4.0 Summary

The soil remedial excavations were completed in general conformance with the plans and specifications of the contract documents. Approximately 13,730 tons of petroleum impacted soil and approximately 1,070 tons of chlorinated-impacted soil was excavated from CS2 at the Kenosha Engine Plant. Soil samples were collected from the sidewalls and base of the excavation to document the post-excavation conditions. Detected concentrations of petroleum and chlorinated constituents were reported in some post-excavation soil samples, but the concentrations were far less than those of the excavated soil. The objective for the soil remedial action effectively addressed the direct contact exposure pathway and reduced contaminant mass within CS2 that would have been a barrier to redevelopment.

The impacted soils were removed and post-excavation soil samples were collected to document the remaining soil quality. Residual impacts detected only two industrial exceedances. One exceedance was vinyl chloride, detected in saturated soil at the water table (12 feet bgs) which may represent groundwater impact instead of soil residual impact. The second industrial exceedance was for one PAH, (benzo(a)pyrene, from a sample collected at six feet bgs. These impacts are well below the direct contact zone and are not a concern for future construction. The remedial action was successful and the eight acre area known as CS2 is now prepared for redevelopment.

5.0 References

AECOM, March 2011, *Phase I Environmental Site Assessment – Chrysler Kenosha Engine Plant.*

AECOM, August 2012, *Phase II Environmental Site Assessment CS2 – Chrysler Kenosha Engine Plant*

AECOM February 2015, *Site Investigation Report*, Former Kenosha Engine Plant

AECOM April 2015, *Remedial Action Options Report*, Former Kenosha Engine Plant

AECOM June 2015, *Remedial Design Report (Soil)*, Former Kenosha Engine Plant

United States Geological Survey, *7.5-Minute Topographic Map of the Kenosha, Wisconsin Quadrangle* – 1994. Scale=1:24,000.

6.0 General Qualifications

This CS2 Remedial Action Documentation report was prepared to document remedial activities conducted in a select area of the property. The results, conclusions and recommendations presented in this report are based upon the data obtained from the specific sampling locations and under the conditions stated in the report. This report should not be utilized for any purpose other than that specifically stated in evaluating the environmental character of the site at the time of the study.

Factual information regarding operations, conditions, regional geology and hydrogeology, and test data completed throughout the site assessment were obtained, in part from outside agents and third parties and have been assumed by AECOM to be correct and complete. Because some facts stated in this report are subject to professional interpretation, they could result in differing conclusions. In addition, the findings and conclusions contained in this report are based on various quantitative factors as they existed on or near the date during which the field work was completed.

AECOM assumes no responsibility for future discovery and elimination of hazards or their associated liabilities. The assessment conducted by AECOM in no way assures the elimination of all hazards or the fulfillment of a property owner's obligation under any local, state or federal laws or any modifications or changes thereto. It is the responsibility of the property owner to notify authorities of any future conditions that are in violation of the current legal standards.

AECOM has prepared this report at the request of the City of Kenosha. AECOM assumes responsibility for the accuracy of the report's contents, subject to what is stated elsewhere in this section, but recommends the report be used only for the purpose intended by our Client and AECOM when the report was prepared. The report may be unsuitable for other uses, and reliance on its contents by anyone other than our Client is done at the sole risk of the user. AECOM accepts no responsibility for application or interpretation of the results by anyone other than the City of Kenosha.

This report reflects conditions, as observed on the date(s) the site work was performed. Accordingly, changes or modifications to the property or surrounding facilities made after the assessment was completed are not reflected in this report.

Tables

Table 1
CS2 Soil Excavation
Summary of Soil Disposal and Backfill Quantities
Kenosha Engine Plant, Kenosha WI
AECOM Project 60440361

Impacted soil				Debris			
Date	Tons	Trucks	Tons/truck	Date	Tons	Loads	tons/truck
7/30/2015	687.39	32	21.48	7/31/2015	17.13	1	17.13
7/31/2015	849.71	40	21.24	10/20/2015	21.05	2	10.53
8/3/2015	1253.51	60	20.89				
8/4/2015	867.78	43	20.18				
8/5/2015	144.44	7	20.63				
8/6/2015	2,749.96	148	18.58				
8/7/2015	1,669.91	80	20.87				
8/10/2015	1,865.89	87	21.45				
8/11/2015	2,359.55	106	22.26				
8/12/2015	1,634.62	73	22.39				
8/13/2015	717.23	31	23.14				
Totals	14,799.99	707			38.18	3	

Table 2
Detected Volatile Organic Compounds, Post - Excavation Soil Samples
Kenosha Engine Plant

	Generic RCLs			E28L-B-5	E28L-SW-1	E28L-SW-2	E28L-SW-3	E28L-SW-4	E29T-B-5	E29T-SW-1	E29T-SW-2	E29T-SW-3	E29T-SW-4
	Direct Contact Pathway		Groundwater	(11-12)	(6-7)	(3-4)	(6-7)	(6-7)	(4-5)	(2-3)	(2-3)	(2-3)	(2-3)
Parameters	Non-Industrial	Industrial	Pathway	8/12/2015	8/11/2015	8/11/2015	8/11/2015	8/11/2015	8/10/2015	8/10/2015	8/10/2015	8/10/2015	8/10/2015
VOCs (µg/kg)													
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1382.1	<25	<25	<25	53.9 J	<25	37.1 J	<25	<25	<25	40.4 J
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	378	<25	<25	87.9	<25	<25	<25	<25	<25	353
Ethylbenzene	7,470	37,000	1570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.2	<40	<40	<40	84.2 J	59.6 J	99.2 J	<40	<40	<40	161 J
n-Butylbenzene	108,000	108,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	26.7 J
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	697	<25	<25	115	61.1 J	<25	135
Vinyl chloride	67	2,030	0.1	**3080**	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	95.8 J	<75	<75	<75	<75	<75	<75

Notes:

VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram.

Bold indicates Industrial Direct Contact exceedance

J = Estimated value

-- = No generic RCL established.

Generic RCLs Jan 2015 per WDNR PUB-RR-890.

non-detect results were reported on a wet weight basis.

E28L-B-5	Sample name
(11-12)	Sample depth below ground surface
8/12/2015	Date sample collected

Table 2
Detected Volatile Organic Compounds, Post - Excavation Soil Samples
Kenosha Engine Plant

	Generic RCLs			E30L-B-5	E30L-SW-1	E30L-SW-2	E30L-SW-3	E30L-SW-4	E31L-B-5	E31L-SW-1	E31L-SW-2	E31L-SW-3	E31L-SW-4
	Direct Contact Pathway		Groundwater	(12-13)	(3-4)	(6-7)	(6-7)	(6-7)	(10-11)	(3-4)	(6-7)	(6-7)	(6-7)
Parameters	Non-Industrial	Industrial	Pathway	8/7/2015	8/7/2015	8/7/2015	8/7/2015	8/7/2015	8/13/2015	8/13/2015	8/13/2015	8/13/2015	8/13/2015
VOCs (µg/kg)													
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1382.1	<25	<25	<25	96.2	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25	<25	<25	32.9 J	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.2	<40	<40	<40	311 J	<40	<40	<40	<40	<40	<40
n-Butylbenzene	108,000	108,000	--	<25	<25	<25	73.8 J	<25	<25	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	43.6 J	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75

Notes:

VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram.

Bold indicates Industrial Direct Contact exceedance

J = Estimated value

-- = No generic RCL established.

Generic RCLs Jan 2015 per WDNR PUB-RR-890.

non-detect results were reported on a wet weight basis.

E28L-B-5	Sample name
(11-12)	Sample depth below ground surface
8/12/2015	Date sample collected

Table 2
Detected Volatile Organic Compounds, Post - Excavation Soil Samples
Kenosha Engine Plant

	Generic RCLs			E32L-B-7	E32L-B-8	E32L-SW-1	E32L-SW-2	E32L-SW-3	E32L-SW-4	E32L-SW-5	E32L-SW-6	ECS2-EXTRA-B-1
	Direct Contact Pathway		Groundwater	(10-11)	(11-12)	(6-7)	(6-7)	(6-7)	(6-7)	(6-7)	(6-7)	(4-5)
Parameters	Non-Industrial	Industrial	Pathway	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/13/2015
VOCs (µg/kg)												
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	51.4 J
1,1-Dichloroethane	4,720	23,700	482.8	177	35.9 J	<25	<25	<25	<25	<25	<25	45.6 J
1,2,4-Trimethylbenzene	89,800	219,000	1382.1	<25	<25	112	<25	<25	128	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25	<25	<25	<25	<25	32.5 J	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	71.5	<25	<25	<25
Ethylbenzene	7,470	37,000	1570	41.1 J	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	57.3 J	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.2	<40	<40	320	<40	<40	200 J	83.8 J	<40	244 J
n-Butylbenzene	108,000	108,000	--	<25	<25	127	<25	<25	71.6	<25	<25	<25
n-Propylbenzene	264,000	264,000	--	99.8	<25	47.6 J	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	--	<25	<25	44 J	<25	<25	46.5 J	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25	<25	57.7 J	<25	<25	26.7 J	<25	<25	<25
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	<25	<25	31.4 J	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	492	<25	<25	<25	<25	72.6	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	<75	<75

Notes:
VOCs = Volatile Organic Compounds
ug/kg = Micrograms per kilogram.
Bold indicates Industrial Direct Contact exceedance
J = Estimated value
-- = No generic RCL established.
Generic RCLs Jan 2015 per WDNR PUB-RR-890.
non-detect results were reported on a wet weight basis.

E28L-B-5	Sample name
(11-12)	Sample depth below ground surface
8/12/2015	Date sample collected

Table 3
Detected Polycyclic Aromatic Hydrocarbons, Post - Excavation Soil Samples
Kenosha Engine Plant

	Generic RCLs			E28L-B-5	E28L-SW-1	E28L-SW-2	E28L-SW-3	E28L-SW-4	E29T-B-5	E29T-SW-1	E29T-SW-2	E29T-SW-3	E29T-SW-4
	Direct Contact Pathway		Groundwater	(11-12)	(6-7)	(3-4)	(6-7)	(6-7)	(4-5)	(2-3)	(2-3)	(2-3)	(2-3)
Parameters	Non-Industrial	Industrial	Pathway	8/12/2015	8/11/2015	8/11/2015	8/11/2015	8/11/2015	8/10/2015	8/10/2015	8/10/2015	8/10/2015	8/10/2015
PAHs (µg/kg)													
1-Methylnaphthalene	15,600	53,100	--	<10.5	<88.2	56.2	51.8 J	267	32	<8.7	<8.7	<43.2	189
2-Methylnaphthalene	229,000	2,200,000	--	<10.5	<88.2	125	86.9 J	363	36	<8.7	<8.7	<43.2	263
Acenaphthene	3,440,000	33,000,000	--	<10.5	<88.2	54.2	<44	<104	11.4 J	<8.7	<8.7	<43.2	278
Acenaphthylene	--	--	--	<9.4	<78.9	15 J	<39.3	175 J	<9.3	<7.8	<7.8	<38.6	14.3 J
Anthracene	17,200,000	100,000,000	197,727.30	<10.9	173 J	53.6	<45.6	169 J	<10.7	<9	<9	<44.8	163
Benzo(a)anthracene	148	2,110	--	<7.3	<61.1	<7.1	<30.5	<72	<7.2	<6	<6	<29.9	136
Benzo(a)pyrene	15	211	470	<7.5	<63.1	<7.3	41.2 J	<74.3	<7.4	<6.2	<6.2	<30.9	62.4
Benzo(b)fluoranthene	148	2,110	479.3	<10.5	<88.2	<10.2	<44	<104	<10.4	<8.7	<8.7	<43.2	91.2
Benzo(g,h,i)perylene	--	--	--	<8	<67.2	<7.8	<33.5	<79.1	<7.9	<6.6	<6.6	<32.9	18.5
Benzo(k)fluoranthene	1,480	21,100	--	<11.6	<97.6	<11.3	<48.6	<115	<11.5	<9.6	<9.6	<47.8	103
Chrysene	14,800	211,000	144.6	<9.7	<81.6 UJ	<9.5 UJ	72.4 J-	<96.1	10.4 J	<8.1	<8	<39.9	221
Dibenz(a,h)anthracene	15	211	--	<7.7	<64.7	<7.5	<32.2	<76.2	<7.6	<6.4	<6.4	<31.7	8.8 J
Fluoranthene	2,290,000	22,000,000	88,877.80	<10.5	<88.2	11.3 J	49.6 J	<104	11.7 J	<8.7	<8.7	<43.2	466
Fluorene	2,290,000	22,000,000	14802.7	<10.5	98.6 J	583	<44	1800	<10.4	<8.7	<8.7	<43.2	145
Indeno(1,2,3-cd)pyrene	148	2,110	--	<8	<67	<7.8	<33.4	<78.9	<7.9	<6.6	<6.6	<32.8	17.6
Naphthalene	5,150	26,000	658.2	<10.5	<88.2	93.5	64.3 J	<104	72.1	<8.7	<8.7	<43.2	129
Phenanthrene	--	--	--	<10.5	150 J	196	182	2080	30.8	<8.7	<8.7	<43.2	553
Pyrene	1,720,000	16,500,000	54,132.20	<10.5	<88.2	14.2 J	50.2 J	<104	10.5 J	<8.7	<8.7	<43.2	506

Notes:

PAHs = Polynuclear Aromatic Hydrocarbons

ug/kg = Micrograms per kilogram.

-- = No generic RCL established.

Generic RCLs Jan 2015 per WDNR PUB-RR-890.

Bold indicates Industrial Direct Contact exceedance

J = Estimated value

J- = Estimated biased low value

UJ = Estimated limit of detection (LOD).

E28L-B-5	Sample name
(11-12)	Sample depth below ground surface
8/12/2015	Date sample collected

Table 3
Detected Polycyclic Aromatic Hydrocarbons, Post - Excavation Soil Samples
Kenosha Engine Plant

	Generic RCLs			E30L-B-5	E30L-SW-1	E30L-SW-2	E30L-SW-3	E30L-SW-4	E31L-B-5	E31L-SW-1	E31L-SW-2	E31L-SW-3	E31L-SW-4
	Direct Contact Pathway		Groundwater	(12-13)	(3-4)	(6-7)	(6-7)	(6-7)	(10-11)	(3-4)	(6-7)	(6-7)	(6-7)
Parameters	Non-Industrial	Industrial	Pathway	8/7/2015	8/7/2015	8/7/2015	8/7/2015	8/7/2015	8/13/2015	8/13/2015	8/13/2015	8/13/2015	8/13/2015
PAHs (µg/kg)													
1-Methylnaphthalene	15,600	53,100	--	<10.5	<8.9	<104	1870	38.3	<10	10 J	<9.4	<73.6	<9.7
2-Methylnaphthalene	229,000	2,200,000	--	<10.5	10.8 J	116 J	2570	39.5	<10	24.4	12.6 J	<73.6	<9.7
Acenaphthene	3,440,000	33,000,000	--	<10.5	39.6	<104	437	13 J	<10	<9.8	<9.4	<73.6	<9.7
Acenaphthylene	--	--	--	<9.4	8.3 J	<93	357 J	<9.5	<9	<8.7	<8.4	<65.9	<8.7
Anthracene	17,200,000	100,000,000	197,727.30	<10.9	71.5	278	495	27.4	<10.4	<10.1	<9.7	440	<10.1
Benzo(a)anthracene	148	2,110	--	<7.3	102	<72	241 J	9.5 J	<7	<6.8	<6.5	661	<6.7
Benzo(a)pyrene	15	211	470	<7.5	116	<74.3	163 J	<7.6	<7.2	<7	<6.7	**523**	<6.9
Benzo(b)fluoranthene	148	2,110	479.3	<10.5	98.7	<104	<215	<10.6	<10	<9.8	<9.4	423	<9.7
Benzo(g,h,i)perylene	--	--	--	<8	76.6	<79.2	<163	<8.1	<7.7	<7.4	<7.1	129 J	<7.4
Benzo(k)fluoranthene	1,480	21,100	--	<11.6	108	<115	<237	<11.7	<11.1	<10.8	<10.4	680	<10.7
Chrysene	14,800	211,000	144.6	<9.7	128 J-	<96.1 UJ	417 J	60.7	<9.3	<9	<8.6	673	<9
Dibenz(a,h)anthracene	15	211	--	<7.7	27.1	<76.2	<157	<7.8	<7.4	<7.2	<6.9	62.9 J	<7.1
Fluoranthene	2,290,000	22,000,000	88,877.80	<10.5	282	149 J	355 J	23.3	<10	<9.8	<9.4	1490	<9.7
Fluorene	2,290,000	22,000,000	14802.7	<10.5	47.3	1130	1790	29.3	<10	<9.8	<9.4	<73.6	<9.7
Indeno(1,2,3-cd)pyrene	148	2,110	--	<8	69.8	<79	<163	<8	<7.6	<7.4	<7.1	146 J	<7.4
Naphthalene	5,150	26,000	658.2	<10.5	18	<104	649	11.7 J	<10	9.8 J	10.9 J	<73.6	<9.7
Phenanthrene	--	--	--	<10.5	229	1270	4130	145	<10	<9.8	13 J	371	<9.7
Pyrene	1,720,000	16,500,000	54,132.20	<10.5	222	135 J	546	56.2	<10	<9.8	<9.4	1180	<9.7

Notes:
PAHs = Polynuclear Aromatic Hydrocarbons
ug/kg = Micrograms per kilogram.
-- = No generic RCL established.
Generic RCLs Jan 2015 per WDNR PUB-RR-890.
Bold indicates Industrial Direct Contact exceedance
J = Estimated value
J- = Estimated biased low value
UJ = Estimated limit of detection (LOD).

E28L-B-5	Sample name
(11-12)	Sample depth below ground surface
8/12/2015	Date sample collected

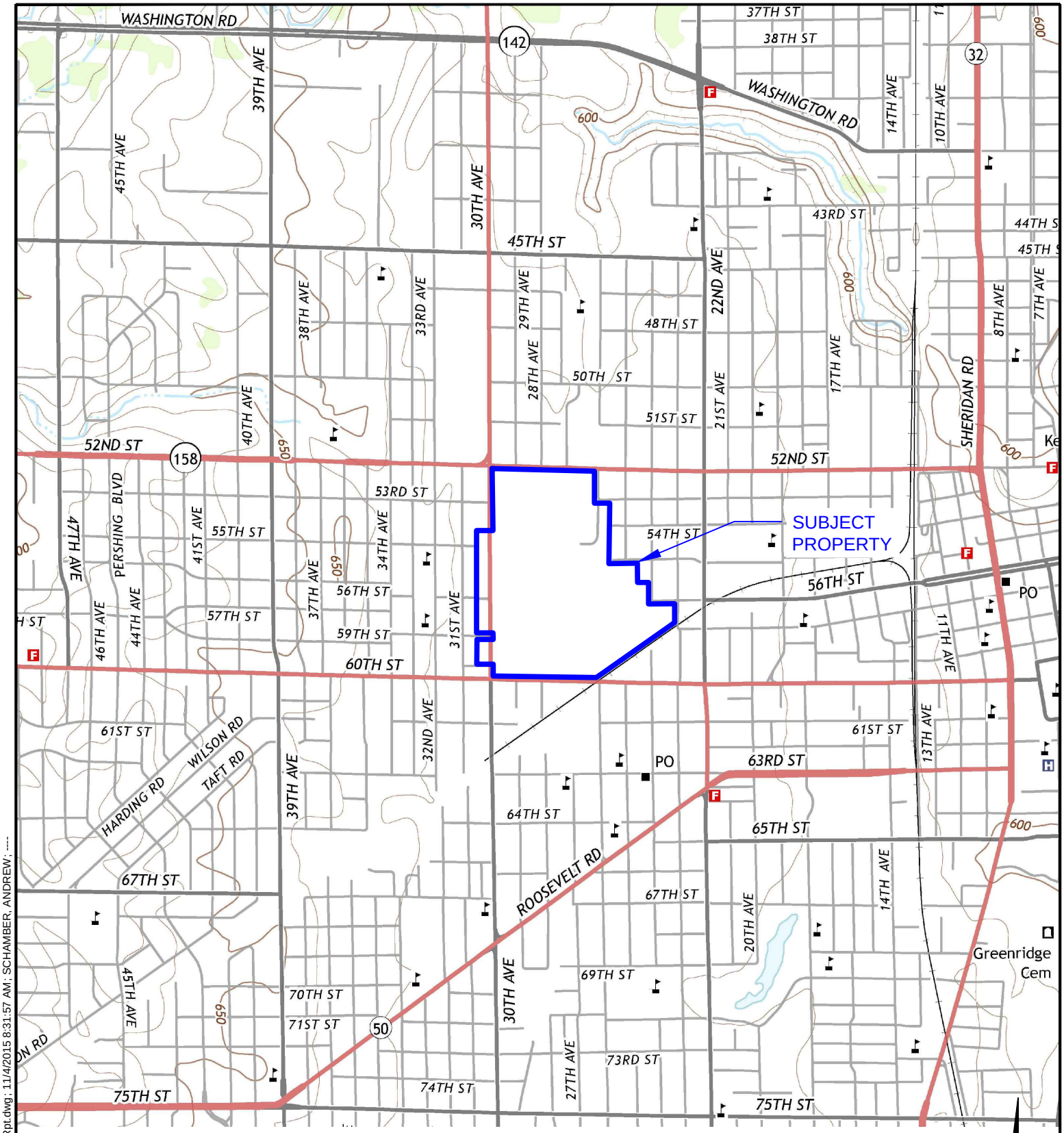
Table 3
Detected Polycyclic Aromatic Hydrocarbons, Post - Excavation Soil Samples
Kenosha Engine Plant

	Generic RCLs			E32L-B-7	E32L-B-8	E32L-SW-1	E32L-SW-2	E32L-SW-3	E32L-SW-4	E32L-SW-5	E32L-SW-6	ECS2-EXTRA B-1
	Direct Contact Pathway		Groundwater	(10-11)	(11-12)	(6-7)	(6-7)	(6-7)	(6-7)	(6-7)	(6-7)	(4-5)
Parameters	Non-Industrial	Industrial	Pathway	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/13/2015
PAHs (µg/kg)												
1-Methylnaphthalene	15,600	53,100	--	18.3 J	<10.4	958	25.6	<10	771	642	<10.6	192
2-Methylnaphthalene	229,000	2,200,000	--	<10.8	<10.4	1130	37.4	<10	739	258 J	<10.6	447
Acenaphthene	3,440,000	33,000,000	--	30.2	<10.4	619	43.5	<10	374	284 J	<10.6	108
Acenaphthylene	--	--	--	<9.7	<9.3	<163	24.1	<8.9	<158	<174	10.6 J	33.3 J
Anthracene	17,200,000	100,000,000	197,727.30	<11.2	<10.8	1660	47.4	<10.4	2110	495	13.8 J	190
Benzo(a)anthracene	148	2,110	--	<7.5	<7.2	<126	54.2	<6.9	185 J	<135	47.5	92.9
Benzo(a)pyrene	15	211	470	<7.7	<7.4	<130	**256**	<7.2	<126	<139	53.7	23 J
Benzo(b)fluoranthene	148	2,110	479.3	<10.8	<10.4	<182	198	<10	<176	<195	57.9	55.8
Benzo(g,h,i)perylene	--	--	--	<8.2	<7.9	<139	89.8	<7.6	<134	<148	33.5	<13.6
Benzo(k)fluoranthene	1,480	21,100	--	<12	<11.5	<202	126	<11.1	<195	<216	54.9	33.4 J
Chrysene	14,800	211,000	144.6	<10	<9.6	<169	152	<9.2	210 J	<180	76.9	141
Dibenz(a,h)anthracene	15	211	--	<7.9	<7.6	<134	88.8	<7.3	<129	<143	11.8 J	<13.1
Fluoranthene	2,290,000	22,000,000	88,877.80	<10.8	<10.4	369	124	<10	1250	<195	137	512
Fluorene	2,290,000	22,000,000	14802.7	15.1 J	<10.4	8050	89.2	<10	3220	1190	<10.6	65.4
Indeno(1,2,3-cd)pyrene	148	2,110	--	<8.2	<7.9	<139	89.9	<7.6	<134	<148	31	<13.5
Naphthalene	5,150	26,000	658.2	11.2 J	<10.4	266 J	31.6	<10	<176	<195	<10.6	988
Phenanthrene	--	--	--	<10.8	<10.4	8950	127	<10	7300	3620	80.2	1660
Pyrene	1,720,000	16,500,000	54,132.20	<10.8	<10.4	451	170	<10	1070	<195	117	322

Notes:
PAHs = Polynuclear Aromatic Hydrocarbons
ug/kg = Micrograms per kilogram.
-- = No generic RCL established.
Generic RCLs Jan 2015 per WDNR PUB-RR-890.
Bold indicates Industrial Direct Contact exceedance
J = Estimated value
J- = Estimated biased low value
UJ = Estimated limit of detection (LOD).

E28L-B-5	Sample name
(11-12)	Sample depth below ground surface
8/12/2015	Date sample collected

Figures



NOTES

1. TOPOGRAPHIC MAP FROM USGS:
   http://store.usgs.gov/b2c_usgs/usgs/maplocator/
   DATED 2013

1000 0 1000 2000
FEET

N

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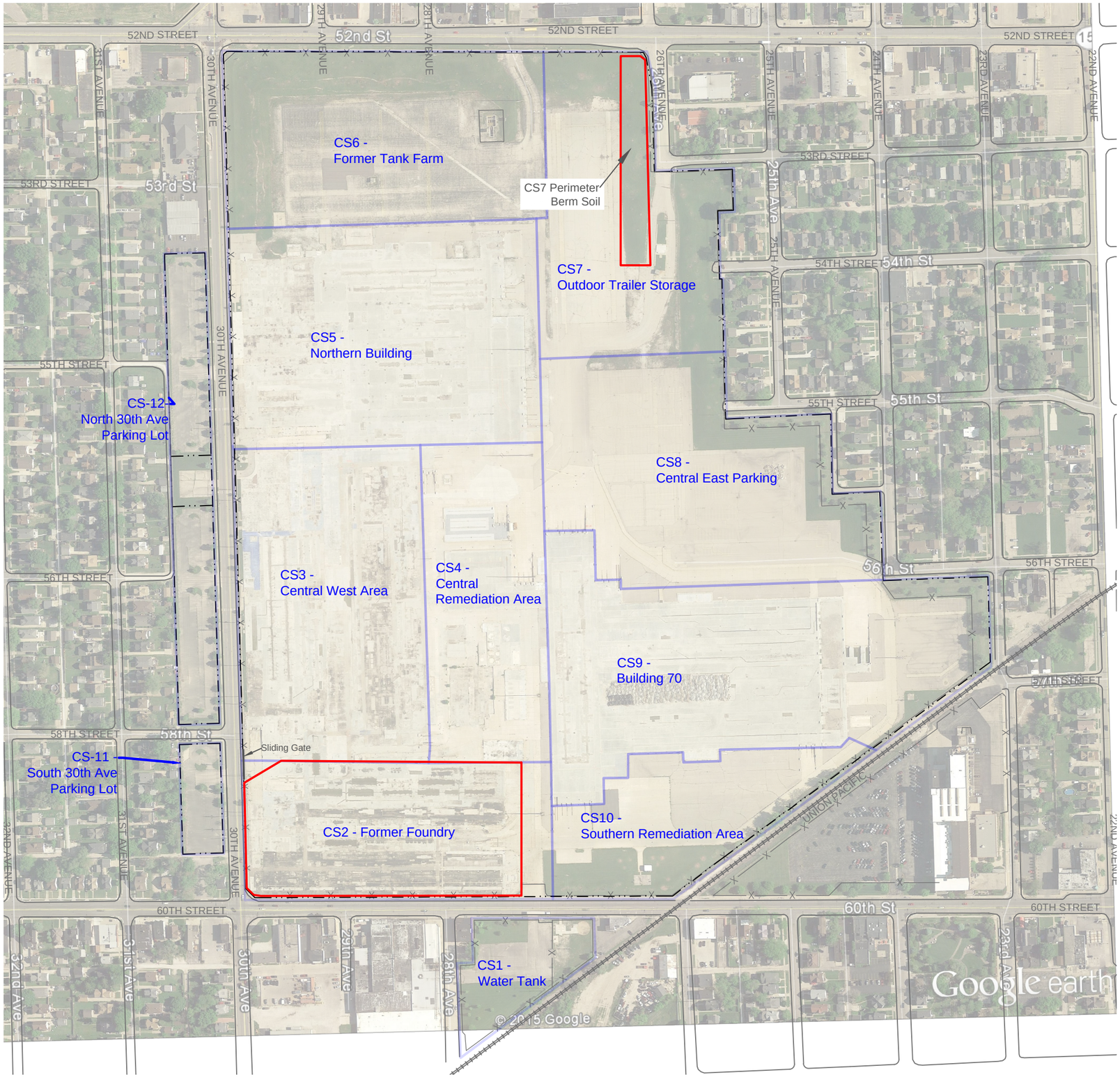
USGS TOPOGRAPHIC MAP
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	ARS	11/3/2015
Checked:	LLA	11/3/2015
Approved:	KWB	11/3/2015
PROJECT NUMBER	60440361	
FIGURE NUMBER	1	



LEGEND

- APPROXIMATE SITE BOUNDARY
- RAILROAD
- EXISTING FENCE
- INVESTIGATION AREA
- WORK AREA

NOTES

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO, IMAGE DATED 6/2/2015; DOWNLOADED ON 8/10/2015.
2. BORDER DISCONTINUITIES ARE DUE TO ANGLE OF 2015 AERIAL.

0' 320' 640'

SCALE

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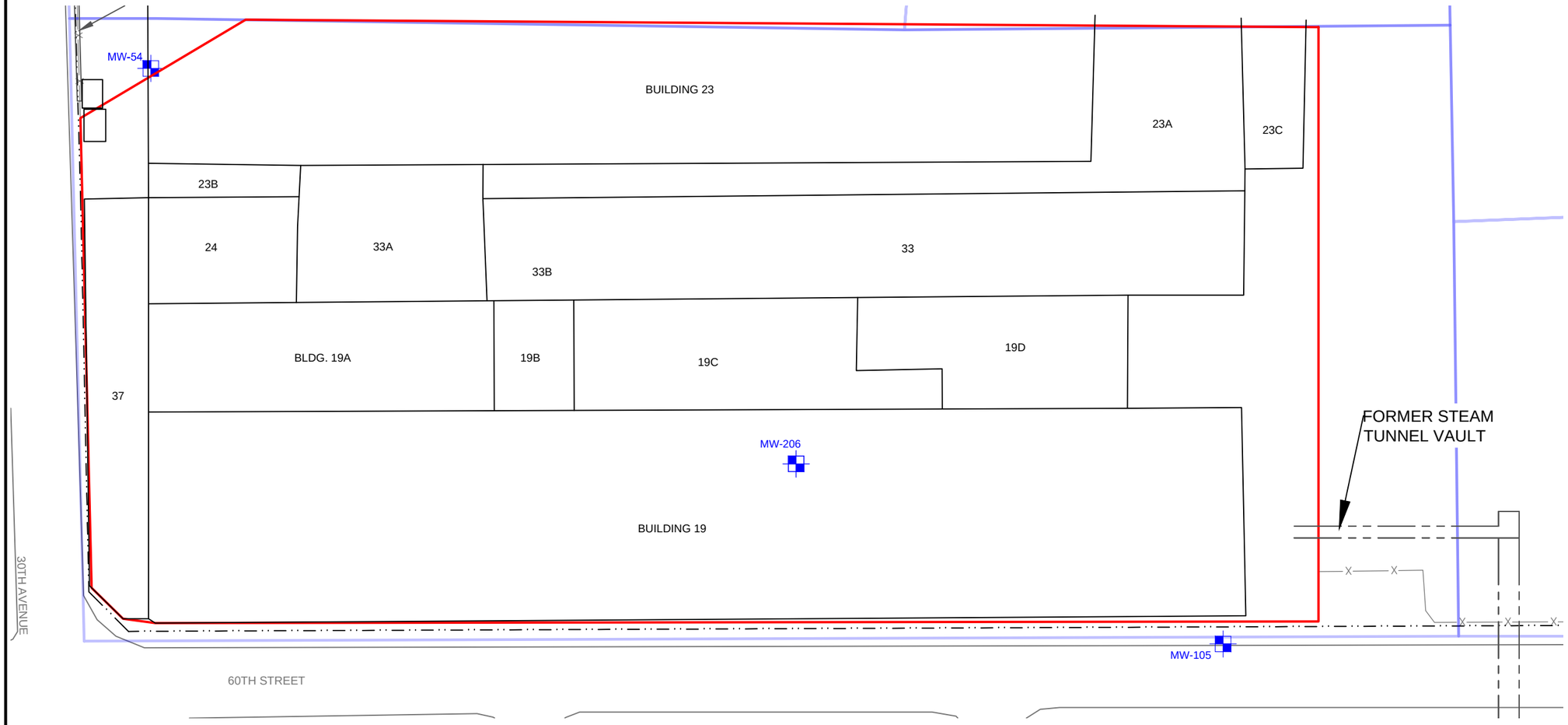
SITE LAYOUT
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	ARS	11/3/2015
Checked:	LLA	11/3/2015
Approved:	KWB	11/3/2015
PROJECT NUMBER	60440361	
FIGURE NUMBER	2	



LEGEND

- APPROXIMATE SITE BOUNDARY
- EXISTING FENCE
- INVESTIGATION AREA
- WORK AREA
- MONITORING WELL
- FORMER BUILDING

Notes
1.

0 80
1” = 80’

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HISTORICAL BUILDING LOCATIONS WITH APPROXIMATE STEAM TUNNEL LOCATION
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	ARS	2/16/2016
Checked:	LLA	2/16/2016
Approved:	KWB	2/16/2016
PROJECT NUMBER	60440361	
FIGURE NUMBER	3	

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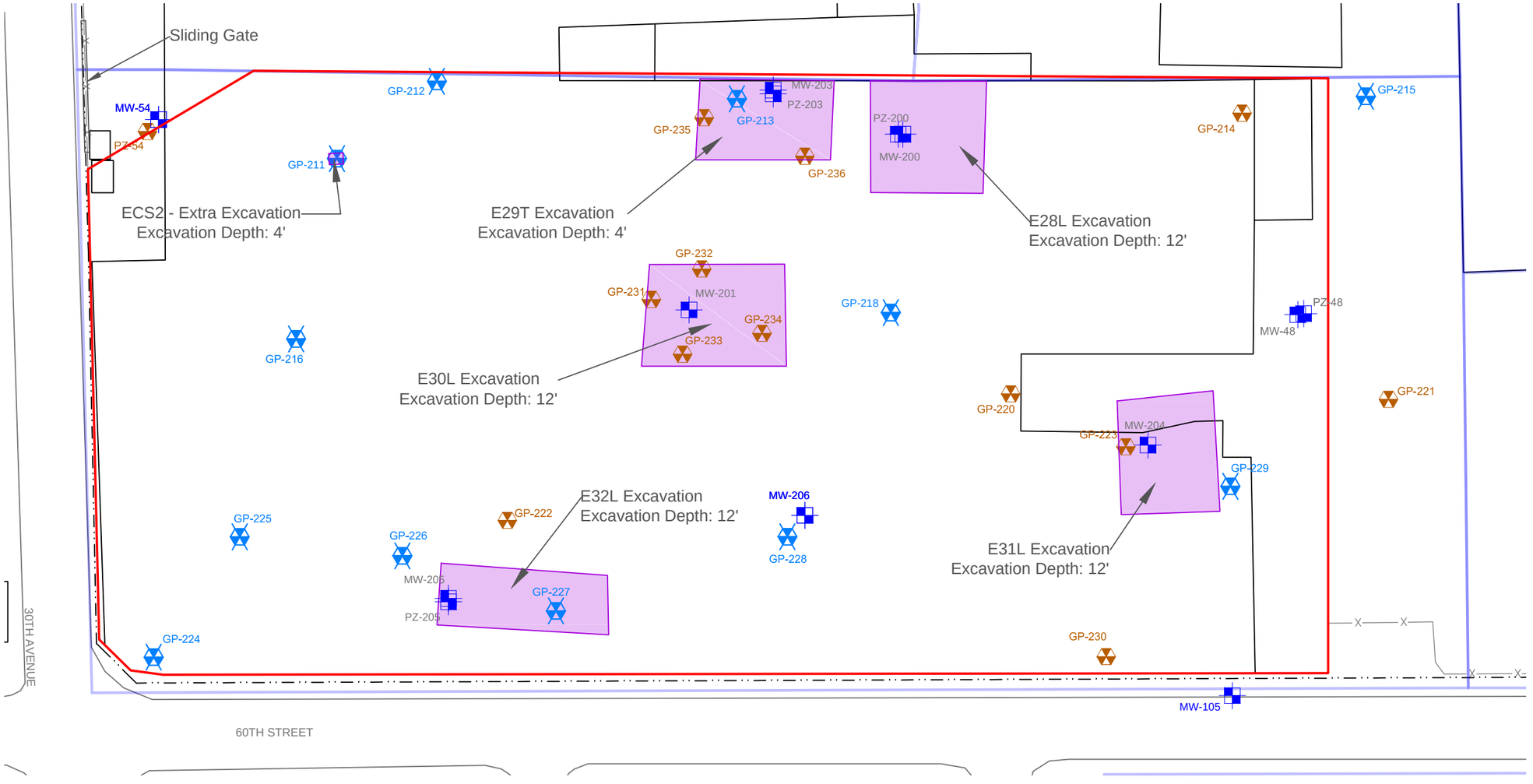

LEGEND

- APPROXIMATE SITE BOUNDARY
- EXISTING FENCE
- INVESTIGATION AREA
- WORK AREA
- MONITORING WELL
- GEOPROBE BORING
- TEMPORARY WELL
- EXCAVATION AREA

NOTES

1.

0 80

1" = 80'

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CS2 - SOIL REMEDIATION LOCATIONS
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	ARS	2/16/2016
Checked:	LLA	2/16/2016
Approved:	KWB	2/16/2016
PROJECT NUMBER	60440361	
FIGURE NUMBER	4	

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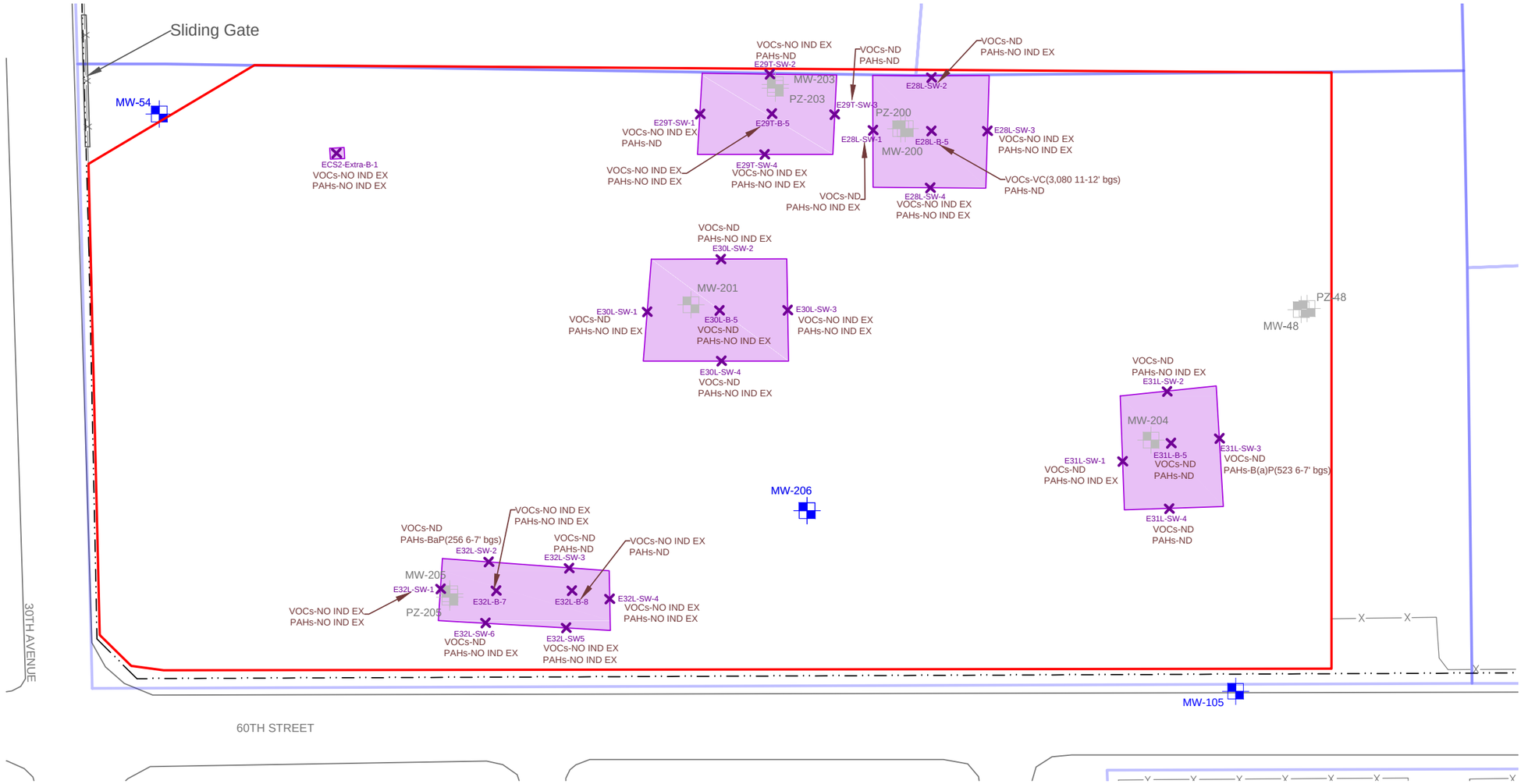

LEGEND

- APPROXIMATE SITE BOUNDARY
- EXISTING FENCE
- INVESTIGATION AREA
- WORK AREA
- MONITORING WELL
- ABANDONED MONITORING WELL
- EXCAVATION AREA
- EXCAVATION CONFIRMATION SAMPLE (E31L-SW-1)

NOTES

VOCs	VOLATILE ORGANIC COMPOUNDS
PAHs	POLYCYCLIC AROMATIC HYDROCARBONS
VC	VINYL CHLORIDE
BaP	BENZO(a)PYRENE
6-7' bgs	DEPTH OF SAMPLE IN FEET BELOW GROUND SURFACE

ND = None Detected
NO IND EX = No Industrial Residual Contaminant Level Exceedance, NR720 10 June, 2014

0 80
1" = 80'

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CS2 - CONFIRMATION SAMPLE RESULTS
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	ARS	2/16/2016
Checked:	LLA	2/16/2016
Approved:	KWB	2/16/2016
PROJECT NUMBER	60440361	
FIGURE NUMBER	5	

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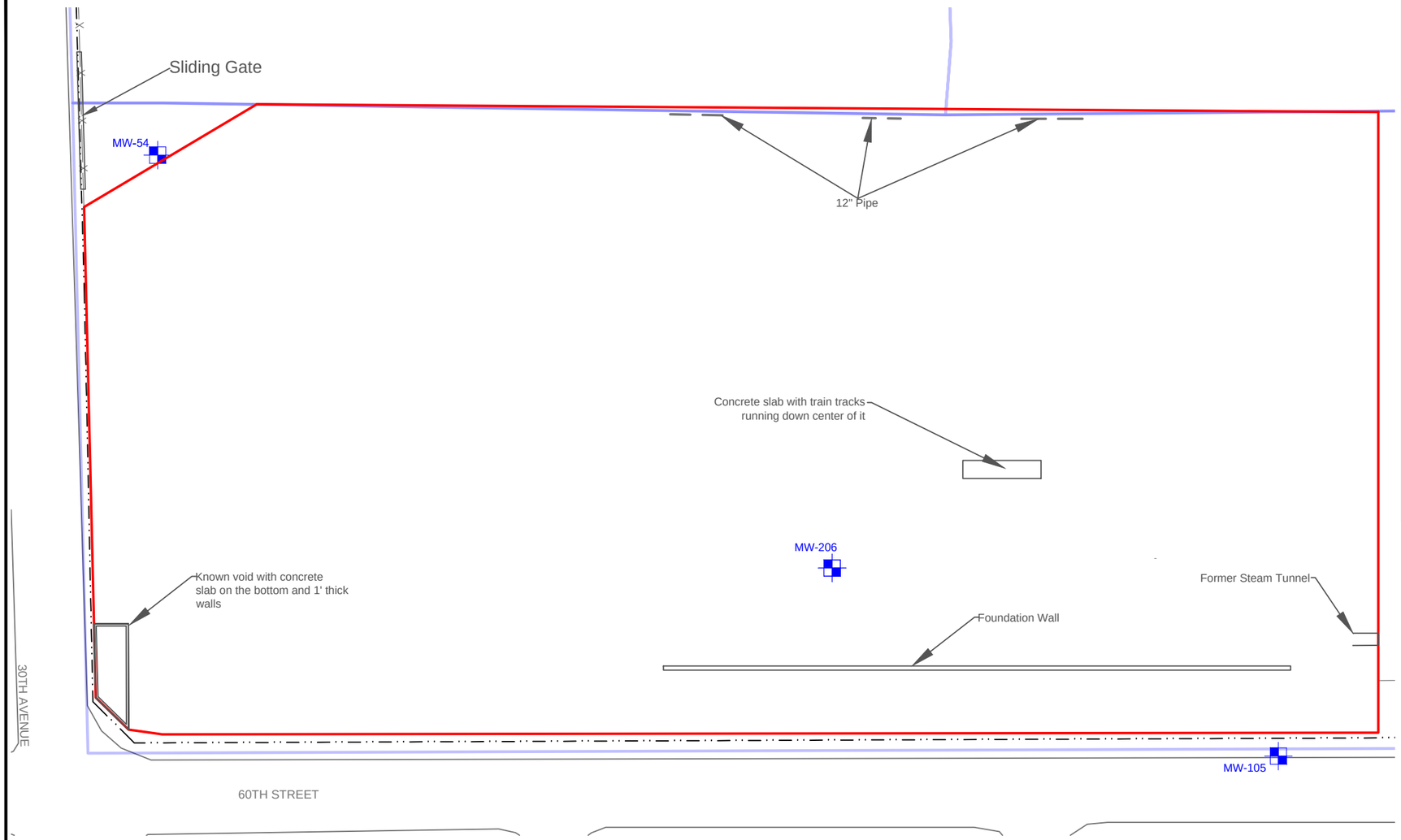

Remnant	Depth Below Grade	GPS Coordinates	
		Northing	Easting
Foundation Wall	2.5	219276.19	2580641.91
		219278.35	2581049.51
		219275.82	2580641.85
		219375.28	2581049.41
Slab with railcar tracks	3	219415.30	2580837.51
		219411.98	2580887.51
		219400.25	2580836.52
		219403.15	2580887.18
Void	4	219305.97	2580282.39
		219307.88	2580300.42
		219257.93	2580273.31
		219273.06	2580294.45
12" Pipe	2	219636.88	2580646.30
		219633.99	2580914.19
12" Pipe	2	219634.53	2580771.45
		219634.17	2580796.03
12" Pipe	2	219636.88	2580646.30
		219636.29	2580680.35

