



December 23, 2015

**1246.030.02**

Gerrity Retail Fund 2, Inc.  
c/o Gerrity Group, LLC  
977 Lomas Santa Fe Drive, Suite A  
Solana Beach, California 92075

Attention: Mr. John Waters

**LIMITED PHASE II ASSESSMENT AND  
FOCUSED CLEANUP ACTION EVALUATION  
AMY'S DRY CLEANERS  
BETHEL JUNCTION SHOPPING CENTER  
PORT ORCHARD, WASHINGTON**

Dear Mr. Waters:

PES Environmental, Inc. (PES) has prepared this letter report to summarize the procedures and results of the subsurface investigation associated with the Amy's Dry Cleaners suite located at 3377 Bethel Road SE, Suite 105, in the Bethel Junction Shopping Center in Port Orchard, Washington (Property; Plates 1 and 2). Gerrity Retail Fund 2, Inc. (Gerrity) retained PES to conduct this subsurface investigation to provide information needed to select, design, and implement possible cleanup actions at the Property. The overall objective of the remediation design investigation and cleanup actions is to obtain a No Further Action (NFA) determination, without any activity and use limitations (e.g., deed covenant), from the Washington State Department of Ecology (Ecology).

This work was conducted in accordance with PES's proposal, dated May 4, 2015.

**BACKGROUND**

Amy's Dry Cleaners has operated in its current commercial space since 1989. The original dry cleaner unit (DCU), operated between 1989 and 2002, used a tetrachloroethene (PCE)-based dry cleaning solvent. In 2002, the PCE-based DCU was replaced by a new DCU that utilizes a petroleum hydrocarbon solvent.

Previous subsurface investigations were conducted in and adjacent to the dry cleaner in the early 2000's that found PCE and two of its breakdown products (trichloroethene [TCE] and cis-1,2-dichloroethene [cDCE]) at concentrations that were above risk-based cleanup levels in shallow soil samples near the DCU. These previous investigations did not encounter shallow groundwater beneath the dry cleaner suite. Based on these investigations, the prior owner of the Bethel Junction Shopping Center determined that the subsurface contamination does not present a risk to human health or the environment as long as it remains undisturbed beneath the concrete floor and in accordance with a restrictive covenant, which was placed on the property in 2004. This information was submitted to Ecology, which issued a letter in 2005 determining that no further remedial action was required.

In 2014, Gerrity Atlantic Retail Partners II, LLC, acquired the Bethel Junction Shopping Center. The center was transferred to Gerrity Retail Fund 2, Inc. in 2015.

## **SCOPE OF WORK**

The objective of the Phase II assessment was to further investigate the soil contamination around the DCU, including in the adjacent vacant retail suite (formerly occupied by McBride's Hallmark Shop, Suite #103), and develop a cleanup action that will allow for the restrictive covenant to be removed.

As part of the Phase II assessment, PES evaluated the potential for vapor intrusion within Suite #103 in May 2015<sup>1</sup>. The sampling locations are shown on Plate 2. The results of PES's sub-slab soil gas sampling and indoor air sampling indicated VOC concentrations measured and/or predicted in indoor air are below applicable cleanup levels protective of human health.

### **Utility Location**

On May 22, 2015, under subcontract to PES, Applied Professional Services, Inc. (APS), of North Bend, Washington, located the subsurface utilities around the planned drilling locations. APS used radio-frequency locating equipment to locate conductible utilities in both suites around the planned drilling locations. APS used a video camera to locate and document the integrity of the sanitary sewer pipeline within the Amy's Cleaners suite and north to the connection to the main line within the parking lot.

### **Soil Borings and Temporary Well Installations**

Soil borings SB-7 through SB-9 were installed within the former Hallmark Suite on June 12, 2015; soil borings SB-10 through SB-13 were installed within the Amy's Dry Cleaner suite on June 25, 2015; and soil borings SB-14 through SB-17 were installed within the Amy's Dry Cleaner suite on July 9, 2015. The borings were installed by PES's subcontractor Environmental Services Network Northwest, Inc. (ESN) using a direct-push drilling rig. The boring locations are shown on Plate 2. More borings were installed within the former Hallmark suite than originally planned due to the inability to drill within the boiler room in the Amy's Dry Cleaner suite due to space limitations.