LEGEND

- APPROXIMATE SITE BOUNDARY
- EXISTING FENCE
- INVESTIGATION AREA
- WORK AREA
- MONITORING WELL
- PIPE

Notes

1. Horizontal Datum: NAP27 Wisconsin South
   Surveyed by AECOM

0 80

1" = 80'

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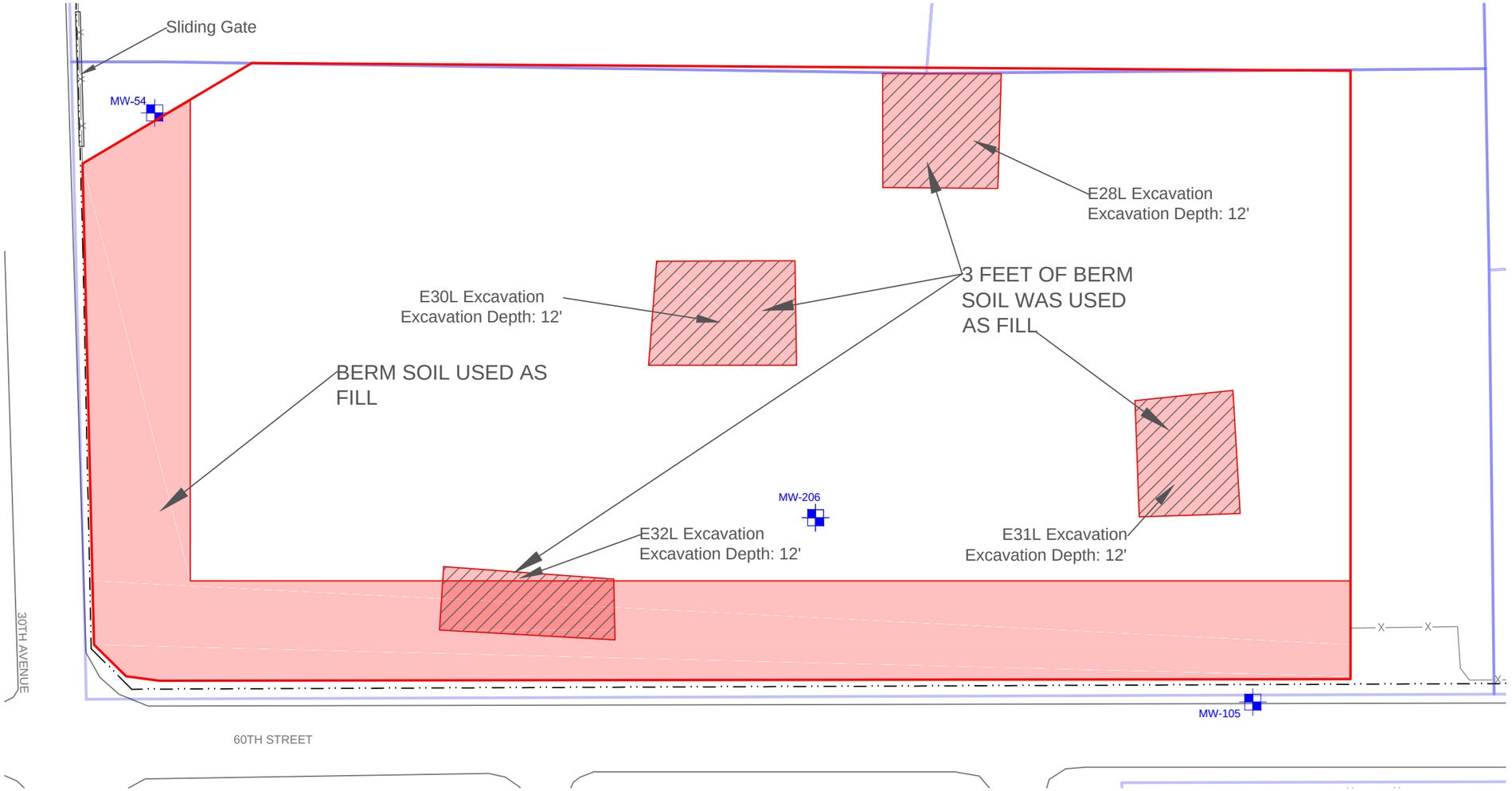
LOCATION OF SUBSURFACE MANUFACTURING REMNANTS
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	ARS	2/16/2016
Checked:	LLA	2/16/2016
Approved:	KWB	2/16/2016
PROJECT NUMBER	60440361	
FIGURE NUMBER	6	



LEGEND

- APPROXIMATE SITE BOUNDARY
- EXISTING FENCE
- INVESTIGATION AREA
- WORK AREA
- MONITORING WELL
- BERM SOIL LOCATIONS
- SOUTHPORT SOIL LOCATIONS

NOTES

1. SOUTHPORT SOIL FROM 8' BGS TO 12' BGS AND BERM SOIL FROM 8' BGS TO 5' BGS.

0 80

1" = 80'

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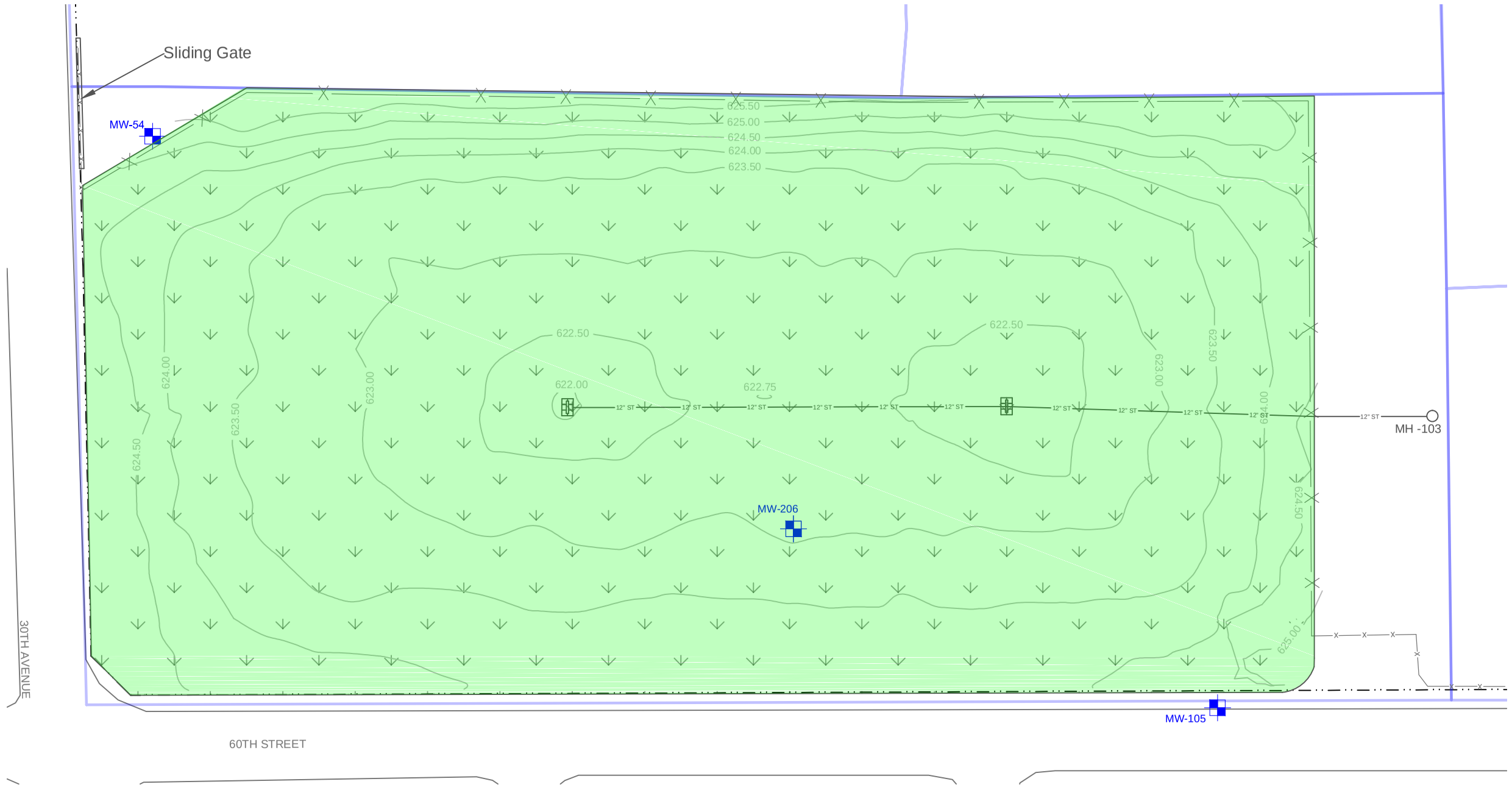
LOCATION OF BACKFILL SOIL
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	ARS	2/16/2016
Checked:	LLA	2/16/2016
Approved:	KWB	2/16/2016
PROJECT NUMBER	60440361	
FIGURE NUMBER	7	



LEGEND

- APPROXIMATE SITE BOUNDARY
- EXISTING FENCE
- INVESTIGATION AREA
- EXISTING MONITORING WELL
- SEEDED AREA
- STORMWATER INLETS
- 622.50 CONTOUR
- 12" ST STORMWATER PIPE

NOTES
1.

0 80
1" = 80'

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POST REMEDIATION CONDITIONS
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	ARS	2/16/2016
Checked:	LLA	2/16/2016
Approved:	KWB	2/16/2016
PROJECT NUMBER	60440361	
FIGURE NUMBER	8	

Appendix A

Photographic Log

AECOM

PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Kenosha Engine Plant CS2 Excavation	Kenosha, WI	60440361

Photo No. 1	Date: 8/14/15

Direction Photo Taken:
Looking South

Description:
Breaker attached to a backhoe that was used to break up the surface concrete into manageable pieces that could easily be removed.

Photo No. 2	Date: 7/29/15

Direction Photo Taken:
Looking South

Description:
Large concrete blocks that were pulled out of E32L. They were stockpiled on-site.

AECOM

PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Kenosha Engine Plant CS2 Excavation	Kenosha, WI	60440361

Photo No.	Date:
3	8/3/15

Direction Photo Taken:
Looking South

Description:
An example of a conical tank that was pulled out of E32L. These conical tanks were piled with the rest of the scrap metal and hauled off site for recycling.

Photo No.	Date:
4	8/3/15

Direction Photo Taken:
Looking East

Description:
Large steel bin that was removed from E32L. Bin was piled with the rest of the scrap metal and hauled off site for recycling.

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PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Kenosha Engine Plant CS2 Excavation	Kenosha, WI	60440361

Photo No.	Date:
5	8/4/15

Direction Photo Taken:
Looking Northeast

Description:
Metal sheeting that was discovered in the southeast corner of E30L. The sheeting was piled with the rest of the scrap metal and hauled off site for recycling.

Photo No.	Date:
6	8/4/15

Direction Photo Taken:
Looking Northwest

Description:
Small conical tank that was removed from the open topped metal box in E30L.

AECOM

PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Kenosha Engine Plant CS2 Excavation	Kenosha, WI	60440361

Photo No.	Date:
7	8/10/15

Direction Photo Taken:
Looking Northwest

Description:
12” PVC pipe that ran east to west that was removed from the north side of E29T.

Photo No.	Date:
8	8/10/15

Direction Photo Taken:
Looking West

Description:
Clay filled machine trench that connected E28L and E29T.

AECOM

PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Kenosha Engine Plant CS2 Excavation	Kenosha, WI	60440361

Photo No.	Date:
9	8/12/15

Direction Photo Taken:
Looking East

Description:
Hydraulic pump that was discovered inside of E31L. The pump was separated from the steel and taken offsite to the landfill as debris.

Photo No.	Date:
10	8/12/15

Direction Photo Taken:
Looking North

Description:
Set of railcar tracks inside of the former loading dock.

AECOM

PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Kenosha Engine Plant CS2 Excavation	Kenosha, WI	60440361

Photo No. 11	Date: 8/13/15

Direction Photo Taken:
Looking North

Description:
48" pipe removed from E31L. These pipes were piled with the rest of the scrap metal and hauled offsite to be recycled.

Photo No. 12	Date: 8/5/15

Direction Photo Taken:
Looking South

Description:
An example of the type of ramp that was constructed so that the front end loader and roller could safely enter the excavations.

AECOM

PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Kenosha Engine Plant CS2 Excavation	Kenosha, WI	60440361

Photo No.	Date:
13	8/14/15

Direction Photo Taken:
Looking South

Description:
Strips of concrete that were left and considered as subsurface concrete because of their thickness. These former machine lines also had metal trenches that ran down the center of them.

Photo No.	Date:
14	8/22/15

Direction Photo Taken:
Looking West

Description:
Steel funnel discovered underneath the stained concrete. The funnel led down to a tunnel that was separated into two parts via a steel door.

AECOM

PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Kenosha Engine Plant CS2 Excavation	Kenosha, WI	60440361

Photo No.	Date:
15	8/22/15

Direction Photo Taken:
Looking North

Description:
Tunnel discovered just north of E30L.

Photo No.	Date:
16	9/15/15

Direction Photo Taken:
Looking West

Description:
Loading dock with railcar tracks running down the center of it.

AECOM

PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Kenosha Engine Plant CS2 Excavation	Kenosha, WI	60440361

Photo No. 17	Date: 9/16/15

Direction Photo Taken:
Looking Southeast

Description:
Concrete bins that were discovered on the west side of CS2. These bins were reinforced with rebar and contained very fine grained sand.

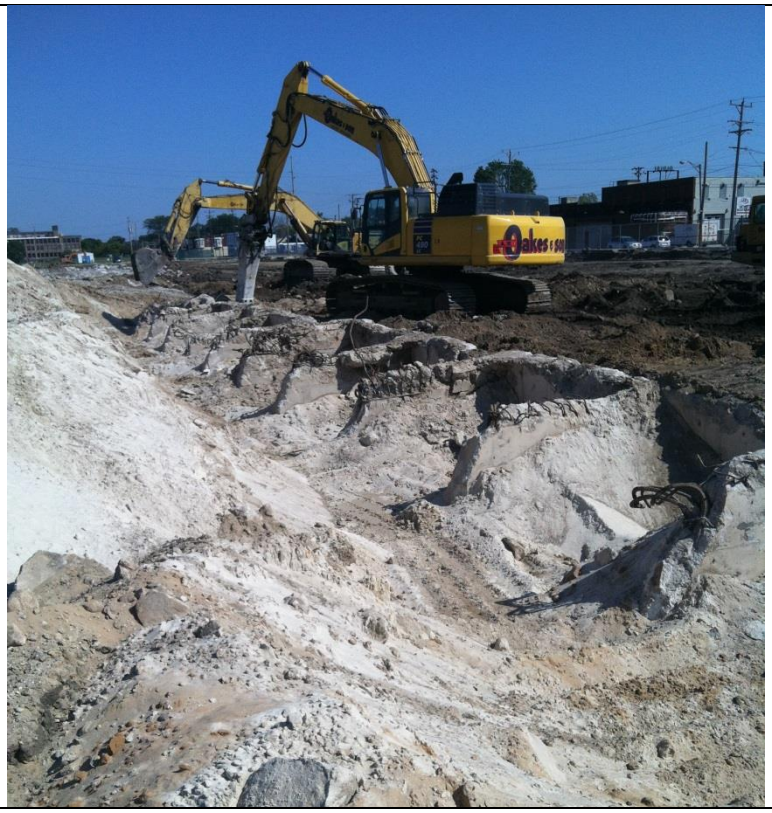

Photo No. 18	Date: 8/26/15

Direction Photo Taken:
Looking North

Description:
A pit discovered that measured roughly 10 feet by 20 feet and filled with stone and clear water.

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PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Kenosha Engine Plant CS2 Excavation	Kenosha, WI	60440361

Photo No. 19	Date: 8/22/15

Direction Photo Taken:
Looking Southeast

Description:
The known void in the southwest corner of CS2. The void had a concrete bottom and concrete sidewalls. The sidewalls were knocked down below 2 feet below the surface and the concrete floor was left in place.

Photo No. 20	Date: 8/25/15

Direction Photo Taken:
Looking East

Description:
Steam tunnel found in the southeast portion of CS2.

AECOM

PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Kenosha Engine Plant CS2 Excavation	Kenosha, WI	60440361

Photo No.	Date:
21	12/4/14

Direction Photo Taken:
Looking Southwest

Description:
Several pipes running east to west in the steam tunnel.

Photo No.	Date:
22	8/25/15

Direction Photo Taken:
Looking East

Description:
Steel box containing water discovered just to the east of the steam tunnel. The water was pumped out of the box by the contractor.

AECOM

PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Kenosha Engine Plant CS2 Excavation	Kenosha, WI	60440361

Photo No. 23	Date: 10/12/15

Direction Photo Taken:
Looking East

Description:
Plastic pipe discovered near manhole 103.

Photo No. 24	Date: 10/12/15

Direction Photo Taken:
Looking North

Description:
24” concrete pipe that was encountered while installing the storm water pipe.

PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Kenosha Engine Plant CS2 Excavation	Kenosha, WI	60440361

Photo No. 25	Date: 10/14/15
Direction Photo Taken: Looking North	
Description: Topsoil was loaded at the offsite topsoil site via backhoe and transported to CS2 by the truck load.	

Photo No. 26	Date: 10/26/15
Direction Photo Taken: Looking West	
Description: After the topsoil was placed, seed and mulch was placed as well as inlet protection installed.	

Appendix B

ACM Documentation

SAFE INC
safe abatement for everyone

MBE/DBE/SBE Certified Firm

Safe Abatement For Everyone, Inc.
1520 S. Sylvania Ave., Suite 305-306
Sturtevant, WI 53177
P: (262) 960-9552
F: (262) 654-7168
www.safeabatement.com

August 27, 2015

City of Kenosha
625 52nd St.
Kenosha, WI 53140

RE: Former Chrysler Engine Plant Site

Dear City of Kenosha:

Thank you for allowing us the opportunity to assist you with your environmental needs. We are pleased to inform you that we have completed the contracted work for the property referenced above.

Your waste was delivered to the Advanced Disposal Services Emerald Park Landfill, LLC located at W124 S10629 124th St., Muskego, WI 53150 under our profile #EPL2012-063. The Waste Shipment Record / Asbestos Manifest (#0022103) are attached for your records.

If there is anything we can do to further assist you or if you have any questions, please let us know.

Sincerely,

Craig Murdock
President

Attachment: Waste Disposal Manifest

1221645

WASTE SHIPMENT RECORD / ASBESTOS MANIFEST

WSR# 0022103

Generator

1-A. Special Waste Profile #: EBL 2012-063

1-B. 24 Hour Response Telephone Number:

1. Work Site Name and Mailing Address: City of Kenosha, Chrysler Engine Plant 3 & 6

Owner's Name: City of Kenosha

Owner's Phone No.:

2. Operator's Name and Address: SAFE Inc. 1505 S. Sylvania Ave. # 505 Sturtevant WI

Operator's Phone No.: 262-960-9552

3. Waste Disposal Site (WDS) Name, Mailing Address, and Physical Site Location
Advanced Disposal Services Emerald Park Landfill, LLC
W124 S10629 124th St., Muskego, WI 53150

WDS Phone No.: 414 / 529-1360

4. Name, and Address of Responsible Agency
U.S. Environmental Protection Agency, Region V
203 South Dearborn St. • Chicago, IL 60604

5. Description of Materials HAZARDOUS SUBSTANCE, SOLID N.O.S. (ASBESTOS) RQ ORM-E NA 9188	6. Containers No. Type	7. Total Quantity m^3 (yd^3)
Floor Tile	4 Bags	
		0.4 Mtn

8. Special Handling Instructions and Additional Information
24 HOUR NOTICE, MUST BE BURIED.

9. GENERATOR / OPERATOR CERTIFICATION: I hereby declare that the contains of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Printed / Typed Name & Title	Signature	Month Day Year
Craig Murdock		7-28-15

Transporter

10. Transporter 1 (Acknowledgment of Receipt of Materials)

Printed / Typed Name & Title Address and Telephone No.	Signature	Month Day Year
Craig Murdock		7-28-15

11. Transporter 2 (Acknowledgment of Receipt of Materials)

Printed / Typed Name & Title Address and Telephone No.	Signature	Month Day Year

Disposal Site

12. Discrepancy Indication Space

13. Waste Disposal Site Owner or Operator
Certification of receipt of asbestos materials covered by this manifest except as noted in item 12.

Printed / Typed Name & Title / Gate Attendant	Signature	Month Day Year
		7 28 15

North East Elevation

WHITE - Waste Disposal Site CANARY - Generator / Operator PINK - Transporter GOLD - Generator / Operator

EPI-002-94

Appendix C

Soil Disposal Documentation

Detail Customer Activity Report

All Ticket Types | July 01, 2015 to September 14, 2015

History and Waiting | Specific Customer: 100053

100053- CITY OF KENOSHA

Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
07/27/2015	I	01	960737 3063159433	J24		SW-CONT SOIL-ALT DAILY	11.00	F	24.74	TN
07/27/2015	I	01	960738 3063159433	J44		SW-CONT SOIL-ALT DAILY	11.00	F	25.74	TN
07/27/2015	I	01	960741 3063159433	J5		SW-CONT SOIL-ALT DAILY	11.00	F	18.99	TN
07/27/2015	I	01	960744 3063159433	EWJ181		SW-CONT SOIL-ALT DAILY	11.00	F	26.10	TN
07/27/2015	I	01	960748 3063159433	J24		SW-CONT SOIL-ALT DAILY	11.00	F	22.32	TN
07/27/2015	I	01	960750 3063159433	J5		SW-CONT SOIL-ALT DAILY	11.00	F	19.62	TN
07/27/2015	I	01	960753 3063159433	J44		SW-CONT SOIL-ALT DAILY	11.00	F	24.89	TN
07/27/2015	I	01	960758 3063159433	EWJ181		SW-CONT SOIL-ALT DAILY	11.00	F	26.76	TN
07/27/2015	I	01	960765 3063159433	J24		SW-CONT SOIL-ALT DAILY	11.00	F	22.26	TN
07/27/2015	I	01	960772 3063159433	J5		SW-CONT SOIL-ALT DAILY	11.00	F	21.07	TN
07/27/2015	I	01	960775 3063159433	J44		SW-CONT SOIL-ALT DAILY	11.00	F	26.17	TN
07/27/2015	I	01	960783 3063159433	EWJ181		SW-CONT SOIL-ALT DAILY	11.00	F	22.07	TN
07/27/2015	I	01	960791 3063159433	J24		SW-CONT SOIL-ALT DAILY	11.00	F	21.58	TN
07/27/2015	I	01	960797 3063159433	J44		SW-CONT SOIL-ALT DAILY	11.00	F	23.92	TN
07/27/2015	I	01	960798 3063159433	H14		SW-CONT SOIL-ALT DAILY	11.00	F	21.94	TN
07/27/2015	I	01	960801 3063159433	EWJ181		SW-CONT SOIL-ALT DAILY	11.00	F	22.92	TN
07/27/2015	I	01	960804 3063159433	J24		SW-CONT SOIL-ALT DAILY	11.00	F	24.49	TN
07/27/2015	I	01	960806 3063159433	J2		SW-CONT SOIL-ALT DAILY	11.00	F	22.24	TN
07/27/2015	I	01	960811 3063159433	H14		SW-CONT SOIL-ALT DAILY	11.00	F	22.78	TN
07/27/2015	I	01	960812 3063159433	J44		SW-CONT SOIL-ALT DAILY	11.00	F	23.15	TN
07/27/2015	I	01	960824 3063159433	EWJ181		SW-CONT SOIL-ALT DAILY	11.00	F	22.93	TN
07/27/2015	I	01	960827 3063159433	J24		SW-CONT SOIL-ALT DAILY	11.00	F	25.16	TN
07/27/2015	I	01	960832 3063159433	H25		SW-CONT SOIL-ALT DAILY	11.00	F	24.18	TN
07/27/2015	I	01	960833 3063159433	H14		SW-CONT SOIL-ALT DAILY	11.00	F	21.30	TN
07/27/2015	I	01	960836 3063159433	J44		SW-CONT SOIL-ALT DAILY	11.00	F	25.48	TN
07/27/2015	I	01	960839 3063159433	EWJ181		SW-CONT SOIL-ALT DAILY	11.00	F	24.37	TN
07/27/2015	I	01	960841 3063159433	J24		SW-CONT SOIL-ALT DAILY	11.00	F	24.55	TN
07/27/2015	I	01	960843 3063159433	H25		SW-CONT SOIL-ALT DAILY	11.00	F	23.75	TN
07/28/2015	I	01	960854 3063159433	J24		SW-CONT SOIL-ALT DAILY	11.00	F	19.66	TN
07/28/2015	I	01	960856 3063159433	J4		SW-CONT SOIL-ALT DAILY	11.00	F	22.95	TN
07/28/2015	I	01	960857 3063159433	J2		SW-CONT SOIL-ALT DAILY	11.00	F	20.55	TN
07/28/2015	I	01	960858 3063159433	JG22710		SW-CONT SOIL-ALT DAILY	11.00	F	23.40	TN
07/28/2015	I	01	960859 3063159433	H25		SW-CONT SOIL-ALT DAILY	11.00	F	21.08	TN
07/28/2015	I	01	960861 3063159433	EWJ181		SW-CONT SOIL-ALT DAILY	11.00	F	21.21	TN
07/28/2015	I	01	960866 3063159433	J24		SW-CONT SOIL-ALT DAILY	11.00	F	22.43	TN
07/28/2015	I	01	960867 3063159433	JG22710		SW-CONT SOIL-ALT DAILY	11.00	F	22.40	TN
07/28/2015	I	01	960869 3063159433	J4		SW-CONT SOIL-ALT DAILY	11.00	F	20.94	TN

100053- CITY OF KENOSHA

Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
07/28/2015	I 01	960870	3063159433	J2		SW-CONT SOIL-ALT DAILY	11.00	F	22.88	TN

100053- CITY OF KENOSHA

Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
07/28/2015	I 01	960871	3063159433	H25		SW-CONT SOIL-ALT DAILY	11.00	F	22.49	TN
07/28/2015	I 01	960877	3063159433	EWJ181		SW-CONT SOIL-ALT DAILY	11.00	F	21.88	TN
07/28/2015	I 01	960886	3063159433	J24		SW-CONT SOIL-ALT DAILY	11.00	F	21.21	TN
07/28/2015	I 01	960887	3063159433	J4		SW-CONT SOIL-ALT DAILY	11.00	F	23.14	TN
07/28/2015	I 01	960888	3063159433	JG22710		SW-CONT SOIL-ALT DAILY	11.00	F	21.09	TN
07/28/2015	I 01	960889	3063159433	J2		SW-CONT SOIL-ALT DAILY	11.00	F	22.29	TN
07/28/2015	I 01	960891	3063159433	H25		SW-CONT SOIL-ALT DAILY	11.00	F	22.76	TN
07/28/2015	I 01	960897	3063159433	EWJ181		SW-CONT SOIL-ALT DAILY	11.00	F	24.80	TN
07/28/2015	I 01	960903	3063159433	J24		SW-CONT SOIL-ALT DAILY	11.00	F	22.07	TN
07/28/2015	I 01	960906	3063159433	J4		SW-CONT SOIL-ALT DAILY	11.00	F	23.74	TN
07/28/2015	I 01	960908	3063159433	JG22710		SW-CONT SOIL-ALT DAILY	11.00	F	24.05	TN
07/28/2015	I 01	960909	3063159433	J2		SW-CONT SOIL-ALT DAILY	11.00	F	22.40	TN
07/28/2015	I 01	960910	3063159433	H25		SW-CONT SOIL-ALT DAILY	11.00	F	23.37	TN
07/28/2015	I 01	960919	3063159433	EWJ181		SW-CONT SOIL-ALT DAILY	11.00	F	22.83	TN
07/28/2015	I 01	960921	3063159433	J24		SW-CONT SOIL-ALT DAILY	11.00	F	24.37	TN
07/28/2015	I 01	960922	3063159433	J4		SW-CONT SOIL-ALT DAILY	11.00	F	22.99	TN
07/28/2015	I 01	960923	3063159433	JG22710		SW-CONT SOIL-ALT DAILY	11.00	F	23.49	TN
07/28/2015	I 01	960925	3063159433	J2		SW-CONT SOIL-ALT DAILY	11.00	F	22.97	TN
07/28/2015	I 01	960933	3063159433	EWJ181		SW-CONT SOIL-ALT DAILY	11.00	F	26.18	TN
07/28/2015	I 01	960934	3063159433	J24		SW-CONT SOIL-ALT DAILY	11.00	F	25.79	TN
07/28/2015	I 01	960936	3063159433	J4		SW-CONT SOIL-ALT DAILY	11.00	F	22.41	TN
07/28/2015	I 01	960937	3063159433	JG22710		SW-CONT SOIL-ALT DAILY	11.00	F	21.11	TN
07/28/2015	I 01	960939	3063159433	J2		SW-CONT SOIL-ALT DAILY	11.00	F	22.64	TN
07/28/2015	I 01	960952	3063159433	J24		SW-CONT SOIL-ALT DAILY	11.00	F	19.93	TN
07/28/2015	I 01	960954	3063159433	EWJ181		SW-CONT SOIL-ALT DAILY	11.00	F	20.96	TN
07/28/2015	I 01	960955	3063159433	J4		SW-CONT SOIL-ALT DAILY	11.00	F	22.73	TN
07/28/2015	I 01	960956	3063159433	JG22710		SW-CONT SOIL-ALT DAILY	11.00	F	22.39	TN
07/28/2015	I 01	960957	3063159433	J2		SW-CONT SOIL-ALT DAILY	11.00	F	21.91	TN
07/28/2015	I 01	960960	3063159433	J24		SW-CONT SOIL-ALT DAILY	11.00	F	21.29	TN
07/29/2015	I 01	960965	3063159433	EAS70		SW-CONT SOIL-ALT DAILY	11.00	F	21.02	TN
07/29/2015	I 01	960966	3063159433	H31		SW-CONT SOIL-ALT DAILY	11.00	F	21.42	TN
07/29/2015	I 01	960967	3063159433	H157		SW-CONT SOIL-ALT DAILY	11.00	F	25.54	TN
07/29/2015	I 01	960969	3063159433	JG22710		SW-CONT SOIL-ALT DAILY	11.00	F	20.05	TN
07/29/2015	I 01	960972	3063159433	H99		SW-CONT SOIL-ALT DAILY	11.00	F	22.76	TN
07/29/2015	I 01	960973	3063159433	STR99		SW-CONT SOIL-ALT DAILY	11.00	F	19.88	TN
07/29/2015	I 01	960975	3063159433	MP008		SW-CONT SOIL-ALT DAILY	11.00	F	20.05	TN
07/29/2015	I 01	960976	3063159433	MP010		SW-CONT SOIL-ALT DAILY	11.00	F	20.91	TN
07/29/2015	I 01	960978	3063159433	MP009		SW-CONT SOIL-ALT DAILY	11.00	F	19.59	TN
07/29/2015	I 01	960985	3063159433	J70		SW-CONT SOIL-ALT DAILY	11.00	F	21.79	TN

Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
100053- CITY OF KENOSHA										
Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
07/29/2015	I	01 960989	3063159433	JG22710		SW-CONT SOIL-ALT DAILY	11.00	F	22.61	TN
07/29/2015	I	01 960991	3063159433	H31		SW-CONT SOIL-ALT DAILY	11.00	F	23.41	TN
07/29/2015	I	01 960992	3063159433	H157		SW-CONT SOIL-ALT DAILY	11.00	F	24.51	TN
07/29/2015	I	01 960995	3063159433	STR99		SW-CONT SOIL-ALT DAILY	11.00	F	22.75	TN
07/29/2015	I	01 960998	3063159433	H99		SW-CONT SOIL-ALT DAILY	11.00	F	21.27	TN
07/29/2015	I	01 961000	3063159433	MP008		SW-CONT SOIL-ALT DAILY	11.00	F	19.52	TN
07/29/2015	I	01 961003	3063159433	MP009		SW-CONT SOIL-ALT DAILY	11.00	F	18.50	TN
07/29/2015	I	01 961004	3063159433	MP010		SW-CONT SOIL-ALT DAILY	11.00	F	20.14	TN
07/29/2015	I	01 961011	3063159433	J70		SW-CONT SOIL-ALT DAILY	11.00	F	23.19	TN
07/29/2015	I	01 961013	3063159433	JG22710		SW-CONT SOIL-ALT DAILY	11.00	F	22.40	TN
07/29/2015	I	01 961016	3063159433	H31		SW-CONT SOIL-ALT DAILY	11.00	F	20.80	TN
07/29/2015	I	01 961018	3063159433	H157		SW-CONT SOIL-ALT DAILY	11.00	F	23.66	TN
07/29/2015	I	01 961019	3063159433	STR99		SW-CONT SOIL-ALT DAILY	11.00	F	19.72	TN
07/29/2015	I	01 961021	3063159433	H99		SW-CONT SOIL-ALT DAILY	11.00	F	19.00	TN
07/29/2015	I	01 961023	3063159433	MP008		SW-CONT SOIL-ALT DAILY	11.00	F	18.37	TN
07/29/2015	I	01 961026	3063159433	MP009		SW-CONT SOIL-ALT DAILY	11.00	F	18.56	TN
07/29/2015	I	01 961028	3063159433	MP010		SW-CONT SOIL-ALT DAILY	11.00	F	20.89	TN
07/29/2015	I	01 961030	3063159433	H429		SW-CONT SOIL-ALT DAILY	11.00	F	17.38	TN
07/29/2015	I	01 961041	3063159433	J70		SW-CONT SOIL-ALT DAILY	11.00	F	18.95	TN
07/29/2015	I	01 961044	3063159433	JG22710		SW-CONT SOIL-ALT DAILY	11.00	F	17.74	TN
07/29/2015	I	01 961046	3063159433	H31		SW-CONT SOIL-ALT DAILY	11.00	F	20.81	TN
07/29/2015	I	01 961053	3063159433	H157		SW-CONT SOIL-ALT DAILY	11.00	F	23.52	TN
07/29/2015	I	01 961054	3063159433	H99		SW-CONT SOIL-ALT DAILY	11.00	F	19.76	TN
07/29/2015	I	01 961059	3063159433	STR99		SW-CONT SOIL-ALT DAILY	11.00	F	20.42	TN
07/29/2015	I	01 961060	3063159433	MP008		SW-CONT SOIL-ALT DAILY	11.00	F	19.92	TN
07/29/2015	I	01 961063	3063159433	MP009		SW-CONT SOIL-ALT DAILY	11.00	F	19.27	TN
07/29/2015	I	01 961065	3063159433	MP010		SW-CONT SOIL-ALT DAILY	11.00	F	20.31	TN
07/29/2015	I	01 961066	3063159433	H429		SW-CONT SOIL-ALT DAILY	11.00	F	23.16	TN
07/29/2015	I	01 961071	3063159433	J70		SW-CONT SOIL-ALT DAILY	11.00	F	21.46	TN
07/29/2015	I	01 961073	3063159433	JG22710		SW-CONT SOIL-ALT DAILY	11.00	F	25.03	TN
07/29/2015	I	01 961074	3063159433	H31		SW-CONT SOIL-ALT DAILY	11.00	F	24.00	TN
07/29/2015	I	01 961076	3063159433	H157		SW-CONT SOIL-ALT DAILY	11.00	F	26.03	TN
07/29/2015	I	01 961078	3063159433	H99		SW-CONT SOIL-ALT DAILY	11.00	F	25.21	TN
07/29/2015	I	01 961080	3063159433	STR99		SW-CONT SOIL-ALT DAILY	11.00	F	22.95	TN
07/29/2015	I	01 961081	3063159433	MP008		SW-CONT SOIL-ALT DAILY	11.00	F	24.32	TN
07/29/2015	I	01 961083	3063159433	MP009		SW-CONT SOIL-ALT DAILY	11.00	F	22.42	TN
07/29/2015	I	01 961102	3063159433	MP009		SW-CONT SOIL-ALT DAILY	11.00	F	23.94	TN
07/30/2015	I	01 961116	3063146011	MP008		SW-CONT SOIL W/FUEL	13.00	F	19.42	TN
07/30/2015	I	01 961117	3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	20.47	TN

100053- CITY OF KENOSHA

Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
07/30/2015	I 01	961119	3063146011	J07		SW-CONT SOIL W/FUEL	13.00	F	16.76	TN
07/30/2015	I 01	961120	3063146011	EWJ181		SW-CONT SOIL W/FUEL	13.00	F	26.30	TN
07/30/2015	I 01	961127	3063146011	STR41		SW-CONT SOIL W/FUEL	13.00	F	17.34	TN
07/30/2015	I 01	961129	3063146011	MP008		SW-CONT SOIL W/FUEL	13.00	F	18.21	TN
07/30/2015	I 01	961131	3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	18.23	TN
07/30/2015	I 01	961132	3063146011	STR07		SW-CONT SOIL W/FUEL	13.00	F	19.71	TN
07/30/2015	I 01	961144	3063146011	J50		SW-CONT SOIL W/FUEL	13.00	F	19.81	TN
07/30/2015	I 01	961149	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	19.65	TN
07/30/2015	I 01	961150	3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	21.79	TN
07/30/2015	I 01	961151	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	21.73	TN
07/30/2015	I 01	961157	3063146011	J50		SW-CONT SOIL W/FUEL	13.00	F	20.50	TN
07/30/2015	I 01	961161	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	20.98	TN
07/30/2015	I 01	961166	3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	21.80	TN
07/30/2015	I 01	961167	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	23.42	TN
07/30/2015	I 01	961173	3063146011	J50		SW-CONT SOIL W/FUEL	13.00	F	23.92	TN
07/30/2015	I 01	961175	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	23.44	TN
07/30/2015	I 01	961176	3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	22.21	TN
07/30/2015	I 01	961177	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	21.82	TN
07/30/2015	I 01	961185	3063146011	J50		SW-CONT SOIL W/FUEL	13.00	F	22.12	TN
07/30/2015	I 01	961187	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	20.26	TN
07/30/2015	I 01	961188	3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	22.18	TN
07/30/2015	I 01	961189	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	21.28	TN
07/30/2015	I 01	961200	3063146011	J50		SW-CONT SOIL W/FUEL	13.00	F	23.20	TN
07/30/2015	I 01	961202	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	22.14	TN
07/30/2015	I 01	961203	3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	22.41	TN
07/30/2015	I 01	961204	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	24.00	TN
07/30/2015	I 01	961212	3063146011	J50		SW-CONT SOIL W/FUEL	13.00	F	23.85	TN
07/30/2015	I 01	961213	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	23.70	TN
07/30/2015	I 01	961214	3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	22.88	TN
07/30/2015	I 01	961215	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	21.85	TN
07/31/2015	I 01	961234	3063146011	RV869		SW-CONT SOIL W/FUEL	13.00	F	24.15	TN
07/31/2015	I 01	961235	3063146011	LE634		SW-CONT SOIL W/FUEL	13.00	F	20.69	TN
07/31/2015	I 01	961236	3063146011	CHI1976		SW-CONT SOIL W/FUEL	13.00	F	20.56	TN
07/31/2015	I 01	961239	3063146011	FLO78		SW-CONT SOIL W/FUEL	13.00	F	19.52	TN
07/31/2015	I 01	961240	3063146011	ICM726		SW-CONT SOIL W/FUEL	13.00	F	19.50	TN
07/31/2015	I 01	961247	3063146011	RV869		SW-CONT SOIL W/FUEL	13.00	F	16.59	TN
07/31/2015	I 01	961249	3063146011	LE634		SW-CONT SOIL W/FUEL	13.00	F	20.32	TN
07/31/2015	I 01	961250	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	20.50	TN
07/31/2015	I 01	961251	3063146011	ICM726		SW-CONT SOIL W/FUEL	13.00	F	21.89	TN

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Ticket Facility & Material Billing

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
07/31/2015	I 01	961252	3063146011	FLO78		SW-CONT SOIL W/FUEL	13.00	F	20.28	TN
07/31/2015	I 01	961253	3063146011	CHI1976		SW-CONT SOIL W/FUEL	13.00	F	20.65	TN
07/31/2015	I 01	961263	3063146011	RV869		SW-CONT SOIL W/FUEL	13.00	F	24.27	TN
07/31/2015	I 01	961265	3063146011	LE634		SW-CONT SOIL W/FUEL	13.00	F	25.73	TN
07/31/2015	I 01	961266	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	24.96	TN
07/31/2015	I 01	961268	3063146011	ICM726		SW-CONT SOIL W/FUEL	13.00	F	26.18	TN
07/31/2015	I 01	961270	3063146011	FLO78		SW-CONT SOIL W/FUEL	13.00	F	22.83	TN
07/31/2015	I 01	961271	3063146011	CHI1976		SW-CONT SOIL W/FUEL	13.00	F	23.48	TN
07/31/2015	I 01	961281	3063146011	RV869		SW-CONT SOIL W/FUEL	13.00	F	21.64	TN
07/31/2015	I 01	961283	3063146011	LE634		SW-CONT SOIL W/FUEL	13.00	F	20.67	TN
07/31/2015	I 01	961289	3063146011	ICM726		SW-CONT SOIL W/FUEL	13.00	F	24.62	TN
07/31/2015	I 01	961290	3063146011	FLO78		SW-CONT SOIL W/FUEL	13.00	F	20.29	TN
07/31/2015	I 01	961291	3063146011	CHI1976		SW-CONT SOIL W/FUEL	13.00	F	17.30	TN
07/31/2015	I 01	961295	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	22.62	TN
07/31/2015	I 01	961297	3063146011	RV869		SW-CONT SOIL W/FUEL	13.00	F	21.23	TN
07/31/2015	I 01	961298	3063146011	LE634		SW-CONT SOIL W/FUEL	13.00	F	21.98	TN
07/31/2015	I 01	961301	3063146011	ICM726		SW-CONT SOIL W/FUEL	13.00	F	17.68	TN
07/31/2015	I 01	961302	3063146011	FLO78		SW-CONT SOIL W/FUEL	13.00	F	20.99	TN
07/31/2015	I 01	961303	3063146011	CHI1976		SW-CONT SOIL W/FUEL	13.00	F	18.55	TN
07/31/2015	I 01	961305	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	21.03	TN
07/31/2015	I 01	961309	3063146011	RV869		SW-CONT SOIL W/FUEL	13.00	F	22.61	TN
07/31/2015	I 01	961310	3063146011	LE634		SW-CONT SOIL W/FUEL	13.00	F	21.11	TN
07/31/2015	I 01	961316	3063146011	FLO78		SW-CONT SOIL W/FUEL	13.00	F	21.09	TN
07/31/2015	I 01	961317	3063146011	CHI1976		SW-CONT SOIL W/FUEL	13.00	F	17.00	TN
07/31/2015	I 01	961319	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	20.81	TN
07/31/2015	I 01	961321	3063146011	RV869		SW-CONT SOIL W/FUEL	13.00	F	23.92	TN
07/31/2015	I 01	961322	3063146011	LE634		SW-CONT SOIL W/FUEL	13.00	F	22.68	TN
07/31/2015	I 01	961323	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	20.81	TN
07/31/2015	I 01	961328	3063146011	FLO78		SW-CONT SOIL W/FUEL	13.00	F	19.66	TN
07/31/2015	I 01	961329	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	22.23	TN
07/31/2015	I 01	961330	3063146011	CHI1976		SW-CONT SOIL W/FUEL	13.00	F	17.09	TN
08/03/2015	I 01	961336	3063146011	H31		SW-CONT SOIL W/FUEL	13.00	F	19.12	TN
08/03/2015	I 01	961338	3063146011	H429		SW-CONT SOIL W/FUEL	13.00	F	18.76	TN
08/03/2015	I 01	961339	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	21.79	TN
08/03/2015	I 01	961340	3063146011	J70		SW-CONT SOIL W/FUEL	13.00	F	20.84	TN
08/03/2015	I 01	961342	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	20.43	TN
08/03/2015	I 01	961345	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	21.12	TN
08/03/2015	I 01	961349	3063146011	H157		SW-CONT SOIL W/FUEL	13.00	F	20.80	TN
08/03/2015	I 01	961351	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	22.18	TN

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Ticket Date	Facility & Ticket	Contract	Truck #	Container	Material	Material Rate	Billing Quantity

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/03/2015	I 01	961354	3063146011	H31		SW-CONT SOIL W/FUEL	13.00	F	22.03	TN
08/03/2015	I 01	961355	3063146011	H429		SW-CONT SOIL W/FUEL	13.00	F	21.26	TN
08/03/2015	I 01	961356	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	16.40	TN
08/03/2015	I 01	961359	3063146011	J70		SW-CONT SOIL W/FUEL	13.00	F	21.11	TN
08/03/2015	I 01	961362	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	19.20	TN
08/03/2015	I 01	961367	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	21.98	TN
08/03/2015	I 01	961368	3063146011	H157		SW-CONT SOIL W/FUEL	13.00	F	20.18	TN
08/03/2015	I 01	961370	3063146011	H31		SW-CONT SOIL W/FUEL	13.00	F	19.80	TN
08/03/2015	I 01	961371	3063146011	H429		SW-CONT SOIL W/FUEL	13.00	F	20.20	TN
08/03/2015	I 01	961372	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	19.32	TN
08/03/2015	I 01	961375	3063146011	J70		SW-CONT SOIL W/FUEL	13.00	F	20.78	TN
08/03/2015	I 01	961379	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	19.01	TN
08/03/2015	I 01	961382	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	21.33	TN
08/03/2015	I 01	961384	3063146011	H157		SW-CONT SOIL W/FUEL	13.00	F	22.07	TN
08/03/2015	I 01	961387	3063146011	H31		SW-CONT SOIL W/FUEL	13.00	F	20.41	TN
08/03/2015	I 01	961388	3063146011	H429		SW-CONT SOIL W/FUEL	13.00	F	20.70	TN
08/03/2015	I 01	961393	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	20.56	TN
08/03/2015	I 01	961395	3063146011	J70		SW-CONT SOIL W/FUEL	13.00	F	20.83	TN
08/03/2015	I 01	961400	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	22.18	TN
08/03/2015	I 01	961406	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	20.88	TN
08/03/2015	I 01	961408	3063146011	H157		SW-CONT SOIL W/FUEL	13.00	F	19.62	TN
08/03/2015	I 01	961411	3063146011	H31		SW-CONT SOIL W/FUEL	13.00	F	21.80	TN
08/03/2015	I 01	961412	3063146011	H429		SW-CONT SOIL W/FUEL	13.00	F	19.62	TN
08/03/2015	I 01	961415	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	23.03	TN
08/03/2015	I 01	961417	3063146011	J70		SW-CONT SOIL W/FUEL	13.00	F	20.50	TN
08/03/2015	I 01	961420	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	23.40	TN
08/03/2015	I 01	961425	3063146011	H157		SW-CONT SOIL W/FUEL	13.00	F	21.79	TN
08/03/2015	I 01	961427	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	20.54	TN
08/03/2015	I 01	961429	3063146011	H31		SW-CONT SOIL W/FUEL	13.00	F	18.44	TN
08/03/2015	I 01	961430	3063146011	H429		SW-CONT SOIL W/FUEL	13.00	F	20.37	TN
08/03/2015	I 01	961432	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	17.86	TN
08/03/2015	I 01	961433	3063146011	J70		SW-CONT SOIL W/FUEL	13.00	F	22.56	TN
08/03/2015	I 01	961436	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	23.79	TN
08/03/2015	I 01	961438	3063146011	H157		SW-CONT SOIL W/FUEL	13.00	F	22.04	TN
08/03/2015	I 01	961439	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	18.89	TN
08/03/2015	I 01	961445	3063146011	H31		SW-CONT SOIL W/FUEL	13.00	F	22.83	TN
08/03/2015	I 01	961448	3063146011	H429		SW-CONT SOIL W/FUEL	13.00	F	22.78	TN
08/03/2015	I 01	961449	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	22.22	TN
08/03/2015	I 01	961454	3063146011	J70		SW-CONT SOIL W/FUEL	13.00	F	21.47	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/03/2015	I 01	961456	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	20.25	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/03/2015	I 01	961457	3063146011	H157		SW-CONT SOIL W/FUEL	13.00	F	18.86	TN
08/03/2015	I 01	961458	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	20.40	TN
08/03/2015	I 01	961460	3063146011	H31		SW-CONT SOIL W/FUEL	13.00	F	21.07	TN
08/03/2015	I 01	961461	3063146011	H429		SW-CONT SOIL W/FUEL	13.00	F	22.88	TN
08/03/2015	I 01	961467	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	21.43	TN
08/03/2015	I 01	961470	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	21.52	TN
08/03/2015	I 01	961471	3063146011	H157		SW-CONT SOIL W/FUEL	13.00	F	20.27	TN
08/03/2015	I 01	961473	3063146011	J70		SW-CONT SOIL W/FUEL	13.00	F	19.78	TN
08/03/2015	I 01	961474	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	22.00	TN
08/03/2015	I 01	961477	3063146011	H31		SW-CONT SOIL W/FUEL	13.00	F	22.03	TN
08/03/2015	I 01	961479	3063146011	H429		SW-CONT SOIL W/FUEL	13.00	F	21.85	TN
08/03/2015	I 01	961484	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	22.36	TN
08/04/2015	I 01	961490	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	22.16	TN
08/04/2015	I 01	961491	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	22.24	TN
08/04/2015	I 01	961492	3063146011	OAK853		SW-CONT SOIL W/FUEL	13.00	F	22.44	TN
08/04/2015	I 01	961493	3063146011	ICM726		SW-CONT SOIL W/FUEL	13.00	F	22.92	TN
08/04/2015	I 01	961495	3063146011	FLO78		SW-CONT SOIL W/FUEL	13.00	F	21.64	TN
08/04/2015	I 01	961496	3063146011	SMJ23		SW-CONT SOIL W/FUEL	13.00	F	19.98	TN
08/04/2015	I 01	961500	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	21.78	TN
08/04/2015	I 01	961501	3063146011	OAK853		SW-CONT SOIL W/FUEL	13.00	F	21.58	TN
08/04/2015	I 01	961502	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	24.19	TN
08/04/2015	I 01	961507	3063146011	SMJ23		SW-CONT SOIL W/FUEL	13.00	F	17.65	TN
08/04/2015	I 01	961508	3063146011	ICM726		SW-CONT SOIL W/FUEL	13.00	F	21.22	TN
08/04/2015	I 01	961510	3063146011	FLO78		SW-CONT SOIL W/FUEL	13.00	F	20.16	TN
08/04/2015	I 01	961513	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	16.36	TN
08/04/2015	I 01	961514	3063146011	OAK853		SW-CONT SOIL W/FUEL	13.00	F	20.73	TN
08/04/2015	I 01	961518	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	22.04	TN
08/04/2015	I 01	961523	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	19.22	TN
08/04/2015	I 01	961525	3063146011	OAK853		SW-CONT SOIL W/FUEL	13.00	F	21.45	TN
08/04/2015	I 01	961526	3063146011	SMJ23		SW-CONT SOIL W/FUEL	13.00	F	19.70	TN
08/04/2015	I 01	961527	3063146011	ICM726		SW-CONT SOIL W/FUEL	13.00	F	15.07	TN
08/04/2015	I 01	961529	3063146011	FLO78		SW-CONT SOIL W/FUEL	13.00	F	21.10	TN
08/04/2015	I 01	961534	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	22.21	TN
08/04/2015	I 01	961544	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	17.00	TN
08/04/2015	I 01	961546	3063146011	SMJ23		SW-CONT SOIL W/FUEL	13.00	F	18.39	TN
08/04/2015	I 01	961547	3063146011	ICM726		SW-CONT SOIL W/FUEL	13.00	F	20.84	TN
08/04/2015	I 01	961550	3063146011	FLO78		SW-CONT SOIL W/FUEL	13.00	F	19.37	TN
08/04/2015	I 01	961551	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	21.73	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/04/2015	I 01	961552	3063146011	OAK848		SW-CONT SOIL W/FUEL	13.00	F	22.76	TN
08/04/2015	I 01	961555	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	20.60	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/04/2015	I 01	961561	3063146011	FLO78		SW-CONT SOIL W/FUEL	13.00	F	18.29	TN
08/04/2015	I 01	961562	3063146011	OAK848		SW-CONT SOIL W/FUEL	13.00	F	19.52	TN
08/04/2015	I 01	961567	3063146011	SMJ23		SW-CONT SOIL W/FUEL	13.00	F	23.31	TN
08/04/2015	I 01	961568	3063146011	ICM726		SW-CONT SOIL W/FUEL	13.00	F	23.93	TN
08/04/2015	I 01	961573	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	20.09	TN
08/04/2015	I 01	961579	3063146011	FLO78		SW-CONT SOIL W/FUEL	13.00	F	20.93	TN
08/04/2015	I 01	961581	3063146011	OAK848		SW-CONT SOIL W/FUEL	13.00	F	21.74	TN
08/04/2015	I 01	961586	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	19.87	TN
08/04/2015	I 01	961590	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	21.55	TN
08/04/2015	I 01	961597	3063146011	SMJ23		SW-CONT SOIL W/FUEL	13.00	F	19.82	TN
08/04/2015	I 01	961600	3063146011	ICM726		SW-CONT SOIL W/FUEL	13.00	F	24.52	TN
08/04/2015	I 01	961601	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	17.20	TN
08/04/2015	I 01	961602	3063146011	OAK848		SW-CONT SOIL W/FUEL	13.00	F	21.17	TN
08/04/2015	I 01	961603	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	19.31	TN
08/05/2015	I 01	961615	3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	20.42	TN
08/05/2015	I 01	961625	3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	19.21	TN
08/05/2015	I 01	961640	3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	21.96	TN
08/05/2015	I 01	961648	3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	20.91	TN
08/05/2015	I 01	961657	3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	21.56	TN
08/05/2015	I 01	961666	3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	21.07	TN
08/05/2015	I 01	961675	3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	19.31	TN
08/06/2015	I 01	961682	3063146011	H97		SW-CONT SOIL W/FUEL	13.00	F	22.46	TN
08/06/2015	I 01	961683	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	18.91	TN
08/06/2015	I 01	961684	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	18.28	TN
08/06/2015	I 01	961687	3063146011	H95		SW-CONT SOIL W/FUEL	13.00	F	19.84	TN
08/06/2015	I 01	961688	3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	18.58	TN
08/06/2015	I 01	961689	3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	20.43	TN
08/06/2015	I 01	961690	3063146011	H99		SW-CONT SOIL W/FUEL	13.00	F	18.62	TN
08/06/2015	I 01	961691	3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	20.33	TN
08/06/2015	I 01	961692	3063146011	J24		SW-CONT SOIL W/FUEL	13.00	F	18.48	TN
08/06/2015	I 01	961693	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	20.85	TN
08/06/2015	I 01	961694	3063146011	JG22710		SW-CONT SOIL W/FUEL	13.00	F	16.88	TN
08/06/2015	I 01	961695	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	20.41	TN
08/06/2015	I 01	961696	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	18.73	TN
08/06/2015	I 01	961697	3063146011	H429		SW-CONT SOIL W/FUEL	13.00	F	18.14	TN
08/06/2015	I 01	961698	3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	18.72	TN
08/06/2015	I 01	961699	3063146011	OAK854		SW-CONT SOIL W/FUEL	13.00	F	19.92	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/06/2015	I 01	961700	3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	19.67	TN
08/06/2015	I 01	961703	3063146011	H97		SW-CONT SOIL W/FUEL	13.00	F	19.64	TN
08/06/2015	I 01	961704	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	18.07	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/06/2015	I 01	961705	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	19.17	TN
08/06/2015	I 01	961706	3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	18.52	TN
08/06/2015	I 01	961707	3063146011	H95		SW-CONT SOIL W/FUEL	13.00	F	20.27	TN
08/06/2015	I 01	961708	3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	20.23	TN
08/06/2015	I 01	961709	3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	21.54	TN
08/06/2015	I 01	961710	3063146011	H99		SW-CONT SOIL W/FUEL	13.00	F	20.77	TN
08/06/2015	I 01	961711	3063146011	J24		SW-CONT SOIL W/FUEL	13.00	F	20.26	TN
08/06/2015	I 01	961712	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	19.13	TN
08/06/2015	I 01	961713	3063146011	JG22710		SW-CONT SOIL W/FUEL	13.00	F	19.89	TN
08/06/2015	I 01	961714	3063146011	OAK854		SW-CONT SOIL W/FUEL	13.00	F	17.85	TN
08/06/2015	I 01	961716	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	20.05	TN
08/06/2015	I 01	961717	3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	17.94	TN
08/06/2015	I 01	961718	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	17.47	TN
08/06/2015	I 01	961719	3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	19.40	TN
08/06/2015	I 01	961720	3063146011	H429		SW-CONT SOIL W/FUEL	13.00	F	20.11	TN
08/06/2015	I 01	961724	3063146011	H97		SW-CONT SOIL W/FUEL	13.00	F	17.68	TN
08/06/2015	I 01	961725	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	19.41	TN
08/06/2015	I 01	961729	3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	18.84	TN
08/06/2015	I 01	961730	3063146011	H95		SW-CONT SOIL W/FUEL	13.00	F	18.57	TN
08/06/2015	I 01	961732	3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	18.93	TN
08/06/2015	I 01	961733	3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	19.14	TN
08/06/2015	I 01	961734	3063146011	H99		SW-CONT SOIL W/FUEL	13.00	F	19.29	TN
08/06/2015	I 01	961735	3063146011	J24		SW-CONT SOIL W/FUEL	13.00	F	21.59	TN
08/06/2015	I 01	961737	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	21.28	TN
08/06/2015	I 01	961738	3063146011	JG22710		SW-CONT SOIL W/FUEL	13.00	F	20.55	TN
08/06/2015	I 01	961739	3063146011	OAK854		SW-CONT SOIL W/FUEL	13.00	F	20.10	TN
08/06/2015	I 01	961740	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	19.78	TN
08/06/2015	I 01	961742	3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	18.02	TN
08/06/2015	I 01	961745	3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	20.42	TN
08/06/2015	I 01	961746	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	20.66	TN
08/06/2015	I 01	961747	3063146011	H429		SW-CONT SOIL W/FUEL	13.00	F	19.76	TN
08/06/2015	I 01	961751	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	19.89	TN
08/06/2015	I 01	961754	3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	21.60	TN
08/06/2015	I 01	961755	3063146011	H95		SW-CONT SOIL W/FUEL	13.00	F	20.03	TN
08/06/2015	I 01	961756	3063146011	H97		SW-CONT SOIL W/FUEL	13.00	F	19.00	TN
08/06/2015	I 01	961757	3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	20.23	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/06/2015	I 01	961758	3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	20.68	TN
08/06/2015	I 01	961759	3063146011	H99		SW-CONT SOIL W/FUEL	13.00	F	20.31	TN
08/06/2015	I 01	961761	3063146011	J24		SW-CONT SOIL W/FUEL	13.00	F	20.34	TN
08/06/2015	I 01	961764	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	17.57	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/06/2015	I 01	961765	3063146011	JG22710		SW-CONT SOIL W/FUEL	13.00	F	18.76	TN
08/06/2015	I 01	961766	3063146011	OAK854		SW-CONT SOIL W/FUEL	13.00	F	18.78	TN
08/06/2015	I 01	961767	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	18.87	TN
08/06/2015	I 01	961770	3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	18.37	TN
08/06/2015	I 01	961771	3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	20.47	TN
08/06/2015	I 01	961772	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	18.94	TN
08/06/2015	I 01	961773	3063146011	H429		SW-CONT SOIL W/FUEL	13.00	F	19.26	TN
08/06/2015	I 01	961775	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	19.03	TN
08/06/2015	I 01	961776	3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	20.25	TN
08/06/2015	I 01	961777	3063146011	H95		SW-CONT SOIL W/FUEL	13.00	F	18.64	TN
08/06/2015	I 01	961778	3063146011	H99		SW-CONT SOIL W/FUEL	13.00	F	19.85	TN
08/06/2015	I 01	961779	3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	22.49	TN
08/06/2015	I 01	961782	3063146011	J24		SW-CONT SOIL W/FUEL	13.00	F	21.36	TN
08/06/2015	I 01	961784	3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	21.77	TN
08/06/2015	I 01	961785	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	19.77	TN
08/06/2015	I 01	961786	3063146011	JG22710		SW-CONT SOIL W/FUEL	13.00	F	20.27	TN
08/06/2015	I 01	961787	3063146011	OAK854		SW-CONT SOIL W/FUEL	13.00	F	21.77	TN
08/06/2015	I 01	961788	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	20.33	TN
08/06/2015	I 01	961790	3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	21.25	TN
08/06/2015	I 01	961791	3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	20.66	TN
08/06/2015	I 01	961792	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	21.88	TN
08/06/2015	I 01	961793	3063146011	H429		SW-CONT SOIL W/FUEL	13.00	F	21.77	TN
08/06/2015	I 01	961794	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	21.57	TN
08/06/2015	I 01	961796	3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	27.44	TN
08/06/2015	I 01	961798	3063146011	H95		SW-CONT SOIL W/FUEL	13.00	F	22.35	TN
08/06/2015	I 01	961799	3063146011	H99		SW-CONT SOIL W/FUEL	13.00	F	22.15	TN
08/06/2015	I 01	961800	3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	24.63	TN
08/06/2015	I 01	961804	3063146011	J24		SW-CONT SOIL W/FUEL	13.00	F	25.37	TN
08/06/2015	I 01	961808	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	24.46	TN
08/06/2015	I 01	961809	3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	24.19	TN
08/06/2015	I 01	961810	3063146011	JG22710		SW-CONT SOIL W/FUEL	13.00	F	23.46	TN
08/06/2015	I 01	961811	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	25.18	TN
08/06/2015	I 01	961813	3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	22.62	TN
08/06/2015	I 01	961814	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	22.00	TN
08/06/2015	I 01	961815	3063146011	H429		SW-CONT SOIL W/FUEL	13.00	F	24.30	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/06/2015	I 01	961816	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	21.53	TN
08/06/2015	I 01	961818	3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	24.05	TN
08/06/2015	I 01	961819	3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	23.86	TN
08/06/2015	I 01	961821	3063146011	H95		SW-CONT SOIL W/FUEL	13.00	F	21.63	TN
08/06/2015	I 01	961822	3063146011	H99		SW-CONT SOIL W/FUEL	13.00	F	18.71	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/06/2015	I	01	961825 3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	23.64	TN
08/06/2015	I	01	961826 3063146011	J24		SW-CONT SOIL W/FUEL	13.00	F	23.19	TN
08/06/2015	I	01	961834 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	24.17	TN
08/06/2015	I	01	961835 3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	24.12	TN
08/06/2015	I	01	961836 3063146011	JG22710		SW-CONT SOIL W/FUEL	13.00	F	24.95	TN
08/06/2015	I	01	961837 3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	24.78	TN
08/06/2015	I	01	961840 3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	23.74	TN
08/06/2015	I	01	961841 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	22.44	TN
08/06/2015	I	01	961842 3063146011	H429		SW-CONT SOIL W/FUEL	13.00	F	24.69	TN
08/06/2015	I	01	961843 3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	22.06	TN
08/06/2015	I	01	961845 3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	23.48	TN
08/06/2015	I	01	961846 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	24.41	TN
08/06/2015	I	01	961848 3063146011	H99		SW-CONT SOIL W/FUEL	13.00	F	24.85	TN
08/06/2015	I	01	961849 3063146011	H95		SW-CONT SOIL W/FUEL	13.00	F	23.66	TN
08/06/2015	I	01	961852 3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	22.97	TN
08/06/2015	I	01	961853 3063146011	J24		SW-CONT SOIL W/FUEL	13.00	F	25.80	TN
08/06/2015	I	01	961855 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	22.27	TN
08/06/2015	I	01	961856 3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	26.22	TN
08/06/2015	I	01	961858 3063146011	JG22710		SW-CONT SOIL W/FUEL	13.00	F	22.86	TN
08/06/2015	I	01	961862 3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	22.79	TN
08/06/2015	I	01	961864 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	22.85	TN
08/06/2015	I	01	961866 3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	21.36	TN
08/06/2015	I	01	961867 3063146011	H429		SW-CONT SOIL W/FUEL	13.00	F	21.05	TN
08/06/2015	I	01	961869 3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	23.50	TN
08/06/2015	I	01	961870 3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	17.81	TN
08/06/2015	I	01	961871 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	23.23	TN
08/06/2015	I	01	961872 3063146011	H95		SW-CONT SOIL W/FUEL	13.00	F	21.27	TN
08/06/2015	I	01	961873 3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	21.33	TN
08/06/2015	I	01	961874 3063146011	J24		SW-CONT SOIL W/FUEL	13.00	F	22.07	TN
08/06/2015	I	01	961876 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	21.24	TN
08/06/2015	I	01	961877 3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	20.56	TN
08/06/2015	I	01	961879 3063146011	JG22710		SW-CONT SOIL W/FUEL	13.00	F	19.33	TN
08/07/2015	I	01	961887 3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	22.67	TN
08/07/2015	I	01	961888 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	22.64	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/07/2015	I	01	961889 3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	20.54	TN
08/07/2015	I	01	961891 3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	20.23	TN
08/07/2015	I	01	961892 3063146011	OAK854		SW-CONT SOIL W/FUEL	13.00	F	19.72	TN
08/07/2015	I	01	961893 3063146011	J24		SW-CONT SOIL W/FUEL	13.00	F	20.15	TN
08/07/2015	I	01	961894 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	18.35	TN
08/07/2015	I	01	961895 3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	17.26	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/07/2015	I	01	961896 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	19.74	TN
08/07/2015	I	01	961905 3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	21.33	TN
08/07/2015	I	01	961906 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	19.39	TN
08/07/2015	I	01	961907 3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	20.26	TN
08/07/2015	I	01	961909 3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	22.13	TN
08/07/2015	I	01	961910 3063146011	J24		SW-CONT SOIL W/FUEL	13.00	F	21.69	TN
08/07/2015	I	01	961912 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	21.46	TN
08/07/2015	I	01	961913 3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	20.28	TN
08/07/2015	I	01	961914 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	24.14	TN
08/07/2015	I	01	961920 3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	21.17	TN
08/07/2015	I	01	961924 3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	20.87	TN
08/07/2015	I	01	961926 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	23.17	TN
08/07/2015	I	01	961927 3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	22.13	TN
08/07/2015	I	01	961930 3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	19.72	TN
08/07/2015	I	01	961931 3063146011	J24		SW-CONT SOIL W/FUEL	13.00	F	18.70	TN
08/07/2015	I	01	961932 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	18.72	TN
08/07/2015	I	01	961933 3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	17.54	TN
08/07/2015	I	01	961934 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	18.30	TN
08/07/2015	I	01	961940 3063146011	OAK854		SW-CONT SOIL W/FUEL	13.00	F	21.94	TN
08/07/2015	I	01	961941 3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	19.96	TN
08/07/2015	I	01	961949 3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	19.23	TN
08/07/2015	I	01	961950 3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	20.12	TN
08/07/2015	I	01	961951 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	23.32	TN
08/07/2015	I	01	961954 3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	19.48	TN
08/07/2015	I	01	961956 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	20.43	TN
08/07/2015	I	01	961957 3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	15.40	TN
08/07/2015	I	01	961958 3063146011	J24		SW-CONT SOIL W/FUEL	13.00	F	22.00	TN
08/07/2015	I	01	961960 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	19.03	TN
08/07/2015	I	01	961964 3063146011	OAK854		SW-CONT SOIL W/FUEL	13.00	F	21.68	TN
08/07/2015	I	01	961965 3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	22.11	TN
08/07/2015	I	01	961970 3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	21.22	TN
08/07/2015	I	01	961971 3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	22.38	TN
08/07/2015	I	01	961972 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	21.12	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/07/2015	I	01	961973 3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	20.54	TN
08/07/2015	I	01	961974 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	19.93	TN
08/07/2015	I	01	961975 3063146011	J24		SW-CONT SOIL W/FUEL	13.00	F	16.78	TN
08/07/2015	I	01	961976 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	21.96	TN
08/07/2015	I	01	961979 3063146011	OAK854		SW-CONT SOIL W/FUEL	13.00	F	21.99	TN
08/07/2015	I	01	961980 3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	21.62	TN
08/07/2015	I	01	961988 3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	19.48	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/07/2015	I	01	961989 3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	20.28	TN
08/07/2015	I	01	961990 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	19.88	TN
08/07/2015	I	01	961991 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	18.31	TN
08/07/2015	I	01	961992 3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	19.30	TN
08/07/2015	I	01	961993 3063146011	J24		SW-CONT SOIL W/FUEL	13.00	F	21.22	TN
08/07/2015	I	01	961994 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	20.67	TN
08/07/2015	I	01	961995 3063146011	OAK854		SW-CONT SOIL W/FUEL	13.00	F	22.60	TN
08/07/2015	I	01	962001 3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	23.36	TN
08/07/2015	I	01	962010 3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	18.90	TN
08/07/2015	I	01	962011 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	20.39	TN
08/07/2015	I	01	962012 3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	18.03	TN
08/07/2015	I	01	962014 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	20.48	TN
08/07/2015	I	01	962015 3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	19.01	TN
08/07/2015	I	01	962016 3063146011	J24		SW-CONT SOIL W/FUEL	13.00	F	21.46	TN
08/07/2015	I	01	962017 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	22.33	TN
08/07/2015	I	01	962019 3063146011	OAK854		SW-CONT SOIL W/FUEL	13.00	F	21.64	TN
08/07/2015	I	01	962021 3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	21.32	TN
08/07/2015	I	01	962028 3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	21.12	TN
08/07/2015	I	01	962029 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	20.37	TN
08/07/2015	I	01	962030 3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	20.97	TN
08/07/2015	I	01	962031 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	20.84	TN
08/07/2015	I	01	962032 3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	18.88	TN
08/07/2015	I	01	962033 3063146011	J24		SW-CONT SOIL W/FUEL	13.00	F	20.64	TN
08/07/2015	I	01	962036 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	22.88	TN
08/07/2015	I	01	962037 3063146011	OAK854		SW-CONT SOIL W/FUEL	13.00	F	20.68	TN
08/07/2015	I	01	962040 3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	22.97	TN
08/07/2015	I	01	962045 3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	21.76	TN
08/07/2015	I	01	962047 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	22.35	TN
08/07/2015	I	01	962048 3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	20.90	TN
08/07/2015	I	01	962049 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	19.91	TN
08/07/2015	I	01	962050 3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	21.72	TN
08/07/2015	I	01	962052 3063146011	J24		SW-CONT SOIL W/FUEL	13.00	F	20.47	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/07/2015	I	01	962053 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	20.25	TN
08/10/2015	I	01	962058 3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	20.79	TN
08/10/2015	I	01	962060 3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	20.01	TN
08/10/2015	I	01	962062 3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	22.81	TN
08/10/2015	I	01	962063 3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	20.77	TN
08/10/2015	I	01	962064 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	19.65	TN
08/10/2015	I	01	962065 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	19.82	TN
08/10/2015	I	01	962066 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	23.35	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/10/2015	I	01	962067 3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	19.54	TN
08/10/2015	I	01	962068 3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	20.94	TN
08/10/2015	I	01	962070 3063146011	OAK854		SW-CONT SOIL W/FUEL	13.00	F	20.86	TN
08/10/2015	I	01	962076 3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	21.79	TN
08/10/2015	I	01	962077 3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	23.48	TN
08/10/2015	I	01	962081 3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	22.33	TN
08/10/2015	I	01	962082 3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	21.16	TN
08/10/2015	I	01	962083 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	21.79	TN
08/10/2015	I	01	962085 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	19.72	TN
08/10/2015	I	01	962086 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	23.21	TN
08/10/2015	I	01	962090 3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	20.42	TN
08/10/2015	I	01	962091 3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	21.04	TN
08/10/2015	I	01	962093 3063146011	OAK854		SW-CONT SOIL W/FUEL	13.00	F	23.74	TN
08/10/2015	I	01	962098 3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	23.09	TN
08/10/2015	I	01	962100 3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	23.63	TN
08/10/2015	I	01	962103 3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	23.22	TN
08/10/2015	I	01	962105 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	23.78	TN
08/10/2015	I	01	962106 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	23.27	TN
08/10/2015	I	01	962107 3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	24.43	TN
08/10/2015	I	01	962108 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	23.84	TN
08/10/2015	I	01	962109 3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	24.92	TN
08/10/2015	I	01	962112 3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	23.97	TN
08/10/2015	I	01	962114 3063146011	OAK854		SW-CONT SOIL W/FUEL	13.00	F	24.07	TN
08/10/2015	I	01	962116 3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	22.60	TN
08/10/2015	I	01	962117 3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	23.61	TN
08/10/2015	I	01	962123 3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	21.18	TN
08/10/2015	I	01	962125 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	23.39	TN
08/10/2015	I	01	962126 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	23.05	TN
08/10/2015	I	01	962128 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	22.59	TN
08/10/2015	I	01	962129 3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	20.83	TN
08/10/2015	I	01	962131 3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	22.53	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/10/2015	I	01	962134 3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	21.77	TN
08/10/2015	I	01	962136 3063146011	OAK854		SW-CONT SOIL W/FUEL	13.00	F	22.10	TN
08/10/2015	I	01	962141 3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	22.44	TN
08/10/2015	I	01	962142 3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	22.23	TN
08/10/2015	I	01	962150 3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	21.05	TN
08/10/2015	I	01	962151 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	20.30	TN
08/10/2015	I	01	962152 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	21.65	TN
08/10/2015	I	01	962154 3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	20.94	TN
08/10/2015	I	01	962155 3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	17.54	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/10/2015	I 01	962156	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	20.38	TN
08/10/2015	I 01	962157	3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	22.52	TN
08/10/2015	I 01	962159	3063146011	OAK854		SW-CONT SOIL W/FUEL	13.00	F	22.28	TN
08/10/2015	I 01	962162	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	23.40	TN
08/10/2015	I 01	962164	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	19.83	TN
08/10/2015	I 01	962169	3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	21.84	TN
08/10/2015	I 01	962170	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	22.68	TN
08/10/2015	I 01	962171	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	21.06	TN
08/10/2015	I 01	962172	3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	22.68	TN
08/10/2015	I 01	962173	3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	22.40	TN
08/10/2015	I 01	962175	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	22.51	TN
08/10/2015	I 01	962177	3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	23.32	TN
08/10/2015	I 01	962178	3063146011	OAK854		SW-CONT SOIL W/FUEL	13.00	F	23.43	TN
08/10/2015	I 01	962179	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	21.78	TN
08/10/2015	I 01	962180	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	22.30	TN
08/10/2015	I 01	962185	3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	22.82	TN
08/10/2015	I 01	962186	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	22.25	TN
08/10/2015	I 01	962188	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	22.56	TN
08/10/2015	I 01	962191	3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	22.72	TN
08/10/2015	I 01	962194	3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	22.40	TN
08/10/2015	I 01	962196	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	20.84	TN
08/10/2015	I 01	962199	3063146011	OAK854		SW-CONT SOIL W/FUEL	13.00	F	22.28	TN
08/10/2015	I 01	962200	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	20.73	TN
08/10/2015	I 01	962202	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	20.85	TN
08/10/2015	I 01	962207	3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	20.30	TN
08/10/2015	I 01	962208	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	19.01	TN
08/10/2015	I 01	962210	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	18.18	TN
08/10/2015	I 01	962211	3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	17.57	TN
08/10/2015	I 01	962214	3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	21.48	TN
08/10/2015	I 01	962215	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	19.58	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/10/2015	I 01	962216	3063146011	OAK854		SW-CONT SOIL W/FUEL	13.00	F	20.74	TN
08/10/2015	I 01	962218	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	21.18	TN
08/10/2015	I 01	962221	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	20.46	TN
08/10/2015	I 01	962224	3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	20.24	TN
08/10/2015	I 01	962226	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	20.13	TN
08/10/2015	I 01	962228	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	20.08	TN
08/10/2015	I 01	962230	3063146011	J2		SW-CONT SOIL W/FUEL	13.00	F	20.86	TN
08/10/2015	I 01	962231	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	20.32	TN
08/10/2015	I 01	962232	3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	20.66	TN
08/11/2015	I 01	962238	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	19.58	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/11/2015	I 01	962239	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	20.05	TN
08/11/2015	I 01	962240	3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	21.37	TN
08/11/2015	I 01	962241	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	19.88	TN
08/11/2015	I 01	962242	3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	20.31	TN
08/11/2015	I 01	962243	3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	21.65	TN
08/11/2015	I 01	962244	3063146011	H95		SW-CONT SOIL W/FUEL	13.00	F	22.54	TN
08/11/2015	I 01	962245	3063146011	OAK848		SW-CONT SOIL W/FUEL	13.00	F	20.62	TN
08/11/2015	I 01	962246	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	20.27	TN
08/11/2015	I 01	962247	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	22.43	TN
08/11/2015	I 01	962249	3063146011	J70		SW-CONT SOIL W/FUEL	13.00	F	19.56	TN
08/11/2015	I 01	962251	3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	20.94	TN
08/11/2015	I 01	962252	3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	20.48	TN
08/11/2015	I 01	962255	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	20.75	TN
08/11/2015	I 01	962258	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	21.39	TN
08/11/2015	I 01	962260	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	20.96	TN
08/11/2015	I 01	962261	3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	20.21	TN
08/11/2015	I 01	962262	3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	22.19	TN
08/11/2015	I 01	962263	3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	19.83	TN
08/11/2015	I 01	962267	3063146011	H95		SW-CONT SOIL W/FUEL	13.00	F	20.32	TN
08/11/2015	I 01	962271	3063146011	OAK848		SW-CONT SOIL W/FUEL	13.00	F	20.97	TN
08/11/2015	I 01	962272	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	21.82	TN
08/11/2015	I 01	962273	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	21.36	TN
08/11/2015	I 01	962274	3063146011	J70		SW-CONT SOIL W/FUEL	13.00	F	22.93	TN
08/11/2015	I 01	962275	3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	21.44	TN
08/11/2015	I 01	962276	3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	19.48	TN
08/11/2015	I 01	962281	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	19.40	TN
08/11/2015	I 01	962283	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	20.71	TN
08/11/2015	I 01	962285	3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	22.90	TN
08/11/2015	I 01	962286	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	22.45	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/11/2015	I 01	962287	3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	19.74	TN
08/11/2015	I 01	962288	3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	20.85	TN
08/11/2015	I 01	962291	3063146011	H95		SW-CONT SOIL W/FUEL	13.00	F	21.22	TN
08/11/2015	I 01	962296	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	21.72	TN
08/11/2015	I 01	962297	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	19.96	TN
08/11/2015	I 01	962298	3063146011	OAK848		SW-CONT SOIL W/FUEL	13.00	F	18.94	TN
08/11/2015	I 01	962299	3063146011	J70		SW-CONT SOIL W/FUEL	13.00	F	20.54	TN
08/11/2015	I 01	962300	3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	19.56	TN
08/11/2015	I 01	962302	3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	18.95	TN
08/11/2015	I 01	962304	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	20.65	TN
08/11/2015	I 01	962305	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	19.29	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/11/2015	I	01	962306 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	21.64	TN
08/11/2015	I	01	962307 3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	21.66	TN
08/11/2015	I	01	962311 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	21.22	TN
08/11/2015	I	01	962312 3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	17.11	TN
08/11/2015	I	01	962317 3063146011	H95		SW-CONT SOIL W/FUEL	13.00	F	21.24	TN
08/11/2015	I	01	962322 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	23.02	TN
08/11/2015	I	01	962323 3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	21.00	TN
08/11/2015	I	01	962324 3063146011	OAK848		SW-CONT SOIL W/FUEL	13.00	F	22.32	TN
08/11/2015	I	01	962325 3063146011	J70		SW-CONT SOIL W/FUEL	13.00	F	20.92	TN
08/11/2015	I	01	962328 3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	20.06	TN
08/11/2015	I	01	962329 3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	21.40	TN
08/11/2015	I	01	962332 3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	21.44	TN
08/11/2015	I	01	962334 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	21.95	TN
08/11/2015	I	01	962336 3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	19.43	TN
08/11/2015	I	01	962337 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	21.01	TN
08/11/2015	I	01	962339 3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	21.89	TN
08/11/2015	I	01	962340 3063146011	H95		SW-CONT SOIL W/FUEL	13.00	F	21.14	TN
08/11/2015	I	01	962343 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	21.43	TN
08/11/2015	I	01	962344 3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	20.66	TN
08/11/2015	I	01	962348 3063146011	OAK848		SW-CONT SOIL W/FUEL	13.00	F	21.70	TN
08/11/2015	I	01	962349 3063146011	J70		SW-CONT SOIL W/FUEL	13.00	F	20.77	TN
08/11/2015	I	01	962352 3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	20.58	TN
08/11/2015	I	01	962353 3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	17.89	TN
08/11/2015	I	01	962355 3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	21.32	TN
08/11/2015	I	01	962356 3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	21.03	TN
08/11/2015	I	01	962358 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	22.54	TN
08/11/2015	I	01	962359 3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	20.93	TN
08/11/2015	I	01	962361 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	20.80	TN

100053- CITY OF KENOSHA

Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/11/2015	I	01	962363 3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	20.38	TN
08/11/2015	I	01	962364 3063146011	H95		SW-CONT SOIL W/FUEL	13.00	F	22.43	TN
08/11/2015	I	01	962367 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	21.93	TN
08/11/2015	I	01	962369 3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	22.08	TN
08/11/2015	I	01	962374 3063146011	OAK848		SW-CONT SOIL W/FUEL	13.00	F	21.74	TN
08/11/2015	I	01	962375 3063146011	J70		SW-CONT SOIL W/FUEL	13.00	F	19.68	TN
08/11/2015	I	01	962376 3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	19.94	TN
08/11/2015	I	01	962378 3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	21.92	TN
08/11/2015	I	01	962379 3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	22.22	TN
08/11/2015	I	01	962380 3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	22.27	TN
08/11/2015	I	01	962383 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	23.86	TN
08/11/2015	I	01	962384 3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	23.15	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/11/2015	I	01	962385 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	21.44	TN
08/11/2015	I	01	962388 3063146011	H95		SW-CONT SOIL W/FUEL	13.00	F	22.44	TN
08/11/2015	I	01	962390 3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	21.43	TN
08/11/2015	I	01	962391 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	20.73	TN
08/11/2015	I	01	962392 3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	20.16	TN
08/11/2015	I	01	962402 3063146011	OAK848		SW-CONT SOIL W/FUEL	13.00	F	22.57	TN
08/11/2015	I	01	962403 3063146011	J70		SW-CONT SOIL W/FUEL	13.00	F	19.91	TN
08/11/2015	I	01	962404 3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	22.94	TN
08/11/2015	I	01	962406 3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	22.62	TN
08/11/2015	I	01	962407 3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	20.26	TN
08/11/2015	I	01	962408 3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	19.84	TN
08/11/2015	I	01	962410 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	22.88	TN
08/11/2015	I	01	962411 3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	20.15	TN
08/11/2015	I	01	962412 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	19.83	TN
08/11/2015	I	01	962414 3063146011	H95		SW-CONT SOIL W/FUEL	13.00	F	21.61	TN
08/11/2015	I	01	962415 3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	18.13	TN
08/11/2015	I	01	962416 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	19.78	TN
08/11/2015	I	01	962417 3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	20.15	TN
08/11/2015	I	01	962424 3063146011	OAK848		SW-CONT SOIL W/FUEL	13.00	F	21.57	TN
08/11/2015	I	01	962425 3063146011	J70		SW-CONT SOIL W/FUEL	13.00	F	20.92	TN
08/11/2015	I	01	962426 3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	23.30	TN
08/11/2015	I	01	962427 3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	21.63	TN
08/11/2015	I	01	962428 3063146011	H56		SW-CONT SOIL W/FUEL	13.00	F	20.59	TN
08/11/2015	I	01	962429 3063146011	H92		SW-CONT SOIL W/FUEL	13.00	F	20.60	TN
08/11/2015	I	01	962431 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	23.70	TN
08/11/2015	I	01	962432 3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	22.92	TN
08/11/2015	I	01	962433 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	22.54	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/11/2015	I	01	962434 3063146011	H95		SW-CONT SOIL W/FUEL	13.00	F	22.70	TN
08/11/2015	I	01	962435 3063146011	J4		SW-CONT SOIL W/FUEL	13.00	F	22.30	TN
08/11/2015	I	01	962436 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	19.55	TN
08/11/2015	I	01	962437 3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	20.45	TN
08/12/2015	I	01	962442 3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	20.96	TN
08/12/2015	I	01	962443 3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	21.28	TN
08/12/2015	I	01	962444 3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	22.25	TN
08/12/2015	I	01	962445 3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	20.79	TN
08/12/2015	I	01	962447 3063146011	OAK855		SW-CONT SOIL W/FUEL	13.00	F	23.25	TN
08/12/2015	I	01	962448 3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	20.57	TN
08/12/2015	I	01	962449 3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	19.85	TN
08/12/2015	I	01	962452 3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	19.78	TN
08/12/2015	I	01	962456 3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	22.86	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/12/2015	I 01	962457	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	21.50	TN
08/12/2015	I 01	962458	3063146011	OAK855		SW-CONT SOIL W/FUEL	13.00	F	20.40	TN
08/12/2015	I 01	962459	3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	22.55	TN
08/12/2015	I 01	962460	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	22.15	TN
08/12/2015	I 01	962463	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	22.63	TN
08/12/2015	I 01	962464	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	20.81	TN
08/12/2015	I 01	962467	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	23.13	TN
08/12/2015	I 01	962479	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	21.29	TN
08/12/2015	I 01	962481	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	22.92	TN
08/12/2015	I 01	962482	3063146011	OAK855		SW-CONT SOIL W/FUEL	13.00	F	22.92	TN
08/12/2015	I 01	962483	3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	22.30	TN
08/12/2015	I 01	962484	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	22.67	TN
08/12/2015	I 01	962485	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	22.27	TN
08/12/2015	I 01	962486	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	22.46	TN
08/12/2015	I 01	962488	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	22.08	TN
08/12/2015	I 01	962491	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	22.76	TN
08/12/2015	I 01	962492	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	23.60	TN
08/12/2015	I 01	962494	3063146011	OAK855		SW-CONT SOIL W/FUEL	13.00	F	23.06	TN
08/12/2015	I 01	962496	3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	26.37	TN
08/12/2015	I 01	962497	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	22.47	TN
08/12/2015	I 01	962501	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	22.13	TN
08/12/2015	I 01	962502	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	22.40	TN
08/12/2015	I 01	962508	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	20.21	TN
08/12/2015	I 01	962513	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	23.08	TN
08/12/2015	I 01	962514	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	20.91	TN
08/12/2015	I 01	962518	3063146011	OAK855		SW-CONT SOIL W/FUEL	13.00	F	23.40	TN

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Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/12/2015	I 01	962519	3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	24.65	TN
08/12/2015	I 01	962520	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	21.98	TN
08/12/2015	I 01	962525	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	24.89	TN
08/12/2015	I 01	962528	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	21.93	TN
08/12/2015	I 01	962530	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	23.99	TN
08/12/2015	I 01	962534	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	21.45	TN
08/12/2015	I 01	962536	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	23.90	TN
08/12/2015	I 01	962538	3063146011	OAK855		SW-CONT SOIL W/FUEL	13.00	F	22.50	TN
08/12/2015	I 01	962540	3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	26.61	TN
08/12/2015	I 01	962541	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	21.67	TN
08/12/2015	I 01	962543	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	21.63	TN
08/12/2015	I 01	962544	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	21.78	TN
08/12/2015	I 01	962547	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	24.86	TN
08/12/2015	I 01	962551	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	21.68	TN

100053- CITY OF KENOSHA

Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/12/2015	I 01	962552	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	21.43	TN
08/12/2015	I 01	962554	3063146011	OAK855		SW-CONT SOIL W/FUEL	13.00	F	21.90	TN
08/12/2015	I 01	962555	3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	23.27	TN
08/12/2015	I 01	962556	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	22.32	TN
08/12/2015	I 01	962561	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	24.10	TN
08/12/2015	I 01	962563	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	21.23	TN
08/12/2015	I 01	962567	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	20.33	TN
08/12/2015	I 01	962568	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	20.04	TN
08/12/2015	I 01	962572	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	17.40	TN
08/12/2015	I 01	962575	3063146011	OAK855		SW-CONT SOIL W/FUEL	13.00	F	18.23	TN
08/12/2015	I 01	962577	3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	19.19	TN
08/12/2015	I 01	962579	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	19.46	TN
08/12/2015	I 01	962583	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	14.03	TN
08/12/2015	I 01	962584	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	17.19	TN
08/12/2015	I 01	962586	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	20.50	TN
08/12/2015	I 01	962587	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	20.18	TN
08/12/2015	I 01	962588	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	19.58	TN
08/12/2015	I 01	962590	3063146011	OAK855		SW-CONT SOIL W/FUEL	13.00	F	19.88	TN
08/12/2015	I 01	962591	3063146011	H305		SW-CONT SOIL W/FUEL	13.00	F	21.10	TN
08/12/2015	I 01	962594	3063146011	H50		SW-CONT SOIL W/FUEL	13.00	F	21.40	TN
08/12/2015	I 01	962597	3063146011	J1		SW-CONT SOIL W/FUEL	13.00	F	24.22	TN
08/12/2015	I 01	962598	3063146011	H14		SW-CONT SOIL W/FUEL	13.00	F	21.62	TN
08/12/2015	I 01	962600	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	22.07	TN
08/12/2015	I 01	962601	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	22.59	TN
08/12/2015	I 01	962602	3063146011	OAK841		SW-CONT SOIL W/FUEL	13.00	F	18.44	TN

100053- CITY OF KENOSHA

Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/12/2015	I 01	962603	3063146011	OAK855		SW-CONT SOIL W/FUEL	13.00	F	25.34	TN
08/13/2015	I 01	962605	3063146011	OAK848		SW-CONT SOIL W/FUEL	13.00	F	21.32	TN
08/13/2015	I 01	962606	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	20.01	TN
08/13/2015	I 01	962607	3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	19.14	TN
08/13/2015	I 01	962608	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	17.35	TN
08/13/2015	I 01	962615	3063146011	OAK848		SW-CONT SOIL W/FUEL	13.00	F	20.60	TN
08/13/2015	I 01	962616	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	22.09	TN
08/13/2015	I 01	962617	3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	22.04	TN
08/13/2015	I 01	962618	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	19.83	TN
08/13/2015	I 01	962631	3063146011	OAK848		SW-CONT SOIL W/FUEL	13.00	F	23.25	TN
08/13/2015	I 01	962635	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	21.67	TN
08/13/2015	I 01	962636	3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	21.74	TN
08/13/2015	I 01	962641	3063146011	OAK848		SW-CONT SOIL W/FUEL	13.00	F	22.48	TN
08/13/2015	I 01	962645	3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	22.93	TN
08/13/2015	I 01	962648	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	17.95	TN

100053- CITY OF KENOSHA

Ticket Date	Facility & Ticket		Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
08/13/2015	I 01	962653	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	23.36	TN
08/13/2015	I 01	962657	3063146011	OAK848		SW-CONT SOIL W/FUEL	13.00	F	22.67	TN
08/13/2015	I 01	962664	3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	23.15	TN
08/13/2015	I 01	962667	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	23.49	TN
08/13/2015	I 01	962668	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	24.06	TN
08/13/2015	I 01	962671	3063146011	OAK848		SW-CONT SOIL W/FUEL	13.00	F	25.11	TN
08/13/2015	I 01	962675	3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	23.63	TN
08/13/2015	I 01	962677	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	21.59	TN
08/13/2015	I 01	962681	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	22.36	TN
08/13/2015	I 01	962686	3063146011	OAK848		SW-CONT SOIL W/FUEL	13.00	F	20.19	TN
08/13/2015	I 01	962689	3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	20.36	TN
08/13/2015	I 01	962696	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	18.56	TN
08/13/2015	I 01	962698	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	21.54	TN
08/13/2015	I 01	962701	3063146011	OAK848		SW-CONT SOIL W/FUEL	13.00	F	19.71	TN
08/13/2015	I 01	962703	3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	20.96	TN
08/13/2015	I 01	962708	3063146011	OAK844		SW-CONT SOIL W/FUEL	13.00	F	20.19	TN
08/13/2015	I 01	962710	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	20.04	TN
08/13/2015	I 01	962715	3063146011	OAK848		SW-CONT SOIL W/FUEL	13.00	F	18.85	TN
08/13/2015	I 01	962717	3063146011	OAK845		SW-CONT SOIL W/FUEL	13.00	F	19.25	TN
08/13/2015	I 01	962723	3063146011	OAK843		SW-CONT SOIL W/FUEL	13.00	F	15.76	TN

Tickets 814 Items Reported: 814 Customer Totals:

Material Summary	Weight Inbound	Weight Outbound	Volume Inbound	Volume Outbound	Count Inbound	Count Outbound	Billing Quantity	Material Total	Tax Total	Total
VH - SW-CONT SOIL	14,799.99	0.00 TN	11,775.00	0.00 YD	0.00	0.00	14,799.99 TN	#######	$0.00	#####
VI - SW-CONT SOIL-	2,541.16	0.00 TN	1,785.00	0.00 YD	0.00	0.00	2,541.16 TN	#######	$0.00	#####

Detail Customer Activity Report

All Ticket Types | July 01, 2015 to September 14, 2015

History and Waiting | Specific Customer: 100095

100095- KENOSHA

Ticket Date	Facility & Ticket	Contract	Truck #	Container	Material	Material Rate		Billing Quantity	
07/31/2015	I 01 961238	30631410699	H50		SW-CONST DEBRIS	15.00	F	17.13	TN
08/07/2015	I 01 961918	30631410699	OAK854		SW-CONST DEBRIS	15.00	F	5.29	TN
08/13/2015	I 01 962639	30631410699	OAK843		SW-CONST DEBRIS	15.00	F	21.95	TN
08/26/2015	I 01 963824	30631410699	OAK850		SW-CONST DEBRIS	15.00	F	12.07	TN

Tickets 4 Items Reported: 4 Customer Totals:

Material Summary	Weight Inbound	Weight Outbound	Volume Inbound	Volume Outbound	Count Inbound	Count Outbound	Billing Quantity	Material Total	Tax Total	Total
YB - SW-CONST	56.44	0.00 TN	60.00	0.00 YD	0.00	0.00	56.44 TN	$846.60	#####	#####

Cash Totals:

Invoice Totals: #

Tickets Reported: 4 Items Reported: 4 Report Totals: #

Appendix D

Monitoring Well Abandonment Forms

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☑ **Verification Only of Fill and Seal**

MW-48

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha	MW-48	

Lattitude / Longitude (Degrees and Minutes): ___ ° ___ ___ . ___ ___ ___ 'N ; ___ ° ___ ___ . ___ ___ ___ 'W

Method Code (see instructions):

¼ / ¼ | ¼ | Section | Township | Range ☐ E ☐ W

or Gov't Lot #

Well Street Address: 5555 30th Ave

Well City, Village or Town: Kenosha

Well ZIP Code: 53144

Subdivision Name:

Lot #:

Reason For Removal From Service: Redevelopment

WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Kenosha Engine Plant

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner: City of Kenosha

Present Well Owner: City of Kenosha

Mailing Address of Present Owner: 625 52nd Street, Room 305

City of Present Owner: Kenosha | State: WI | ZIP Code: 53140

3. Well / Drillhole / Borehole Information

☑ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 7/10/1996

If a Well Construction Report is available, please attach.