The borings were installed with a limited access rig and required concrete coring through the floor slab of each suite. Soil samples were collected during drilling of the full bore depth using 4-foot-long core barrels lined with new acetate sleeves. In all locations, the borings were advanced to the maximum depth possible with the limited access rig (11 to 16 ft deep). PES observed the soil samples for lithologic characterization and field-screened the soil cores for volatile organics with a photo-ionization detector (PID). At least three samples were collected from each boring for analysis of volatile organic compounds (VOCs) using U.S. Environmental Protection Agency (EPA) Method 8260. Soil samples were collected using syringe samplers consistent with the EPA Method 5035 protocols and placed in laboratory-provided bottles preserved with methanol. Additional sample volume was collected in unpreserved glass soil sample jars for analysis of soil moisture content. Sample bottles were sealed, labeled, and placed

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<sup>1</sup> PES Environmental, Inc., 2015. *Summary of Air Sampling Results, Former McBride's Hallmark Suite, Bethel Junction Shopping Center, Port Orchard, Washington.* July 29.

in coolers on ice and shipped under chain-of-custody seal to Fremont Analytical, Inc. (Fremont) in Seattle, Washington, a Washington State accredited laboratory.

Two soil samples from SB-7 and one soil sample each from SB-10 through SB-13 were submitted to Analytical Resources, Inc. (ARI) for grain-size analysis using sieve and hydrometer (ASTM D-421 and D-422). ARI subcontracted the analysis to Materials Testing & Consulting, Inc. (MTC).

Due to unexpectedly encountering shallow perched groundwater in SB-8, temporary wells were installed in all of the soil borings. The temporary wells were constructed with nominal ¾-inch-diameter, flush-threaded Schedule 40 PVC and a 5-foot-long well screen with 0.020-inch wide slots. The annular space around the well screen was backfilled with #2/12 silica sand. The temporary wells were allowed to stabilize for a minimum of one hour prior to purging and sampling. In wells with enough water present to sample (SB-7, SB-8, SB-10, SB-11, SB-13, SB-15, and SB-17), samples were collected using low-flow sampling methods. A peristaltic pump was used to purge and sample the water from each well at rates less than 100 millimeters per minute (ml/min). Minimal purging was possible due to the very low re-charge rates, and the majority of the samples were effectively grab samples. New disposable polyethylene tubing (silicon tubing at the pump head) was used, with the sample intake approximately 0.5-ft above the bottom of each well screen. When possible, PES monitored pumping rates and field parameters (pH, temperature, specific conductance, dissolved oxygen [DO], and oxidation-reduction potential [ORP]) during well purging.

Upon completion of purging of each temporary well, a perched groundwater sample was collected from the discharge end of the peristaltic pump tubing. The same pump rate used at the end of well purging was used during sample collection. The volatile organic analysis (VOA) vials were filled by allowing the sample water to pour down the inside of the sample bottles without splashing directly onto the base. All sample containers were prepared and provided by the project laboratory. Following water sample collection, the sample containers were labeled for identification and immediately placed in insulated coolers containing ice. The coolers containing the samples were then delivered under chain-of-custody protocol to the laboratory.

After the temporary well was sampled, the boring was abandoned by knocking out the bottom cap of the PVC and filling the boring with bentonite as the PVC was extracted, consistent with Chapter 173-160 Washington Administrative Code (WAC). The top of the abandoned boring was filled with concrete. The groundwater samples were submitted to the laboratory for analysis of VOCs by EPA Method 8260.

The boring logs are provided in Attachment A.

### **Soil Vapor Extraction Pipe Installation in Suite #103 and Trench Soil Sampling**

As discussed above, the results of PES's vapor intrusion evaluation and analysis of soil samples collected within vacant Suite #103 did not indicate a significant vapor intrusion risk. Nevertheless, in consultation with Gerrity and because the suite is vacant, it was determined that a sub-slab soil vapor extraction (SVE) system extraction pipe beneath Suite #103 while it was unoccupied and prior to a new tenant occupying the suite. PES designed, coordinated, and oversaw the excavation of the trench and installation of the 4-inch diameter 0.020-inch slotted

extraction pipe as shown on Plate 2. Wyser Construction Company, Inc. (Wyser), under subcontract to PES, completed the work on July 6 and 7, 2015.