Construction Type: ☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.5	2.0
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8.25	15.0

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown

If yes, to what depth (feet)?

Depth to Water (feet): 7.97

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☐ Yes	☑ No	☐ N/A
Casing left in place?	☑ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☑ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☑ N/A

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials

☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.) ☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " " ☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☑ Bentonite Chips ☐ Bentonite - Cement Grout ☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	15	1/2 bag	
Bentonite chips			

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Andrew Schamber		8/19/2015

Street or Route: 1555 RiverCenter Dr.

Telephone Number: (414) 944-6080

City: Milwaukee | State: WI | ZIP Code: 53212

Signature of Person Doing Work: A. Schamber

Date Signed: 11/24/2015

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☑ **Verification Only of Fill and Seal**

MW-200

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha	MW-200	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)

__ __ ° __ __ . __ __ __ 'N
__ __ ° __ __ . __ __ __ 'W

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 5555 30th Ave

Well City, Village or Town	Well ZIP Code
Kenosha	53144

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Redevelopment	

2. Facility / Owner Information

Facility Name: Kenosha Engine Plant

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner: City of Kenosha

Present Well Owner: City of Kenosha

Mailing Address of Present Owner: 625 52nd Street, Room 305

City of Present Owner	State	ZIP Code
Kenosha	WI	53140

3. Well / Drillhole / Borehole Information

☑ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12/22/2014

If a Well Construction Report is available, please attach.

Construction Type:
☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
14.5	2.0

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.25	14.0

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	8.51

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☑ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☑ No	☐ N/A
Was casing cut off below surface?	☑ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☑ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☑ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
	Surface	14	1/2 bag	
Bentonite chips				

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Andrew Schamber		8/4/2015

Street or Route	Telephone Number
1555 RiverCenter Dr.	(414) 944-6080

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53212	A. [signature]	11/24/2015

DNR Use Only

Date Received	Noted By

Comments:

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

☑ **Verification Only of Fill and Seal**
MW-203

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: ____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha	MW-203	

Latitude / Longitude (Degrees and Minutes): ___ ° ___ . ___ ' N; ___ ° ___ . ___ ' W
Method Code (see instructions):

¼ / ¼: ___ ¼: ___ or Gov't Lot #: ___ Section: ___ Township: ___ N Range: ___ ☐ E ☐ W

Well Street Address: 5555 30th Ave

Well City, Village or Town	Well ZIP Code
Kenosha	53144

Subdivision Name: ___ Lot #: ___

Reason For Removal From Service	WI Unique Well # of Replacement Well
Redevelopment	

2. Facility / Owner Information

Facility Name: Kenosha Engine Plant
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: City of Kenosha
Present Well Owner: City of Kenosha
Mailing Address of Present Owner: 625 52nd Street, Room 305

City of Present Owner	State	ZIP Code
Kenosha	WI	53140

3. Well / Drillhole / Borehole Information

☑ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 3/24/2014
If a Well Construction Report is available, please attach.

Construction Type: ☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): ____

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	2.0

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.25	15.0

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown

If yes, to what depth (feet)? ___ Depth to Water (feet): 10.12

4. Pump, Liner, Screen, Casing & Sealing Material

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Screen removed?	☑	☐	☐
Casing left in place?	☐	☑	☐
Was casing cut off below surface?	☑	☐	☐
Did sealing material rise to surface?	☑	☐	☐
Did material settle after 24 hours?	☐	☑	☐
If yes, was hole retopped?	☐	☐	☑
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☑

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): ____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☑ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	15	1/2 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Andrew Schamber		7/30/2015

Street or Route	Telephone Number
1555 RiverCenter Dr.	(414) 944-6080

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53212	A. [signature]	11/24/2015

DNR Use Only
Date Received: ___ Noted By: ___
Comments: ___

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☑ **Verification Only of Fill and Seal**

MW-204

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha	MW-204	

Latitude / Longitude (Degrees and Minutes) — Method Code (see instructions)

__ __ ° __ __ . __ __ __ 'N

__ __ ° __ __ . __ __ __ 'W

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 5555 30th Ave

Well City, Village or Town	Well ZIP Code
Kenosha	53144

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Redevelopment	

2. Facility / Owner Information

Facility Name: Kenosha Engine Plant

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner: City of Kenosha

Present Well Owner: City of Kenosha

Mailing Address of Present Owner: 625 52nd Street, Room 305

City of Present Owner	State	ZIP Code
Kenosha	WI	53140

3. Well / Drillhole / Borehole Information

☑ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 3/24/2014

If a Well Construction Report is available, please attach.

Construction Type:
☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	2.0
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8.25	15.0

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	11.21

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☑ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☑ No	☐ N/A
Was casing cut off below surface?	☑ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☑ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☑ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	15	1/2 bag	
Bentonite chips			

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Andrew Schamber		8/4/2015

Street or Route	Telephone Number
1555 RiverCenter Dr.	(414) 944-6080

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53212	A. Schamber	11/24/2015

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☑ **Verification Only of Fill and Seal**

MW-205

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha	MW-205	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)

__ __ ° __ __ . __ __ __ 'N
__ __ ° __ __ . __ __ __ 'W

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 5555 30th Ave

Well City, Village or Town	Well ZIP Code
Kenosha	53144

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Redevelopment	

2. Facility / Owner Information

Facility Name: Kenosha Engine Plant

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner: City of Kenosha

Present Well Owner: City of Kenosha

Mailing Address of Present Owner: 625 52nd Street, Room 305

City of Present Owner	State	ZIP Code
Kenosha	WI	53140

3. Well / Drillhole / Borehole Information

☑ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 3/24/2014

If a Well Construction Report is available, please attach.

Construction Type:
☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	2.0

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.25	15.0

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	10.5

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☑ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☑ No	☐ N/A
Was casing cut off below surface?	☑ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☑ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☑ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	15	1/2 bag	
Bentonite chips			

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Andrew Schamber		7/30/2015

Street or Route	Telephone Number
1555 RiverCenter Dr.	(414) 944-6080

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53212	A. [signature]	11/24/2015

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☑ **Verification Only of Fill and Seal**

PZ-48

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha	PZ-48	

Latitude / Longitude (Degrees and Minutes) — Method Code (see instructions)

__ __ ° __ __ . __ __ __ 'N

__ __ ° __ __ . __ __ __ 'W

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 5555 30th Ave

Well City, Village or Town	Well ZIP Code
Kenosha	53144

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Redevelopment	

2. Facility / Owner Information

Facility Name: Kenosha Engine Plant

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner: City of Kenosha

Present Well Owner: City of Kenosha

Mailing Address of Present Owner: 625 52nd Street, Room 305

City of Present Owner	State	ZIP Code
Kenosha	WI	53140

3. Well / Drillhole / Borehole Information

☑ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12/23/2011

If a Well Construction Report is available, please attach.

Construction Type:
☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
24.0	20
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8.25	23.5

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	7.84

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☐ Yes	☑ No	☐ N/A
Casing left in place?	☑ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☑ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☑ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☑ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
	Surface	23.5	3/4 bag	
Bentonite chips				

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Andrew Schamber		8/19/2015

Street or Route	Telephone Number
1555 RiverCenter Dr.	(414) 944-6080

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53212		11/24/2015

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☑ **Verification Only of Fill and Seal**

PZ-200

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha	PZ-200	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)

__ __ ° __ __ . __ __ __ 'N
__ __ ° __ __ . __ __ __ 'W

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 5555 30th Ave

Well City, Village or Town	Well ZIP Code
Kenosha	53144

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Redevelopment	__ __ __ __ __

3. Well / Drillhole / Borehole Information

☑ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12/22/2011

If a Well Construction Report is available, please attach.

Construction Type:
☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
25.5	2.0
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8.25	25.0

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	7.46

2. Facility / Owner Information

Facility Name: Kenosha Engine Plant

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner: City of Kenosha

Present Well Owner: City of Kenosha

Mailing Address of Present Owner: 625 52nd Street, Room 305

City of Present Owner	State	ZIP Code
Kenosha	WI	53140

4. Pump, Liner, Screen, Casing & Sealing Material

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Screen removed?	☐	☑	☐
Casing left in place?	☐	☑	☐
Was casing cut off below surface?	☑	☐	☐
Did sealing material rise to surface?	☑	☐	☐
Did material settle after 24 hours?	☐	☑	☐
If yes, was hole retopped?	☐	☐	☑
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☑

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☑ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	25	3/4 bag	

Bentonite chips

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Andrew Schamber		8/4/2015

Street or Route	Telephone Number
1555 RiverCenter Dr.	(414) 944-6080

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53212	A. [signature]	11/24/2015

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☑ **Verification Only of Fill and Seal**

PZ-203

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha	PZ-203	

Latitude / Longitude (Degrees and Minutes) — Method Code (see instructions)

__ __ ° __ __ . __ __ __ 'N

__ __ ° __ __ . __ __ __ 'W

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 5555 30th Ave

Well City, Village or Town	Well ZIP Code
Kenosha	53144

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Redevelopment	

3. Well / Drillhole / Borehole Information

☑ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 3/24/2014

If a Well Construction Report is available, please attach.

Construction Type: ☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
25.0	2.0
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8.25	21.0

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	7.46

2. Facility / Owner Information

Facility Name: Kenosha Engine Plant

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner: City of Kenosha

Present Well Owner: City of Kenosha

Mailing Address of Present Owner: 625 52nd Street, Room 305

City of Present Owner	State	ZIP Code
Kenosha	WI	53140

4. Pump, Liner, Screen, Casing & Sealing Material

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Screen removed?	☐	☑	☐
Casing left in place?	☐	☑	☐
Was casing cut off below surface?	☑	☐	☐
Did sealing material rise to surface?	☑	☐	☐
Did material settle after 24 hours?	☐	☑	☐
If yes, was hole retopped?	☐	☐	☑
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☑

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials

☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.) ☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " " ☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☑ Bentonite Chips ☐ Bentonite - Cement Grout ☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	21	1/2 bag	
Bentonite chips			

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Andrew Schamber		7/30/2015

Street or Route	Telephone Number
1555 RiverCenter Dr.	(414) 944-6080

City	State	ZIP Code
Milwaukee	WI	53212

Signature of Person Doing Work: ~~11/24/15~~ A. [signature]

Date Signed: 11/24/2015

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☑ **Verification Only of Fill and Seal**

PZ-205

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha	PZ-205	

Latitude / Longitude (Degrees and Minutes): __ __ ° __ __ . __ __ __ 'N; __ __ ° __ __ . __ __ __ 'W

Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 5555 30th Ave

Well City, Village or Town	Well ZIP Code
Kenosha	53144

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Redevelopment	

3. Well / Drillhole / Borehole Information

☑ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 3/24/2014

If a Well Construction Report is available, please attach.

Construction Type: ☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
20.0	2.0
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8.25	19.5

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	10.5

2. Facility / Owner Information

Facility Name: Kenosha Engine Plant

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner: City of Kenosha

Present Well Owner: City of Kenosha

Mailing Address of Present Owner: 625 52nd Street, Room 305

City of Present Owner	State	ZIP Code
Kenosha	WI	53140

4. Pump, Liner, Screen, Casing & Sealing Material

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Screen removed?	☐	☑	☐
Casing left in place?	☐	☑	☐
Was casing cut off below surface?	☑	☐	☐
Did sealing material rise to surface?	☑	☐	☐
Did material settle after 24 hours?	☐	☑	☐
If yes, was hole retopped?	☐	☐	☑
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☑

Required Method of Placing Sealing Material: ☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials: ☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.) ☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " " ☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only: ☑ Bentonite Chips ☐ Bentonite - Cement Grout ☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	19.5	1/2 bag	
Bentonite chips			

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Andrew Schamber		7/30/2015

Street or Route	Telephone Number
1555 RiverCenter Dr.	(414) 944-6080

City	State	ZIP Code
Milwaukee	WI	53212

Signature of Person Doing Work: A. L

Date Signed: 11/24/2015

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☑ **Verification Only of Fill and Seal**

MW-201

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha	MW-201	

Latitude / Longitude (Degrees and Minutes): ___ ___ ° ___ ___ . ___ ___ ___ 'N / ___ ___ ° ___ ___ . ___ ___ ___ 'W

Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 5555 30th Ave

Well City, Village or Town	Well ZIP Code
Kenosha	53144

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Redevelopment	

3. Well / Drillhole / Borehole Information

☑ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12/22/2011

If a Well Construction Report is available, please attach.

Construction Type: ☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
14.5	2.0
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8.25	14.0

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

2. Facility / Owner Information

Facility Name: Kenosha Engine Plant

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner: City of Kenosha

Present Well Owner: City of Kenosha

Mailing Address of Present Owner: 625 52nd Street, Room 305

City of Present Owner	State	ZIP Code
Kenosha	WI	53140

4. Pump, Liner, Screen, Casing & Sealing Material

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Screen removed?	☑	☐	☐
Casing left in place?	☐	☑	☐
Was casing cut off below surface?	☑	☐	☐
Did sealing material rise to surface?	☑	☐	☐
Did material settle after 24 hours?	☐	☑	☐
If yes, was hole retopped?	☐	☐	☑
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☑

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☑ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	14	1/2 bag	
Bentonite chips			

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Andrew Schamber		8/4/2015

Street or Route	Telephone Number
1555 RiverCenter Dr.	(414) 944-6080

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53212	A. [signature]	4/24/2015

DNR Use Only

Date Received	Noted By

Comments:

Appendix E

Laboratory Analytical Reports

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

August 13, 2015

Lanette Altenbach
AECOM, Inc.- MILWAUKEE
1555 N River Center Drive
Suite 214
Milwaukee, WI 53212

RE: Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Dear Lanette Altenbach:
Enclosed are the analytical results for sample(s) received by the laboratory on August 06, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
Project Manager

Enclosures

cc: Ken Brown, AECOM, Inc. - MILWAUKEE
Sarah Engelhardt, AECOM, Inc. - MILWAUKEE

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

CERTIFICATIONS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

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
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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

SAMPLE SUMMARY

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40119267001	**E32L-SW-1**	Solid	08/04/15 08:20	08/06/15 09:00
40119267002	**E32L-SW-2**	Solid	08/04/15 08:25	08/06/15 09:00
40119267003	**E32L-SW-6**	Solid	08/04/15 08:30	08/06/15 09:00
40119267004	**E32L-SW-3**	Solid	08/04/15 08:55	08/06/15 09:00
40119267005	**E32L-SW-4**	Solid	08/04/15 09:00	08/06/15 09:00
40119267006	**E32L-SW-5**	Solid	08/04/15 09:10	08/06/15 09:00
40119267007	**E32L-B-7**	Solid	08/04/15 09:05	08/06/15 09:00
40119267008	**E32L-B-8**	Solid	08/04/15 09:15	08/06/15 09:00
40119267009	**TRIP BLANK**	Solid	08/04/15 08:00	08/06/15 09:00

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

SAMPLE ANALYTE COUNT

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40119267001	**E32L-SW-1**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	LAP	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119267002	**E32L-SW-2**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	LAP	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119267003	**E32L-SW-6**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	LAP	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119267004	**E32L-SW-3**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	LAP	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119267005	**E32L-SW-4**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	LAP	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119267006	**E32L-SW-5**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	LAP	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119267007	**E32L-B-7**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119267008	**E32L-B-8**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	LAP	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119267009	**TRIP BLANK**	EPA 8260	LAP	64	PASI-G

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-SW-1 **Lab ID: 40119267001** Collected: 08/04/15 08:20 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**619**	ug/kg	365	182	20	08/10/15 08:56	08/12/15 13:09	83-32-9	
Acenaphthylene	**<163**	ug/kg	365	163	20	08/10/15 08:56	08/12/15 13:09	208-96-8	
Anthracene	**1660**	ug/kg	365	189	20	08/10/15 08:56	08/12/15 13:09	120-12-7	
Benzo(a)anthracene	**<126**	ug/kg	365	126	20	08/10/15 08:56	08/12/15 13:09	56-55-3	
Benzo(a)pyrene	**<130**	ug/kg	365	130	20	08/10/15 08:56	08/12/15 13:09	50-32-8	
Benzo(b)fluoranthene	**<182**	ug/kg	365	182	20	08/10/15 08:56	08/12/15 13:09	205-99-2	
Benzo(g,h,i)perylene	**<139**	ug/kg	365	139	20	08/10/15 08:56	08/12/15 13:09	191-24-2	
Benzo(k)fluoranthene	**<202**	ug/kg	365	202	20	08/10/15 08:56	08/12/15 13:09	207-08-9	
Chrysene	**<169**	ug/kg	365	169	20	08/10/15 08:56	08/12/15 13:09	218-01-9	
Dibenz(a,h)anthracene	**<134**	ug/kg	365	134	20	08/10/15 08:56	08/12/15 13:09	53-70-3	
Fluoranthene	**369**	ug/kg	365	182	20	08/10/15 08:56	08/12/15 13:09	206-44-0	
Fluorene	**8050**	ug/kg	365	182	20	08/10/15 08:56	08/12/15 13:09	86-73-7	
Indeno(1,2,3-cd)pyrene	**<139**	ug/kg	365	139	20	08/10/15 08:56	08/12/15 13:09	193-39-5	
1-Methylnaphthalene	**958**	ug/kg	365	182	20	08/10/15 08:56	08/12/15 13:09	90-12-0	
2-Methylnaphthalene	**1130**	ug/kg	365	182	20	08/10/15 08:56	08/12/15 13:09	91-57-6	
Naphthalene	**266J**	ug/kg	365	182	20	08/10/15 08:56	08/12/15 13:09	91-20-3	
Phenanthrene	**8950**	ug/kg	365	182	20	08/10/15 08:56	08/12/15 13:09	85-01-8	
Pyrene	**451**	ug/kg	365	182	20	08/10/15 08:56	08/12/15 13:09	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	39-130		20	08/10/15 08:56	08/12/15 13:09	321-60-8	
Terphenyl-d14 (S)	52	%	37-130		20	08/10/15 08:56	08/12/15 13:09	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/07/15 07:22	08/07/15 15:50	74-83-9	W
n-Butylbenzene	**127**	ug/kg	65.6	27.3	1	08/07/15 07:22	08/07/15 15:50	104-51-8	
sec-Butylbenzene	**57.7J**	ug/kg	65.6	27.3	1	08/07/15 07:22	08/07/15 15:50	135-98-8	
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/07/15 07:22	08/07/15 15:50	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/07/15 07:22	08/07/15 15:50	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/07/15 07:22	08/07/15 15:50	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-SW-1 **Lab ID: 40119267001** Collected: 08/04/15 08:20 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	98-82-8	W
p-Isopropyltoluene	**44.0J**	ug/kg	65.6	27.3	1	08/07/15 07:22	08/07/15 15:50	99-87-6	
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	1634-04-4	W
Naphthalene	**320**	ug/kg	273	43.8	1	08/07/15 07:22	08/07/15 15:50	91-20-3	
n-Propylbenzene	**47.6J**	ug/kg	65.6	27.3	1	08/07/15 07:22	08/07/15 15:50	103-65-1	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/07/15 07:22	08/07/15 15:50	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	96-18-4	W
1,2,4-Trimethylbenzene	**112**	ug/kg	65.6	27.3	1	08/07/15 07:22	08/07/15 15:50	95-63-6	
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/07/15 07:22	08/07/15 15:50	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 15:50	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	116	%	49-157		1	08/07/15 07:22	08/07/15 15:50	1868-53-7	
Toluene-d8 (S)	114	%	61-148		1	08/07/15 07:22	08/07/15 15:50	2037-26-5	
4-Bromofluorobenzene (S)	103	%	53-134		1	08/07/15 07:22	08/07/15 15:50	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-SW-1 **Lab ID: 40119267001** Collected: 08/04/15 08:20 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.6**	%	0.10	0.10	1		08/10/15 13:25		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-SW-2 **Lab ID: 40119267002** Collected: 08/04/15 08:25 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**43.5**	ug/kg	24.1	12.0	1	08/10/15 08:56	08/11/15 14:24	83-32-9	
Acenaphthylene	**24.1**	ug/kg	24.1	10.8	1	08/10/15 08:56	08/11/15 14:24	208-96-8	
Anthracene	**47.4**	ug/kg	24.1	12.5	1	08/10/15 08:56	08/11/15 14:24	120-12-7	
Benzo(a)anthracene	**54.2**	ug/kg	24.1	8.3	1	08/10/15 08:56	08/11/15 14:24	56-55-3	
Benzo(a)pyrene	**256**	ug/kg	24.1	8.6	1	08/10/15 08:56	08/11/15 14:24	50-32-8	
Benzo(b)fluoranthene	**198**	ug/kg	24.1	12.0	1	08/10/15 08:56	08/11/15 14:24	205-99-2	
Benzo(g,h,i)perylene	**89.8**	ug/kg	24.1	9.2	1	08/10/15 08:56	08/11/15 14:24	191-24-2	
Benzo(k)fluoranthene	**126**	ug/kg	24.1	13.3	1	08/10/15 08:56	08/11/15 14:24	207-08-9	
Chrysene	**152**	ug/kg	24.1	11.1	1	08/10/15 08:56	08/11/15 14:24	218-01-9	
Dibenz(a,h)anthracene	**88.8**	ug/kg	24.1	8.8	1	08/10/15 08:56	08/11/15 14:24	53-70-3	
Fluoranthene	**124**	ug/kg	24.1	12.0	1	08/10/15 08:56	08/11/15 14:24	206-44-0	
Fluorene	**89.2**	ug/kg	24.1	12.0	1	08/10/15 08:56	08/11/15 14:24	86-73-7	
Indeno(1,2,3-cd)pyrene	**89.9**	ug/kg	24.1	9.1	1	08/10/15 08:56	08/11/15 14:24	193-39-5	
1-Methylnaphthalene	**25.6**	ug/kg	24.1	12.0	1	08/10/15 08:56	08/11/15 14:24	90-12-0	
2-Methylnaphthalene	**37.4**	ug/kg	24.1	12.0	1	08/10/15 08:56	08/11/15 14:24	91-57-6	
Naphthalene	**31.6**	ug/kg	24.1	12.0	1	08/10/15 08:56	08/11/15 14:24	91-20-3	
Phenanthrene	**127**	ug/kg	24.1	12.0	1	08/10/15 08:56	08/11/15 14:24	85-01-8	
Pyrene	**170**	ug/kg	24.1	12.0	1	08/10/15 08:56	08/11/15 14:24	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	45	%	39-130		1	08/10/15 08:56	08/11/15 14:24	321-60-8	
Terphenyl-d14 (S)	43	%	37-130		1	08/10/15 08:56	08/11/15 14:24	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/07/15 07:22	08/07/15 18:09	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/07/15 07:22	08/07/15 18:09	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/07/15 07:22	08/07/15 18:09	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/07/15 07:22	08/07/15 18:09	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-SW-2 **Lab ID: 40119267002** Collected: 08/04/15 08:25 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/07/15 07:22	08/07/15 18:09	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/07/15 07:22	08/07/15 18:09	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/07/15 07:22	08/07/15 18:09	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:09	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	97	%	49-157		1	08/07/15 07:22	08/07/15 18:09	1868-53-7	
Toluene-d8 (S)	99	%	61-148		1	08/07/15 07:22	08/07/15 18:09	2037-26-5	
4-Bromofluorobenzene (S)	90	%	53-134		1	08/07/15 07:22	08/07/15 18:09	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-SW-2 **Lab ID: 40119267002** Collected: 08/04/15 08:25 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**30.7**	%	0.10	0.10	1		08/10/15 13:25		

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-SW-6 **Lab ID: 40119267003** Collected: 08/04/15 08:30 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<10.6**	ug/kg	21.2	10.6	1	08/10/15 08:56	08/10/15 22:03	83-32-9	
Acenaphthylene	**10.6J**	ug/kg	21.2	9.5	1	08/10/15 08:56	08/10/15 22:03	208-96-8	
Anthracene	**13.8J**	ug/kg	21.2	11.0	1	08/10/15 08:56	08/10/15 22:03	120-12-7	
Benzo(a)anthracene	**47.5**	ug/kg	21.2	7.4	1	08/10/15 08:56	08/10/15 22:03	56-55-3	
Benzo(a)pyrene	**53.7**	ug/kg	21.2	7.6	1	08/10/15 08:56	08/10/15 22:03	50-32-8	
Benzo(b)fluoranthene	**57.9**	ug/kg	21.2	10.6	1	08/10/15 08:56	08/10/15 22:03	205-99-2	
Benzo(g,h,i)perylene	**33.5**	ug/kg	21.2	8.1	1	08/10/15 08:56	08/10/15 22:03	191-24-2	
Benzo(k)fluoranthene	**54.9**	ug/kg	21.2	11.7	1	08/10/15 08:56	08/10/15 22:03	207-08-9	
Chrysene	**76.9**	ug/kg	21.2	9.8	1	08/10/15 08:56	08/10/15 22:03	218-01-9	
Dibenz(a,h)anthracene	**11.8J**	ug/kg	21.2	7.8	1	08/10/15 08:56	08/10/15 22:03	53-70-3	
Fluoranthene	**137**	ug/kg	21.2	10.6	1	08/10/15 08:56	08/10/15 22:03	206-44-0	
Fluorene	**<10.6**	ug/kg	21.2	10.6	1	08/10/15 08:56	08/10/15 22:03	86-73-7	
Indeno(1,2,3-cd)pyrene	**31.0**	ug/kg	21.2	8.1	1	08/10/15 08:56	08/10/15 22:03	193-39-5	
1-Methylnaphthalene	**<10.6**	ug/kg	21.2	10.6	1	08/10/15 08:56	08/10/15 22:03	90-12-0	
2-Methylnaphthalene	**<10.6**	ug/kg	21.2	10.6	1	08/10/15 08:56	08/10/15 22:03	91-57-6	
Naphthalene	**<10.6**	ug/kg	21.2	10.6	1	08/10/15 08:56	08/10/15 22:03	91-20-3	
Phenanthrene	**80.2**	ug/kg	21.2	10.6	1	08/10/15 08:56	08/10/15 22:03	85-01-8	
Pyrene	**117**	ug/kg	21.2	10.6	1	08/10/15 08:56	08/10/15 22:03	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%	39-130		1	08/10/15 08:56	08/10/15 22:03	321-60-8	
Terphenyl-d14 (S)	50	%	37-130		1	08/10/15 08:56	08/10/15 22:03	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/07/15 07:22	08/07/15 18:32	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/07/15 07:22	08/07/15 18:32	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/07/15 07:22	08/07/15 18:32	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/07/15 07:22	08/07/15 18:32	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-SW-6 **Lab ID: 40119267003** Collected: 08/04/15 08:30 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/07/15 07:22	08/07/15 18:32	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/07/15 07:22	08/07/15 18:32	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/07/15 07:22	08/07/15 18:32	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 18:32	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	138	%	49-157		1	08/07/15 07:22	08/07/15 18:32	1868-53-7	
Toluene-d8 (S)	140	%	61-148		1	08/07/15 07:22	08/07/15 18:32	2037-26-5	
4-Bromofluorobenzene (S)	125	%	53-134		1	08/07/15 07:22	08/07/15 18:32	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-SW-6 **Lab ID: 40119267003** Collected: 08/04/15 08:30 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.4**	%	0.10	0.10	1		08/10/15 13:25		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-SW-3 **Lab ID: 40119267004** Collected: 08/04/15 08:55 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<10.0**	ug/kg	20.0	10.0	1	08/10/15 08:56	08/11/15 07:56	83-32-9	
Acenaphthylene	**<8.9**	ug/kg	20.0	8.9	1	08/10/15 08:56	08/11/15 07:56	208-96-8	
Anthracene	**<10.4**	ug/kg	20.0	10.4	1	08/10/15 08:56	08/11/15 07:56	120-12-7	
Benzo(a)anthracene	**<6.9**	ug/kg	20.0	6.9	1	08/10/15 08:56	08/11/15 07:56	56-55-3	
Benzo(a)pyrene	**<7.2**	ug/kg	20.0	7.2	1	08/10/15 08:56	08/11/15 07:56	50-32-8	
Benzo(b)fluoranthene	**<10.0**	ug/kg	20.0	10.0	1	08/10/15 08:56	08/11/15 07:56	205-99-2	
Benzo(g,h,i)perylene	**<7.6**	ug/kg	20.0	7.6	1	08/10/15 08:56	08/11/15 07:56	191-24-2	
Benzo(k)fluoranthene	**<11.1**	ug/kg	20.0	11.1	1	08/10/15 08:56	08/11/15 07:56	207-08-9	
Chrysene	**<9.2**	ug/kg	20.0	9.2	1	08/10/15 08:56	08/11/15 07:56	218-01-9	
Dibenz(a,h)anthracene	**<7.3**	ug/kg	20.0	7.3	1	08/10/15 08:56	08/11/15 07:56	53-70-3	
Fluoranthene	**<10.0**	ug/kg	20.0	10.0	1	08/10/15 08:56	08/11/15 07:56	206-44-0	R1
Fluorene	**<10.0**	ug/kg	20.0	10.0	1	08/10/15 08:56	08/11/15 07:56	86-73-7	
Indeno(1,2,3-cd)pyrene	**<7.6**	ug/kg	20.0	7.6	1	08/10/15 08:56	08/11/15 07:56	193-39-5	
1-Methylnaphthalene	**<10.0**	ug/kg	20.0	10.0	1	08/10/15 08:56	08/11/15 07:56	90-12-0	
2-Methylnaphthalene	**<10.0**	ug/kg	20.0	10.0	1	08/10/15 08:56	08/11/15 07:56	91-57-6	
Naphthalene	**<10.0**	ug/kg	20.0	10.0	1	08/10/15 08:56	08/11/15 07:56	91-20-3	
Phenanthrene	**<10.0**	ug/kg	20.0	10.0	1	08/10/15 08:56	08/11/15 07:56	85-01-8	
Pyrene	**<10.0**	ug/kg	20.0	10.0	1	08/10/15 08:56	08/11/15 07:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	66	%	39-130		1	08/10/15 08:56	08/11/15 07:56	321-60-8	
Terphenyl-d14 (S)	65	%	37-130		1	08/10/15 08:56	08/11/15 07:56	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/07/15 07:22	08/07/15 16:13	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/07/15 07:22	08/07/15 16:13	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/07/15 07:22	08/07/15 16:13	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/07/15 07:22	08/07/15 16:13	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-SW-3 **Lab ID: 40119267004** Collected: 08/04/15 08:55 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/07/15 07:22	08/07/15 16:13	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/07/15 07:22	08/07/15 16:13	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/07/15 07:22	08/07/15 16:13	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:13	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	105	%	49-157		1	08/07/15 07:22	08/07/15 16:13	1868-53-7	
Toluene-d8 (S)	104	%	61-148		1	08/07/15 07:22	08/07/15 16:13	2037-26-5	
4-Bromofluorobenzene (S)	93	%	53-134		1	08/07/15 07:22	08/07/15 16:13	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-SW-3 **Lab ID: 40119267004** Collected: 08/04/15 08:55 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.7**	%	0.10	0.10	1		08/10/15 13:25		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-SW-4 **Lab ID: 40119267005** Collected: 08/04/15 09:00 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**374**	ug/kg	352	176	20	08/10/15 08:56	08/12/15 13:26	83-32-9	
Acenaphthylene	**<158**	ug/kg	352	158	20	08/10/15 08:56	08/12/15 13:26	208-96-8	
Anthracene	**2110**	ug/kg	352	183	20	08/10/15 08:56	08/12/15 13:26	120-12-7	
Benzo(a)anthracene	**185J**	ug/kg	352	122	20	08/10/15 08:56	08/12/15 13:26	56-55-3	
Benzo(a)pyrene	**<126**	ug/kg	352	126	20	08/10/15 08:56	08/12/15 13:26	50-32-8	
Benzo(b)fluoranthene	**<176**	ug/kg	352	176	20	08/10/15 08:56	08/12/15 13:26	205-99-2	
Benzo(g,h,i)perylene	**<134**	ug/kg	352	134	20	08/10/15 08:56	08/12/15 13:26	191-24-2	
Benzo(k)fluoranthene	**<195**	ug/kg	352	195	20	08/10/15 08:56	08/12/15 13:26	207-08-9	
Chrysene	**210J**	ug/kg	352	163	20	08/10/15 08:56	08/12/15 13:26	218-01-9	
Dibenz(a,h)anthracene	**<129**	ug/kg	352	129	20	08/10/15 08:56	08/12/15 13:26	53-70-3	
Fluoranthene	**1250**	ug/kg	352	176	20	08/10/15 08:56	08/12/15 13:26	206-44-0	
Fluorene	**3220**	ug/kg	352	176	20	08/10/15 08:56	08/12/15 13:26	86-73-7	
Indeno(1,2,3-cd)pyrene	**<134**	ug/kg	352	134	20	08/10/15 08:56	08/12/15 13:26	193-39-5	
1-Methylnaphthalene	**771**	ug/kg	352	176	20	08/10/15 08:56	08/12/15 13:26	90-12-0	
2-Methylnaphthalene	**739**	ug/kg	352	176	20	08/10/15 08:56	08/12/15 13:26	91-57-6	
Naphthalene	**<176**	ug/kg	352	176	20	08/10/15 08:56	08/12/15 13:26	91-20-3	
Phenanthrene	**7300**	ug/kg	352	176	20	08/10/15 08:56	08/12/15 13:26	85-01-8	
Pyrene	**1070**	ug/kg	352	176	20	08/10/15 08:56	08/12/15 13:26	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	54	%	39-130		20	08/10/15 08:56	08/12/15 13:26	321-60-8	
Terphenyl-d14 (S)	45	%	37-130		20	08/10/15 08:56	08/12/15 13:26	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/07/15 07:22	08/07/15 16:36	74-83-9	W
n-Butylbenzene	**71.6**	ug/kg	63.4	26.4	1	08/07/15 07:22	08/07/15 16:36	104-51-8	
sec-Butylbenzene	**26.7J**	ug/kg	63.4	26.4	1	08/07/15 07:22	08/07/15 16:36	135-98-8	
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/07/15 07:22	08/07/15 16:36	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/07/15 07:22	08/07/15 16:36	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/07/15 07:22	08/07/15 16:36	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-SW-4 **Lab ID: 40119267005** Collected: 08/04/15 09:00 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	75-35-4	W
cis-1,2-Dichloroethene	**71.5**	ug/kg	63.4	26.4	1	08/07/15 07:22	08/07/15 16:36	156-59-2	
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	98-82-8	W
p-Isopropyltoluene	**46.5J**	ug/kg	63.4	26.4	1	08/07/15 07:22	08/07/15 16:36	99-87-6	
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	1634-04-4	W
Naphthalene	**200J**	ug/kg	264	42.3	1	08/07/15 07:22	08/07/15 16:36	91-20-3	
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	79-34-5	W
Tetrachloroethene	**31.4J**	ug/kg	63.4	26.4	1	08/07/15 07:22	08/07/15 16:36	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/07/15 07:22	08/07/15 16:36	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	79-00-5	W
Trichloroethene	**72.6**	ug/kg	63.4	26.4	1	08/07/15 07:22	08/07/15 16:36	79-01-6	
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	96-18-4	W
1,2,4-Trimethylbenzene	**128**	ug/kg	63.4	26.4	1	08/07/15 07:22	08/07/15 16:36	95-63-6	
1,3,5-Trimethylbenzene	**32.5J**	ug/kg	63.4	26.4	1	08/07/15 07:22	08/07/15 16:36	108-67-8	
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/07/15 07:22	08/07/15 16:36	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 16:36	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	112	%	49-157		1	08/07/15 07:22	08/07/15 16:36	1868-53-7	
Toluene-d8 (S)	113	%	61-148		1	08/07/15 07:22	08/07/15 16:36	2037-26-5	
4-Bromofluorobenzene (S)	101	%	53-134		1	08/07/15 07:22	08/07/15 16:36	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-SW-4 **Lab ID: 40119267005** Collected: 08/04/15 09:00 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.4**	%	0.10	0.10	1		08/10/15 13:25		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-SW-5 **Lab ID: 40119267006** Collected: 08/04/15 09:10 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**284J**	ug/kg	389	195	20	08/10/15 08:56	08/12/15 13:43	83-32-9	
Acenaphthylene	**<174**	ug/kg	389	174	20	08/10/15 08:56	08/12/15 13:43	208-96-8	
Anthracene	**495**	ug/kg	389	202	20	08/10/15 08:56	08/12/15 13:43	120-12-7	
Benzo(a)anthracene	**<135**	ug/kg	389	135	20	08/10/15 08:56	08/12/15 13:43	56-55-3	
Benzo(a)pyrene	**<139**	ug/kg	389	139	20	08/10/15 08:56	08/12/15 13:43	50-32-8	
Benzo(b)fluoranthene	**<195**	ug/kg	389	195	20	08/10/15 08:56	08/12/15 13:43	205-99-2	
Benzo(g,h,i)perylene	**<148**	ug/kg	389	148	20	08/10/15 08:56	08/12/15 13:43	191-24-2	
Benzo(k)fluoranthene	**<216**	ug/kg	389	216	20	08/10/15 08:56	08/12/15 13:43	207-08-9	
Chrysene	**<180**	ug/kg	389	180	20	08/10/15 08:56	08/12/15 13:43	218-01-9	
Dibenz(a,h)anthracene	**<143**	ug/kg	389	143	20	08/10/15 08:56	08/12/15 13:43	53-70-3	
Fluoranthene	**<195**	ug/kg	389	195	20	08/10/15 08:56	08/12/15 13:43	206-44-0	
Fluorene	**1190**	ug/kg	389	195	20	08/10/15 08:56	08/12/15 13:43	86-73-7	
Indeno(1,2,3-cd)pyrene	**<148**	ug/kg	389	148	20	08/10/15 08:56	08/12/15 13:43	193-39-5	
1-Methylnaphthalene	**642**	ug/kg	389	195	20	08/10/15 08:56	08/12/15 13:43	90-12-0	
2-Methylnaphthalene	**258J**	ug/kg	389	195	20	08/10/15 08:56	08/12/15 13:43	91-57-6	
Naphthalene	**<195**	ug/kg	389	195	20	08/10/15 08:56	08/12/15 13:43	91-20-3	
Phenanthrene	**3620**	ug/kg	389	195	20	08/10/15 08:56	08/12/15 13:43	85-01-8	
Pyrene	**<195**	ug/kg	389	195	20	08/10/15 08:56	08/12/15 13:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	39-130		20	08/10/15 08:56	08/12/15 13:43	321-60-8	
Terphenyl-d14 (S)	51	%	37-130		20	08/10/15 08:56	08/12/15 13:43	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/07/15 07:22	08/07/15 17:00	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/07/15 07:22	08/07/15 17:00	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/07/15 07:22	08/07/15 17:00	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/07/15 07:22	08/07/15 17:00	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-SW-5 **Lab ID: 40119267006** Collected: 08/04/15 09:10 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	1634-04-4	W
Naphthalene	**83.8J**	ug/kg	292	46.8	1	08/07/15 07:22	08/07/15 17:00	91-20-3	
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/07/15 07:22	08/07/15 17:00	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/07/15 07:22	08/07/15 17:00	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 17:00	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	117	%	49-157		1	08/07/15 07:22	08/07/15 17:00	1868-53-7	
Toluene-d8 (S)	115	%	61-148		1	08/07/15 07:22	08/07/15 17:00	2037-26-5	
4-Bromofluorobenzene (S)	103	%	53-134		1	08/07/15 07:22	08/07/15 17:00	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-SW-5 **Lab ID: 40119267006** Collected: 08/04/15 09:10 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.4**	%	0.10	0.10	1		08/10/15 13:25		

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-B-7 **Lab ID: 40119267007** Collected: 08/04/15 09:05 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**30.2**	ug/kg	21.6	10.8	1	08/10/15 08:56	08/11/15 09:39	83-32-9	
Acenaphthylene	**<9.7**	ug/kg	21.6	9.7	1	08/10/15 08:56	08/11/15 09:39	208-96-8	
Anthracene	**<11.2**	ug/kg	21.6	11.2	1	08/10/15 08:56	08/11/15 09:39	120-12-7	
Benzo(a)anthracene	**<7.5**	ug/kg	21.6	7.5	1	08/10/15 08:56	08/11/15 09:39	56-55-3	
Benzo(a)pyrene	**<7.7**	ug/kg	21.6	7.7	1	08/10/15 08:56	08/11/15 09:39	50-32-8	
Benzo(b)fluoranthene	**<10.8**	ug/kg	21.6	10.8	1	08/10/15 08:56	08/11/15 09:39	205-99-2	
Benzo(g,h,i)perylene	**<8.2**	ug/kg	21.6	8.2	1	08/10/15 08:56	08/11/15 09:39	191-24-2	
Benzo(k)fluoranthene	**<12.0**	ug/kg	21.6	12.0	1	08/10/15 08:56	08/11/15 09:39	207-08-9	
Chrysene	**<10**	ug/kg	21.6	10	1	08/10/15 08:56	08/11/15 09:39	218-01-9	
Dibenz(a,h)anthracene	**<7.9**	ug/kg	21.6	7.9	1	08/10/15 08:56	08/11/15 09:39	53-70-3	
Fluoranthene	**<10.8**	ug/kg	21.6	10.8	1	08/10/15 08:56	08/11/15 09:39	206-44-0	
Fluorene	**15.1J**	ug/kg	21.6	10.8	1	08/10/15 08:56	08/11/15 09:39	86-73-7	
Indeno(1,2,3-cd)pyrene	**<8.2**	ug/kg	21.6	8.2	1	08/10/15 08:56	08/11/15 09:39	193-39-5	
1-Methylnaphthalene	**18.3J**	ug/kg	21.6	10.8	1	08/10/15 08:56	08/11/15 09:39	90-12-0	
2-Methylnaphthalene	**<10.8**	ug/kg	21.6	10.8	1	08/10/15 08:56	08/11/15 09:39	91-57-6	
Naphthalene	**11.2J**	ug/kg	21.6	10.8	1	08/10/15 08:56	08/11/15 09:39	91-20-3	
Phenanthrene	**<10.8**	ug/kg	21.6	10.8	1	08/10/15 08:56	08/11/15 09:39	85-01-8	
Pyrene	**<10.8**	ug/kg	21.6	10.8	1	08/10/15 08:56	08/11/15 09:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	55	%	39-130		1	08/10/15 08:56	08/11/15 09:39	321-60-8	
Terphenyl-d14 (S)	54	%	37-130		1	08/10/15 08:56	08/11/15 09:39	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/07/15 07:22	08/10/15 10:43	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/07/15 07:22	08/10/15 10:43	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/07/15 07:22	08/10/15 10:43	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/07/15 07:22	08/10/15 10:43	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-B-7 **Lab ID: 40119267007** Collected: 08/04/15 09:05 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	75-71-8	W
1,1-Dichloroethane	**177**	ug/kg	77.8	32.4	1	08/07/15 07:22	08/10/15 10:43	75-34-3	
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	108-20-3	W
Ethylbenzene	**41.1J**	ug/kg	77.8	32.4	1	08/07/15 07:22	08/10/15 10:43	100-41-4	
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	87-68-3	W
Isopropylbenzene (Cumene)	**57.3J**	ug/kg	77.8	32.4	1	08/07/15 07:22	08/10/15 10:43	98-82-8	
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/07/15 07:22	08/10/15 10:43	91-20-3	W
n-Propylbenzene	**99.8**	ug/kg	77.8	32.4	1	08/07/15 07:22	08/10/15 10:43	103-65-1	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/07/15 07:22	08/10/15 10:43	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	79-00-5	W
Trichloroethene	**492**	ug/kg	77.8	32.4	1	08/07/15 07:22	08/10/15 10:43	79-01-6	
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/07/15 07:22	08/10/15 10:43	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/10/15 10:43	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	117	%	49-157		1	08/07/15 07:22	08/10/15 10:43	1868-53-7	
Toluene-d8 (S)	121	%	61-148		1	08/07/15 07:22	08/10/15 10:43	2037-26-5	
4-Bromofluorobenzene (S)	113	%	53-134		1	08/07/15 07:22	08/10/15 10:43	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-B-7 **Lab ID: 40119267007** Collected: 08/04/15 09:05 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.9**	%	0.10	0.10	1		08/10/15 13:25		

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-B-8 **Lab ID: 40119267008** Collected: 08/04/15 09:15 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<10.4**	ug/kg	20.8	10.4	1	08/10/15 08:56	08/11/15 09:56	83-32-9	
Acenaphthylene	**<9.3**	ug/kg	20.8	9.3	1	08/10/15 08:56	08/11/15 09:56	208-96-8	
Anthracene	**<10.8**	ug/kg	20.8	10.8	1	08/10/15 08:56	08/11/15 09:56	120-12-7	
Benzo(a)anthracene	**<7.2**	ug/kg	20.8	7.2	1	08/10/15 08:56	08/11/15 09:56	56-55-3	
Benzo(a)pyrene	**<7.4**	ug/kg	20.8	7.4	1	08/10/15 08:56	08/11/15 09:56	50-32-8	
Benzo(b)fluoranthene	**<10.4**	ug/kg	20.8	10.4	1	08/10/15 08:56	08/11/15 09:56	205-99-2	
Benzo(g,h,i)perylene	**<7.9**	ug/kg	20.8	7.9	1	08/10/15 08:56	08/11/15 09:56	191-24-2	
Benzo(k)fluoranthene	**<11.5**	ug/kg	20.8	11.5	1	08/10/15 08:56	08/11/15 09:56	207-08-9	
Chrysene	**<9.6**	ug/kg	20.8	9.6	1	08/10/15 08:56	08/11/15 09:56	218-01-9	
Dibenz(a,h)anthracene	**<7.6**	ug/kg	20.8	7.6	1	08/10/15 08:56	08/11/15 09:56	53-70-3	
Fluoranthene	**<10.4**	ug/kg	20.8	10.4	1	08/10/15 08:56	08/11/15 09:56	206-44-0	
Fluorene	**<10.4**	ug/kg	20.8	10.4	1	08/10/15 08:56	08/11/15 09:56	86-73-7	
Indeno(1,2,3-cd)pyrene	**<7.9**	ug/kg	20.8	7.9	1	08/10/15 08:56	08/11/15 09:56	193-39-5	
1-Methylnaphthalene	**<10.4**	ug/kg	20.8	10.4	1	08/10/15 08:56	08/11/15 09:56	90-12-0	
2-Methylnaphthalene	**<10.4**	ug/kg	20.8	10.4	1	08/10/15 08:56	08/11/15 09:56	91-57-6	
Naphthalene	**<10.4**	ug/kg	20.8	10.4	1	08/10/15 08:56	08/11/15 09:56	91-20-3	
Phenanthrene	**<10.4**	ug/kg	20.8	10.4	1	08/10/15 08:56	08/11/15 09:56	85-01-8	
Pyrene	**<10.4**	ug/kg	20.8	10.4	1	08/10/15 08:56	08/11/15 09:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	39-130		1	08/10/15 08:56	08/11/15 09:56	321-60-8	
Terphenyl-d14 (S)	57	%	37-130		1	08/10/15 08:56	08/11/15 09:56	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/07/15 07:22	08/07/15 19:18	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/07/15 07:22	08/07/15 19:18	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/07/15 07:22	08/07/15 19:18	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/07/15 07:22	08/07/15 19:18	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-B-8 **Lab ID: 40119267008** Collected: 08/04/15 09:15 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	75-71-8	W
1,1-Dichloroethane	**35.9J**	ug/kg	74.8	31.2	1	08/07/15 07:22	08/07/15 19:18	75-34-3	
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/07/15 07:22	08/07/15 19:18	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/07/15 07:22	08/07/15 19:18	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/07/15 07:22	08/07/15 19:18	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 19:18	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	121	%	49-157		1	08/07/15 07:22	08/07/15 19:18	1868-53-7	
Toluene-d8 (S)	117	%	61-148		1	08/07/15 07:22	08/07/15 19:18	2037-26-5	
4-Bromofluorobenzene (S)	103	%	53-134		1	08/07/15 07:22	08/07/15 19:18	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: E32L-B-8 **Lab ID: 40119267008** Collected: 08/04/15 09:15 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.8**	%	0.10	0.10	1		08/10/15 13:25		

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: TRIP BLANK **Lab ID: 40119267009** Collected: 08/04/15 08:00 Received: 08/06/15 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/07/15 07:22	08/07/15 12:45	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/07/15 07:22	08/07/15 12:45	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/07/15 07:22	08/07/15 12:45	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/07/15 07:22	08/07/15 12:45	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/07/15 07:22	08/07/15 12:45	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Sample: TRIP BLANK **Lab ID: 40119267009** Collected: 08/04/15 08:00 Received: 08/06/15 09:00 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	08/07/15 07:22	08/07/15 12:45	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/07/15 07:22	08/07/15 12:45	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/07/15 07:22	08/07/15 12:45	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/07/15 07:22	08/07/15 12:45	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	104	%	49-157		1	08/07/15 07:22	08/07/15 12:45	1868-53-7	
Toluene-d8 (S)	102	%	61-148		1	08/07/15 07:22	08/07/15 12:45	2037-26-5	
4-Bromofluorobenzene (S)	93	%	53-134		1	08/07/15 07:22	08/07/15 12:45	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

QC Batch: MSV/29704 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40119267001, 40119267002, 40119267003, 40119267004, 40119267005, 40119267006, 40119267007, 40119267008, 40119267009

METHOD BLANK: 1203635 Matrix: Solid
Associated Lab Samples: 40119267001, 40119267002, 40119267003, 40119267004, 40119267005, 40119267006, 40119267007, 40119267008, 40119267009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	08/07/15 10:49	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	08/07/15 10:49	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	08/07/15 10:49	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	08/07/15 10:49	
1,1-Dichloroethane	ug/kg	<17.6	50.0	08/07/15 10:49	
1,1-Dichloroethene	ug/kg	<17.6	50.0	08/07/15 10:49	
1,1-Dichloropropene	ug/kg	<14.0	50.0	08/07/15 10:49	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	08/07/15 10:49	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	08/07/15 10:49	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	08/07/15 10:49	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	08/07/15 10:49	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	08/07/15 10:49	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	08/07/15 10:49	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	08/07/15 10:49	
1,2-Dichloroethane	ug/kg	<15.0	50.0	08/07/15 10:49	
1,2-Dichloropropane	ug/kg	<16.8	50.0	08/07/15 10:49	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	08/07/15 10:49	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	08/07/15 10:49	
1,3-Dichloropropane	ug/kg	<12.0	50.0	08/07/15 10:49	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	08/07/15 10:49	
2,2-Dichloropropane	ug/kg	<12.6	50.0	08/07/15 10:49	
2-Chlorotoluene	ug/kg	<15.8	50.0	08/07/15 10:49	
4-Chlorotoluene	ug/kg	<13.0	50.0	08/07/15 10:49	
Benzene	ug/kg	<9.2	20.0	08/07/15 10:49	
Bromobenzene	ug/kg	<20.6	50.0	08/07/15 10:49	
Bromochloromethane	ug/kg	<21.4	50.0	08/07/15 10:49	
Bromodichloromethane	ug/kg	<9.8	50.0	08/07/15 10:49	
Bromoform	ug/kg	<19.8	50.0	08/07/15 10:49	
Bromomethane	ug/kg	<69.9	250	08/07/15 10:49	
Carbon tetrachloride	ug/kg	<12.1	50.0	08/07/15 10:49	
Chlorobenzene	ug/kg	<14.8	50.0	08/07/15 10:49	
Chloroethane	ug/kg	<67.0	250	08/07/15 10:49	
Chloroform	ug/kg	<46.4	250	08/07/15 10:49	
Chloromethane	ug/kg	<20.4	50.0	08/07/15 10:49	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	08/07/15 10:49	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	08/07/15 10:49	
Dibromochloromethane	ug/kg	<17.9	50.0	08/07/15 10:49	
Dibromomethane	ug/kg	<19.3	50.0	08/07/15 10:49	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	08/07/15 10:49	
Diisopropyl ether	ug/kg	<17.7	50.0	08/07/15 10:49	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

METHOD BLANK: 1203635 Matrix: Solid
Associated Lab Samples: 40119267001, 40119267002, 40119267003, 40119267004, 40119267005, 40119267006, 40119267007, 40119267008, 40119267009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<12.4	50.0	08/07/15 10:49	
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	08/07/15 10:49	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	08/07/15 10:49	
m&p-Xylene	ug/kg	<34.4	100	08/07/15 10:49	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	08/07/15 10:49	
Methylene Chloride	ug/kg	<16.2	50.0	08/07/15 10:49	
n-Butylbenzene	ug/kg	<10.5	50.0	08/07/15 10:49	
n-Propylbenzene	ug/kg	<11.6	50.0	08/07/15 10:49	
Naphthalene	ug/kg	<40.0	250	08/07/15 10:49	
o-Xylene	ug/kg	<14.0	50.0	08/07/15 10:49	
p-Isopropyltoluene	ug/kg	<12.0	50.0	08/07/15 10:49	
sec-Butylbenzene	ug/kg	<11.9	50.0	08/07/15 10:49	
Styrene	ug/kg	<9.0	50.0	08/07/15 10:49	
tert-Butylbenzene	ug/kg	<9.5	50.0	08/07/15 10:49	
Tetrachloroethene	ug/kg	<12.9	50.0	08/07/15 10:49	
Toluene	ug/kg	<11.2	50.0	08/07/15 10:49	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	08/07/15 10:49	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	08/07/15 10:49	
Trichloroethene	ug/kg	<23.6	50.0	08/07/15 10:49	
Trichlorofluoromethane	ug/kg	<24.7	50.0	08/07/15 10:49	
Vinyl chloride	ug/kg	<21.1	50.0	08/07/15 10:49	
4-Bromofluorobenzene (S)	%	94	53-134	08/07/15 10:49	
Dibromofluoromethane (S)	%	108	49-157	08/07/15 10:49	
Toluene-d8 (S)	%	104	61-148	08/07/15 10:49	

LABORATORY CONTROL SAMPLE & LCSD: 1203636 1203637

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2280	2490	91	99	70-130	8	20	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2410	2590	97	104	70-130	7	20	
1,1,2-Trichloroethane	ug/kg	2500	2580	2650	103	106	70-130	3	20	
1,1-Dichloroethane	ug/kg	2500	2600	2700	104	108	70-130	4	20	
1,1-Dichloroethene	ug/kg	2500	2360	2620	95	105	70-132	10	20	
1,2,4-Trichlorobenzene	ug/kg	2500	2340	2670	94	107	70-130	13	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1630	1850	65	74	45-150	12	20	
1,2-Dibromoethane (EDB)	ug/kg	2500	2550	2630	102	105	70-130	3	20	
1,2-Dichlorobenzene	ug/kg	2500	2540	2700	101	108	70-130	6	20	
1,2-Dichloroethane	ug/kg	2500	2700	2890	108	116	70-134	7	20	
1,2-Dichloropropane	ug/kg	2500	2550	2650	102	106	70-130	4	20	
1,3-Dichlorobenzene	ug/kg	2500	2480	2700	99	108	70-130	8	20	
1,4-Dichlorobenzene	ug/kg	2500	2430	2630	97	105	70-130	8	20	
Benzene	ug/kg	2500	2560	2730	102	109	70-130	6	20	
Bromodichloromethane	ug/kg	2500	2290	2430	92	97	70-130	6	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

LABORATORY CONTROL SAMPLE & LCSD: 1203636 1203637

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Bromoform	ug/kg	2500	1720	1880	69	75	48-130	9	20	
Bromomethane	ug/kg	2500	2440	2640	98	106	70-169	8	20	
Carbon tetrachloride	ug/kg	2500	2120	2430	85	97	67-130	13	20	
Chlorobenzene	ug/kg	2500	2590	2700	103	108	70-130	4	20	
Chloroethane	ug/kg	2500	2690	2850	107	114	70-191	6	20	
Chloroform	ug/kg	2500	2530	2670	101	107	70-130	5	20	
Chloromethane	ug/kg	2500	2010	2090	80	83	52-132	4	20	
cis-1,2-Dichloroethene	ug/kg	2500	2520	2600	101	104	70-130	3	20	
cis-1,3-Dichloropropene	ug/kg	2500	2130	2300	85	92	70-130	7	20	
Dibromochloromethane	ug/kg	2500	2070	2120	83	85	65-130	3	20	
Dichlorodifluoromethane	ug/kg	2500	1590	1610	63	64	12-150	1	20	
Ethylbenzene	ug/kg	2500	2490	2610	100	104	70-130	5	20	
Isopropylbenzene (Cumene)	ug/kg	2500	2570	2680	103	107	70-130	4	20	
m&p-Xylene	ug/kg	5000	5110	5280	102	106	70-130	3	20	
Methyl-tert-butyl ether	ug/kg	2500	2560	2630	103	105	70-130	3	20	
Methylene Chloride	ug/kg	2500	2740	2850	110	114	70-131	4	20	
o-Xylene	ug/kg	2500	2540	2630	101	105	70-130	3	20	
Styrene	ug/kg	2500	2570	2700	103	108	70-130	5	20	
Tetrachloroethene	ug/kg	2500	2470	2570	99	103	70-130	4	20	
Toluene	ug/kg	2500	2550	2650	102	106	70-130	4	20	
trans-1,2-Dichloroethene	ug/kg	2500	2720	2890	109	116	69-130	6	20	
trans-1,3-Dichloropropene	ug/kg	2500	1970	2110	79	84	65-130	7	20	
Trichloroethene	ug/kg	2500	2630	2640	105	105	70-130	0	20	
Trichlorofluoromethane	ug/kg	2500	2200	2570	88	103	50-150	16	20	
Vinyl chloride	ug/kg	2500	2100	2210	84	88	67-134	5	20	
4-Bromofluorobenzene (S)	%				94	97	53-134			
Dibromofluoromethane (S)	%				110	111	49-157			
Toluene-d8 (S)	%				103	105	61-148			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

QC Batch: OEXT/27649 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40119267001, 40119267002, 40119267003, 40119267004, 40119267005, 40119267006, 40119267007, 40119267008

METHOD BLANK: 1204495 Matrix: Solid
Associated Lab Samples: 40119267001, 40119267002, 40119267003, 40119267004, 40119267005, 40119267006, 40119267007, 40119267008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<8.3	16.7	08/10/15 14:34	
2-Methylnaphthalene	ug/kg	<8.3	16.7	08/10/15 14:34	
Acenaphthene	ug/kg	<8.3	16.7	08/10/15 14:34	
Acenaphthylene	ug/kg	<7.5	16.7	08/10/15 14:34	
Anthracene	ug/kg	<8.6	16.7	08/10/15 14:34	
Benzo(a)anthracene	ug/kg	<5.8	16.7	08/10/15 14:34	
Benzo(a)pyrene	ug/kg	<6.0	16.7	08/10/15 14:34	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	08/10/15 14:34	
Benzo(g,h,i)perylene	ug/kg	<6.3	16.7	08/10/15 14:34	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	08/10/15 14:34	
Chrysene	ug/kg	<7.7	16.7	08/10/15 14:34	
Dibenz(a,h)anthracene	ug/kg	<6.1	16.7	08/10/15 14:34	
Fluoranthene	ug/kg	<8.3	16.7	08/10/15 14:34	
Fluorene	ug/kg	<8.3	16.7	08/10/15 14:34	
Indeno(1,2,3-cd)pyrene	ug/kg	<6.3	16.7	08/10/15 14:34	
Naphthalene	ug/kg	<8.3	16.7	08/10/15 14:34	
Phenanthrene	ug/kg	<8.3	16.7	08/10/15 14:34	
Pyrene	ug/kg	<8.3	16.7	08/10/15 14:34	
2-Fluorobiphenyl (S)	%	73	39-130	08/10/15 14:34	
Terphenyl-d14 (S)	%	90	37-130	08/10/15 14:34	

LABORATORY CONTROL SAMPLE: 1204496

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	240	72	53-130	
2-Methylnaphthalene	ug/kg	333	247	74	52-130	
Acenaphthene	ug/kg	333	266	80	54-130	
Acenaphthylene	ug/kg	333	275	83	55-130	
Anthracene	ug/kg	333	355	106	64-130	
Benzo(a)anthracene	ug/kg	333	295	88	50-130	
Benzo(a)pyrene	ug/kg	333	300	90	46-130	
Benzo(b)fluoranthene	ug/kg	333	325	97	43-130	
Benzo(g,h,i)perylene	ug/kg	333	291	87	48-130	
Benzo(k)fluoranthene	ug/kg	333	278	83	55-130	
Chrysene	ug/kg	333	309	93	62-130	
Dibenz(a,h)anthracene	ug/kg	333	303	91	49-130	
Fluoranthene	ug/kg	333	301	90	57-130	
Fluorene	ug/kg	333	278	83	57-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

LABORATORY CONTROL SAMPLE: 1204496

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/kg	333	305	91	50-130	
Naphthalene	ug/kg	333	226	68	48-130	
Phenanthrene	ug/kg	333	302	91	51-130	
Pyrene	ug/kg	333	292	87	55-130	
2-Fluorobiphenyl (S)	%			79	39-130	
Terphenyl-d14 (S)	%			92	37-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1204497 1204498

Parameter	Units	40119267004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	<10.0	400	400	288	274	72	68	50-130	5	30	
2-Methylnaphthalene	ug/kg	<10.0	400	400	297	283	74	70	44-130	5	32	
Acenaphthene	ug/kg	<10.0	400	400	268	255	67	64	46-130	5	26	
Acenaphthylene	ug/kg	<8.9	400	400	280	269	70	67	49-130	4	23	
Anthracene	ug/kg	<10.4	400	400	328	311	82	78	52-130	5	28	
Benzo(a)anthracene	ug/kg	<6.9	400	400	270	248	67	62	34-130	8	36	
Benzo(a)pyrene	ug/kg	<7.2	400	400	277	254	69	64	34-130	8	40	
Benzo(b)fluoranthene	ug/kg	<10.0	400	400	287	236	72	59	22-130	20	40	
Benzo(g,h,i)perylene	ug/kg	<7.6	400	400	273	254	68	64	24-130	7	35	
Benzo(k)fluoranthene	ug/kg	<11.1	400	400	267	276	67	69	41-130	3	37	
Chrysene	ug/kg	<9.2	400	400	284	273	71	68	49-130	4	33	
Dibenz(a,h)anthracene	ug/kg	<7.3	400	400	280	264	70	66	27-130	6	31	
Fluoranthene	ug/kg	<10.0	400	400	266	497	66	124	34-130	61	37	R1
Fluorene	ug/kg	<10.0	400	400	268	254	67	64	45-130	5	25	
Indeno(1,2,3-cd)pyrene	ug/kg	<7.6	400	400	284	260	71	65	30-130	9	34	
Naphthalene	ug/kg	<10.0	400	400	257	245	63	60	38-130	5	30	
Phenanthrene	ug/kg	<10.0	400	400	279	261	69	65	38-130	7	34	
Pyrene	ug/kg	<10.0	400	400	265	256	66	64	35-130	3	35	
2-Fluorobiphenyl (S)	%						61	60	39-130			
Terphenyl-d14 (S)	%						61	59	37-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

QC Batch: PMST/11597 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40119267001, 40119267002, 40119267003, 40119267004, 40119267005, 40119267006, 40119267007, 40119267008

SAMPLE DUPLICATE: 1204639

Parameter	Units	40118973001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.1	6.0	1	10	

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

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

BATCH QUALIFIERS

Batch: MSV/29705

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

R1	RPD value was outside control limits.
W	Non-detect results are reported on a wet weight basis.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119267

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40119267001	**E32L-SW-1**	EPA 3546	OEXT/27649	EPA 8270 by SIM	MSSV/8169
40119267002	**E32L-SW-2**	EPA 3546	OEXT/27649	EPA 8270 by SIM	MSSV/8169
40119267003	**E32L-SW-6**	EPA 3546	OEXT/27649	EPA 8270 by SIM	MSSV/8169
40119267004	**E32L-SW-3**	EPA 3546	OEXT/27649	EPA 8270 by SIM	MSSV/8169
40119267005	**E32L-SW-4**	EPA 3546	OEXT/27649	EPA 8270 by SIM	MSSV/8169
40119267006	**E32L-SW-5**	EPA 3546	OEXT/27649	EPA 8270 by SIM	MSSV/8169
40119267007	**E32L-B-7**	EPA 3546	OEXT/27649	EPA 8270 by SIM	MSSV/8169
40119267008	**E32L-B-8**	EPA 3546	OEXT/27649	EPA 8270 by SIM	MSSV/8169
40119267001	**E32L-SW-1**	EPA 5035/5030B	MSV/29704	EPA 8260	MSV/29705
40119267002	**E32L-SW-2**	EPA 5035/5030B	MSV/29704	EPA 8260	MSV/29705
40119267003	**E32L-SW-6**	EPA 5035/5030B	MSV/29704	EPA 8260	MSV/29705
40119267004	**E32L-SW-3**	EPA 5035/5030B	MSV/29704	EPA 8260	MSV/29705
40119267005	**E32L-SW-4**	EPA 5035/5030B	MSV/29704	EPA 8260	MSV/29705
40119267006	**E32L-SW-5**	EPA 5035/5030B	MSV/29704	EPA 8260	MSV/29705
40119267007	**E32L-B-7**	EPA 5035/5030B	MSV/29704	EPA 8260	MSV/29705
40119267008	**E32L-B-8**	EPA 5035/5030B	MSV/29704	EPA 8260	MSV/29705
40119267009	**TRIP BLANK**	EPA 5035/5030B	MSV/29704	EPA 8260	MSV/29705
40119267001	**E32L-SW-1**	ASTM D2974-87	PMST/11597		
40119267002	**E32L-SW-2**	ASTM D2974-87	PMST/11597		
40119267003	**E32L-SW-6**	ASTM D2974-87	PMST/11597		
40119267004	**E32L-SW-3**	ASTM D2974-87	PMST/11597		
40119267005	**E32L-SW-4**	ASTM D2974-87	PMST/11597		
40119267006	**E32L-SW-5**	ASTM D2974-87	PMST/11597		
40119267007	**E32L-B-7**	ASTM D2974-87	PMST/11597		
40119267008	**E32L-B-8**	ASTM D2974-87	PMST/11597		

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

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

401192607

(Please Print Clearly)	
Company Name:	AECOM
Branch/Location:	Milwaukee, WI
Project Contact:	Lanette Altenbach
Phone:	414-944-6186
Project Number:	60328684
Project Name:	CS2 Excavations
Project State:	Wisconsin
Sampled By (Print):	Andrew Schamber
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Lanette Altenbach
Mail To Company:	AECOM
Mail To Address:	1555 N. Rivercenter Dr Ste 214 Milwaukee, WI 53212
Invoice To Contact:	Accounts Payable/Finance Dept
Invoice To Company:	City Of Kenosha
Invoice To Address:	625 52nd St. Kenosha, WI 53140
Invoice To Phone:	

*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

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

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

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOC	PAH	Weight	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	E32L-SW-1	8/4/15	0820	S	N	F	1	1	1	1-40zag^A, 1-40zp^A, 1-40mLv^F		
002	E32L-SW-2		0825		N	A	1	1	1			
003	E32L-SW-6	0830 →	~~0830~~		N	A	1	1	1			
004	E32L-SW-3		0855		N	A	1	1	1			
005	E32L-SW-4		0900		N	A	1	1	1			
006	E32L-SW-5		0910		N	A	1	1	1			
007	E32L-B-7		0905		N	A	1	1	1			
008	E32L-B-8		0915		N	A	1	1	1			
009	Trip Blank		0800		N	A	1					

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:
	8/5/15 13:15	Mary Fannin	8/5/15 13:15
Mary Fannin	8/5/15 14:15		
CS Logistics	8/6/15 0900	Kate Scheuer	8/6/15 0900

PACE Project No.: 401192607
Receipt Temp = 2.01 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal: Present / Not Present; Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

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

Project #: WO#: 40119267

Client Name: AECOM

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

Tracking #:

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

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

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

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

Cooler Temperature Uncorr: /Corr: R61 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 8/6/15
Initials: KB

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. 005 x 1 vial ID E32LL-SW-4 KB 8/6/15
-Includes date/time/ID/Analysis Matrix: S		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes ☑No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14.
Trip Blank Present:	☐Yes ☐No ☑N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 8/6/15

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

August 21, 2015

Lanette Altenbach
AECOM, Inc.- MILWAUKEE
1555 N River Center Drive
Suite 214
Milwaukee, WI 53212

RE: Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Dear Lanette Altenbach:
Enclosed are the analytical results for sample(s) received by the laboratory on August 12, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
Project Manager

Enclosures

cc: Ken Brown, AECOM, Inc. - MILWAUKEE
Sarah Engelhardt, AECOM, Inc. - MILWAUKEE

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

CERTIFICATIONS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

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
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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

SAMPLE SUMMARY

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40119479001	**E30L-SW-1**	Solid	08/07/15 08:00	08/12/15 08:45
40119479002	**E30L-SW-2**	Solid	08/07/15 08:10	08/12/15 08:45
40119479003	**E30L-SW-3**	Solid	08/07/15 15:10	08/12/15 08:45
40119479004	**E30L-SW-4**	Solid	08/07/15 15:00	08/12/15 08:45
40119479005	**E30L-B-5**	Solid	08/07/15 08:20	08/12/15 08:45
40119479006	**E29T-SW-1**	Solid	08/10/15 11:05	08/12/15 08:45
40119479007	**E29T-SW-2**	Solid	08/10/15 11:15	08/12/15 08:45
40119479008	**E29T-SW-3**	Solid	08/10/15 11:25	08/12/15 08:45
40119479009	**E29T-SW-4**	Solid	08/10/15 11:35	08/12/15 08:45
40119479010	**E29T-B-5**	Solid	08/10/15 11:45	08/12/15 08:45
40119479011	**TRIP BLANK**	Solid	08/07/15 07:45	08/12/15 08:45

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SAMPLE ANALYTE COUNT

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40119479001	**E30L-SW-1**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119479002	**E30L-SW-2**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119479003	**E30L-SW-3**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119479004	**E30L-SW-4**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119479005	**E30L-B-5**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119479006	**E29T-SW-1**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119479007	**E29T-SW-2**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119479008	**E29T-SW-3**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119479009	**E29T-SW-4**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119479010	**E29T-B-5**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119479011	**TRIP BLANK**	EPA 8260	SMT	64	PASI-G

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E30L-SW-1 **Lab ID: 40119479001** Collected: 08/07/15 08:00 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**39.6**	ug/kg	17.9	8.9	1	08/14/15 08:17	08/14/15 16:53	83-32-9	
Acenaphthylene	**8.3J**	ug/kg	17.9	8.0	1	08/14/15 08:17	08/14/15 16:53	208-96-8	
Anthracene	**71.5**	ug/kg	17.9	9.3	1	08/14/15 08:17	08/14/15 16:53	120-12-7	
Benzo(a)anthracene	**102**	ug/kg	17.9	6.2	1	08/14/15 08:17	08/14/15 16:53	56-55-3	
Benzo(a)pyrene	**116**	ug/kg	17.9	6.4	1	08/14/15 08:17	08/14/15 16:53	50-32-8	
Benzo(b)fluoranthene	**98.7**	ug/kg	17.9	8.9	1	08/14/15 08:17	08/14/15 16:53	205-99-2	
Benzo(g,h,i)perylene	**76.6**	ug/kg	17.9	6.8	1	08/14/15 08:17	08/14/15 16:53	191-24-2	
Benzo(k)fluoranthene	**108**	ug/kg	17.9	9.9	1	08/14/15 08:17	08/14/15 16:53	207-08-9	
Chrysene	**128**	ug/kg	17.9	8.3	1	08/14/15 08:17	08/14/15 16:53	218-01-9	L2
Dibenz(a,h)anthracene	**27.1**	ug/kg	17.9	6.6	1	08/14/15 08:17	08/14/15 16:53	53-70-3	
Fluoranthene	**282**	ug/kg	17.9	8.9	1	08/14/15 08:17	08/14/15 16:53	206-44-0	
Fluorene	**47.3**	ug/kg	17.9	8.9	1	08/14/15 08:17	08/14/15 16:53	86-73-7	
Indeno(1,2,3-cd)pyrene	**69.8**	ug/kg	17.9	6.8	1	08/14/15 08:17	08/14/15 16:53	193-39-5	
1-Methylnaphthalene	**<8.9**	ug/kg	17.9	8.9	1	08/14/15 08:17	08/14/15 16:53	90-12-0	
2-Methylnaphthalene	**10.8J**	ug/kg	17.9	8.9	1	08/14/15 08:17	08/14/15 16:53	91-57-6	
Naphthalene	**18.0**	ug/kg	17.9	8.9	1	08/14/15 08:17	08/14/15 16:53	91-20-3	
Phenanthrene	**229**	ug/kg	17.9	8.9	1	08/14/15 08:17	08/14/15 16:53	85-01-8	
Pyrene	**222**	ug/kg	17.9	8.9	1	08/14/15 08:17	08/14/15 16:53	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	39-130		1	08/14/15 08:17	08/14/15 16:53	321-60-8	
Terphenyl-d14 (S)	50	%	37-130		1	08/14/15 08:17	08/14/15 16:53	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/13/15 07:00	08/14/15 03:56	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/13/15 07:00	08/14/15 03:56	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/13/15 07:00	08/14/15 03:56	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/13/15 07:00	08/14/15 03:56	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E30L-SW-1 **Lab ID: 40119479001** Collected: 08/07/15 08:00 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry 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								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/13/15 07:00	08/14/15 03:56	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/13/15 07:00	08/14/15 03:56	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/13/15 07:00	08/14/15 03:56	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 03:56	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	117	%	49-157		1	08/13/15 07:00	08/14/15 03:56	1868-53-7	
Toluene-d8 (S)	117	%	61-148		1	08/13/15 07:00	08/14/15 03:56	2037-26-5	
4-Bromofluorobenzene (S)	102	%	53-134		1	08/13/15 07:00	08/14/15 03:56	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E30L-SW-1 **Lab ID: 40119479001** Collected: 08/07/15 08:00 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.7**	%	0.10	0.10	1		08/17/15 11:04		

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E30L-SW-2 **Lab ID: 40119479002** Collected: 08/07/15 08:10 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<104**	ug/kg	208	104	10	08/14/15 08:17	08/18/15 12:34	83-32-9	
Acenaphthylene	**<93.0**	ug/kg	208	93.0	10	08/14/15 08:17	08/18/15 12:34	208-96-8	
Anthracene	**278**	ug/kg	208	108	10	08/14/15 08:17	08/18/15 12:34	120-12-7	
Benzo(a)anthracene	**<72.0**	ug/kg	208	72.0	10	08/14/15 08:17	08/18/15 12:34	56-55-3	
Benzo(a)pyrene	**<74.3**	ug/kg	208	74.3	10	08/14/15 08:17	08/18/15 12:34	50-32-8	
Benzo(b)fluoranthene	**<104**	ug/kg	208	104	10	08/14/15 08:17	08/18/15 12:34	205-99-2	
Benzo(g,h,i)perylene	**<79.2**	ug/kg	208	79.2	10	08/14/15 08:17	08/18/15 12:34	191-24-2	
Benzo(k)fluoranthene	**<115**	ug/kg	208	115	10	08/14/15 08:17	08/18/15 12:34	207-08-9	
Chrysene	**<96.1**	ug/kg	208	96.1	10	08/14/15 08:17	08/18/15 12:34	218-01-9	L2
Dibenz(a,h)anthracene	**<76.2**	ug/kg	208	76.2	10	08/14/15 08:17	08/18/15 12:34	53-70-3	
Fluoranthene	**149J**	ug/kg	208	104	10	08/14/15 08:17	08/18/15 12:34	206-44-0	
Fluorene	**1130**	ug/kg	208	104	10	08/14/15 08:17	08/18/15 12:34	86-73-7	
Indeno(1,2,3-cd)pyrene	**<79.0**	ug/kg	208	79.0	10	08/14/15 08:17	08/18/15 12:34	193-39-5	
1-Methylnaphthalene	**<104**	ug/kg	208	104	10	08/14/15 08:17	08/18/15 12:34	90-12-0	
2-Methylnaphthalene	**116J**	ug/kg	208	104	10	08/14/15 08:17	08/18/15 12:34	91-57-6	
Naphthalene	**<104**	ug/kg	208	104	10	08/14/15 08:17	08/18/15 12:34	91-20-3	D3
Phenanthrene	**1270**	ug/kg	208	104	10	08/14/15 08:17	08/18/15 12:34	85-01-8	
Pyrene	**135J**	ug/kg	208	104	10	08/14/15 08:17	08/18/15 12:34	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	59	%	39-130		10	08/14/15 08:17	08/18/15 12:34	321-60-8	
Terphenyl-d14 (S)	48	%	37-130		10	08/14/15 08:17	08/18/15 12:34	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/13/15 07:00	08/14/15 04:19	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/13/15 07:00	08/14/15 04:19	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/13/15 07:00	08/14/15 04:19	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/13/15 07:00	08/14/15 04:19	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E30L-SW-2 **Lab ID: 40119479002** Collected: 08/07/15 08:10 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry 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								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/13/15 07:00	08/14/15 04:19	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/13/15 07:00	08/14/15 04:19	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/13/15 07:00	08/14/15 04:19	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:19	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	124	%	49-157		1	08/13/15 07:00	08/14/15 04:19	1868-53-7	
Toluene-d8 (S)	125	%	61-148		1	08/13/15 07:00	08/14/15 04:19	2037-26-5	
4-Bromofluorobenzene (S)	105	%	53-134		1	08/13/15 07:00	08/14/15 04:19	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E30L-SW-2 **Lab ID: 40119479002** Collected: 08/07/15 08:10 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.8**	%	0.10	0.10	1		08/17/15 11:04		

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E30L-SW-3 **Lab ID: 40119479003** Collected: 08/07/15 15:10 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**437**	ug/kg	429	215	20	08/18/15 15:20	08/21/15 11:23	83-32-9	
Acenaphthylene	**357J**	ug/kg	429	192	20	08/18/15 15:20	08/21/15 11:23	208-96-8	
Anthracene	**495**	ug/kg	429	222	20	08/18/15 15:20	08/21/15 11:23	120-12-7	
Benzo(a)anthracene	**241J**	ug/kg	429	149	20	08/18/15 15:20	08/21/15 11:23	56-55-3	
Benzo(a)pyrene	**163J**	ug/kg	429	153	20	08/18/15 15:20	08/21/15 11:23	50-32-8	
Benzo(b)fluoranthene	**<215**	ug/kg	429	215	20	08/18/15 15:20	08/21/15 11:23	205-99-2	
Benzo(g,h,i)perylene	**<163**	ug/kg	429	163	20	08/18/15 15:20	08/21/15 11:23	191-24-2	
Benzo(k)fluoranthene	**<237**	ug/kg	429	237	20	08/18/15 15:20	08/21/15 11:23	207-08-9	
Chrysene	**417J**	ug/kg	429	198	20	08/18/15 15:20	08/21/15 11:23	218-01-9	
Dibenz(a,h)anthracene	**<157**	ug/kg	429	157	20	08/18/15 15:20	08/21/15 11:23	53-70-3	
Fluoranthene	**355J**	ug/kg	429	215	20	08/18/15 15:20	08/21/15 11:23	206-44-0	
Fluorene	**1790**	ug/kg	429	215	20	08/18/15 15:20	08/21/15 11:23	86-73-7	
Indeno(1,2,3-cd)pyrene	**<163**	ug/kg	429	163	20	08/18/15 15:20	08/21/15 11:23	193-39-5	
1-Methylnaphthalene	**1870**	ug/kg	429	215	20	08/18/15 15:20	08/21/15 11:23	90-12-0	
2-Methylnaphthalene	**2570**	ug/kg	429	215	20	08/18/15 15:20	08/21/15 11:23	91-57-6	
Naphthalene	**649**	ug/kg	429	215	20	08/18/15 15:20	08/21/15 11:23	91-20-3	
Phenanthrene	**4130**	ug/kg	429	215	20	08/18/15 15:20	08/21/15 11:23	85-01-8	
Pyrene	**546**	ug/kg	429	215	20	08/18/15 15:20	08/21/15 11:23	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	0	%	39-130		20	08/18/15 15:20	08/21/15 11:23	321-60-8	S4
Terphenyl-d14 (S)	0	%	37-130		20	08/18/15 15:20	08/21/15 11:23	1718-51-0	S4
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/13/15 07:00	08/14/15 10:22	74-83-9	W
n-Butylbenzene	**73.8J**	ug/kg	77.2	32.2	1	08/13/15 07:00	08/14/15 10:22	104-51-8	
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/13/15 07:00	08/14/15 10:22	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/13/15 07:00	08/14/15 10:22	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/13/15 07:00	08/14/15 10:22	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E30L-SW-3 **Lab ID: 40119479003** Collected: 08/07/15 15:10 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry 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								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	98-82-8	W
p-Isopropyltoluene	**43.6J**	ug/kg	77.2	32.2	1	08/13/15 07:00	08/14/15 10:22	99-87-6	
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	1634-04-4	W
Naphthalene	**311J**	ug/kg	322	51.6	1	08/13/15 07:00	08/14/15 10:22	91-20-3	
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/13/15 07:00	08/14/15 10:22	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	96-18-4	W
1,2,4-Trimethylbenzene	**96.2**	ug/kg	77.2	32.2	1	08/13/15 07:00	08/14/15 10:22	95-63-6	
1,3,5-Trimethylbenzene	**32.9J**	ug/kg	77.2	32.2	1	08/13/15 07:00	08/14/15 10:22	108-67-8	
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/13/15 07:00	08/14/15 10:22	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:22	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	125	%	49-157		1	08/13/15 07:00	08/14/15 10:22	1868-53-7	
Toluene-d8 (S)	120	%	61-148		1	08/13/15 07:00	08/14/15 10:22	2037-26-5	
4-Bromofluorobenzene (S)	105	%	53-134		1	08/13/15 07:00	08/14/15 10:22	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E30L-SW-3 **Lab ID: 40119479003** Collected: 08/07/15 15:10 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.3**	%	0.10	0.10	1		08/17/15 11:04		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E30L-SW-4 **Lab ID: 40119479004** Collected: 08/07/15 15:00 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**13.0J**	ug/kg	21.2	10.6	1	08/18/15 15:20	08/20/15 08:17	83-32-9	
Acenaphthylene	**<9.5**	ug/kg	21.2	9.5	1	08/18/15 15:20	08/20/15 08:17	208-96-8	
Anthracene	**27.4**	ug/kg	21.2	11.0	1	08/18/15 15:20	08/20/15 08:17	120-12-7	
Benzo(a)anthracene	**9.5J**	ug/kg	21.2	7.3	1	08/18/15 15:20	08/20/15 08:17	56-55-3	
Benzo(a)pyrene	**<7.6**	ug/kg	21.2	7.6	1	08/18/15 15:20	08/20/15 08:17	50-32-8	
Benzo(b)fluoranthene	**<10.6**	ug/kg	21.2	10.6	1	08/18/15 15:20	08/20/15 08:17	205-99-2	
Benzo(g,h,i)perylene	**<8.1**	ug/kg	21.2	8.1	1	08/18/15 15:20	08/20/15 08:17	191-24-2	
Benzo(k)fluoranthene	**<11.7**	ug/kg	21.2	11.7	1	08/18/15 15:20	08/20/15 08:17	207-08-9	
Chrysene	**60.7**	ug/kg	21.2	9.8	1	08/18/15 15:20	08/20/15 08:17	218-01-9	
Dibenz(a,h)anthracene	**<7.8**	ug/kg	21.2	7.8	1	08/18/15 15:20	08/20/15 08:17	53-70-3	
Fluoranthene	**23.3**	ug/kg	21.2	10.6	1	08/18/15 15:20	08/20/15 08:17	206-44-0	
Fluorene	**29.3**	ug/kg	21.2	10.6	1	08/18/15 15:20	08/20/15 08:17	86-73-7	
Indeno(1,2,3-cd)pyrene	**<8.0**	ug/kg	21.2	8.0	1	08/18/15 15:20	08/20/15 08:17	193-39-5	
1-Methylnaphthalene	**38.3**	ug/kg	21.2	10.6	1	08/18/15 15:20	08/20/15 08:17	90-12-0	
2-Methylnaphthalene	**39.5**	ug/kg	21.2	10.6	1	08/18/15 15:20	08/20/15 08:17	91-57-6	
Naphthalene	**11.7J**	ug/kg	21.2	10.6	1	08/18/15 15:20	08/20/15 08:17	91-20-3	
Phenanthrene	**145**	ug/kg	21.2	10.6	1	08/18/15 15:20	08/20/15 08:17	85-01-8	
Pyrene	**56.2**	ug/kg	21.2	10.6	1	08/18/15 15:20	08/20/15 08:17	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%	39-130		1	08/18/15 15:20	08/20/15 08:17	321-60-8	
Terphenyl-d14 (S)	53	%	37-130		1	08/18/15 15:20	08/20/15 08:17	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/13/15 07:00	08/14/15 10:45	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/13/15 07:00	08/14/15 10:45	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/13/15 07:00	08/14/15 10:45	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/13/15 07:00	08/14/15 10:45	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E30L-SW-4 **Lab ID: 40119479004** Collected: 08/07/15 15:00 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry 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								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/13/15 07:00	08/14/15 10:45	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/13/15 07:00	08/14/15 10:45	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/13/15 07:00	08/14/15 10:45	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:45	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	118	%	49-157		1	08/13/15 07:00	08/14/15 10:45	1868-53-7	
Toluene-d8 (S)	119	%	61-148		1	08/13/15 07:00	08/14/15 10:45	2037-26-5	
4-Bromofluorobenzene (S)	100	%	53-134		1	08/13/15 07:00	08/14/15 10:45	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E30L-SW-4 **Lab ID: 40119479004** Collected: 08/07/15 15:00 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.2**	%	0.10	0.10	1		08/17/15 11:04		