The SVE trench is approximately 37 feet long, one foot wide, and four feet deep (Plate 2). After saw-cutting the concrete floor, Wyser utilized a vacuum truck to remove the soil. The soil was placed into a soil container, stored in the southern parking area. Approximately 6 cubic yards of soil was removed. PES collected five soil samples from the limits of the trench and submitted the samples to Fremont for select-list VOC analysis using EPA Method 8260.

The SVE pipe was installed with a 2-foot bed of clean sand granular fill, capped with 15-millimeter visqueen, topped with general fill, compacted and completed at the surface with re-enforced concrete (see detail on Plate 2). The pipe was terminated at the surface directly south of the edge of the sidewalk behind the suite, inside an 8-inch diameter well monument.

### **Residual Soil and Water Management**

Residual soil from investigation drilling was placed in a 30-gallon steel drum, labeled, and stored on the south side (behind) of the building. Residual drilling fluids, decontamination liquids, and purge water were placed in a 55-gallon steel drum and stored behind the building.

A sample of the soil was collected and submitted to Fremont for VOC analysis using EPA Method 8260 and RCRA-8 metals using USEPA Methods 6020/7471. A sample of the water drum was collected and submitted to Fremont for VOC analysis using EPA Method 8260.

PES submitted a *Request for a Contained In Determination* (CID) to Ecology on July 2, 2015<sup>2</sup> using the SB-7 and SB-8 soil analytical results and updated Ecology with the trench sidewall analytical results in an e-mail dated July 14, 2015. In a letter dated July 20, 2015, Ecology provided the determination that the material could be disposed of as non-hazardous waste. On August 19, 2015, the soil was transported to Waste Management's solid waste landfill in East Wenatchee, Washington (a Subtitle D MSW permitted facility). The Certificate of Disposal is attached (Attachment B). The water drum remains on-site, pending disposal.

### **Limited Building Inspections**

PES conducted a limited inspection of Suite #103 on June 12, 2015 concurrent with the installation of the soil borings in the suite. The purpose of the inspection was to observe existing building conditions to evaluate whether there were potential vapor intrusion pathways either through the floor slab or between Suite #103 and the adjacent Amy's Dry Cleaners suite. In conjunction with the SVE piping installation on July 6, 2015, PES conducted a supplemental inspection of the portion of the concrete floor slab that was exposed during SVE trench construction.

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<sup>2</sup> PES Environmental, Inc. (2015). Request for Contained-In Policy Determination, Suite #103, Bethel Junction Shopping Center Property, 3377 Bethel Road SE, Port Orchard, Washington, Facility/Site ID No. 28514228/VCP No. NW0568. July 2.

## **RESULTS**

Tables 1, 2, and 3 provide the soil analytical results, groundwater analytical results, and trench soil sampling analytical results, respectively. Attachment A provides the boring logs, Attachment C provides the field sampling forms and building survey form, and Attachment D provides the laboratory analytical reports and data validation memoranda.

### **Sanitary Sewer**

APS confirmed that the sanitary sewer pipeline, accessed from the cleanout located in the southern portion of the suite, travels north approximately 90 feet where it angles to the west and connects into a green PVC pipe. It travels another 37 feet to a connection with the main line within the parking lot. Observations of the main line were not possible due to the high flow rates within the pipe. The video of the sanitary line under the dry cleaner suite showed a small amount of water flowing consistently down the pipe, no obvious damage to the pipe, and there did not appear to be any low spots or sags. Joints were observed approximately every 20 ft starting (near the boiler room, just north of the DCU, north part of the suite); these joints had some discoloration, but there were not obvious gaps or separations in between the pipe sections. Overall, the video did not identify any signs of obvious leaks. It should be noted that the floor drain near the southeast corner of the DCU was identified after the video was taken and so the locations and the alignment of the floor drain lateral pipe are estimated. Additionally, the assumed tee junction between the floor drain lateral pipe and sanitary line is not evident on the video.