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E30L-B-5 **Lab ID: 40119479005** Collected: 08/07/15 08:20 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<10.5**	ug/kg	21.0	10.5	1	08/18/15 15:20	08/20/15 08:34	83-32-9	
Acenaphthylene	**<9.4**	ug/kg	21.0	9.4	1	08/18/15 15:20	08/20/15 08:34	208-96-8	
Anthracene	**<10.9**	ug/kg	21.0	10.9	1	08/18/15 15:20	08/20/15 08:34	120-12-7	
Benzo(a)anthracene	**<7.3**	ug/kg	21.0	7.3	1	08/18/15 15:20	08/20/15 08:34	56-55-3	
Benzo(a)pyrene	**<7.5**	ug/kg	21.0	7.5	1	08/18/15 15:20	08/20/15 08:34	50-32-8	
Benzo(b)fluoranthene	**<10.5**	ug/kg	21.0	10.5	1	08/18/15 15:20	08/20/15 08:34	205-99-2	
Benzo(g,h,i)perylene	**<8.0**	ug/kg	21.0	8.0	1	08/18/15 15:20	08/20/15 08:34	191-24-2	
Benzo(k)fluoranthene	**<11.6**	ug/kg	21.0	11.6	1	08/18/15 15:20	08/20/15 08:34	207-08-9	
Chrysene	**<9.7**	ug/kg	21.0	9.7	1	08/18/15 15:20	08/20/15 08:34	218-01-9	
Dibenz(a,h)anthracene	**<7.7**	ug/kg	21.0	7.7	1	08/18/15 15:20	08/20/15 08:34	53-70-3	
Fluoranthene	**<10.5**	ug/kg	21.0	10.5	1	08/18/15 15:20	08/20/15 08:34	206-44-0	
Fluorene	**<10.5**	ug/kg	21.0	10.5	1	08/18/15 15:20	08/20/15 08:34	86-73-7	
Indeno(1,2,3-cd)pyrene	**<8.0**	ug/kg	21.0	8.0	1	08/18/15 15:20	08/20/15 08:34	193-39-5	
1-Methylnaphthalene	**<10.5**	ug/kg	21.0	10.5	1	08/18/15 15:20	08/20/15 08:34	90-12-0	
2-Methylnaphthalene	**<10.5**	ug/kg	21.0	10.5	1	08/18/15 15:20	08/20/15 08:34	91-57-6	
Naphthalene	**<10.5**	ug/kg	21.0	10.5	1	08/18/15 15:20	08/20/15 08:34	91-20-3	
Phenanthrene	**<10.5**	ug/kg	21.0	10.5	1	08/18/15 15:20	08/20/15 08:34	85-01-8	
Pyrene	**<10.5**	ug/kg	21.0	10.5	1	08/18/15 15:20	08/20/15 08:34	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%	39-130		1	08/18/15 15:20	08/20/15 08:34	321-60-8	
Terphenyl-d14 (S)	44	%	37-130		1	08/18/15 15:20	08/20/15 08:34	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/13/15 07:00	08/14/15 04:41	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/13/15 07:00	08/14/15 04:41	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/13/15 07:00	08/14/15 04:41	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/13/15 07:00	08/14/15 04:41	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E30L-B-5 **Lab ID: 40119479005** Collected: 08/07/15 08:20 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry 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								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/13/15 07:00	08/14/15 04:41	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/13/15 07:00	08/14/15 04:41	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/13/15 07:00	08/14/15 04:41	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 04:41	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	105	%	49-157		1	08/13/15 07:00	08/14/15 04:41	1868-53-7	
Toluene-d8 (S)	105	%	61-148		1	08/13/15 07:00	08/14/15 04:41	2037-26-5	
4-Bromofluorobenzene (S)	90	%	53-134		1	08/13/15 07:00	08/14/15 04:41	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E30L-B-5 **Lab ID: 40119479005** Collected: 08/07/15 08:20 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.6**	%	0.10	0.10	1		08/17/15 11:04		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E29T-SW-1 **Lab ID: 40119479006** Collected: 08/10/15 11:05 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<8.7**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 07:43	83-32-9	
Acenaphthylene	**<7.8**	ug/kg	17.4	7.8	1	08/18/15 15:20	08/20/15 07:43	208-96-8	
Anthracene	**<9.0**	ug/kg	17.4	9.0	1	08/18/15 15:20	08/20/15 07:43	120-12-7	
Benzo(a)anthracene	**<6.0**	ug/kg	17.4	6.0	1	08/18/15 15:20	08/20/15 07:43	56-55-3	
Benzo(a)pyrene	**<6.2**	ug/kg	17.4	6.2	1	08/18/15 15:20	08/20/15 07:43	50-32-8	
Benzo(b)fluoranthene	**<8.7**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 07:43	205-99-2	
Benzo(g,h,i)perylene	**<6.6**	ug/kg	17.4	6.6	1	08/18/15 15:20	08/20/15 07:43	191-24-2	
Benzo(k)fluoranthene	**<9.6**	ug/kg	17.4	9.6	1	08/18/15 15:20	08/20/15 07:43	207-08-9	
Chrysene	**<8.1**	ug/kg	17.4	8.1	1	08/18/15 15:20	08/20/15 07:43	218-01-9	
Dibenz(a,h)anthracene	**<6.4**	ug/kg	17.4	6.4	1	08/18/15 15:20	08/20/15 07:43	53-70-3	
Fluoranthene	**<8.7**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 07:43	206-44-0	
Fluorene	**<8.7**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 07:43	86-73-7	
Indeno(1,2,3-cd)pyrene	**<6.6**	ug/kg	17.4	6.6	1	08/18/15 15:20	08/20/15 07:43	193-39-5	
1-Methylnaphthalene	**<8.7**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 07:43	90-12-0	
2-Methylnaphthalene	**<8.7**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 07:43	91-57-6	
Naphthalene	**<8.7**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 07:43	91-20-3	
Phenanthrene	**<8.7**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 07:43	85-01-8	
Pyrene	**<8.7**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 07:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	39-130		1	08/18/15 15:20	08/20/15 07:43	321-60-8	
Terphenyl-d14 (S)	54	%	37-130		1	08/18/15 15:20	08/20/15 07:43	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/13/15 07:00	08/14/15 05:04	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/13/15 07:00	08/14/15 05:04	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/13/15 07:00	08/14/15 05:04	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/13/15 07:00	08/14/15 05:04	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E29T-SW-1 **Lab ID: 40119479006** Collected: 08/10/15 11:05 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry 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								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/13/15 07:00	08/14/15 05:04	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/13/15 07:00	08/14/15 05:04	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	79-00-5	W
Trichloroethene	**115**	ug/kg	62.7	26.1	1	08/13/15 07:00	08/14/15 05:04	79-01-6	
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/13/15 07:00	08/14/15 05:04	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:04	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	109	%	49-157		1	08/13/15 07:00	08/14/15 05:04	1868-53-7	
Toluene-d8 (S)	116	%	61-148		1	08/13/15 07:00	08/14/15 05:04	2037-26-5	
4-Bromofluorobenzene (S)	98	%	53-134		1	08/13/15 07:00	08/14/15 05:04	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E29T-SW-1 **Lab ID: 40119479006** Collected: 08/10/15 11:05 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**4.3**	%	0.10	0.10	1		08/17/15 11:04		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E29T-SW-2 **Lab ID: 40119479007** Collected: 08/10/15 11:15 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<8.7**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 08:52	83-32-9	
Acenaphthylene	**<7.8**	ug/kg	17.4	7.8	1	08/18/15 15:20	08/20/15 08:52	208-96-8	
Anthracene	**<9.0**	ug/kg	17.4	9.0	1	08/18/15 15:20	08/20/15 08:52	120-12-7	
Benzo(a)anthracene	**<6.0**	ug/kg	17.4	6.0	1	08/18/15 15:20	08/20/15 08:52	56-55-3	
Benzo(a)pyrene	**<6.2**	ug/kg	17.4	6.2	1	08/18/15 15:20	08/20/15 08:52	50-32-8	
Benzo(b)fluoranthene	**<8.7**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 08:52	205-99-2	
Benzo(g,h,i)perylene	**<6.6**	ug/kg	17.4	6.6	1	08/18/15 15:20	08/20/15 08:52	191-24-2	
Benzo(k)fluoranthene	**<9.6**	ug/kg	17.4	9.6	1	08/18/15 15:20	08/20/15 08:52	207-08-9	
Chrysene	**<8.0**	ug/kg	17.4	8.0	1	08/18/15 15:20	08/20/15 08:52	218-01-9	
Dibenz(a,h)anthracene	**<6.4**	ug/kg	17.4	6.4	1	08/18/15 15:20	08/20/15 08:52	53-70-3	
Fluoranthene	**<8.7**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 08:52	206-44-0	
Fluorene	**<8.7**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 08:52	86-73-7	
Indeno(1,2,3-cd)pyrene	**<6.6**	ug/kg	17.4	6.6	1	08/18/15 15:20	08/20/15 08:52	193-39-5	
1-Methylnaphthalene	**<8.7**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 08:52	90-12-0	
2-Methylnaphthalene	**<8.7**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 08:52	91-57-6	
Naphthalene	**<8.7**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 08:52	91-20-3	
Phenanthrene	**<8.7**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 08:52	85-01-8	
Pyrene	**<8.7**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 08:52	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%	39-130		1	08/18/15 15:20	08/20/15 08:52	321-60-8	
Terphenyl-d14 (S)	63	%	37-130		1	08/18/15 15:20	08/20/15 08:52	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/13/15 07:00	08/14/15 05:26	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/13/15 07:00	08/14/15 05:26	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/13/15 07:00	08/14/15 05:26	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/13/15 07:00	08/14/15 05:26	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E29T-SW-2 **Lab ID: 40119479007** Collected: 08/10/15 11:15 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry 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								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/13/15 07:00	08/14/15 05:26	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/13/15 07:00	08/14/15 05:26	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	79-00-5	W
Trichloroethene	**61.1J**	ug/kg	62.5	26.0	1	08/13/15 07:00	08/14/15 05:26	79-01-6	
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/13/15 07:00	08/14/15 05:26	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 05:26	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	117	%	49-157		1	08/13/15 07:00	08/14/15 05:26	1868-53-7	
Toluene-d8 (S)	120	%	61-148		1	08/13/15 07:00	08/14/15 05:26	2037-26-5	
4-Bromofluorobenzene (S)	101	%	53-134		1	08/13/15 07:00	08/14/15 05:26	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E29T-SW-2 **Lab ID: 40119479007** Collected: 08/10/15 11:15 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.9**	%	0.10	0.10	1		08/17/15 11:04		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E29T-SW-3 **Lab ID: 40119479008** Collected: 08/10/15 11:25 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<43.2**	ug/kg	86.3	43.2	5	08/18/15 15:20	08/21/15 09:19	83-32-9	
Acenaphthylene	**<38.6**	ug/kg	86.3	38.6	5	08/18/15 15:20	08/21/15 09:19	208-96-8	
Anthracene	**<44.8**	ug/kg	86.3	44.8	5	08/18/15 15:20	08/21/15 09:19	120-12-7	
Benzo(a)anthracene	**<29.9**	ug/kg	86.3	29.9	5	08/18/15 15:20	08/21/15 09:19	56-55-3	
Benzo(a)pyrene	**<30.9**	ug/kg	86.3	30.9	5	08/18/15 15:20	08/21/15 09:19	50-32-8	
Benzo(b)fluoranthene	**<43.2**	ug/kg	86.3	43.2	5	08/18/15 15:20	08/21/15 09:19	205-99-2	
Benzo(g,h,i)perylene	**<32.9**	ug/kg	86.3	32.9	5	08/18/15 15:20	08/21/15 09:19	191-24-2	
Benzo(k)fluoranthene	**<47.8**	ug/kg	86.3	47.8	5	08/18/15 15:20	08/21/15 09:19	207-08-9	
Chrysene	**<39.9**	ug/kg	86.3	39.9	5	08/18/15 15:20	08/21/15 09:19	218-01-9	
Dibenz(a,h)anthracene	**<31.7**	ug/kg	86.3	31.7	5	08/18/15 15:20	08/21/15 09:19	53-70-3	
Fluoranthene	**<43.2**	ug/kg	86.3	43.2	5	08/18/15 15:20	08/21/15 09:19	206-44-0	
Fluorene	**<43.2**	ug/kg	86.3	43.2	5	08/18/15 15:20	08/21/15 09:19	86-73-7	
Indeno(1,2,3-cd)pyrene	**<32.8**	ug/kg	86.3	32.8	5	08/18/15 15:20	08/21/15 09:19	193-39-5	
1-Methylnaphthalene	**<43.2**	ug/kg	86.3	43.2	5	08/18/15 15:20	08/21/15 09:19	90-12-0	
2-Methylnaphthalene	**<43.2**	ug/kg	86.3	43.2	5	08/18/15 15:20	08/21/15 09:19	91-57-6	
Naphthalene	**<43.2**	ug/kg	86.3	43.2	5	08/18/15 15:20	08/21/15 09:19	91-20-3	D3
Phenanthrene	**<43.2**	ug/kg	86.3	43.2	5	08/18/15 15:20	08/21/15 09:19	85-01-8	
Pyrene	**<43.2**	ug/kg	86.3	43.2	5	08/18/15 15:20	08/21/15 09:19	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	39-130		5	08/18/15 15:20	08/21/15 09:19	321-60-8	
Terphenyl-d14 (S)	66	%	37-130		5	08/18/15 15:20	08/21/15 09:19	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/13/15 07:00	08/14/15 10:00	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/13/15 07:00	08/14/15 10:00	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/13/15 07:00	08/14/15 10:00	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/13/15 07:00	08/14/15 10:00	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E29T-SW-3 **Lab ID: 40119479008** Collected: 08/10/15 11:25 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry 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								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/13/15 07:00	08/14/15 10:00	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/13/15 07:00	08/14/15 10:00	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/13/15 07:00	08/14/15 10:00	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:00	08/14/15 10:00	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	104	%	49-157		1	08/13/15 07:00	08/14/15 10:00	1868-53-7	
Toluene-d8 (S)	104	%	61-148		1	08/13/15 07:00	08/14/15 10:00	2037-26-5	
4-Bromofluorobenzene (S)	91	%	53-134		1	08/13/15 07:00	08/14/15 10:00	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E29T-SW-3 **Lab ID: 40119479008** Collected: 08/10/15 11:25 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.5**	%	0.10	0.10	1		08/17/15 11:05		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E29T-SW-4 **Lab ID: 40119479009** Collected: 08/10/15 11:35 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**278**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 13:45	83-32-9	
Acenaphthylene	**14.3J**	ug/kg	17.4	7.8	1	08/18/15 15:20	08/20/15 13:45	208-96-8	
Anthracene	**163**	ug/kg	17.4	9.0	1	08/18/15 15:20	08/20/15 13:45	120-12-7	
Benzo(a)anthracene	**136**	ug/kg	17.4	6.0	1	08/18/15 15:20	08/20/15 13:45	56-55-3	
Benzo(a)pyrene	**62.4**	ug/kg	17.4	6.2	1	08/18/15 15:20	08/20/15 13:45	50-32-8	
Benzo(b)fluoranthene	**91.2**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 13:45	205-99-2	
Benzo(g,h,i)perylene	**18.5**	ug/kg	17.4	6.6	1	08/18/15 15:20	08/20/15 13:45	191-24-2	
Benzo(k)fluoranthene	**103**	ug/kg	17.4	9.7	1	08/18/15 15:20	08/20/15 13:45	207-08-9	
Chrysene	**221**	ug/kg	17.4	8.1	1	08/18/15 15:20	08/20/15 13:45	218-01-9	
Dibenz(a,h)anthracene	**8.8J**	ug/kg	17.4	6.4	1	08/18/15 15:20	08/20/15 13:45	53-70-3	
Fluoranthene	**466**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 13:45	206-44-0	
Fluorene	**145**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 13:45	86-73-7	
Indeno(1,2,3-cd)pyrene	**17.6**	ug/kg	17.4	6.6	1	08/18/15 15:20	08/20/15 13:45	193-39-5	
1-Methylnaphthalene	**189**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 13:45	90-12-0	
2-Methylnaphthalene	**263**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 13:45	91-57-6	
Naphthalene	**129**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 13:45	91-20-3	
Phenanthrene	**553**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 13:45	85-01-8	
Pyrene	**506**	ug/kg	17.4	8.7	1	08/18/15 15:20	08/20/15 13:45	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	39-130		1	08/18/15 15:20	08/20/15 13:45	321-60-8	
Terphenyl-d14 (S)	85	%	37-130		1	08/18/15 15:20	08/20/15 13:45	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/13/15 07:30	08/13/15 12:02	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/13/15 07:30	08/13/15 12:02	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/13/15 07:30	08/13/15 12:02	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/13/15 07:30	08/13/15 12:02	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E29T-SW-4 **Lab ID: 40119479009** Collected: 08/10/15 11:35 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry 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								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	75-35-4	W
cis-1,2-Dichloroethene	**353**	ug/kg	62.8	26.2	1	08/13/15 07:30	08/13/15 12:02	156-59-2	
trans-1,2-Dichloroethene	**26.7J**	ug/kg	62.8	26.2	1	08/13/15 07:30	08/13/15 12:02	156-60-5	
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	1634-04-4	W
Naphthalene	**161J**	ug/kg	262	41.9	1	08/13/15 07:30	08/13/15 12:02	91-20-3	
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/13/15 07:30	08/13/15 12:02	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	79-00-5	W
Trichloroethene	**135**	ug/kg	62.8	26.2	1	08/13/15 07:30	08/13/15 12:02	79-01-6	
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	96-18-4	W
1,2,4-Trimethylbenzene	**40.4J**	ug/kg	62.8	26.2	1	08/13/15 07:30	08/13/15 12:02	95-63-6	
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/13/15 07:30	08/13/15 12:02	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:02	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	102	%	49-157		1	08/13/15 07:30	08/13/15 12:02	1868-53-7	
Toluene-d8 (S)	119	%	61-148		1	08/13/15 07:30	08/13/15 12:02	2037-26-5	
4-Bromofluorobenzene (S)	101	%	53-134		1	08/13/15 07:30	08/13/15 12:02	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E29T-SW-4 **Lab ID: 40119479009** Collected: 08/10/15 11:35 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**4.5**	%	0.10	0.10	1		08/17/15 11:05		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E29T-B-5 **Lab ID: 40119479010** Collected: 08/10/15 11:45 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**11.4J**	ug/kg	20.7	10.4	1	08/18/15 15:20	08/19/15 13:57	83-32-9	
Acenaphthylene	**<9.3**	ug/kg	20.7	9.3	1	08/18/15 15:20	08/19/15 13:57	208-96-8	
Anthracene	**<10.7**	ug/kg	20.7	10.7	1	08/18/15 15:20	08/19/15 13:57	120-12-7	
Benzo(a)anthracene	**<7.2**	ug/kg	20.7	7.2	1	08/18/15 15:20	08/19/15 13:57	56-55-3	
Benzo(a)pyrene	**<7.4**	ug/kg	20.7	7.4	1	08/18/15 15:20	08/19/15 13:57	50-32-8	
Benzo(b)fluoranthene	**<10.4**	ug/kg	20.7	10.4	1	08/18/15 15:20	08/19/15 13:57	205-99-2	
Benzo(g,h,i)perylene	**<7.9**	ug/kg	20.7	7.9	1	08/18/15 15:20	08/19/15 13:57	191-24-2	
Benzo(k)fluoranthene	**<11.5**	ug/kg	20.7	11.5	1	08/18/15 15:20	08/19/15 13:57	207-08-9	
Chrysene	**10.4J**	ug/kg	20.7	9.6	1	08/18/15 15:20	08/19/15 13:57	218-01-9	
Dibenz(a,h)anthracene	**<7.6**	ug/kg	20.7	7.6	1	08/18/15 15:20	08/19/15 13:57	53-70-3	
Fluoranthene	**11.7J**	ug/kg	20.7	10.4	1	08/18/15 15:20	08/19/15 13:57	206-44-0	
Fluorene	**<10.4**	ug/kg	20.7	10.4	1	08/18/15 15:20	08/19/15 13:57	86-73-7	
Indeno(1,2,3-cd)pyrene	**<7.9**	ug/kg	20.7	7.9	1	08/18/15 15:20	08/19/15 13:57	193-39-5	
1-Methylnaphthalene	**32.0**	ug/kg	20.7	10.4	1	08/18/15 15:20	08/19/15 13:57	90-12-0	
2-Methylnaphthalene	**36.0**	ug/kg	20.7	10.4	1	08/18/15 15:20	08/19/15 13:57	91-57-6	
Naphthalene	**72.1**	ug/kg	20.7	10.4	1	08/18/15 15:20	08/19/15 13:57	91-20-3	
Phenanthrene	**30.8**	ug/kg	20.7	10.4	1	08/18/15 15:20	08/19/15 13:57	85-01-8	
Pyrene	**10.5J**	ug/kg	20.7	10.4	1	08/18/15 15:20	08/19/15 13:57	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	54	%	39-130		1	08/18/15 15:20	08/19/15 13:57	321-60-8	
Terphenyl-d14 (S)	49	%	37-130		1	08/18/15 15:20	08/19/15 13:57	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/13/15 07:30	08/13/15 12:25	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/13/15 07:30	08/13/15 12:25	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/13/15 07:30	08/13/15 12:25	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/13/15 07:30	08/13/15 12:25	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E29T-B-5 **Lab ID: 40119479010** Collected: 08/10/15 11:45 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry 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								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	1634-04-4	W
Naphthalene	**99.2J**	ug/kg	311	49.8	1	08/13/15 07:30	08/13/15 12:25	91-20-3	
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/13/15 07:30	08/13/15 12:25	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	96-18-4	W
1,2,4-Trimethylbenzene	**37.1J**	ug/kg	74.6	31.1	1	08/13/15 07:30	08/13/15 12:25	95-63-6	
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/13/15 07:30	08/13/15 12:25	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 12:25	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	95	%	49-157		1	08/13/15 07:30	08/13/15 12:25	1868-53-7	
Toluene-d8 (S)	108	%	61-148		1	08/13/15 07:30	08/13/15 12:25	2037-26-5	
4-Bromofluorobenzene (S)	91	%	53-134		1	08/13/15 07:30	08/13/15 12:25	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: E29T-B-5 **Lab ID: 40119479010** Collected: 08/10/15 11:45 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.5**	%	0.10	0.10	1		08/17/15 11:05		

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: TRIP BLANK **Lab ID: 40119479011** Collected: 08/07/15 07:45 Received: 08/12/15 08:45 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/13/15 07:30	08/13/15 11:39	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/13/15 07:30	08/13/15 11:39	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/13/15 07:30	08/13/15 11:39	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/13/15 07:30	08/13/15 11:39	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/13/15 07:30	08/13/15 11:39	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Sample: TRIP BLANK **Lab ID: 40119479011** Collected: 08/07/15 07:45 Received: 08/12/15 08:45 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	08/13/15 07:30	08/13/15 11:39	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/13/15 07:30	08/13/15 11:39	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/13/15 07:30	08/13/15 11:39	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/13/15 07:30	08/13/15 11:39	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	49-157		1	08/13/15 07:30	08/13/15 11:39	1868-53-7	
Toluene-d8 (S)	100	%	61-148		1	08/13/15 07:30	08/13/15 11:39	2037-26-5	
4-Bromofluorobenzene (S)	91	%	53-134		1	08/13/15 07:30	08/13/15 11:39	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

QC Batch: MSV/29782 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40119479001, 40119479002, 40119479003, 40119479004, 40119479005, 40119479006, 40119479007, 40119479008

METHOD BLANK: 1205865 Matrix: Solid
Associated Lab Samples: 40119479001, 40119479002, 40119479003, 40119479004, 40119479005, 40119479006, 40119479007, 40119479008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	08/13/15 19:37	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	08/13/15 19:37	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	08/13/15 19:37	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	08/13/15 19:37	
1,1-Dichloroethane	ug/kg	<17.6	50.0	08/13/15 19:37	
1,1-Dichloroethene	ug/kg	<17.6	50.0	08/13/15 19:37	
1,1-Dichloropropene	ug/kg	<14.0	50.0	08/13/15 19:37	
1,2,3-Trichlorobenzene	ug/kg	27.1J	50.0	08/13/15 19:37	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	08/13/15 19:37	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	08/13/15 19:37	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	08/13/15 19:37	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	08/13/15 19:37	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	08/13/15 19:37	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	08/13/15 19:37	
1,2-Dichloroethane	ug/kg	<15.0	50.0	08/13/15 19:37	
1,2-Dichloropropane	ug/kg	<16.8	50.0	08/13/15 19:37	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	08/13/15 19:37	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	08/13/15 19:37	
1,3-Dichloropropane	ug/kg	<12.0	50.0	08/13/15 19:37	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	08/13/15 19:37	
2,2-Dichloropropane	ug/kg	<12.6	50.0	08/13/15 19:37	
2-Chlorotoluene	ug/kg	<15.8	50.0	08/13/15 19:37	
4-Chlorotoluene	ug/kg	<13.0	50.0	08/13/15 19:37	
Benzene	ug/kg	<9.2	20.0	08/13/15 19:37	
Bromobenzene	ug/kg	<20.6	50.0	08/13/15 19:37	
Bromochloromethane	ug/kg	<21.4	50.0	08/13/15 19:37	
Bromodichloromethane	ug/kg	<9.8	50.0	08/13/15 19:37	
Bromoform	ug/kg	<19.8	50.0	08/13/15 19:37	
Bromomethane	ug/kg	<69.9	250	08/13/15 19:37	
Carbon tetrachloride	ug/kg	<12.1	50.0	08/13/15 19:37	
Chlorobenzene	ug/kg	<14.8	50.0	08/13/15 19:37	
Chloroethane	ug/kg	<67.0	250	08/13/15 19:37	
Chloroform	ug/kg	<46.4	250	08/13/15 19:37	
Chloromethane	ug/kg	<20.4	50.0	08/13/15 19:37	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	08/13/15 19:37	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	08/13/15 19:37	
Dibromochloromethane	ug/kg	<17.9	50.0	08/13/15 19:37	
Dibromomethane	ug/kg	<19.3	50.0	08/13/15 19:37	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	08/13/15 19:37	
Diisopropyl ether	ug/kg	<17.7	50.0	08/13/15 19:37	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

METHOD BLANK: 1205865 Matrix: Solid
Associated Lab Samples: 40119479001, 40119479002, 40119479003, 40119479004, 40119479005, 40119479006, 40119479007, 40119479008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<12.4	50.0	08/13/15 19:37	
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	08/13/15 19:37	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	08/13/15 19:37	
m&p-Xylene	ug/kg	<34.4	100	08/13/15 19:37	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	08/13/15 19:37	
Methylene Chloride	ug/kg	<16.2	50.0	08/13/15 19:37	
n-Butylbenzene	ug/kg	13.7J	50.0	08/13/15 19:37	
n-Propylbenzene	ug/kg	<11.6	50.0	08/13/15 19:37	
Naphthalene	ug/kg	<40.0	250	08/13/15 19:37	
o-Xylene	ug/kg	<14.0	50.0	08/13/15 19:37	
p-Isopropyltoluene	ug/kg	<12.0	50.0	08/13/15 19:37	
sec-Butylbenzene	ug/kg	<11.9	50.0	08/13/15 19:37	
Styrene	ug/kg	<9.0	50.0	08/13/15 19:37	
tert-Butylbenzene	ug/kg	<9.5	50.0	08/13/15 19:37	
Tetrachloroethene	ug/kg	<12.9	50.0	08/13/15 19:37	
Toluene	ug/kg	<11.2	50.0	08/13/15 19:37	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	08/13/15 19:37	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	08/13/15 19:37	
Trichloroethene	ug/kg	<23.6	50.0	08/13/15 19:37	
Trichlorofluoromethane	ug/kg	<24.7	50.0	08/13/15 19:37	
Vinyl chloride	ug/kg	<21.1	50.0	08/13/15 19:37	
4-Bromofluorobenzene (S)	%	95	53-134	08/13/15 19:37	
Dibromofluoromethane (S)	%	105	49-157	08/13/15 19:37	
Toluene-d8 (S)	%	108	61-148	08/13/15 19:37	

LABORATORY CONTROL SAMPLE & LCSD: 1205866 1205867

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2360	2430	94	97	70-130	3	20	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2420	2470	97	99	70-130	2	20	
1,1,2-Trichloroethane	ug/kg	2500	2590	2690	103	107	70-130	4	20	
1,1-Dichloroethane	ug/kg	2500	2400	2500	96	100	70-130	4	20	
1,1-Dichloroethene	ug/kg	2500	2390	2450	96	98	70-132	2	20	
1,2,4-Trichlorobenzene	ug/kg	2500	2270	2470	91	99	70-130	8	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1900	2180	76	87	45-150	13	20	
1,2-Dibromoethane (EDB)	ug/kg	2500	2780	2840	111	113	70-130	2	20	
1,2-Dichlorobenzene	ug/kg	2500	2490	2690	100	108	70-130	8	20	
1,2-Dichloroethane	ug/kg	2500	2580	2690	103	108	70-134	4	20	
1,2-Dichloropropane	ug/kg	2500	2800	2810	112	112	70-130	0	20	
1,3-Dichlorobenzene	ug/kg	2500	2350	2520	94	101	70-130	7	20	
1,4-Dichlorobenzene	ug/kg	2500	2510	2700	101	108	70-130	7	20	
Benzene	ug/kg	2500	2490	2520	100	101	70-130	1	20	
Bromodichloromethane	ug/kg	2500	2580	2700	103	108	70-130	4	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

LABORATORY CONTROL SAMPLE & LCSD: 1205866 1205867

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Bromoform	ug/kg	2500	2430	2640	97	106	48-130	8	20	
Bromomethane	ug/kg	2500	2330	2540	93	102	70-169	9	20	
Carbon tetrachloride	ug/kg	2500	2280	2390	91	96	67-130	4	20	
Chlorobenzene	ug/kg	2500	2620	2740	105	109	70-130	4	20	
Chloroethane	ug/kg	2500	2510	2550	100	102	70-191	2	20	
Chloroform	ug/kg	2500	2410	2510	96	100	70-130	4	20	
Chloromethane	ug/kg	2500	2580	2610	103	104	52-132	1	20	
cis-1,2-Dichloroethene	ug/kg	2500	2290	2310	92	92	70-130	1	20	
cis-1,3-Dichloropropene	ug/kg	2500	2430	2590	97	104	70-130	7	20	
Dibromochloromethane	ug/kg	2500	2540	2700	102	108	65-130	6	20	
Dichlorodifluoromethane	ug/kg	2500	2160	2230	86	89	12-150	3	20	
Ethylbenzene	ug/kg	2500	2520	2560	101	103	70-130	2	20	
Isopropylbenzene (Cumene)	ug/kg	2500	2480	2580	99	103	70-130	4	20	
m&p-Xylene	ug/kg	5000	5030	5260	101	105	70-130	4	20	
Methyl-tert-butyl ether	ug/kg	2500	2360	2470	94	99	70-130	5	20	
Methylene Chloride	ug/kg	2500	2480	2530	99	101	70-131	2	20	
o-Xylene	ug/kg	2500	2420	2540	97	102	70-130	5	20	
Styrene	ug/kg	2500	2460	2560	98	103	70-130	4	20	
Tetrachloroethene	ug/kg	2500	2820	3030	113	121	70-130	7	20	
Toluene	ug/kg	2500	2710	2770	108	111	70-130	2	20	
trans-1,2-Dichloroethene	ug/kg	2500	2340	2380	94	95	69-130	1	20	
trans-1,3-Dichloropropene	ug/kg	2500	2460	2530	98	101	65-130	3	20	
Trichloroethene	ug/kg	2500	2460	2570	98	103	70-130	5	20	
Trichlorofluoromethane	ug/kg	2500	2580	2620	103	105	50-150	2	20	
Vinyl chloride	ug/kg	2500	2450	2540	98	102	67-134	4	20	
4-Bromofluorobenzene (S)	%				90	95	53-134			
Dibromofluoromethane (S)	%				104	107	49-157			
Toluene-d8 (S)	%				110	111	61-148			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

QC Batch: MSV/29784 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40119479009, 40119479010, 40119479011

METHOD BLANK: 1205872 Matrix: Solid
Associated Lab Samples: 40119479009, 40119479010, 40119479011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	08/13/15 10:06	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	08/13/15 10:06	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	08/13/15 10:06	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	08/13/15 10:06	
1,1-Dichloroethane	ug/kg	<17.6	50.0	08/13/15 10:06	
1,1-Dichloroethene	ug/kg	<17.6	50.0	08/13/15 10:06	
1,1-Dichloropropene	ug/kg	<14.0	50.0	08/13/15 10:06	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	08/13/15 10:06	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	08/13/15 10:06	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	08/13/15 10:06	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	08/13/15 10:06	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	08/13/15 10:06	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	08/13/15 10:06	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	08/13/15 10:06	
1,2-Dichloroethane	ug/kg	<15.0	50.0	08/13/15 10:06	
1,2-Dichloropropane	ug/kg	<16.8	50.0	08/13/15 10:06	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	08/13/15 10:06	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	08/13/15 10:06	
1,3-Dichloropropane	ug/kg	<12.0	50.0	08/13/15 10:06	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	08/13/15 10:06	
2,2-Dichloropropane	ug/kg	<12.6	50.0	08/13/15 10:06	
2-Chlorotoluene	ug/kg	<15.8	50.0	08/13/15 10:06	
4-Chlorotoluene	ug/kg	<13.0	50.0	08/13/15 10:06	
Benzene	ug/kg	<9.2	20.0	08/13/15 10:06	
Bromobenzene	ug/kg	<20.6	50.0	08/13/15 10:06	
Bromochloromethane	ug/kg	<21.4	50.0	08/13/15 10:06	
Bromodichloromethane	ug/kg	<9.8	50.0	08/13/15 10:06	
Bromoform	ug/kg	<19.8	50.0	08/13/15 10:06	
Bromomethane	ug/kg	<69.9	250	08/13/15 10:06	
Carbon tetrachloride	ug/kg	<12.1	50.0	08/13/15 10:06	
Chlorobenzene	ug/kg	<14.8	50.0	08/13/15 10:06	
Chloroethane	ug/kg	<67.0	250	08/13/15 10:06	
Chloroform	ug/kg	<46.4	250	08/13/15 10:06	
Chloromethane	ug/kg	<20.4	50.0	08/13/15 10:06	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	08/13/15 10:06	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	08/13/15 10:06	
Dibromochloromethane	ug/kg	<17.9	50.0	08/13/15 10:06	
Dibromomethane	ug/kg	<19.3	50.0	08/13/15 10:06	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	08/13/15 10:06	
Diisopropyl ether	ug/kg	<17.7	50.0	08/13/15 10:06	
Ethylbenzene	ug/kg	<12.4	50.0	08/13/15 10:06	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

METHOD BLANK: 1205872 Matrix: Solid
Associated Lab Samples: 40119479009, 40119479010, 40119479011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	08/13/15 10:06	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	08/13/15 10:06	
m&p-Xylene	ug/kg	<34.4	100	08/13/15 10:06	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	08/13/15 10:06	
Methylene Chloride	ug/kg	<16.2	50.0	08/13/15 10:06	
n-Butylbenzene	ug/kg	<10.5	50.0	08/13/15 10:06	
n-Propylbenzene	ug/kg	<11.6	50.0	08/13/15 10:06	
Naphthalene	ug/kg	<40.0	250	08/13/15 10:06	
o-Xylene	ug/kg	<14.0	50.0	08/13/15 10:06	
p-Isopropyltoluene	ug/kg	<12.0	50.0	08/13/15 10:06	
sec-Butylbenzene	ug/kg	<11.9	50.0	08/13/15 10:06	
Styrene	ug/kg	<9.0	50.0	08/13/15 10:06	
tert-Butylbenzene	ug/kg	<9.5	50.0	08/13/15 10:06	
Tetrachloroethene	ug/kg	<12.9	50.0	08/13/15 10:06	
Toluene	ug/kg	<11.2	50.0	08/13/15 10:06	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	08/13/15 10:06	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	08/13/15 10:06	
Trichloroethene	ug/kg	<23.6	50.0	08/13/15 10:06	
Trichlorofluoromethane	ug/kg	<24.7	50.0	08/13/15 10:06	
Vinyl chloride	ug/kg	<21.1	50.0	08/13/15 10:06	
4-Bromofluorobenzene (S)	%	90	53-134	08/13/15 10:06	
Dibromofluoromethane (S)	%	93	49-157	08/13/15 10:06	
Toluene-d8 (S)	%	105	61-148	08/13/15 10:06	

LABORATORY CONTROL SAMPLE & LCSD: 1205873 1205874

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2000	2240	80	89	70-130	11	20	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2450	2510	98	100	70-130	2	20	
1,1,2-Trichloroethane	ug/kg	2500	2560	2750	103	110	70-130	7	20	
1,1-Dichloroethane	ug/kg	2500	2580	2750	103	110	70-130	6	20	
1,1-Dichloroethene	ug/kg	2500	2410	2680	96	107	70-132	11	20	
1,2,4-Trichlorobenzene	ug/kg	2500	2550	2790	102	111	70-130	9	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1480	1810	59	73	45-150	20	20	
1,2-Dibromoethane (EDB)	ug/kg	2500	2530	2620	101	105	70-130	4	20	
1,2-Dichlorobenzene	ug/kg	2500	2560	2770	102	111	70-130	8	20	
1,2-Dichloroethane	ug/kg	2500	2350	2510	94	100	70-134	7	20	
1,2-Dichloropropane	ug/kg	2500	2860	2900	114	116	70-130	1	20	
1,3-Dichlorobenzene	ug/kg	2500	2610	2780	105	111	70-130	6	20	
1,4-Dichlorobenzene	ug/kg	2500	2570	2740	103	109	70-130	6	20	
Benzene	ug/kg	2500	2650	2790	106	111	70-130	5	20	
Bromodichloromethane	ug/kg	2500	2140	2330	85	93	70-130	9	20	
Bromoform	ug/kg	2500	1770	1920	71	77	48-130	8	20	
Bromomethane	ug/kg	2500	2620	2720	105	109	70-169	4	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

LABORATORY CONTROL SAMPLE & LCSD: 1205873 1205874

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Carbon tetrachloride	ug/kg	2500	1890	2120	76	85	67-130	12	20	
Chlorobenzene	ug/kg	2500	2690	2800	107	112	70-130	4	20	
Chloroethane	ug/kg	2500	2690	2840	108	114	70-191	5	20	
Chloroform	ug/kg	2500	2300	2460	92	99	70-130	7	20	
Chloromethane	ug/kg	2500	2690	2760	107	110	52-132	3	20	
cis-1,2-Dichloroethene	ug/kg	2500	2430	2590	97	104	70-130	6	20	
cis-1,3-Dichloropropene	ug/kg	2500	2210	2380	88	95	70-130	7	20	
Dibromochloromethane	ug/kg	2500	1950	2120	78	85	65-130	8	20	
Dichlorodifluoromethane	ug/kg	2500	1800	1920	72	77	12-150	7	20	
Ethylbenzene	ug/kg	2500	2630	2680	105	107	70-130	2	20	
Isopropylbenzene (Cumene)	ug/kg	2500	2580	2710	103	109	70-130	5	20	
m&p-Xylene	ug/kg	5000	5380	5630	108	113	70-130	5	20	
Methyl-tert-butyl ether	ug/kg	2500	2410	2530	97	101	70-130	5	20	
Methylene Chloride	ug/kg	2500	2680	2850	107	114	70-131	6	20	
o-Xylene	ug/kg	2500	2670	2840	107	113	70-130	6	20	
Styrene	ug/kg	2500	2680	2710	107	108	70-130	1	20	
Tetrachloroethene	ug/kg	2500	2590	2690	104	107	70-130	4	20	
Toluene	ug/kg	2500	2720	2830	109	113	70-130	4	20	
trans-1,2-Dichloroethene	ug/kg	2500	2640	2860	106	114	69-130	8	20	
trans-1,3-Dichloropropene	ug/kg	2500	2010	2090	80	84	65-130	4	20	
Trichloroethene	ug/kg	2500	2480	2620	99	105	70-130	6	20	
Trichlorofluoromethane	ug/kg	2500	1960	2140	78	86	50-150	9	20	
Vinyl chloride	ug/kg	2500	2580	2690	103	108	67-134	4	20	
4-Bromofluorobenzene (S)	%				91	95	53-134			
Dibromofluoromethane (S)	%				95	106	49-157			
Toluene-d8 (S)	%				105	110	61-148			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

QC Batch: OEXT/27690
QC Batch Method: EPA 3546
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40119479001, 40119479002

METHOD BLANK: 1206420
Matrix: Solid
Associated Lab Samples: 40119479001, 40119479002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<8.3	16.7	08/14/15 10:21	
2-Methylnaphthalene	ug/kg	<8.3	16.7	08/14/15 10:21	
Acenaphthene	ug/kg	<8.3	16.7	08/14/15 10:21	
Acenaphthylene	ug/kg	<7.5	16.7	08/14/15 10:21	
Anthracene	ug/kg	<8.6	16.7	08/14/15 10:21	
Benzo(a)anthracene	ug/kg	<5.8	16.7	08/14/15 10:21	
Benzo(a)pyrene	ug/kg	<6.0	16.7	08/14/15 10:21	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	08/14/15 10:21	
Benzo(g,h,i)perylene	ug/kg	<6.3	16.7	08/14/15 10:21	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	08/14/15 10:21	
Chrysene	ug/kg	<7.7	16.7	08/14/15 10:21	
Dibenz(a,h)anthracene	ug/kg	<6.1	16.7	08/14/15 10:21	
Fluoranthene	ug/kg	<8.3	16.7	08/14/15 10:21	
Fluorene	ug/kg	<8.3	16.7	08/14/15 10:21	
Indeno(1,2,3-cd)pyrene	ug/kg	<6.3	16.7	08/14/15 10:21	
Naphthalene	ug/kg	<8.3	16.7	08/14/15 10:21	
Phenanthrene	ug/kg	<8.3	16.7	08/14/15 10:21	
Pyrene	ug/kg	<8.3	16.7	08/14/15 10:21	
2-Fluorobiphenyl (S)	%	55	39-130	08/14/15 10:21	
Terphenyl-d14 (S)	%	58	37-130	08/14/15 10:21	

LABORATORY CONTROL SAMPLE: 1206421

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	182	55	53-130	
2-Methylnaphthalene	ug/kg	333	189	57	52-130	
Acenaphthene	ug/kg	333	195	59	54-130	
Acenaphthylene	ug/kg	333	201	60	55-130	
Anthracene	ug/kg	333	234	70	64-130	
Benzo(a)anthracene	ug/kg	333	199	60	50-130	
Benzo(a)pyrene	ug/kg	333	200	60	46-130	
Benzo(b)fluoranthene	ug/kg	333	181	54	43-130	
Benzo(g,h,i)perylene	ug/kg	333	181	54	48-130	
Benzo(k)fluoranthene	ug/kg	333	215	64	55-130	
Chrysene	ug/kg	333	183	55	62-130	L0
Dibenz(a,h)anthracene	ug/kg	333	184	55	49-130	
Fluoranthene	ug/kg	333	206	62	57-130	
Fluorene	ug/kg	333	194	58	57-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	199	60	50-130	
Naphthalene	ug/kg	333	180	54	48-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

QUALITY CONTROL DATA

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

LABORATORY CONTROL SAMPLE: 1206421

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	206	62	51-130	
Pyrene	ug/kg	333	207	62	55-130	
2-Fluorobiphenyl (S)	%			59	39-130	
Terphenyl-d14 (S)	%			59	37-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1206422 1206423

Parameter	Units	40119493007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	<19.5	389	389	200	224	51	57	50-130	11	30	
2-Methylnaphthalene	ug/kg	<19.5	389	389	209	232	53	59	44-130	11	32	
Acenaphthene	ug/kg	<19.5	389	389	215	233	55	60	46-130	8	26	
Acenaphthylene	ug/kg	<19.5	389	389	218	242	56	62	49-130	10	23	
Anthracene	ug/kg	<19.5	389	389	250	282	64	72	52-130	12	28	
Benzo(a)anthracene	ug/kg	<19.5	389	389	219	239	54	59	34-130	9	36	
Benzo(a)pyrene	ug/kg	<19.5	389	389	227	242	55	59	34-130	6	40	
Benzo(b)fluoranthene	ug/kg	<19.5	389	389	218	231	53	56	22-130	6	40	
Benzo(g,h,i)perylene	ug/kg	<19.5	389	389	203	217	49	52	24-130	7	35	
Benzo(k)fluoranthene	ug/kg	<19.5	389	389	232	255	56	62	41-130	10	37	
Chrysene	ug/kg	<19.5	389	389	216	234	52	57	49-130	8	33	
Dibenz(a,h)anthracene	ug/kg	<19.5	389	389	197	218	50	55	27-130	10	31	
Fluoranthene	ug/kg	<19.5	389	389	234	254	56	61	34-130	8	37	
Fluorene	ug/kg	<19.5	389	389	210	233	54	60	45-130	10	25	
Indeno(1,2,3-cd)pyrene	ug/kg	<19.5	389	389	217	234	53	58	30-130	8	34	
Naphthalene	ug/kg	<19.5	389	389	194	214	50	55	38-130	10	30	
Phenanthrene	ug/kg	<19.5	389	389	228	249	57	63	38-130	9	34	
Pyrene	ug/kg	<19.5	389	389	228	244	55	59	35-130	7	35	
2-Fluorobiphenyl (S)	%						46	53	39-130			
Terphenyl-d14 (S)	%						46	54	37-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

QC Batch: OEXT/27718 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40119479003, 40119479004, 40119479005, 40119479006, 40119479007, 40119479008, 40119479009, 40119479010

METHOD BLANK: 1208083 Matrix: Solid
Associated Lab Samples: 40119479003, 40119479004, 40119479005, 40119479006, 40119479007, 40119479008, 40119479009, 40119479010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<8.3	16.7	08/19/15 12:30	
2-Methylnaphthalene	ug/kg	<8.3	16.7	08/19/15 12:30	
Acenaphthene	ug/kg	<8.3	16.7	08/19/15 12:30	
Acenaphthylene	ug/kg	<7.5	16.7	08/19/15 12:30	
Anthracene	ug/kg	<8.6	16.7	08/19/15 12:30	
Benzo(a)anthracene	ug/kg	<5.8	16.7	08/19/15 12:30	
Benzo(a)pyrene	ug/kg	<6.0	16.7	08/19/15 12:30	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	08/19/15 12:30	
Benzo(g,h,i)perylene	ug/kg	<6.3	16.7	08/19/15 12:30	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	08/19/15 12:30	
Chrysene	ug/kg	<7.7	16.7	08/19/15 12:30	
Dibenz(a,h)anthracene	ug/kg	<6.1	16.7	08/19/15 12:30	
Fluoranthene	ug/kg	<8.3	16.7	08/19/15 12:30	
Fluorene	ug/kg	<8.3	16.7	08/19/15 12:30	
Indeno(1,2,3-cd)pyrene	ug/kg	<6.3	16.7	08/19/15 12:30	
Naphthalene	ug/kg	<8.3	16.7	08/19/15 12:30	
Phenanthrene	ug/kg	<8.3	16.7	08/19/15 12:30	
Pyrene	ug/kg	<8.3	16.7	08/19/15 12:30	
2-Fluorobiphenyl (S)	%	67	39-130	08/19/15 12:30	
Terphenyl-d14 (S)	%	73	37-130	08/19/15 12:30	

LABORATORY CONTROL SAMPLE: 1208084

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	235	70	53-130	
2-Methylnaphthalene	ug/kg	333	245	74	52-130	
Acenaphthene	ug/kg	333	247	74	54-130	
Acenaphthylene	ug/kg	333	254	76	55-130	
Anthracene	ug/kg	333	294	88	64-130	
Benzo(a)anthracene	ug/kg	333	247	74	50-130	
Benzo(a)pyrene	ug/kg	333	245	74	46-130	
Benzo(b)fluoranthene	ug/kg	333	238	71	43-130	
Benzo(g,h,i)perylene	ug/kg	333	212	64	48-130	
Benzo(k)fluoranthene	ug/kg	333	247	74	55-130	
Chrysene	ug/kg	333	231	69	62-130	
Dibenz(a,h)anthracene	ug/kg	333	228	68	49-130	
Fluoranthene	ug/kg	333	253	76	57-130	
Fluorene	ug/kg	333	244	73	57-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

LABORATORY CONTROL SAMPLE: 1208084

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/kg	333	240	72	50-130	
Naphthalene	ug/kg	333	236	71	48-130	
Phenanthrene	ug/kg	333	257	77	51-130	
Pyrene	ug/kg	333	242	73	55-130	
2-Fluorobiphenyl (S)	%			73	39-130	
Terphenyl-d14 (S)	%			73	37-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1208085 1208086

Parameter	Units	40119479010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	32.0	414	414	273	250	58	53	50-130	9	30	
2-Methylnaphthalene	ug/kg	36.0	414	414	293	270	62	57	44-130	8	32	
Acenaphthene	ug/kg	11.4J	414	414	272	253	63	58	46-130	7	26	
Acenaphthylene	ug/kg	<9.3	414	414	265	244	64	59	49-130	8	23	
Anthracene	ug/kg	<10.7	414	414	312	292	74	69	52-130	6	28	
Benzo(a)anthracene	ug/kg	<7.2	414	414	257	238	61	57	34-130	7	36	
Benzo(a)pyrene	ug/kg	<7.4	414	414	255	238	61	57	34-130	7	40	
Benzo(b)fluoranthene	ug/kg	<10.4	414	414	247	222	59	53	22-130	10	40	
Benzo(g,h,i)perylene	ug/kg	<7.9	414	414	192	176	46	42	24-130	9	35	
Benzo(k)fluoranthene	ug/kg	<11.5	414	414	284	273	68	65	41-130	4	37	
Chrysene	ug/kg	10.4J	414	414	252	237	58	55	49-130	6	33	
Dibenz(a,h)anthracene	ug/kg	<7.6	414	414	215	197	52	48	27-130	8	31	
Fluoranthene	ug/kg	11.7J	414	414	288	277	67	64	34-130	4	37	
Fluorene	ug/kg	<10.4	414	414	264	244	62	57	45-130	8	25	
Indeno(1,2,3-cd)pyrene	ug/kg	<7.9	414	414	224	204	54	49	30-130	9	34	
Naphthalene	ug/kg	72.1	414	414	321	293	60	53	38-130	9	30	
Phenanthrene	ug/kg	30.8	414	414	304	285	66	61	38-130	6	34	
Pyrene	ug/kg	10.5J	414	414	238	226	55	52	35-130	5	35	
2-Fluorobiphenyl (S)	%						53	54	39-130			
Terphenyl-d14 (S)	%						47	50	37-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

QC Batch: PMST/11639 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40119479001, 40119479002, 40119479003, 40119479004, 40119479005, 40119479006, 40119479007, 40119479008, 40119479009, 40119479010

SAMPLE DUPLICATE: 1207392

Parameter	Units	40119473001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.6	18.0	2	10	

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

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

BATCH QUALIFIERS

Batch: MSV/29783

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/29785

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
W	Non-detect results are reported on a wet weight basis.