### **Lithology and Hydrogeology Results**

The soil types observed during drilling to the maximum drilled depth of 16 feet bgs consisted of sand, sand with silt, silty sand, sand with gravel, sandy silt, and silt. The borings were terminated when conditions indicated that the very dense till-like layer was encountered or refusal (depths ranging from 11 to 16 feet). Evaluation of the grain-size distributions for samples collected from SB-7 and SB-10 through SB-13 indicated median hydraulic conductivities ranging from  $9.8 \times 10^{-5}$  to  $2.2 \times 10^{-4}$  cm/sec, which are within the range of silty sand hydraulic conductivities. The hydraulic conductivity calculations are included in Attachment E.

Two- to six-inch zones of wetness were encountered in the majority of the borings at depths ranging from 8 to 14 feet. The temporary wells installed in SB-9, SB-12, SB-14, and SB-16 were dry after being allowed to sit for one to four hours. Depth to water measurements in the temporary wells installed in borings SB-7, SB-10, SB-11, SB-13, SB-15, and SB-17 ranged from 12.5 to 14 feet. Depth to water in SB-8 was 8.8 feet. During sampling, the temporary wells would often pump dry attempting to fill the three 40-ml VOA bottles required for the VOC analysis. The wells were allowed to recharge in order to complete the sampling.

### **Field Screening Results**

Field PID measurements of the retrieved soil samples were typically less than 20 parts per million (ppm). Elevated PID readings were measured in SB-11 (up to 951 ppm at 2-foot bgs) and in SB-15 (up to 228 ppm at 10.5 feet bgs). Field PID measurements and observations are included on the boring logs (Attachment A).

### **Data Validation Review**

PES conducted a data quality review of the investigation chemistry data consistent with USEPA data review guidelines. Data completeness, holding times, laboratory instrument calibrations, surrogate recoveries, matrix spike and matrix spike duplicates, laboratory control samples, quantitation limits, field duplicates, method blanks, and trip blanks were reviewed. PES assigned the following data qualifiers, as needed:

- J qualifier: result is an estimate based on field and laboratory quality control results.

No data were rejected based on the data validation review, and PES judged all of the data acceptable for use. No VOCs were detected in the trip blanks submitted with the soil and water samples that were collected on July 9, 2015.

### **Soil Matrix Results**

Tables 1 and 3 summarize the soil results which are also shown on Plate 3. VOCs were detected in all but seven of the 42 primary soil samples submitted for VOC analysis during this investigation. Five of the seven samples without VOC detections were associated with the Suite #103 sampling. VOC concentrations below CULs were detected in SB-8 and SB-9. PCE was detected at concentrations up to 0.572 mg/kg (SB-16), exceeding the CUL of 0.05 mg/kg at a maximum depth of 6 feet bgs. TCE was detected at concentrations up to 0.660 mg/kg (SB-11), exceeding the CUL of 0.03 mg/kg at a maximum depth of 6 feet bgs. PCE and TCE were not detected above the method reporting limits (MRLs) in any of the 9 to 10.5 foot soil samples collected from every boring location (the deep sample in SB-7 was collected at 13 feet bgs).

### **Groundwater Results**

VOCs were detected in all of the seven groundwater samples collected from the temporary wells (Table 2 and Plate 4). As noted above, shallow perched groundwater was not consistently found in the temporary wells and not at all in previous shallow soil borings, and the recharge rates observed during sampling were very low. It is not clear whether this perched groundwater is the result of a leaking utility line (water, sanitary sewer), but for purposes of this discussion, the results are compared with the applicable MTCA CULs.

PCE was only detected in SB-10 at a concentration of 1.52 µg/L, below the CUL of 5 µg/L and TCE was not detected in any of the samples. Concentrations of cDCE below the MTCA Method B CUL were detected in the samples collected from SB-7, SB-8, SB-15, and SB-17. Concentrations of cDCE and/or vinyl chloride exceeding CULs were detected in samples collected from SB-10, SB-11, and SB-13. cDCE was detected at concentrations up to 61.6 µg/L (SB-11), exceeding the CUL of 16 µg/L. Vinyl chloride was detected at concentrations up to 0.706 µg/L (SB-11), exceeding the CUL of 0.2 µg/L.