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60328684 KEP CS2 EXCAVATIONS
Pace Project No.: 40119479

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40119479001	**E30L-SW-1**	EPA 3546	OEXT/27690	EPA 8270 by SIM	MSSV/8188
40119479002	**E30L-SW-2**	EPA 3546	OEXT/27690	EPA 8270 by SIM	MSSV/8188
40119479003	**E30L-SW-3**	EPA 3546	OEXT/27718	EPA 8270 by SIM	MSSV/8197
40119479004	**E30L-SW-4**	EPA 3546	OEXT/27718	EPA 8270 by SIM	MSSV/8197
40119479005	**E30L-B-5**	EPA 3546	OEXT/27718	EPA 8270 by SIM	MSSV/8197
40119479006	**E29T-SW-1**	EPA 3546	OEXT/27718	EPA 8270 by SIM	MSSV/8197
40119479007	**E29T-SW-2**	EPA 3546	OEXT/27718	EPA 8270 by SIM	MSSV/8197
40119479008	**E29T-SW-3**	EPA 3546	OEXT/27718	EPA 8270 by SIM	MSSV/8197
40119479009	**E29T-SW-4**	EPA 3546	OEXT/27718	EPA 8270 by SIM	MSSV/8197
40119479010	**E29T-B-5**	EPA 3546	OEXT/27718	EPA 8270 by SIM	MSSV/8197
40119479001	**E30L-SW-1**	EPA 5035/5030B	MSV/29782	EPA 8260	MSV/29783
40119479002	**E30L-SW-2**	EPA 5035/5030B	MSV/29782	EPA 8260	MSV/29783
40119479003	**E30L-SW-3**	EPA 5035/5030B	MSV/29782	EPA 8260	MSV/29783
40119479004	**E30L-SW-4**	EPA 5035/5030B	MSV/29782	EPA 8260	MSV/29783
40119479005	**E30L-B-5**	EPA 5035/5030B	MSV/29782	EPA 8260	MSV/29783
40119479006	**E29T-SW-1**	EPA 5035/5030B	MSV/29782	EPA 8260	MSV/29783
40119479007	**E29T-SW-2**	EPA 5035/5030B	MSV/29782	EPA 8260	MSV/29783
40119479008	**E29T-SW-3**	EPA 5035/5030B	MSV/29782	EPA 8260	MSV/29783
40119479009	**E29T-SW-4**	EPA 5035/5030B	MSV/29784	EPA 8260	MSV/29785
40119479010	**E29T-B-5**	EPA 5035/5030B	MSV/29784	EPA 8260	MSV/29785
40119479011	**TRIP BLANK**	EPA 5035/5030B	MSV/29784	EPA 8260	MSV/29785
40119479001	**E30L-SW-1**	ASTM D2974-87	PMST/11639		
40119479002	**E30L-SW-2**	ASTM D2974-87	PMST/11639		
40119479003	**E30L-SW-3**	ASTM D2974-87	PMST/11639		
40119479004	**E30L-SW-4**	ASTM D2974-87	PMST/11639		
40119479005	**E30L-B-5**	ASTM D2974-87	PMST/11639		
40119479006	**E29T-SW-1**	ASTM D2974-87	PMST/11639		
40119479007	**E29T-SW-2**	ASTM D2974-87	PMST/11639		
40119479008	**E29T-SW-3**	ASTM D2974-87	PMST/11639		
40119479009	**E29T-SW-4**	ASTM D2974-87	PMST/11639		
40119479010	**E29T-B-5**	ASTM D2974-87	PMST/11639		

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

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EM

40119479

CHAIN OF CUSTODY

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

(Please Print Clearly)	
Company Name:	AECOM
Branch/Location:	Milwaukee, WI
Project Contact:	Lanette Altenbach
Phone:	414-944-6186
Project Number:	60328684
Project Name:	KEP LSL Excavations
Project State:	Wisconsin
Sampled By (Print):	Andrew Schamber
Sampled By (Sign):	A.
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Lanette Altenbach
Mail To Company:	AECOM
Mail To Address:	1555 N. Rivercenter Dr. ste 214 Milwaukee, WI 53212
Invoice To Contact:	Accounts Payable/Finance
Invoice To Company:	City of Kenosha
Invoice To Address:	625 52nd St Kenosha, WI 53140
Invoice To Phone:	

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

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

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOC	PAH	Dry Weight	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	N	N					
					F	A	A					
001	E30L-SW-1	8/7/15	0800	S	1	1	1				1-40mlVF 1-4ozP 1-4ozAG	
002	E30L-SW-2		0810		1	1	1					
003	E30L-SW-3		1510		1	1	1					
004	E30L-SW-4		1500		1	1	1					
005	E30L-B-5		0820		1	1	1					
006	E29T-SW-1	8/10/15	1105		1	1	1					
007	E29T-SW-2		1115		1	1	1					
008	E29T-SW-3		1125		1	1	1					
009	E29T-SW-4		1135		1	1	1					
010	E29T-B-5		1145		1	1	1					
011	Trip Blank	8/7/15	0745		1						2-40mlVF	

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:
	8/11/15 12:35	Mary Fannin	8/11/15 12:35
Mary Fannin	8/11/15 1500		
WATTCO	8/12/15 0845	Carly Ret	8/12/15 1845

PACE Project No.
40119479

Receipt Temp = ROI °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal ~~Present~~ / Not Present
~~Intact~~ / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

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

Project # WO#: 40119479

40119479

Client Name: Arcom

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

Tracking #:

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

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

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

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

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

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 8/12/15
Initials: CL

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

				Comments:
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☒Yes	☐No	☐N/A	8.
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☒No	☐N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10. 005 4ozP has water in sample
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11. marked as "Do not use" by lab
Sample Labels match COC:	☒Yes	☐No	☐N/A	12. 8-12-15 MV
-Includes date/time/ID/Analysis Matrix: S				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☒N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes	☒No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	14.
Trip Blank Present:	☐Yes	☐No	☒N/A	15.
Trip Blank Custody Seals Present	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot # (if purchased):				

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 8-12-15

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

August 25, 2015

Lanette Altenbach
AECOM, Inc.- MILWAUKEE
1555 N River Center Drive
Suite 214
Milwaukee, WI 53212

RE: Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Dear Lanette Altenbach:
Enclosed are the analytical results for sample(s) received by the laboratory on August 14, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Christopher Hyska
christopher.hyska@pacelabs.com
Project Manager

Enclosures

cc: Ken Brown, AECOM, Inc. - MILWAUKEE
Sarah Engelhardt, AECOM, Inc. - MILWAUKEE

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

CERTIFICATIONS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

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
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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SAMPLE SUMMARY

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40119674001	**E31L-B-5**	Solid	08/13/15 08:30	08/14/15 15:35
40119674002	**E31L-SW-1**	Solid	08/13/15 15:00	08/14/15 15:35
40119674003	**E31L-SW-2**	Solid	08/13/15 09:55	08/14/15 15:35
40119674004	**E31L-SW-3**	Solid	08/13/15 10:05	08/14/15 15:35
40119674005	**E31L-SW-4**	Solid	08/13/15 10:15	08/14/15 15:35
40119674006	**ECS2-EXTRA-B-1**	Solid	08/13/15 09:30	08/14/15 15:35
40119674007	**E28L-B-5**	Solid	08/12/15 08:40	08/14/15 15:35
40119674008	**E28L-SW-1**	Solid	08/11/15 15:45	08/14/15 15:35
40119674009	**TRIP BLANK**	Solid	08/11/15 08:00	08/14/15 15:35
40119674010	**E28L-SW-2**	Solid	08/11/15 15:55	08/14/15 15:35
40119674011	**E28L-SW-3**	Solid	08/11/15 16:05	08/14/15 15:35
40119674012	**E28L-SW-4**	Solid	08/11/15 16:15	08/14/15 15:35

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SAMPLE ANALYTE COUNT

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40119674001	**E31L-B-5**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	63	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119674002	**E31L-SW-1**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	63	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119674003	**E31L-SW-2**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	63	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119674004	**E31L-SW-3**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	63	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119674005	**E31L-SW-4**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	63	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119674006	**ECS2-EXTRA-B-1**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	63	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119674007	**E28L-B-5**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	63	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40119674008	**E28L-SW-1**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	63	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40119674009	**TRIP BLANK**	EPA 8260	SMT	63	PASI-G
40119674010	**E28L-SW-2**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	63	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40119674011	**E28L-SW-3**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	63	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40119674012	**E28L-SW-4**	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	63	PASI-G
		ASTM D2974-87	TEL	1	PASI-G

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

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: E31L-B-5 **Lab ID: 40119674001** Collected: 08/13/15 08:30 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<10.0**	ug/kg	20.1	10.0	1	08/21/15 08:49	08/24/15 13:26	83-32-9	
Acenaphthylene	**<9.0**	ug/kg	20.1	9.0	1	08/21/15 08:49	08/24/15 13:26	208-96-8	
Anthracene	**<10.4**	ug/kg	20.1	10.4	1	08/21/15 08:49	08/24/15 13:26	120-12-7	
Benzo(a)anthracene	**<7.0**	ug/kg	20.1	7.0	1	08/21/15 08:49	08/24/15 13:26	56-55-3	
Benzo(a)pyrene	**<7.2**	ug/kg	20.1	7.2	1	08/21/15 08:49	08/24/15 13:26	50-32-8	
Benzo(b)fluoranthene	**<10.0**	ug/kg	20.1	10.0	1	08/21/15 08:49	08/24/15 13:26	205-99-2	
Benzo(g,h,i)perylene	**<7.7**	ug/kg	20.1	7.7	1	08/21/15 08:49	08/24/15 13:26	191-24-2	
Benzo(k)fluoranthene	**<11.1**	ug/kg	20.1	11.1	1	08/21/15 08:49	08/24/15 13:26	207-08-9	
Chrysene	**<9.3**	ug/kg	20.1	9.3	1	08/21/15 08:49	08/24/15 13:26	218-01-9	
Dibenz(a,h)anthracene	**<7.4**	ug/kg	20.1	7.4	1	08/21/15 08:49	08/24/15 13:26	53-70-3	
Fluoranthene	**<10.0**	ug/kg	20.1	10.0	1	08/21/15 08:49	08/24/15 13:26	206-44-0	
Fluorene	**<10.0**	ug/kg	20.1	10.0	1	08/21/15 08:49	08/24/15 13:26	86-73-7	
Indeno(1,2,3-cd)pyrene	**<7.6**	ug/kg	20.1	7.6	1	08/21/15 08:49	08/24/15 13:26	193-39-5	
1-Methylnaphthalene	**<10.0**	ug/kg	20.1	10.0	1	08/21/15 08:49	08/24/15 13:26	90-12-0	
2-Methylnaphthalene	**<10.0**	ug/kg	20.1	10.0	1	08/21/15 08:49	08/24/15 13:26	91-57-6	
Naphthalene	**<10.0**	ug/kg	20.1	10.0	1	08/21/15 08:49	08/24/15 13:26	91-20-3	
Phenanthrene	**<10.0**	ug/kg	20.1	10.0	1	08/21/15 08:49	08/24/15 13:26	85-01-8	
Pyrene	**<10.0**	ug/kg	20.1	10.0	1	08/21/15 08:49	08/24/15 13:26	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	39-130		1	08/21/15 08:49	08/24/15 13:26	321-60-8	
Terphenyl-d14 (S)	64	%	37-130		1	08/21/15 08:49	08/24/15 13:26	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/18/15 10:00	08/19/15 00:28	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/18/15 10:00	08/19/15 00:28	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/18/15 10:00	08/19/15 00:28	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/18/15 10:00	08/19/15 00:28	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: E31L-B-5 **Lab ID: 40119674001** Collected: 08/13/15 08:30 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/18/15 10:00	08/19/15 00:28	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/18/15 10:00	08/19/15 00:28	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:28	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	08/18/15 10:00	08/19/15 00:28	1330-20-7	W
Surrogates									
Dibromofluoromethane (S)	102	%	49-157		1	08/18/15 10:00	08/19/15 00:28	1868-53-7	
Toluene-d8 (S)	104	%	61-148		1	08/18/15 10:00	08/19/15 00:28	2037-26-5	
4-Bromofluorobenzene (S)	91	%	53-134		1	08/18/15 10:00	08/19/15 00:28	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.1**	%	0.10	0.10	1		08/17/15 15:04		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: E31L-SW-1 **Lab ID: 40119674002** Collected: 08/13/15 15:00 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<9.8**	ug/kg	19.5	9.8	1	08/21/15 08:49	08/24/15 09:39	83-32-9	
Acenaphthylene	**<8.7**	ug/kg	19.5	8.7	1	08/21/15 08:49	08/24/15 09:39	208-96-8	
Anthracene	**<10.1**	ug/kg	19.5	10.1	1	08/21/15 08:49	08/24/15 09:39	120-12-7	
Benzo(a)anthracene	**<6.8**	ug/kg	19.5	6.8	1	08/21/15 08:49	08/24/15 09:39	56-55-3	
Benzo(a)pyrene	**<7.0**	ug/kg	19.5	7.0	1	08/21/15 08:49	08/24/15 09:39	50-32-8	
Benzo(b)fluoranthene	**<9.8**	ug/kg	19.5	9.8	1	08/21/15 08:49	08/24/15 09:39	205-99-2	
Benzo(g,h,i)perylene	**<7.4**	ug/kg	19.5	7.4	1	08/21/15 08:49	08/24/15 09:39	191-24-2	
Benzo(k)fluoranthene	**<10.8**	ug/kg	19.5	10.8	1	08/21/15 08:49	08/24/15 09:39	207-08-9	
Chrysene	**<9.0**	ug/kg	19.5	9.0	1	08/21/15 08:49	08/24/15 09:39	218-01-9	
Dibenz(a,h)anthracene	**<7.2**	ug/kg	19.5	7.2	1	08/21/15 08:49	08/24/15 09:39	53-70-3	
Fluoranthene	**<9.8**	ug/kg	19.5	9.8	1	08/21/15 08:49	08/24/15 09:39	206-44-0	
Fluorene	**<9.8**	ug/kg	19.5	9.8	1	08/21/15 08:49	08/24/15 09:39	86-73-7	
Indeno(1,2,3-cd)pyrene	**<7.4**	ug/kg	19.5	7.4	1	08/21/15 08:49	08/24/15 09:39	193-39-5	
1-Methylnaphthalene	**10J**	ug/kg	19.5	9.8	1	08/21/15 08:49	08/24/15 09:39	90-12-0	
2-Methylnaphthalene	**24.4**	ug/kg	19.5	9.8	1	08/21/15 08:49	08/24/15 09:39	91-57-6	
Naphthalene	**9.8J**	ug/kg	19.5	9.8	1	08/21/15 08:49	08/24/15 09:39	91-20-3	
Phenanthrene	**<9.8**	ug/kg	19.5	9.8	1	08/21/15 08:49	08/24/15 09:39	85-01-8	
Pyrene	**<9.8**	ug/kg	19.5	9.8	1	08/21/15 08:49	08/24/15 09:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%	39-130		1	08/21/15 08:49	08/24/15 09:39	321-60-8	
Terphenyl-d14 (S)	51	%	37-130		1	08/21/15 08:49	08/24/15 09:39	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/18/15 10:00	08/19/15 00:51	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/18/15 10:00	08/19/15 00:51	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/18/15 10:00	08/19/15 00:51	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/18/15 10:00	08/19/15 00:51	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: E31L-SW-1 **Lab ID: 40119674002** Collected: 08/13/15 15:00 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/18/15 10:00	08/19/15 00:51	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/18/15 10:00	08/19/15 00:51	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 00:51	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	08/18/15 10:00	08/19/15 00:51	1330-20-7	W
Surrogates									
Dibromofluoromethane (S)	114	%	49-157		1	08/18/15 10:00	08/19/15 00:51	1868-53-7	
Toluene-d8 (S)	121	%	61-148		1	08/18/15 10:00	08/19/15 00:51	2037-26-5	
4-Bromofluorobenzene (S)	108	%	53-134		1	08/18/15 10:00	08/19/15 00:51	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.7**	%	0.10	0.10	1		08/17/15 15:04		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: E31L-SW-2 **Lab ID: 40119674003** Collected: 08/13/15 09:55 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<9.4**	ug/kg	18.7	9.4	1	08/21/15 08:49	08/24/15 09:56	83-32-9	
Acenaphthylene	**<8.4**	ug/kg	18.7	8.4	1	08/21/15 08:49	08/24/15 09:56	208-96-8	
Anthracene	**<9.7**	ug/kg	18.7	9.7	1	08/21/15 08:49	08/24/15 09:56	120-12-7	
Benzo(a)anthracene	**<6.5**	ug/kg	18.7	6.5	1	08/21/15 08:49	08/24/15 09:56	56-55-3	
Benzo(a)pyrene	**<6.7**	ug/kg	18.7	6.7	1	08/21/15 08:49	08/24/15 09:56	50-32-8	
Benzo(b)fluoranthene	**<9.4**	ug/kg	18.7	9.4	1	08/21/15 08:49	08/24/15 09:56	205-99-2	
Benzo(g,h,i)perylene	**<7.1**	ug/kg	18.7	7.1	1	08/21/15 08:49	08/24/15 09:56	191-24-2	
Benzo(k)fluoranthene	**<10.4**	ug/kg	18.7	10.4	1	08/21/15 08:49	08/24/15 09:56	207-08-9	
Chrysene	**<8.6**	ug/kg	18.7	8.6	1	08/21/15 08:49	08/24/15 09:56	218-01-9	
Dibenz(a,h)anthracene	**<6.9**	ug/kg	18.7	6.9	1	08/21/15 08:49	08/24/15 09:56	53-70-3	
Fluoranthene	**<9.4**	ug/kg	18.7	9.4	1	08/21/15 08:49	08/24/15 09:56	206-44-0	
Fluorene	**<9.4**	ug/kg	18.7	9.4	1	08/21/15 08:49	08/24/15 09:56	86-73-7	
Indeno(1,2,3-cd)pyrene	**<7.1**	ug/kg	18.7	7.1	1	08/21/15 08:49	08/24/15 09:56	193-39-5	
1-Methylnaphthalene	**<9.4**	ug/kg	18.7	9.4	1	08/21/15 08:49	08/24/15 09:56	90-12-0	
2-Methylnaphthalene	**12.6J**	ug/kg	18.7	9.4	1	08/21/15 08:49	08/24/15 09:56	91-57-6	
Naphthalene	**10.9J**	ug/kg	18.7	9.4	1	08/21/15 08:49	08/24/15 09:56	91-20-3	
Phenanthrene	**13.0J**	ug/kg	18.7	9.4	1	08/21/15 08:49	08/24/15 09:56	85-01-8	
Pyrene	**<9.4**	ug/kg	18.7	9.4	1	08/21/15 08:49	08/24/15 09:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	42	%	39-130		1	08/21/15 08:49	08/24/15 09:56	321-60-8	
Terphenyl-d14 (S)	42	%	37-130		1	08/21/15 08:49	08/24/15 09:56	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/18/15 10:00	08/19/15 01:14	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/18/15 10:00	08/19/15 01:14	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/18/15 10:00	08/19/15 01:14	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/18/15 10:00	08/19/15 01:14	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: E31L-SW-2 **Lab ID: 40119674003** Collected: 08/13/15 09:55 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/18/15 10:00	08/19/15 01:14	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/18/15 10:00	08/19/15 01:14	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:14	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	08/18/15 10:00	08/19/15 01:14	1330-20-7	W
Surrogates									
Dibromofluoromethane (S)	114	%	49-157		1	08/18/15 10:00	08/19/15 01:14	1868-53-7	
Toluene-d8 (S)	112	%	61-148		1	08/18/15 10:00	08/19/15 01:14	2037-26-5	
4-Bromofluorobenzene (S)	97	%	53-134		1	08/18/15 10:00	08/19/15 01:14	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.9**	%	0.10	0.10	1		08/17/15 15:04		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: E31L-SW-3 **Lab ID: 40119674004** Collected: 08/13/15 10:05 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<73.6**	ug/kg	147	73.6	8	08/21/15 08:49	08/24/15 17:00	83-32-9	
Acenaphthylene	**<65.9**	ug/kg	147	65.9	8	08/21/15 08:49	08/24/15 17:00	208-96-8	
Anthracene	**440**	ug/kg	147	76.3	8	08/21/15 08:49	08/24/15 17:00	120-12-7	
Benzo(a)anthracene	**661**	ug/kg	147	51.0	8	08/21/15 08:49	08/24/15 17:00	56-55-3	
Benzo(a)pyrene	**523**	ug/kg	147	52.6	8	08/21/15 08:49	08/24/15 17:00	50-32-8	
Benzo(b)fluoranthene	**423**	ug/kg	147	73.6	8	08/21/15 08:49	08/24/15 17:00	205-99-2	
Benzo(g,h,i)perylene	**129J**	ug/kg	147	56.1	8	08/21/15 08:49	08/24/15 17:00	191-24-2	
Benzo(k)fluoranthene	**680**	ug/kg	147	81.5	8	08/21/15 08:49	08/24/15 17:00	207-08-9	
Chrysene	**673**	ug/kg	147	68.1	8	08/21/15 08:49	08/24/15 17:00	218-01-9	
Dibenz(a,h)anthracene	**62.9J**	ug/kg	147	54.0	8	08/21/15 08:49	08/24/15 17:00	53-70-3	
Fluoranthene	**1490**	ug/kg	147	73.6	8	08/21/15 08:49	08/24/15 17:00	206-44-0	
Fluorene	**<73.6**	ug/kg	147	73.6	8	08/21/15 08:49	08/24/15 17:00	86-73-7	
Indeno(1,2,3-cd)pyrene	**146J**	ug/kg	147	55.9	8	08/21/15 08:49	08/24/15 17:00	193-39-5	
1-Methylnaphthalene	**<73.6**	ug/kg	147	73.6	8	08/21/15 08:49	08/24/15 17:00	90-12-0	
2-Methylnaphthalene	**<73.6**	ug/kg	147	73.6	8	08/21/15 08:49	08/24/15 17:00	91-57-6	
Naphthalene	**<73.6**	ug/kg	147	73.6	8	08/21/15 08:49	08/24/15 17:00	91-20-3	
Phenanthrene	**371**	ug/kg	147	73.6	8	08/21/15 08:49	08/24/15 17:00	85-01-8	
Pyrene	**1180**	ug/kg	147	73.6	8	08/21/15 08:49	08/24/15 17:00	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%	39-130		8	08/21/15 08:49	08/24/15 17:00	321-60-8	
Terphenyl-d14 (S)	50	%	37-130		8	08/21/15 08:49	08/24/15 17:00	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/18/15 10:00	08/19/15 01:37	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/18/15 10:00	08/19/15 01:37	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/18/15 10:00	08/19/15 01:37	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/18/15 10:00	08/19/15 01:37	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: E31L-SW-3 **Lab ID: 40119674004** Collected: 08/13/15 10:05 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/18/15 10:00	08/19/15 01:37	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/18/15 10:00	08/19/15 01:37	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 01:37	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	08/18/15 10:00	08/19/15 01:37	1330-20-7	W
Surrogates									
Dibromofluoromethane (S)	111	%	49-157		1	08/18/15 10:00	08/19/15 01:37	1868-53-7	
Toluene-d8 (S)	113	%	61-148		1	08/18/15 10:00	08/19/15 01:37	2037-26-5	
4-Bromofluorobenzene (S)	99	%	53-134		1	08/18/15 10:00	08/19/15 01:37	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.4**	%	0.10	0.10	1		08/17/15 15:04		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: E31L-SW-4 **Lab ID: 40119674005** Collected: 08/13/15 10:15 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<9.7**	ug/kg	19.4	9.7	1	08/21/15 08:49	08/24/15 13:09	83-32-9	
Acenaphthylene	**<8.7**	ug/kg	19.4	8.7	1	08/21/15 08:49	08/24/15 13:09	208-96-8	
Anthracene	**<10.1**	ug/kg	19.4	10.1	1	08/21/15 08:49	08/24/15 13:09	120-12-7	
Benzo(a)anthracene	**<6.7**	ug/kg	19.4	6.7	1	08/21/15 08:49	08/24/15 13:09	56-55-3	
Benzo(a)pyrene	**<6.9**	ug/kg	19.4	6.9	1	08/21/15 08:49	08/24/15 13:09	50-32-8	
Benzo(b)fluoranthene	**<9.7**	ug/kg	19.4	9.7	1	08/21/15 08:49	08/24/15 13:09	205-99-2	
Benzo(g,h,i)perylene	**<7.4**	ug/kg	19.4	7.4	1	08/21/15 08:49	08/24/15 13:09	191-24-2	
Benzo(k)fluoranthene	**<10.7**	ug/kg	19.4	10.7	1	08/21/15 08:49	08/24/15 13:09	207-08-9	
Chrysene	**<9.0**	ug/kg	19.4	9.0	1	08/21/15 08:49	08/24/15 13:09	218-01-9	
Dibenz(a,h)anthracene	**<7.1**	ug/kg	19.4	7.1	1	08/21/15 08:49	08/24/15 13:09	53-70-3	
Fluoranthene	**<9.7**	ug/kg	19.4	9.7	1	08/21/15 08:49	08/24/15 13:09	206-44-0	
Fluorene	**<9.7**	ug/kg	19.4	9.7	1	08/21/15 08:49	08/24/15 13:09	86-73-7	
Indeno(1,2,3-cd)pyrene	**<7.4**	ug/kg	19.4	7.4	1	08/21/15 08:49	08/24/15 13:09	193-39-5	
1-Methylnaphthalene	**<9.7**	ug/kg	19.4	9.7	1	08/21/15 08:49	08/24/15 13:09	90-12-0	
2-Methylnaphthalene	**<9.7**	ug/kg	19.4	9.7	1	08/21/15 08:49	08/24/15 13:09	91-57-6	
Naphthalene	**<9.7**	ug/kg	19.4	9.7	1	08/21/15 08:49	08/24/15 13:09	91-20-3	
Phenanthrene	**<9.7**	ug/kg	19.4	9.7	1	08/21/15 08:49	08/24/15 13:09	85-01-8	
Pyrene	**<9.7**	ug/kg	19.4	9.7	1	08/21/15 08:49	08/24/15 13:09	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	53	%	39-130		1	08/21/15 08:49	08/24/15 13:09	321-60-8	
Terphenyl-d14 (S)	51	%	37-130		1	08/21/15 08:49	08/24/15 13:09	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/18/15 10:00	08/19/15 02:00	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/18/15 10:00	08/19/15 02:00	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/18/15 10:00	08/19/15 02:00	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/18/15 10:00	08/19/15 02:00	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: E31L-SW-4 **Lab ID: 40119674005** Collected: 08/13/15 10:15 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/18/15 10:00	08/19/15 02:00	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/18/15 10:00	08/19/15 02:00	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:00	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	08/18/15 10:00	08/19/15 02:00	1330-20-7	W
Surrogates									
Dibromofluoromethane (S)	114	%	49-157		1	08/18/15 10:00	08/19/15 02:00	1868-53-7	
Toluene-d8 (S)	117	%	61-148		1	08/18/15 10:00	08/19/15 02:00	2037-26-5	
4-Bromofluorobenzene (S)	103	%	53-134		1	08/18/15 10:00	08/19/15 02:00	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.1**	%	0.10	0.10	1		08/17/15 15:04		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: ECS2-EXTRA-B-1 **Lab ID: 40119674006** Collected: 08/13/15 09:30 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**108**	ug/kg	35.6	17.8	2	08/21/15 08:49	08/24/15 17:18	83-32-9	
Acenaphthylene	**33.3J**	ug/kg	35.6	15.9	2	08/21/15 08:49	08/24/15 17:18	208-96-8	
Anthracene	**190**	ug/kg	35.6	18.5	2	08/21/15 08:49	08/24/15 17:18	120-12-7	
Benzo(a)anthracene	**92.9**	ug/kg	35.6	12.3	2	08/21/15 08:49	08/24/15 17:18	56-55-3	
Benzo(a)pyrene	**23.0J**	ug/kg	35.6	12.7	2	08/21/15 08:49	08/24/15 17:18	50-32-8	
Benzo(b)fluoranthene	**55.8**	ug/kg	35.6	17.8	2	08/21/15 08:49	08/24/15 17:18	205-99-2	
Benzo(g,h,i)perylene	**<13.6**	ug/kg	35.6	13.6	2	08/21/15 08:49	08/24/15 17:18	191-24-2	
Benzo(k)fluoranthene	**33.4J**	ug/kg	35.6	19.7	2	08/21/15 08:49	08/24/15 17:18	207-08-9	
Chrysene	**141**	ug/kg	35.6	16.5	2	08/21/15 08:49	08/24/15 17:18	218-01-9	
Dibenz(a,h)anthracene	**<13.1**	ug/kg	35.6	13.1	2	08/21/15 08:49	08/24/15 17:18	53-70-3	
Fluoranthene	**512**	ug/kg	35.6	17.8	2	08/21/15 08:49	08/24/15 17:18	206-44-0	
Fluorene	**65.4**	ug/kg	35.6	17.8	2	08/21/15 08:49	08/24/15 17:18	86-73-7	
Indeno(1,2,3-cd)pyrene	**<13.5**	ug/kg	35.6	13.5	2	08/21/15 08:49	08/24/15 17:18	193-39-5	
1-Methylnaphthalene	**192**	ug/kg	35.6	17.8	2	08/21/15 08:49	08/24/15 17:18	90-12-0	
2-Methylnaphthalene	**447**	ug/kg	35.6	17.8	2	08/21/15 08:49	08/24/15 17:18	91-57-6	
Naphthalene	**988**	ug/kg	35.6	17.8	2	08/21/15 08:49	08/24/15 17:18	91-20-3	
Phenanthrene	**1660**	ug/kg	35.6	17.8	2	08/21/15 08:49	08/24/15 17:18	85-01-8	
Pyrene	**322**	ug/kg	35.6	17.8	2	08/21/15 08:49	08/24/15 17:18	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	39-130		2	08/21/15 08:49	08/24/15 17:18	321-60-8	
Terphenyl-d14 (S)	58	%	37-130		2	08/21/15 08:49	08/24/15 17:18	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/18/15 10:00	08/19/15 02:24	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/18/15 10:00	08/19/15 02:24	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/18/15 10:00	08/19/15 02:24	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/18/15 10:00	08/19/15 02:24	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: ECS2-EXTRA-B-1 **Lab ID: 40119674006** Collected: 08/13/15 09:30 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	75-71-8	W
1,1-Dichloroethane	**45.6J**	ug/kg	64.1	26.7	1	08/18/15 10:00	08/19/15 02:24	75-34-3	
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	1634-04-4	W
Naphthalene	**244J**	ug/kg	267	42.8	1	08/18/15 10:00	08/19/15 02:24	91-20-3	
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/18/15 10:00	08/19/15 02:24	120-82-1	W
1,1,1-Trichloroethane	**51.4J**	ug/kg	64.1	26.7	1	08/18/15 10:00	08/19/15 02:24	71-55-6	
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:24	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	08/18/15 10:00	08/19/15 02:24	1330-20-7	W
Surrogates									
Dibromofluoromethane (S)	132	%	49-157		1	08/18/15 10:00	08/19/15 02:24	1868-53-7	
Toluene-d8 (S)	131	%	61-148		1	08/18/15 10:00	08/19/15 02:24	2037-26-5	
4-Bromofluorobenzene (S)	112	%	53-134		1	08/18/15 10:00	08/19/15 02:24	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.4**	%	0.10	0.10	1		08/17/15 15:04		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: E28L-B-5 **Lab ID: 40119674007** Collected: 08/12/15 08:40 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<10.5**	ug/kg	21.0	10.5	1	08/25/15 09:08	08/25/15 12:13	83-32-9	
Acenaphthylene	**<9.4**	ug/kg	21.0	9.4	1	08/25/15 09:08	08/25/15 12:13	208-96-8	
Anthracene	**<10.9**	ug/kg	21.0	10.9	1	08/25/15 09:08	08/25/15 12:13	120-12-7	
Benzo(a)anthracene	**<7.3**	ug/kg	21.0	7.3	1	08/25/15 09:08	08/25/15 12:13	56-55-3	
Benzo(a)pyrene	**<7.5**	ug/kg	21.0	7.5	1	08/25/15 09:08	08/25/15 12:13	50-32-8	
Benzo(b)fluoranthene	**<10.5**	ug/kg	21.0	10.5	1	08/25/15 09:08	08/25/15 12:13	205-99-2	
Benzo(g,h,i)perylene	**<8.0**	ug/kg	21.0	8.0	1	08/25/15 09:08	08/25/15 12:13	191-24-2	
Benzo(k)fluoranthene	**<11.6**	ug/kg	21.0	11.6	1	08/25/15 09:08	08/25/15 12:13	207-08-9	
Chrysene	**<9.7**	ug/kg	21.0	9.7	1	08/25/15 09:08	08/25/15 12:13	218-01-9	
Dibenz(a,h)anthracene	**<7.7**	ug/kg	21.0	7.7	1	08/25/15 09:08	08/25/15 12:13	53-70-3	
Fluoranthene	**<10.5**	ug/kg	21.0	10.5	1	08/25/15 09:08	08/25/15 12:13	206-44-0	
Fluorene	**<10.5**	ug/kg	21.0	10.5	1	08/25/15 09:08	08/25/15 12:13	86-73-7	
Indeno(1,2,3-cd)pyrene	**<8.0**	ug/kg	21.0	8.0	1	08/25/15 09:08	08/25/15 12:13	193-39-5	
1-Methylnaphthalene	**<10.5**	ug/kg	21.0	10.5	1	08/25/15 09:08	08/25/15 12:13	90-12-0	
2-Methylnaphthalene	**<10.5**	ug/kg	21.0	10.5	1	08/25/15 09:08	08/25/15 12:13	91-57-6	
Naphthalene	**<10.5**	ug/kg	21.0	10.5	1	08/25/15 09:08	08/25/15 12:13	91-20-3	
Phenanthrene	**<10.5**	ug/kg	21.0	10.5	1	08/25/15 09:08	08/25/15 12:13	85-01-8	
Pyrene	**<10.5**	ug/kg	21.0	10.5	1	08/25/15 09:08	08/25/15 12:13	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%	39-130		1	08/25/15 09:08	08/25/15 12:13	321-60-8	
Terphenyl-d14 (S)	64	%	37-130		1	08/25/15 09:08	08/25/15 12:13	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/18/15 10:00	08/19/15 02:47	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/18/15 10:00	08/19/15 02:47	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/18/15 10:00	08/19/15 02:47	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/18/15 10:00	08/19/15 02:47	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: E28L-B-5 **Lab ID: 40119674007** Collected: 08/12/15 08:40 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	75-35-4	W
cis-1,2-Dichloroethene	**378**	ug/kg	75.5	31.4	1	08/18/15 10:00	08/19/15 02:47	156-59-2	
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/18/15 10:00	08/19/15 02:47	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/18/15 10:00	08/19/15 02:47	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 02:47	108-67-8	W
Vinyl chloride	**3080**	ug/kg	75.5	31.4	1	08/18/15 10:00	08/19/15 02:47	75-01-4	
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	08/18/15 10:00	08/19/15 02:47	1330-20-7	W
Surrogates									
Dibromofluoromethane (S)	103	%	49-157		1	08/18/15 10:00	08/19/15 02:47	1868-53-7	
Toluene-d8 (S)	104	%	61-148		1	08/18/15 10:00	08/19/15 02:47	2037-26-5	
4-Bromofluorobenzene (S)	90	%	53-134		1	08/18/15 10:00	08/19/15 02:47	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.5**	%	0.10	0.10	1		08/17/15 15:52		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: E28L-SW-1 **Lab ID: 40119674008** Collected: 08/11/15 15:45 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<88.2**	ug/kg	176	88.2	5	08/20/15 09:20	08/24/15 14:59	83-32-9	
Acenaphthylene	**<78.9**	ug/kg	176	78.9	5	08/20/15 09:20	08/24/15 14:59	208-96-8	
Anthracene	**173J**	ug/kg	176	91.5	5	08/20/15 09:20	08/24/15 14:59	120-12-7	
Benzo(a)anthracene	**<61.1**	ug/kg	176	61.1	5	08/20/15 09:20	08/24/15 14:59	56-55-3	
Benzo(a)pyrene	**<63.1**	ug/kg	176	63.1	5	08/20/15 09:20	08/24/15 14:59	50-32-8	
Benzo(b)fluoranthene	**<88.2**	ug/kg	176	88.2	5	08/20/15 09:20	08/24/15 14:59	205-99-2	
Benzo(g,h,i)perylene	**<67.2**	ug/kg	176	67.2	5	08/20/15 09:20	08/24/15 14:59	191-24-2	
Benzo(k)fluoranthene	**<97.6**	ug/kg	176	97.6	5	08/20/15 09:20	08/24/15 14:59	207-08-9	
Chrysene	**<81.6**	ug/kg	176	81.6	5	08/20/15 09:20	08/24/15 14:59	218-01-9	L2
Dibenz(a,h)anthracene	**<64.7**	ug/kg	176	64.7	5	08/20/15 09:20	08/24/15 14:59	53-70-3	
Fluoranthene	**<88.2**	ug/kg	176	88.2	5	08/20/15 09:20	08/24/15 14:59	206-44-0	
Fluorene	**98.6J**	ug/kg	176	88.2	5	08/20/15 09:20	08/24/15 14:59	86-73-7	
Indeno(1,2,3-cd)pyrene	**<67.0**	ug/kg	176	67.0	5	08/20/15 09:20	08/24/15 14:59	193-39-5	
1-Methylnaphthalene	**<88.2**	ug/kg	176	88.2	5	08/20/15 09:20	08/24/15 14:59	90-12-0	
2-Methylnaphthalene	**<88.2**	ug/kg	176	88.2	5	08/20/15 09:20	08/24/15 14:59	91-57-6	
Naphthalene	**<88.2**	ug/kg	176	88.2	5	08/20/15 09:20	08/24/15 14:59	91-20-3	D3
Phenanthrene	**150J**	ug/kg	176	88.2	5	08/20/15 09:20	08/24/15 14:59	85-01-8	
Pyrene	**<88.2**	ug/kg	176	88.2	5	08/20/15 09:20	08/24/15 14:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	77	%	39-130		5	08/20/15 09:20	08/24/15 14:59	321-60-8	
Terphenyl-d14 (S)	87	%	37-130		5	08/20/15 09:20	08/24/15 14:59	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/18/15 10:00	08/19/15 03:10	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/18/15 10:00	08/19/15 03:10	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/18/15 10:00	08/19/15 03:10	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/18/15 10:00	08/19/15 03:10	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: E28L-SW-1 **Lab ID: 40119674008** Collected: 08/11/15 15:45 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/18/15 10:00	08/19/15 03:10	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/18/15 10:00	08/19/15 03:10	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 03:10	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	08/18/15 10:00	08/19/15 03:10	1330-20-7	W
Surrogates									
Dibromofluoromethane (S)	104	%	49-157		1	08/18/15 10:00	08/19/15 03:10	1868-53-7	
Toluene-d8 (S)	111	%	61-148		1	08/18/15 10:00	08/19/15 03:10	2037-26-5	
4-Bromofluorobenzene (S)	97	%	53-134		1	08/18/15 10:00	08/19/15 03:10	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.5**	%	0.10	0.10	1		08/17/15 15:00		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: TRIP BLANK **Lab ID: 40119674009** Collected: 08/11/15 08:00 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/18/15 10:00	08/18/15 23:18	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/18/15 10:00	08/18/15 23:18	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/18/15 10:00	08/18/15 23:18	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/18/15 10:00	08/18/15 23:18	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/18/15 10:00	08/18/15 23:18	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: TRIP BLANK **Lab ID: 40119674009** Collected: 08/11/15 08:00 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/18/15 10:00	08/18/15 23:18	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/18/15 23:18	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	08/18/15 10:00	08/18/15 23:18	1330-20-7	W
Surrogates									
Dibromofluoromethane (S)	98	%	49-157		1	08/18/15 10:00	08/18/15 23:18	1868-53-7	
Toluene-d8 (S)	98	%	61-148		1	08/18/15 10:00	08/18/15 23:18	2037-26-5	
4-Bromofluorobenzene (S)	90	%	53-134		1	08/18/15 10:00	08/18/15 23:18	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: E28L-SW-2 **Lab ID: 40119674010** Collected: 08/11/15 15:55 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**54.2**	ug/kg	20.5	10.2	1	08/20/15 09:20	08/24/15 12:50	83-32-9	
Acenaphthylene	**15.0J**	ug/kg	20.5	9.2	1	08/20/15 09:20	08/24/15 12:50	208-96-8	
Anthracene	**53.6**	ug/kg	20.5	10.6	1	08/20/15 09:20	08/24/15 12:50	120-12-7	
Benzo(a)anthracene	**<7.1**	ug/kg	20.5	7.1	1	08/20/15 09:20	08/24/15 12:50	56-55-3	
Benzo(a)pyrene	**<7.3**	ug/kg	20.5	7.3	1	08/20/15 09:20	08/24/15 12:50	50-32-8	
Benzo(b)fluoranthene	**<10.2**	ug/kg	20.5	10.2	1	08/20/15 09:20	08/24/15 12:50	205-99-2	
Benzo(g,h,i)perylene	**<7.8**	ug/kg	20.5	7.8	1	08/20/15 09:20	08/24/15 12:50	191-24-2	
Benzo(k)fluoranthene	**<11.3**	ug/kg	20.5	11.3	1	08/20/15 09:20	08/24/15 12:50	207-08-9	
Chrysene	**<9.5**	ug/kg	20.5	9.5	1	08/20/15 09:20	08/24/15 12:50	218-01-9	L2
Dibenz(a,h)anthracene	**<7.5**	ug/kg	20.5	7.5	1	08/20/15 09:20	08/24/15 12:50	53-70-3	
Fluoranthene	**11.3J**	ug/kg	20.5	10.2	1	08/20/15 09:20	08/24/15 12:50	206-44-0	
Fluorene	**583**	ug/kg	20.5	10.2	1	08/20/15 09:20	08/24/15 12:50	86-73-7	
Indeno(1,2,3-cd)pyrene	**<7.8**	ug/kg	20.5	7.8	1	08/20/15 09:20	08/24/15 12:50	193-39-5	
1-Methylnaphthalene	**56.2**	ug/kg	20.5	10.2	1	08/20/15 09:20	08/24/15 12:50	90-12-0	
2-Methylnaphthalene	**125**	ug/kg	20.5	10.2	1	08/20/15 09:20	08/24/15 12:50	91-57-6	
Naphthalene	**93.5**	ug/kg	20.5	10.2	1	08/20/15 09:20	08/24/15 12:50	91-20-3	
Phenanthrene	**196**	ug/kg	20.5	10.2	1	08/20/15 09:20	08/24/15 12:50	85-01-8	
Pyrene	**14.2J**	ug/kg	20.5	10.2	1	08/20/15 09:20	08/24/15 12:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	42	%	39-130		1	08/20/15 09:20	08/24/15 12:50	321-60-8	
Terphenyl-d14 (S)	45	%	37-130		1	08/20/15 09:20	08/24/15 12:50	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/18/15 10:00	08/19/15 10:36	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/18/15 10:00	08/19/15 10:36	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/18/15 10:00	08/19/15 10:36	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/18/15 10:00	08/19/15 10:36	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: E28L-SW-2 **Lab ID: 40119674010** Collected: 08/11/15 15:55 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/18/15 10:00	08/19/15 10:36	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/18/15 10:00	08/19/15 10:36	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:36	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	08/18/15 10:00	08/19/15 10:36	1330-20-7	W
Surrogates									
Dibromofluoromethane (S)	114	%	49-157		1	08/18/15 10:00	08/19/15 10:36	1868-53-7	
Toluene-d8 (S)	117	%	61-148		1	08/18/15 10:00	08/19/15 10:36	2037-26-5	
4-Bromofluorobenzene (S)	104	%	53-134		1	08/18/15 10:00	08/19/15 10:36	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.5**	%	0.10	0.10	1		08/17/15 15:00		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: E28L-SW-3 **Lab ID: 40119674011** Collected: 08/11/15 16:05 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<44.0**	ug/kg	87.9	44.0	5	08/20/15 09:20	08/24/15 14:42	83-32-9	
Acenaphthylene	**<39.3**	ug/kg	87.9	39.3	5	08/20/15 09:20	08/24/15 14:42	208-96-8	
Anthracene	**<45.6**	ug/kg	87.9	45.6	5	08/20/15 09:20	08/24/15 14:42	120-12-7	
Benzo(a)anthracene	**<30.5**	ug/kg	87.9	30.5	5	08/20/15 09:20	08/24/15 14:42	56-55-3	
Benzo(a)pyrene	**41.2J**	ug/kg	87.9	31.4	5	08/20/15 09:20	08/24/15 14:42	50-32-8	
Benzo(b)fluoranthene	**<44.0**	ug/kg	87.9	44.0	5	08/20/15 09:20	08/24/15 14:42	205-99-2	
Benzo(g,h,i)perylene	**<33.5**	ug/kg	87.9	33.5	5	08/20/15 09:20	08/24/15 14:42	191-24-2	
Benzo(k)fluoranthene	**<48.6**	ug/kg	87.9	48.6	5	08/20/15 09:20	08/24/15 14:42	207-08-9	
Chrysene	**72.4J**	ug/kg	87.9	40.6	5	08/20/15 09:20	08/24/15 14:42	218-01-9	L2
Dibenz(a,h)anthracene	**<32.2**	ug/kg	87.9	32.2	5	08/20/15 09:20	08/24/15 14:42	53-70-3	
Fluoranthene	**49.6J**	ug/kg	87.9	44.0	5	08/20/15 09:20	08/24/15 14:42	206-44-0	
Fluorene	**<44.0**	ug/kg	87.9	44.0	5	08/20/15 09:20	08/24/15 14:42	86-73-7	
Indeno(1,2,3-cd)pyrene	**<33.4**	ug/kg	87.9	33.4	5	08/20/15 09:20	08/24/15 14:42	193-39-5	
1-Methylnaphthalene	**51.8J**	ug/kg	87.9	44.0	5	08/20/15 09:20	08/24/15 14:42	90-12-0	
2-Methylnaphthalene	**86.9J**	ug/kg	87.9	44.0	5	08/20/15 09:20	08/24/15 14:42	91-57-6	
Naphthalene	**64.3J**	ug/kg	87.9	44.0	5	08/20/15 09:20	08/24/15 14:42	91-20-3	D3
Phenanthrene	**182**	ug/kg	87.9	44.0	5	08/20/15 09:20	08/24/15 14:42	85-01-8	
Pyrene	**50.2J**	ug/kg	87.9	44.0	5	08/20/15 09:20	08/24/15 14:42	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	60	%	39-130		5	08/20/15 09:20	08/24/15 14:42	321-60-8	
Terphenyl-d14 (S)	47	%	37-130		5	08/20/15 09:20	08/24/15 14:42	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/18/15 10:00	08/19/15 10:59	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/18/15 10:00	08/19/15 10:59	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/18/15 10:00	08/19/15 10:59	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/18/15 10:00	08/19/15 10:59	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: E28L-SW-3 **Lab ID: 40119674011** Collected: 08/11/15 16:05 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	75-35-4	W
cis-1,2-Dichloroethene	**87.9**	ug/kg	63.3	26.4	1	08/18/15 10:00	08/19/15 10:59	156-59-2	
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	1634-04-4	W
Naphthalene	**84.2J**	ug/kg	264	42.2	1	08/18/15 10:00	08/19/15 10:59	91-20-3	
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/18/15 10:00	08/19/15 10:59	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	79-00-5	W
Trichloroethene	**697**	ug/kg	63.3	26.4	1	08/18/15 10:00	08/19/15 10:59	79-01-6	
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	96-18-4	W
1,2,4-Trimethylbenzene	**53.9J**	ug/kg	63.3	26.4	1	08/18/15 10:00	08/19/15 10:59	95-63-6	
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 10:59	75-01-4	W
Xylene (Total)	**95.8J**	ug/kg	190	79.1	1	08/18/15 10:00	08/19/15 10:59	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	103	%	49-157		1	08/18/15 10:00	08/19/15 10:59	1868-53-7	
Toluene-d8 (S)	107	%	61-148		1	08/18/15 10:00	08/19/15 10:59	2037-26-5	
4-Bromofluorobenzene (S)	93	%	53-134		1	08/18/15 10:00	08/19/15 10:59	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.2**	%	0.10	0.10	1		08/17/15 15:00		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: E28L-SW-4 **Lab ID: 40119674012** Collected: 08/11/15 16:15 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<104**	ug/kg	208	104	10	08/20/15 09:17	08/24/15 14:25	83-32-9	
Acenaphthylene	**175J**	ug/kg	208	93.0	10	08/20/15 09:17	08/24/15 14:25	208-96-8	
Anthracene	**169J**	ug/kg	208	108	10	08/20/15 09:17	08/24/15 14:25	120-12-7	
Benzo(a)anthracene	**<72.0**	ug/kg	208	72.0	10	08/20/15 09:17	08/24/15 14:25	56-55-3	
Benzo(a)pyrene	**<74.3**	ug/kg	208	74.3	10	08/20/15 09:17	08/24/15 14:25	50-32-8	
Benzo(b)fluoranthene	**<104**	ug/kg	208	104	10	08/20/15 09:17	08/24/15 14:25	205-99-2	
Benzo(g,h,i)perylene	**<79.1**	ug/kg	208	79.1	10	08/20/15 09:17	08/24/15 14:25	191-24-2	
Benzo(k)fluoranthene	**<115**	ug/kg	208	115	10	08/20/15 09:17	08/24/15 14:25	207-08-9	
Chrysene	**<96.1**	ug/kg	208	96.1	10	08/20/15 09:17	08/24/15 14:25	218-01-9	
Dibenz(a,h)anthracene	**<76.2**	ug/kg	208	76.2	10	08/20/15 09:17	08/24/15 14:25	53-70-3	
Fluoranthene	**<104**	ug/kg	208	104	10	08/20/15 09:17	08/24/15 14:25	206-44-0	
Fluorene	**1800**	ug/kg	208	104	10	08/20/15 09:17	08/24/15 14:25	86-73-7	
Indeno(1,2,3-cd)pyrene	**<78.9**	ug/kg	208	78.9	10	08/20/15 09:17	08/24/15 14:25	193-39-5	
1-Methylnaphthalene	**267**	ug/kg	208	104	10	08/20/15 09:17	08/24/15 14:25	90-12-0	
2-Methylnaphthalene	**363**	ug/kg	208	104	10	08/20/15 09:17	08/24/15 14:25	91-57-6	
Naphthalene	**<104**	ug/kg	208	104	10	08/20/15 09:17	08/24/15 14:25	91-20-3	
Phenanthrene	**2080**	ug/kg	208	104	10	08/20/15 09:17	08/24/15 14:25	85-01-8	
Pyrene	**<104**	ug/kg	208	104	10	08/20/15 09:17	08/24/15 14:25	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	43	%	39-130		10	08/20/15 09:17	08/24/15 14:25	321-60-8	
Terphenyl-d14 (S)	43	%	37-130		10	08/20/15 09:17	08/24/15 14:25	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/18/15 10:00	08/19/15 05:06	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/18/15 10:00	08/19/15 05:06	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/18/15 10:00	08/19/15 05:06	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/18/15 10:00	08/19/15 05:06	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Sample: E28L-SW-4 **Lab ID: 40119674012** Collected: 08/11/15 16:15 Received: 08/14/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	1634-04-4	W
Naphthalene	**59.6J**	ug/kg	312	49.9	1	08/18/15 10:00	08/19/15 05:06	91-20-3	
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/18/15 10:00	08/19/15 05:06	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/18/15 10:00	08/19/15 05:06	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	08/18/15 10:00	08/19/15 05:06	1330-20-7	W
Surrogates									
Dibromofluoromethane (S)	112	%	49-157		1	08/18/15 10:00	08/19/15 05:06	1868-53-7	
Toluene-d8 (S)	109	%	61-148		1	08/18/15 10:00	08/19/15 05:06	2037-26-5	
4-Bromofluorobenzene (S)	97	%	53-134		1	08/18/15 10:00	08/19/15 05:06	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.8**	%	0.10	0.10	1		08/17/15 15:00		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