### **Limited Building Inspections**

Although the initial inspection on June 12, 2015 did not include removal of the carpet or destructive inspection of the dry wall, and therefore was somewhat limited, several penetrations through the floor slab in the back of the suite were noted as well as penetrations in the demising

wall between Suite #103 and the dry cleaners suite above the drop ceiling (e.g., sprinkler piping, other pipes near the back of the suite); see photos on Plates 5 through 7.

The July 6 inspection of the concrete slab exposed during construction of the SVE trench noted several significant cracks in the slab. Photo 2 on Plate 7 shows the crack running parallel to the demising wall between the suite and the dry cleaners. When the contractor saw-cut the concrete floor for the SVE trench it cut across another crack that shows the crack fully penetrating the slab (see Photo 1 on Plate 8). It was also noted that there was no rebar or wire mesh in the concrete, potentially a contributing factor in the development of these cracks.

The suite is currently vacant and it does not appear that this space will be occupied in the immediate future. Once a new tenant is found, and the likely tenant improvement activities are initiated (e.g., the remainder of the existing flooring, drop ceiling, and possibly dry wall are removed), a closer inspection of the interior of Suite #103 should be conducted.

## **EXTENT OF CONTAMINATION**

Previous investigations had suggested that the extent of VOCs associated with the dry cleaners was potentially limited to soil. The current investigation further defined the horizontal and vertical extent of contamination in soil. As noted above, shallow perched groundwater was encountered during installation of the soil borings and the scope of work was augmented to collect water samples.

### **Summary of Soil Exceeding CULs**

A total of 11 soil borings were installed during this investigation – eight beneath the dry cleaner suite and three beneath the adjacent Suite #103 to the west. As shown on Plate 3, all eight soil borings in the dry cleaner suite, and one of the three borings in Suite #103, had one or more samples with VOC concentrations exceeding the applicable MTCA cleanup level. The results define an area within the central portion of the dry cleaners suite, and along the western portion of Suite #103, where VOC concentrations are above CULs. The investigation adequately defined the vertical extent of contamination, with the deepest sample containing VOCs exceeding CULs was the 6 ft samples collected at SB-16 and -17. None of the 9 ft or deeper samples had VOCs exceeding CULs, and most were below MRLs.

With respect to the lateral extent of contamination, the results of the current and previous investigations appear to adequately define the extent to the south (AC-SB5 and SB-1) and southeast (SB-8 and SB-9) of the DCU. In the other directions, while the investigation expanded our understanding of the lateral extent within the dry cleaners suite, contamination above CULs was, however, found in the perimeter borings, including:

- West. Borings SB-11, -13, and -17 are located along the eastern side of the dry cleaning suite and all three have VOCs exceeding CULs in the samples;
- North. Boring SB-16, the furthest north of the borings, has VOCs above CULs in the 0.5 ft, 3ft, and 6 ft samples (but not in the 9 ft sample); and

- Northeast. The area to the northeast of the DCU is characterized by two samples collected during installation of the SVE trench (Trench samples 3 and 4), both of which have VOCs above CULs.

While these results provide a good basis for evaluating, designing, and implementing a cleanup action, some additional information will be required to identify lateral extent of contamination in the northern portion of the dry cleaners suite and potentially in the adjacent suites on either side. This information can be obtained during the design phase of cleanup action implementation process.

### **Summary of Groundwater Exceeding CULs**

The results of the groundwater investigation suggest an area of limited size where VOCs exceed the CULs, and in fact suggest a limited area where shallow groundwater is present at all. Seven of the 11 borings installed had sufficient water present to allow for collected of samples through temporary well screens. Of these seven, only three borings located immediately around the DCU (SB-10, -11, and -13) had VOCs exceeding the applicable CULs. Other locations either had below-CUL concentrations of VOCs or were dry.

### **PRELIMINARY EVALUATION OF REMEDIAL ALTERNATIVES**

As described above, potential source areas for past release of PCE include the vicinity of the former DCU (operated prior to January 2002) and the sanitary sewer pipeline extension beneath the dry cleaner premises and beneath the adjacent Suite #103. The depth of contamination appears to be limited to within the upper 9 ft below grade, and appears to have impacted an approximate 1 to 2 ft thick shallow perched groundwater zone at varying depths in the locations encountered. The remedy evaluation will focus on remediating shallow soil and the shallower perched groundwater.