QC Batch: MSV/29852 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40119674001, 40119674002, 40119674003, 40119674004, 40119674005, 40119674006, 40119674007, 40119674008, 40119674009, 40119674010, 40119674011, 40119674012

METHOD BLANK: 1207905 Matrix: Solid
Associated Lab Samples: 40119674001, 40119674002, 40119674003, 40119674004, 40119674005, 40119674006, 40119674007, 40119674008, 40119674009, 40119674010, 40119674011, 40119674012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	08/18/15 20:36	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	08/18/15 20:36	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	08/18/15 20:36	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	08/18/15 20:36	
1,1-Dichloroethane	ug/kg	<17.6	50.0	08/18/15 20:36	
1,1-Dichloroethene	ug/kg	<17.6	50.0	08/18/15 20:36	
1,1-Dichloropropene	ug/kg	<14.0	50.0	08/18/15 20:36	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	08/18/15 20:36	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	08/18/15 20:36	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	08/18/15 20:36	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	08/18/15 20:36	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	08/18/15 20:36	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	08/18/15 20:36	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	08/18/15 20:36	
1,2-Dichloroethane	ug/kg	<15.0	50.0	08/18/15 20:36	
1,2-Dichloropropane	ug/kg	<16.8	50.0	08/18/15 20:36	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	08/18/15 20:36	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	08/18/15 20:36	
1,3-Dichloropropane	ug/kg	<12.0	50.0	08/18/15 20:36	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	08/18/15 20:36	
2,2-Dichloropropane	ug/kg	<12.6	50.0	08/18/15 20:36	
2-Chlorotoluene	ug/kg	<15.8	50.0	08/18/15 20:36	
4-Chlorotoluene	ug/kg	<13.0	50.0	08/18/15 20:36	
Benzene	ug/kg	<9.2	20.0	08/18/15 20:36	
Bromobenzene	ug/kg	<20.6	50.0	08/18/15 20:36	
Bromochloromethane	ug/kg	<21.4	50.0	08/18/15 20:36	
Bromodichloromethane	ug/kg	<9.8	50.0	08/18/15 20:36	
Bromoform	ug/kg	<19.8	50.0	08/18/15 20:36	
Bromomethane	ug/kg	<69.9	250	08/18/15 20:36	
Carbon tetrachloride	ug/kg	<12.1	50.0	08/18/15 20:36	
Chlorobenzene	ug/kg	<14.8	50.0	08/18/15 20:36	
Chloroethane	ug/kg	<67.0	250	08/18/15 20:36	
Chloroform	ug/kg	<46.4	250	08/18/15 20:36	
Chloromethane	ug/kg	<20.4	50.0	08/18/15 20:36	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	08/18/15 20:36	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	08/18/15 20:36	
Dibromochloromethane	ug/kg	<17.9	50.0	08/18/15 20:36	
Dibromomethane	ug/kg	<19.3	50.0	08/18/15 20:36	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	08/18/15 20:36	
Diisopropyl ether	ug/kg	<17.7	50.0	08/18/15 20:36	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

METHOD BLANK: 1207905 Matrix: Solid
Associated Lab Samples: 40119674001, 40119674002, 40119674003, 40119674004, 40119674005, 40119674006, 40119674007, 40119674008, 40119674009, 40119674010, 40119674011, 40119674012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<12.4	50.0	08/18/15 20:36	
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	08/18/15 20:36	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	08/18/15 20:36	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	08/18/15 20:36	
Methylene Chloride	ug/kg	<16.2	50.0	08/18/15 20:36	
n-Butylbenzene	ug/kg	<10.5	50.0	08/18/15 20:36	
n-Propylbenzene	ug/kg	<11.6	50.0	08/18/15 20:36	
Naphthalene	ug/kg	<40.0	250	08/18/15 20:36	
p-Isopropyltoluene	ug/kg	<12.0	50.0	08/18/15 20:36	
sec-Butylbenzene	ug/kg	<11.9	50.0	08/18/15 20:36	
Styrene	ug/kg	<9.0	50.0	08/18/15 20:36	
tert-Butylbenzene	ug/kg	<9.5	50.0	08/18/15 20:36	
Tetrachloroethene	ug/kg	<12.9	50.0	08/18/15 20:36	
Toluene	ug/kg	<11.2	50.0	08/18/15 20:36	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	08/18/15 20:36	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	08/18/15 20:36	
Trichloroethene	ug/kg	<23.6	50.0	08/18/15 20:36	
Trichlorofluoromethane	ug/kg	<24.7	50.0	08/18/15 20:36	
Vinyl chloride	ug/kg	<21.1	50.0	08/18/15 20:36	
Xylene (Total)	ug/kg	<48.4	150	08/18/15 20:36	
4-Bromofluorobenzene (S)	%	93	53-134	08/18/15 20:36	
Dibromofluoromethane (S)	%	100	49-157	08/18/15 20:36	
Toluene-d8 (S)	%	103	61-148	08/18/15 20:36	

LABORATORY CONTROL SAMPLE & LCSD: 1207906 1207907

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2180	2280	87	91	70-130	5	20	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2430	2510	97	100	70-130	3	20	
1,1,2-Trichloroethane	ug/kg	2500	2710	2660	108	106	70-130	2	20	
1,1-Dichloroethane	ug/kg	2500	2650	2730	106	109	70-130	3	20	
1,1-Dichloroethene	ug/kg	2500	2550	2570	102	103	70-132	1	20	
1,2,4-Trichlorobenzene	ug/kg	2500	2370	2540	95	102	70-130	7	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1730	1820	69	73	45-150	5	20	
1,2-Dibromoethane (EDB)	ug/kg	2500	2640	2620	106	105	70-130	1	20	
1,2-Dichlorobenzene	ug/kg	2500	2560	2670	102	107	70-130	4	20	
1,2-Dichloroethane	ug/kg	2500	2790	2840	112	114	70-134	2	20	
1,2-Dichloropropane	ug/kg	2500	2620	2810	105	113	70-130	7	20	
1,3-Dichlorobenzene	ug/kg	2500	2540	2620	101	105	70-130	3	20	
1,4-Dichlorobenzene	ug/kg	2500	2430	2640	97	105	70-130	8	20	
Benzene	ug/kg	2500	2600	2670	104	107	70-130	3	20	
Bromodichloromethane	ug/kg	2500	2250	2430	90	97	70-130	8	20	
Bromoform	ug/kg	2500	1780	1870	71	75	48-130	5	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

LABORATORY CONTROL SAMPLE & LCSD: 1207906 1207907

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Bromomethane	ug/kg	2500	2350	2390	94	96	70-169	2	20	
Carbon tetrachloride	ug/kg	2500	2050	2200	82	88	67-130	7	20	
Chlorobenzene	ug/kg	2500	2630	2690	105	108	70-130	2	20	
Chloroethane	ug/kg	2500	2580	2670	103	107	70-191	3	20	
Chloroform	ug/kg	2500	2560	2660	102	106	70-130	4	20	
Chloromethane	ug/kg	2500	1820	1790	73	72	52-132	2	20	
cis-1,2-Dichloroethene	ug/kg	2500	2470	2570	99	103	70-130	4	20	
cis-1,3-Dichloropropene	ug/kg	2500	2100	2220	84	89	70-130	5	20	
Dibromochloromethane	ug/kg	2500	2000	2120	80	85	65-130	6	20	
Dichlorodifluoromethane	ug/kg	2500	1090	1060	44	42	12-150	3	20	
Ethylbenzene	ug/kg	2500	2580	2590	103	104	70-130	1	20	
Isopropylbenzene (Cumene)	ug/kg	2500	2610	2660	104	106	70-130	2	20	
Methyl-tert-butyl ether	ug/kg	2500	2500	2530	100	101	70-130	1	20	
Methylene Chloride	ug/kg	2500	2710	2790	108	112	70-131	3	20	
Styrene	ug/kg	2500	2710	2650	108	106	70-130	2	20	
Tetrachloroethene	ug/kg	2500	2470	2470	99	99	70-130	0	20	
Toluene	ug/kg	2500	2630	2660	105	106	70-130	1	20	
trans-1,2-Dichloroethene	ug/kg	2500	2700	2640	108	106	69-130	2	20	
trans-1,3-Dichloropropene	ug/kg	2500	1980	2010	79	80	65-130	2	20	
Trichloroethene	ug/kg	2500	2600	2660	104	107	70-130	2	20	
Trichlorofluoromethane	ug/kg	2500	2420	1990	97	80	50-150	19	20	
Vinyl chloride	ug/kg	2500	1980	1990	79	80	67-134	0	20	
Xylene (Total)	ug/kg	7500	8030	8070	107	108	70-130	1	20	
4-Bromofluorobenzene (S)	%				97	96	53-134			
Dibromofluoromethane (S)	%				108	109	49-157			
Toluene-d8 (S)	%				104	106	61-148			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1207908 1207909

Parameter	Units	40119676002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	ND	3120	3120	2880	1460	92	47	63-130	65	20	M1,R1
1,1,2,2-Tetrachloroethane	ug/kg	ND	3120	3120	3170	2500	101	80	57-136	24	20	R1
1,1,2-Trichloroethane	ug/kg	ND	3120	3120	3320	2460	106	79	70-130	30	20	R1
1,1-Dichloroethane	ug/kg	ND	3120	3120	3450	1840	111	59	62-131	61	23	M1,R1
1,1-Dichloroethene	ug/kg	ND	3120	3120	3220	976	103	31	42-137	107	20	M1,R1
1,2,4-Trichlorobenzene	ug/kg	ND	3120	3120	3010	1210	96	38	59-137	85	21	M1,R1
1,2-Dibromo-3-chloropropane	ug/kg	ND	3120	3120	2260	1940	72	62	33-150	15	25	
1,2-Dibromoethane (EDB)	ug/kg	ND	3120	3120	3200	2400	102	77	70-130	29	20	R1
1,2-Dichlorobenzene	ug/kg	ND	3120	3120	3440	1880	110	60	70-130	59	20	M1,R1
1,2-Dichloroethane	ug/kg	ND	3120	3120	3480	2360	111	76	68-134	38	20	R1
1,2-Dichloropropane	ug/kg	ND	3120	3120	3520	2290	113	73	70-130	43	20	R1
1,3-Dichlorobenzene	ug/kg	ND	3120	3120	3320	1700	106	55	70-130	64	20	M1,R1
1,4-Dichlorobenzene	ug/kg	ND	3120	3120	3280	1710	105	55	69-130	63	20	M1,R1

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1207908 1207909

Parameter	Units	40119676002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	3120	3120	3400	1950	109	62	56-131	54	20	R1
Bromodichloromethane	ug/kg	ND	3120	3120	3010	2290	96	73	64-130	27	20	R1
Bromomethane	ug/kg	ND	3120	3120	2710	1090	87	35	18-169	85	23	R1
Carbon tetrachloride	ug/kg	ND	3120	3120	2720	1240	87	40	59-130	75	20	M1,R1
Chlorobenzene	ug/kg	ND	3120	3120	3450	2140	110	69	70-130	47	20	M1,R1
Chloroethane	ug/kg	ND	3120	3120	3230	1160	103	37	10-191	94	20	R1
Chloroform	ug/kg	ND	3120	3120	3150	2060	101	66	65-130	42	20	R1
Chloromethane	ug/kg	ND	3120	3120	2170	615	70	20	36-132	112	20	M1,R1
cis-1,2-Dichloroethene	ug/kg	234	3120	3120	3500	2100	105	60	59-136	50	24	R1
cis-1,3-Dichloropropene	ug/kg	ND	3120	3120	2830	2120	90	68	60-130	29	20	R1
Dichlorodifluoromethane	ug/kg	ND	3120	3120	1080	37.3	34	1	10-150	187	27	M1,R1
Ethylbenzene	ug/kg	136	3120	3120	3550	1950	109	58	64-130	58	20	M1,R1
Isopropylbenzene (Cumene)	ug/kg	ND	3120	3120	3350	1760	107	56	69-138	62	20	M1,R1
Methyl-tert-butyl ether	ug/kg	ND	3120	3120	3340	2490	107	80	52-134	29	20	R1
Methylene Chloride	ug/kg	ND	3120	3120	3410	1940	109	62	61-131	55	20	R1
Styrene	ug/kg	ND	3120	3120	3320	2090	106	67	70-130	45	20	M1,R1
Tetrachloroethene	ug/kg	ND	3120	3120	3180	1450	102	46	65-130	75	20	M1,R1
Toluene	ug/kg	ND	3120	3120	3350	2020	107	65	65-130	49	20	R1
trans-1,2-Dichloroethene	ug/kg	ND	3120	3120	3480	1530	111	49	55-130	78	20	M1,R1
trans-1,3-Dichloropropene	ug/kg	ND	3120	3120	2490	2090	80	67	54-130	17	20	
Trichloroethene	ug/kg	1900	3120	3120	5860	2390	127	16	70-130	84	20	M1,R1
Trichlorofluoromethane	ug/kg	ND	3120	3120	2870	472	92	15	42-150	144	24	M1,R1
Vinyl chloride	ug/kg	ND	3120	3120	2380	491	76	16	35-134	132	20	M1,R1
Xylene (Total)	ug/kg	539	9370	9370	11100	5990	113	58	60-130	60	20	MS,RS
4-Bromofluorobenzene (S)	%						95	56	53-134			
Dibromofluoromethane (S)	%						109	65	49-157			1q
Toluene-d8 (S)	%						106	56	61-148			S0

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

QC Batch: OEXT/27737
QC Batch Method: EPA 3546
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40119674012

METHOD BLANK: 1208869
Matrix: Solid
Associated Lab Samples: 40119674012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<8.3	16.7	08/20/15 12:53	
2-Methylnaphthalene	ug/kg	<8.3	16.7	08/20/15 12:53	
Acenaphthene	ug/kg	<8.3	16.7	08/20/15 12:53	
Acenaphthylene	ug/kg	<7.5	16.7	08/20/15 12:53	
Anthracene	ug/kg	<8.6	16.7	08/20/15 12:53	
Benzo(a)anthracene	ug/kg	<5.8	16.7	08/20/15 12:53	
Benzo(a)pyrene	ug/kg	<6.0	16.7	08/20/15 12:53	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	08/20/15 12:53	
Benzo(g,h,i)perylene	ug/kg	<6.3	16.7	08/20/15 12:53	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	08/20/15 12:53	
Chrysene	ug/kg	<7.7	16.7	08/20/15 12:53	
Dibenz(a,h)anthracene	ug/kg	<6.1	16.7	08/20/15 12:53	
Fluoranthene	ug/kg	<8.3	16.7	08/20/15 12:53	
Fluorene	ug/kg	<8.3	16.7	08/20/15 12:53	
Indeno(1,2,3-cd)pyrene	ug/kg	<6.3	16.7	08/20/15 12:53	
Naphthalene	ug/kg	<8.3	16.7	08/20/15 12:53	
Phenanthrene	ug/kg	<8.3	16.7	08/20/15 12:53	
Pyrene	ug/kg	<8.3	16.7	08/20/15 12:53	
2-Fluorobiphenyl (S)	%	65	39-130	08/20/15 12:53	
Terphenyl-d14 (S)	%	82	37-130	08/20/15 12:53	

LABORATORY CONTROL SAMPLE: 1208870

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	247	74	53-130	
2-Methylnaphthalene	ug/kg	333	254	76	52-130	
Acenaphthene	ug/kg	333	267	80	54-130	
Acenaphthylene	ug/kg	333	273	82	55-130	
Anthracene	ug/kg	333	322	97	64-130	
Benzo(a)anthracene	ug/kg	333	277	83	50-130	
Benzo(a)pyrene	ug/kg	333	282	85	46-130	
Benzo(b)fluoranthene	ug/kg	333	249	75	43-130	
Benzo(g,h,i)perylene	ug/kg	333	257	77	48-130	
Benzo(k)fluoranthene	ug/kg	333	311	93	55-130	
Chrysene	ug/kg	333	260	78	62-130	
Dibenz(a,h)anthracene	ug/kg	333	266	80	49-130	
Fluoranthene	ug/kg	333	282	85	57-130	
Fluorene	ug/kg	333	267	80	57-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	284	85	50-130	
Naphthalene	ug/kg	333	244	73	48-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

LABORATORY CONTROL SAMPLE: 1208870

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	283	85	51-130	
Pyrene	ug/kg	333	276	83	55-130	
2-Fluorobiphenyl (S)	%			78	39-130	
Terphenyl-d14 (S)	%			83	37-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1208871 1208872

Parameter	Units	40119473019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	<10.6	422	422	280	137	66	32	50-130	69	30	M1,R1
2-Methylnaphthalene	ug/kg	<10.6	422	422	290	140	69	33	44-130	70	32	M1,R1
Acenaphthene	ug/kg	<10.6	422	422	293	147	69	35	46-130	66	26	M1,R1
Acenaphthylene	ug/kg	<9.4	422	422	302	153	71	36	49-130	65	23	M1,R1
Anthracene	ug/kg	<10.9	422	422	345	174	82	41	52-130	66	28	M1,R1
Benzo(a)anthracene	ug/kg	<7.3	422	422	290	180	69	43	34-130	47	36	R1
Benzo(a)pyrene	ug/kg	<7.5	422	422	289	184	68	43	34-130	44	40	R1
Benzo(b)fluoranthene	ug/kg	<10.6	422	422	267	182	63	43	22-130	38	40	
Benzo(g,h,i)perylene	ug/kg	<8.0	422	422	269	178	64	42	24-130	41	35	R1
Benzo(k)fluoranthene	ug/kg	<11.7	422	422	306	188	72	44	41-130	48	37	R1
Chrysene	ug/kg	<9.8	422	422	275	171	65	41	49-130	46	33	M1,R1
Dibenz(a,h)anthracene	ug/kg	<7.7	422	422	277	180	66	43	27-130	43	31	R1
Fluoranthene	ug/kg	<10.6	422	422	293	162	69	37	34-130	58	37	R1
Fluorene	ug/kg	<10.6	422	422	286	146	68	34	45-130	65	25	M1,R1
Indeno(1,2,3-cd)pyrene	ug/kg	<8.0	422	422	297	192	70	45	30-130	43	34	R1
Naphthalene	ug/kg	<10.6	422	422	280	137	66	33	38-130	68	30	M1,R1
Phenanthrene	ug/kg	<10.6	422	422	299	154	70	36	38-130	64	34	M1,R1
Pyrene	ug/kg	<10.6	422	422	284	163	66	38	35-130	54	35	R1
2-Fluorobiphenyl (S)	%						58	32	39-130			S0
Terphenyl-d14 (S)	%						61	35	37-130			S0

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

QC Batch: OEXT/27740 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40119674008, 40119674010, 40119674011

METHOD BLANK: 1208887 Matrix: Solid
Associated Lab Samples: 40119674008, 40119674010, 40119674011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<8.3	16.7	08/20/15 16:56	
2-Methylnaphthalene	ug/kg	<8.3	16.7	08/20/15 16:56	
Acenaphthene	ug/kg	<8.3	16.7	08/20/15 16:56	
Acenaphthylene	ug/kg	<7.5	16.7	08/20/15 16:56	
Anthracene	ug/kg	<8.6	16.7	08/20/15 16:56	
Benzo(a)anthracene	ug/kg	<5.8	16.7	08/20/15 16:56	
Benzo(a)pyrene	ug/kg	<6.0	16.7	08/20/15 16:56	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	08/20/15 16:56	
Benzo(g,h,i)perylene	ug/kg	<6.3	16.7	08/20/15 16:56	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	08/20/15 16:56	
Chrysene	ug/kg	<7.7	16.7	08/20/15 16:56	
Dibenz(a,h)anthracene	ug/kg	<6.1	16.7	08/20/15 16:56	
Fluoranthene	ug/kg	<8.3	16.7	08/20/15 16:56	
Fluorene	ug/kg	<8.3	16.7	08/20/15 16:56	
Indeno(1,2,3-cd)pyrene	ug/kg	<6.3	16.7	08/20/15 16:56	
Naphthalene	ug/kg	<8.3	16.7	08/20/15 16:56	
Phenanthrene	ug/kg	<8.3	16.7	08/20/15 16:56	
Pyrene	ug/kg	<8.3	16.7	08/20/15 16:56	
2-Fluorobiphenyl (S)	%	58	39-130	08/20/15 16:56	
Terphenyl-d14 (S)	%	64	37-130	08/20/15 16:56	

LABORATORY CONTROL SAMPLE: 1208890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	197	59	53-130	
2-Methylnaphthalene	ug/kg	333	204	61	52-130	
Acenaphthene	ug/kg	333	209	63	54-130	
Acenaphthylene	ug/kg	333	213	64	55-130	
Anthracene	ug/kg	333	244	73	64-130	
Benzo(a)anthracene	ug/kg	333	209	63	50-130	
Benzo(a)pyrene	ug/kg	333	210	63	46-130	
Benzo(b)fluoranthene	ug/kg	333	222	67	43-130	
Benzo(g,h,i)perylene	ug/kg	333	172	52	48-130	
Benzo(k)fluoranthene	ug/kg	333	196	59	55-130	
Chrysene	ug/kg	333	196	59	62-130	L0
Dibenz(a,h)anthracene	ug/kg	333	182	54	49-130	
Fluoranthene	ug/kg	333	214	64	57-130	
Fluorene	ug/kg	333	207	62	57-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	193	58	50-130	
Naphthalene	ug/kg	333	194	58	48-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

LABORATORY CONTROL SAMPLE: 1208890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	217	65	51-130	
Pyrene	ug/kg	333	210	63	55-130	
2-Fluorobiphenyl (S)	%			61	39-130	
Terphenyl-d14 (S)	%			63	37-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

QC Batch: OEXT/27755 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40119674001, 40119674002, 40119674003, 40119674004, 40119674005, 40119674006

METHOD BLANK: 1209411 Matrix: Solid
Associated Lab Samples: 40119674001, 40119674002, 40119674003, 40119674004, 40119674005, 40119674006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<8.3	16.7	08/24/15 08:29	
2-Methylnaphthalene	ug/kg	<8.3	16.7	08/24/15 08:29	
Acenaphthene	ug/kg	<8.3	16.7	08/24/15 08:29	
Acenaphthylene	ug/kg	<7.5	16.7	08/24/15 08:29	
Anthracene	ug/kg	<8.6	16.7	08/24/15 08:29	
Benzo(a)anthracene	ug/kg	<5.8	16.7	08/24/15 08:29	
Benzo(a)pyrene	ug/kg	<6.0	16.7	08/24/15 08:29	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	08/24/15 08:29	
Benzo(g,h,i)perylene	ug/kg	<6.3	16.7	08/24/15 08:29	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	08/24/15 08:29	
Chrysene	ug/kg	<7.7	16.7	08/24/15 08:29	
Dibenz(a,h)anthracene	ug/kg	<6.1	16.7	08/24/15 08:29	
Fluoranthene	ug/kg	<8.3	16.7	08/24/15 08:29	
Fluorene	ug/kg	<8.3	16.7	08/24/15 08:29	
Indeno(1,2,3-cd)pyrene	ug/kg	<6.3	16.7	08/24/15 08:29	
Naphthalene	ug/kg	<8.3	16.7	08/24/15 08:29	
Phenanthrene	ug/kg	<8.3	16.7	08/24/15 08:29	
Pyrene	ug/kg	<8.3	16.7	08/24/15 08:29	
2-Fluorobiphenyl (S)	%	69	39-130	08/24/15 08:29	
Terphenyl-d14 (S)	%	74	37-130	08/24/15 08:29	

LABORATORY CONTROL SAMPLE: 1209412

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	220	66	53-130	
2-Methylnaphthalene	ug/kg	333	216	65	52-130	
Acenaphthene	ug/kg	333	232	70	54-130	
Acenaphthylene	ug/kg	333	236	71	55-130	
Anthracene	ug/kg	333	268	80	64-130	
Benzo(a)anthracene	ug/kg	333	229	69	50-130	
Benzo(a)pyrene	ug/kg	333	233	70	46-130	
Benzo(b)fluoranthene	ug/kg	333	232	70	43-130	
Benzo(g,h,i)perylene	ug/kg	333	221	66	48-130	
Benzo(k)fluoranthene	ug/kg	333	223	67	55-130	
Chrysene	ug/kg	333	212	64	62-130	
Dibenz(a,h)anthracene	ug/kg	333	224	67	49-130	
Fluoranthene	ug/kg	333	241	72	57-130	
Fluorene	ug/kg	333	227	68	57-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	241	72	50-130	
Naphthalene	ug/kg	333	214	64	48-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

LABORATORY CONTROL SAMPLE: 1209412

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	240	72	51-130	
Pyrene	ug/kg	333	224	67	55-130	
2-Fluorobiphenyl (S)	%			67	39-130	
Terphenyl-d14 (S)	%			67	37-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1209413 1209414

Parameter	Units	40119674001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	<10.0	402	402	260	242	64	60	50-130	7	30	
2-Methylnaphthalene	ug/kg	<10.0	402	402	271	251	67	62	44-130	7	32	
Acenaphthene	ug/kg	<10.0	402	402	293	272	73	68	46-130	7	26	
Acenaphthylene	ug/kg	<9.0	402	402	301	277	75	69	49-130	8	23	
Anthracene	ug/kg	<10.4	402	402	344	318	85	79	52-130	8	28	
Benzo(a)anthracene	ug/kg	<7.0	402	402	275	253	68	63	34-130	8	36	
Benzo(a)pyrene	ug/kg	<7.2	402	402	281	258	70	64	34-130	9	40	
Benzo(b)fluoranthene	ug/kg	<10.0	402	402	316	278	78	69	22-130	13	40	
Benzo(g,h,i)perylene	ug/kg	<7.7	402	402	192	161	48	40	24-130	17	35	
Benzo(k)fluoranthene	ug/kg	<11.1	402	402	279	263	69	65	41-130	6	37	
Chrysene	ug/kg	<9.3	402	402	267	247	66	61	49-130	8	33	
Dibenz(a,h)anthracene	ug/kg	<7.4	402	402	215	186	53	46	27-130	14	31	
Fluoranthene	ug/kg	<10.0	402	402	289	267	72	66	34-130	8	37	
Fluorene	ug/kg	<10.0	402	402	285	265	71	66	45-130	7	25	
Indeno(1,2,3-cd)pyrene	ug/kg	<7.6	402	402	226	193	56	48	30-130	16	34	
Naphthalene	ug/kg	<10.0	402	402	268	254	66	63	38-130	5	30	
Phenanthrene	ug/kg	<10.0	402	402	305	280	75	69	38-130	9	34	
Pyrene	ug/kg	<10.0	402	402	286	267	71	66	35-130	7	35	
2-Fluorobiphenyl (S)	%						66	62	39-130			
Terphenyl-d14 (S)	%						64	62	37-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

QC Batch: OEXT/27777
QC Batch Method: EPA 3546
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40119674007

METHOD BLANK: 1210660 Matrix: Solid
Associated Lab Samples: 40119674007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<8.3	16.7	08/25/15 11:39	
2-Methylnaphthalene	ug/kg	<8.3	16.7	08/25/15 11:39	
Acenaphthene	ug/kg	<8.3	16.7	08/25/15 11:39	
Acenaphthylene	ug/kg	<7.5	16.7	08/25/15 11:39	
Anthracene	ug/kg	<8.6	16.7	08/25/15 11:39	
Benzo(a)anthracene	ug/kg	<5.8	16.7	08/25/15 11:39	
Benzo(a)pyrene	ug/kg	<6.0	16.7	08/25/15 11:39	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	08/25/15 11:39	
Benzo(g,h,i)perylene	ug/kg	<6.3	16.7	08/25/15 11:39	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	08/25/15 11:39	
Chrysene	ug/kg	<7.7	16.7	08/25/15 11:39	
Dibenz(a,h)anthracene	ug/kg	<6.1	16.7	08/25/15 11:39	
Fluoranthene	ug/kg	<8.3	16.7	08/25/15 11:39	
Fluorene	ug/kg	<8.3	16.7	08/25/15 11:39	
Indeno(1,2,3-cd)pyrene	ug/kg	<6.3	16.7	08/25/15 11:39	
Naphthalene	ug/kg	<8.3	16.7	08/25/15 11:39	
Phenanthrene	ug/kg	<8.3	16.7	08/25/15 11:39	
Pyrene	ug/kg	<8.3	16.7	08/25/15 11:39	
2-Fluorobiphenyl (S)	%	79	39-130	08/25/15 11:39	
Terphenyl-d14 (S)	%	94	37-130	08/25/15 11:39	

LABORATORY CONTROL SAMPLE: 1210661

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	225	68	53-130	
2-Methylnaphthalene	ug/kg	333	229	69	52-130	
Acenaphthene	ug/kg	333	256	77	54-130	
Acenaphthylene	ug/kg	333	260	78	55-130	
Anthracene	ug/kg	333	327	98	64-130	
Benzo(a)anthracene	ug/kg	333	279	84	50-130	
Benzo(a)pyrene	ug/kg	333	277	83	46-130	
Benzo(b)fluoranthene	ug/kg	333	262	79	43-130	
Benzo(g,h,i)perylene	ug/kg	333	271	81	48-130	
Benzo(k)fluoranthene	ug/kg	333	285	86	55-130	
Chrysene	ug/kg	333	293	88	62-130	
Dibenz(a,h)anthracene	ug/kg	333	278	83	49-130	
Fluoranthene	ug/kg	333	290	87	57-130	
Fluorene	ug/kg	333	262	79	57-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	289	87	50-130	
Naphthalene	ug/kg	333	221	66	48-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

QUALITY CONTROL DATA

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

LABORATORY CONTROL SAMPLE: 1210661

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	289	87	51-130	
Pyrene	ug/kg	333	281	84	55-130	
2-Fluorobiphenyl (S)	%			73	39-130	
Terphenyl-d14 (S)	%			86	37-130	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

QC Batch: PMST/11645 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40119674008, 40119674010, 40119674011, 40119674012

SAMPLE DUPLICATE: 1207547

Parameter	Units	40119676002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.0	20.0	0	10	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

QC Batch: PMST/11646 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40119674001, 40119674002, 40119674003, 40119674004, 40119674005, 40119674006

SAMPLE DUPLICATE: 1207549

Parameter	Units	40119674001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.1	17.3	1	10	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

QC Batch: PMST/11648
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40119674007

SAMPLE DUPLICATE: 1207575

Parameter	Units	40119514009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.7	3.7	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

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

1q	Sample was not brought to 1:1 soil to MeOH ration prior to extraction.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
R1	RPD value was outside control limits.
RS	The RPD value in one of the constituent analytes was outside the control limits.
S0	Surrogate recovery outside laboratory control limits.
W	Non-detect results are reported on a wet weight basis.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60328684 CS2 EXCAVATIONS
Pace Project No.: 40119674

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40119674001	**E31L-B-5**	EPA 3546	OEXT/27755	EPA 8270 by SIM	MSSV/8207
40119674002	**E31L-SW-1**	EPA 3546	OEXT/27755	EPA 8270 by SIM	MSSV/8207
40119674003	**E31L-SW-2**	EPA 3546	OEXT/27755	EPA 8270 by SIM	MSSV/8207
40119674004	**E31L-SW-3**	EPA 3546	OEXT/27755	EPA 8270 by SIM	MSSV/8207
40119674005	**E31L-SW-4**	EPA 3546	OEXT/27755	EPA 8270 by SIM	MSSV/8207
40119674006	**ECS2-EXTRA-B-1**	EPA 3546	OEXT/27755	EPA 8270 by SIM	MSSV/8207
40119674007	**E28L-B-5**	EPA 3546	OEXT/27777	EPA 8270 by SIM	MSSV/8215
40119674008	**E28L-SW-1**	EPA 3546	OEXT/27740	EPA 8270 by SIM	MSSV/8206
40119674010	**E28L-SW-2**	EPA 3546	OEXT/27740	EPA 8270 by SIM	MSSV/8206
40119674011	**E28L-SW-3**	EPA 3546	OEXT/27740	EPA 8270 by SIM	MSSV/8206
40119674012	**E28L-SW-4**	EPA 3546	OEXT/27737	EPA 8270 by SIM	MSSV/8203
40119674001	**E31L-B-5**	EPA 5035/5030B	MSV/29852	EPA 8260	MSV/29853
40119674002	**E31L-SW-1**	EPA 5035/5030B	MSV/29852	EPA 8260	MSV/29853
40119674003	**E31L-SW-2**	EPA 5035/5030B	MSV/29852	EPA 8260	MSV/29853
40119674004	**E31L-SW-3**	EPA 5035/5030B	MSV/29852	EPA 8260	MSV/29853
40119674005	**E31L-SW-4**	EPA 5035/5030B	MSV/29852	EPA 8260	MSV/29853
40119674006	**ECS2-EXTRA-B-1**	EPA 5035/5030B	MSV/29852	EPA 8260	MSV/29853
40119674007	**E28L-B-5**	EPA 5035/5030B	MSV/29852	EPA 8260	MSV/29853
40119674008	**E28L-SW-1**	EPA 5035/5030B	MSV/29852	EPA 8260	MSV/29853
40119674009	**TRIP BLANK**	EPA 5035/5030B	MSV/29852	EPA 8260	MSV/29853
40119674010	**E28L-SW-2**	EPA 5035/5030B	MSV/29852	EPA 8260	MSV/29853
40119674011	**E28L-SW-3**	EPA 5035/5030B	MSV/29852	EPA 8260	MSV/29853
40119674012	**E28L-SW-4**	EPA 5035/5030B	MSV/29852	EPA 8260	MSV/29853
40119674001	**E31L-B-5**	ASTM D2974-87	PMST/11646		
40119674002	**E31L-SW-1**	ASTM D2974-87	PMST/11646		
40119674003	**E31L-SW-2**	ASTM D2974-87	PMST/11646		
40119674004	**E31L-SW-3**	ASTM D2974-87	PMST/11646		
40119674005	**E31L-SW-4**	ASTM D2974-87	PMST/11646		
40119674006	**ECS2-EXTRA-B-1**	ASTM D2974-87	PMST/11646		
40119674007	**E28L-B-5**	ASTM D2974-87	PMST/11648		
40119674008	**E28L-SW-1**	ASTM D2974-87	PMST/11645		
40119674010	**E28L-SW-2**	ASTM D2974-87	PMST/11645		
40119674011	**E28L-SW-3**	ASTM D2974-87	PMST/11645		
40119674012	**E28L-SW-4**	ASTM D2974-87	PMST/11645		

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Page 1 of 1

CHAIN OF CUSTODY

401197074

(Please Print Clearly)	
Company Name:	AECOM
Branch/Location:	Milwaukee, WI
Project Contact:	Lanette Altenbach
Phone:	414-944-6186
Project Number:	60328684
Project Name:	CS2 Excavations
Project State:	WI
Sampled By (Print):	Andrew Schamber
Sampled By (Sign):	A. Schamber
PO #:	Regulatory Program:

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

Quote #:	
Mail To Contact:	~~Lanette~~ Lanette Altenbach
Mail To Company:	AECOM
Mail To Address:	175 N. Riverscenter Dr. Ste 214 Milwaukee, WI 53212
Invoice To Contact:	Accounts Payable/Finance Dept.
Invoice To Company:	City of Kenosha
Invoice To Address:	624 52nd St Kenosha, WI 53140
Invoice To Phone:	

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOC	PAH	Dry Weight	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	E31L-B-5	8/13/15	0830	S	N	F	1	1	1		1-4oz P 1-4oz AG 1-40mL VF	
002	E31L-SW-1		1500		N	A	1	1	1			
003	E31L-SW-2		0955		N	A	1	1	1			
004	E31L-SW-3		1005				1	1	1			
005	E31L-SW-4		1015				1	1	1			
006	ECS2-Extra-B-1		0930				1	1	1			
007	E28L-B-5	8/12/15	0840				1	1	1			
008	E28L-SW-1	8/11/15	1545	S			1	1	1			
009	Trip Blank	8/11/15	0800	S			1					
010	E28L-SW-2	8/11/15	1555	S			1	1	1			
011	E28L-SW-3		1605	S			1	1	1			
012	E28L-SW-4		1615	S			1	1	1			

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:
A. Schamber	8/14/15 11:33	Mary Fannin	8/14/15 11:33
Mary Fannin	8/14/15 1345	[illegible]	8/14/15 1345
[illegible]	8/14/15 1535	[illegible]	8/14/15 1535
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No.
401197074

Receipt Temp = 20.5 °C

Sample Receipt pH
OK / Adjusted

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

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

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

Pace Analytical™

Project # WO# : 40119674

40119674

Client Name: Aecom

Courier: ☐ Fed Ex ☐ 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 N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 1.0 /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 8/19/15
Initials: CB

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☒No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☐Yes ☒No ☐N/A	12. 007 time on jar is 0845
-Includes date/time/ID/Analysis Matrix: S		CB 8/19/15
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9; NaOH ≥12)	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes ☒No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	14.
Trip Blank Present:	☐Yes ☐No ☒N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 8-17-15

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Memorandum

Date: September 11, 2015

To: Lanette Altenbach, Project Manager (PG)

From: Lisa Smith, Environmental Chemist (CEAC)

Subject: Data Validation - Analytical Results for CS2 Soil Exacavation Samples
Former Kenosha Engine Plant
Kenosha, Wisconsin

SUMMARY

Data validation was performed on the analytical results of the soil sample collected for Volatile Organic Compounds (VOCs) and Polynuclear Aromatic Hydrocarbons (PAHs) as listed in Table 1 below. The samples were collected at the Kenosha WI site on August 4 through August 13, 2015. Soil samples were submitted to Pace Analytical, Green Bay for analysis. Pace processed the samples and reported the results under sample delivery groups (SDGs) 40119267, 40119674, and 40119479.

The analytical data were evaluated with reference to the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review (August 2014). The National Functional Guidelines were modified to accommodate the non-CLP methodology. Laboratory control limits and/or method criteria were used as appropriate as the basis for validation actions.

Based on the results of the validation, the data are valid as reported and may be used for decision making purpose. Some data required qualifications as discussed below and summarized in Table 2. Data validation qualifiers override any assigned laboratory data flags. Results reported below the limit of quantitation (LOQ) were qualified as estimated (J) by the laboratory; qualifications of these results were accepted by the validator, but are not shown in Table 2.

METHODS

The samples were analyzed by the methods listed below.

- Method 8260B – Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
- Method 8270C – Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

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SAMPLES

The samples included in this review are listed below.

Table 1 - Sample Summary
Kenosha Soil Samples

Field ID	QC	Date Sampled	Laboratory ID	Analyses
Soil Samples:				
E28L-B-5		8/12/2015	40119674007	VOCs, PAHs
E28L-SW-1		8/11/2015	40119674008	VOCs, PAHs
E28L-SW-2		8/11/2015	40119674010	VOCs, PAHs
E28L-SW-3		8/11/2015	40119674011	VOCs, PAHs
E28L-SW-4		8/11/2015	40119674012	VOCs, PAHs
E29T-B-5	MS/MSD for PAHs	8/10/2015	40119479010	VOCs, PAHs
E29T-SW-1		8/10/2015	40119479006	VOCs, PAHs
E29T-SW-2		8/10/2015	40119479007	VOCs, PAHs
E29T-SW-3		8/10/2015	40119479008	VOCs, PAHs
E29T-SW-4		8/10/2015	40119479009	VOCs, PAHs
E30L-B-5		8/7/2015	40119479005	VOCs, PAHs
E30L-SW-1		8/7/2015	40119479001	VOCs, PAHs
E30L-SW-2		8/7/2015	40119479002	VOCs, PAHs
E30L-SW-3		8/7/2015	40119479003	VOCs, PAHs
E30L-SW-4		8/7/2015	40119479004	VOCs, PAHs
E31L-B-5	MS/MSD for PAHs	8/13/2015	40119674001	VOCs, PAHs
E31L-SW-1		8/13/2015	40119674002	VOCs, PAHs
E31L-SW-2		8/13/2015	40119674003	VOCs, PAHs
E31L-SW-3		8/13/2015	40119674004	VOCs, PAHs
E31L-SW-4		8/13/2015	40119674005	VOCs, PAHs
E32L-B-7		8/4/2015	40119267007	VOCs, PAHs
E32L-B-8		8/4/2015	40119267008	VOCs, PAHs
E32L-SW-1		8/4/2015	40119267001	VOCs, PAHs
E32L-SW-2		8/4/2015	40119267002	VOCs, PAHs
E32L-SW-3	MS/MSD for PAHs	8/4/2015	40119267004	VOCs, PAHs
E32L-SW-4		8/4/2015	40119267005	VOCs, PAHs
E32L-SW-5		8/4/2015	40119267006	VOCs, PAHs
E32L-SW-6		8/4/2015	40119267003	VOCs, PAHs
ECS2-EXTRA-B-1		8/13/2015	40119674006	VOCs, PAHs
Field QC Blanks:				
TRIP BLANK		8/4/2015	40119267009	VOCs
TRIP BLANK		8/7/2015	40119479011	VOCs
TRIP BLANK		8/11/2015	40119674009	VOCs

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REVIEW ELEMENTS

A limited data validation was performed on the samples. Quality control (QC) parameters listed below were reviewed, if applicable to the methodology.

Limited Validation
Holding Time
Method Blanks
Trip Blanks
Surrogate Recoveries
Laboratory Control Samples
Matrix Spikes/Matrix Spike Duplicates
Laboratory Duplicates
Quantitation Limits

DISCUSSION

Sample Receipt

Samples were received at the laboratory intact, properly preserved and in good condition, except as noted below. The soil samples were received on ice.

- One of the vials for sample E32L-SW-4 was mislabeled as E32LL-SW-4.
- The sample collection time listed in the jars for sample E28L-B-5 was 8:45, while the chain of custody (CoC) listed the time as 8:40. The sample was logged in using the collection time listed on the CoC.

Holding Times

Samples were extracted and analyzed within holding times.

Method Blanks

Laboratory blanks are analyzed to assess contamination from laboratory procedures. Method blanks were analyzed at the correct frequency. Compounds were not detected in the associated method blanks, with the exception of two VOC detections. 1,2,3-Trichlorobenzene and n-butylbenzene were detected in the method blank for batch MSV/29782 at concentrations of 27.1 J and 13.7 J ug/kg, respectively. Associated sample results were nondetect and did not require qualification.

Trip Blanks

Trip blanks are used to assess contamination from sample shipping. Three trip blanks were associated with the sample shipments. Compounds were not detected in the trip blanks.

Surrogate Recoveries

Surrogates are spiked into all field samples, field QC samples, and method QC samples and are used to evaluate accuracy. The surrogates are organic compounds similar to the target compounds in chemical composition and behavior in the analytical process, but are not usually found in environmental samples. Surrogates that were diluted out were not evaluated. Surrogates recoveries were within the laboratory specified QC limits.

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Laboratory Control Samples (LCSs)

LCSs are analyzed to monitor the accuracy of the analytical method independent of matrix effects. The LCS recoveries were within the laboratory specified QC limits, with the exception of those summarized in the table below.

Batch (SDG – Site)	Compound	LCS/LCSD Recovery	Recovery Limits	Results Qualified
OEXT/27690 (40119479)	Chrysene	55	62-130	Associated chrysene results were qualified as estimated (UJ and J-): E30L-SW-1 E30L-SW-2
OEXT/27740 (40119674)	Chrysene	59	62-130	Associated chrysene results were qualified as estimated (UJ and J-): E28L-SW-1 E28L-SW-2 E28L-SW-3

Matrix Spike/Matrix Spike Duplicates (MS/MSDs)

MS/MSDs are analyzed to determine the effects of sample matrix on the measurement methodology. Samples were not selected from the CS2 site for MS/MSD analysis per chain-of-custody (CoC); however, the laboratory provided MS/MSD data from batch analysis. PAH MS/MSDs were performed on samples E29T-B-5, E31L-B-5, and E32L-SW-3. Non-project MS/MSDs provided from batch analyses are not applicable and were not evaluated. Recoveries and relative percent differences (RPDs) were within the laboratory specified QC limits for the project MS/MSDs, with the exception of those listed in the table below.

Sample Spiked	Compound	MS/MSD Recovery	Recovery Limits	RPD	RPD Limit	Results Qualified
E32L-SW-3	Fluoranthene	66/124	34-130	**61**	37	Not detected in sample E32L-SW-3. Not qualified.

Bold indicates an exceedance

Quantitation

Dilutions were required during analysis of the soil samples due to high sample concentrations.

PAH samples E28L-SW-1 and E29T-SW-3 were analyzed at five times dilutions due to matrix interferences. The results for these samples were nondetect or trace level detections (J flagged).

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Table 2 – Data Validation Summary of Qualified Data

Sample ID	Analyte	Units	Validation Qualifier[1]	Reason Code[2]
Soil Samples:				
E28L-SW-1 E28L-SW-2 E30L-SW-2	Chrysene	µg/kg	UJ	lcs
E28L-SW-3 E30L-SW-1	Chrysene	µg/kg	J-	lcs

(1): Data Validation Qualifiers:
J-: The analyte was positively identified. The associated numerical value is estimated biased low.
UJ: The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

(2): Reason Codes:
lcs Laboratory control standard recovery exceedance