The following includes discussion of typical remediation technologies which are commonly used to remediate shallow soil at dry cleaner cleanup sites. For the purposes of this letter, only those technologies which have the reasonable potential to achieve MTCA Method A CULs in shallow soil and groundwater are discussed. The identified potentially applicable technologies include excavation and soil vapor extraction (SVE).

- **Excavation.** Excavation may be deployed both above and below the groundwater table to remove areas of contaminated soil above and/or within the contaminated groundwater plume. Excavated soil would be loaded into licensed trucks and transported for offsite disposal at an approved facility. Excavated areas may require shoring of other actions to protect the building structures, and protection and/or temporary relocation of tenant utilities. Excavation within the tenant spaces would be disruptive and would likely be difficult to implement, especially if excavations extend into multiple tenant spaces (i.e., beneath demising walls).
- **Soil Vapor Extraction.** SVE is an established an *in situ* remediation technology that removes VOCs from the unsaturated zone by applying a vacuum to induce airflow from the impacted zone into a collection well or network of collection wells. VOCs already in the vapor phase are readily removed, and VOCs in the liquid phase (i.e.,



typically sorbed onto soil particles) are partitioned into the vapor phase as the air stream flows through zones of contamination. SVE may also remove liquid VOCs from the upper few feet of groundwater, although will be ineffective at removing VOCs trapped deeper below the water table. The silty sand vadose zone at this site is expected to be suitable for SVE; however, VOC removal efficiency can be affected by soil heterogeneity. More permeable backfill within the existing sanitary sewer trench (estimated 3 to 6 ft depth) may also limit the lateral extent of the shallow SVE zone of influence (ZOI). SVE wells would be connected by above ground or below ground piping to a vacuum blower, and the blower, associated equipment, and controls would likely be installed in a small fenced area behind the former dry cleaner tenant space. Based on the expected limited mass of chlorinated solvent residuals in soil and groundwater, the SVE system will likely be exempt from Puget Sound Clean Air Agency and Washington Department of Ecology requirements, and the blower effluent may be discharged directly to the atmosphere without treatment.

Each of these technologies, applied alone or in tandem, are potentially viable approaches to remediate the residual PCE and breakdown products in shallow soil and groundwater at this site. Each of the approaches will require additional investigation to gather design specific site data, and the implementability of a selected alternative may be affected if there is significant variance from the assumptions described above. For the purposes of this evaluation, excavation has been screened out for further consideration due to difficulties and potential hazards of implementing excavation inside the building and occupied tenant spaces.

## **DISCUSSION OF POTENTIAL REMEDIAL ACTION**

For the purposes of this preliminary evaluation, and based on currently available information, SVE appears to be the most applicable remedial technology for this site. The remedial approach that is further evaluated below consists of: (1) soil vapor extraction to remediate assumed vadose zone contamination; and (2) confirmation soil sampling to document the remedial effectiveness and compliance with CULs. The confirmation sampling will also include further evaluation of perched groundwater encountered during the investigation. A preliminary remediation timeframe of one to two years is estimated.

The scope of the remedial action is assumed to include the following tasks:

- **Design investigation.** To confirm the extent of shallow soil VOC concentrations and gather additional information on the nature of the shallow perched groundwater found beneath the dry cleaner tenant space. The work would include drilling and sampling five to eight direct push boring in the adjacent tenant spaces and north of the dry cleaner suite and installing one shallow monitoring well adjacent to the existing DCU. Vapor monitoring probes will be installed in several of the soil borings so that they may be used to confirm vacuum influence during operation of the SVE system. Investigation (i.e., video survey) of the drain line located behind the DCU would also be conducted at this time.
- **Design the SVE system.** Prepare a remediation system design package including construction plans, construction scope of work, and equipment specifications.

- **Construct and install the SVE system.** The system will include the existing horizontal SVE trench beneath Suite #103, a new horizontal SVE well installed beneath the dry cleaner tenant space, and remediation equipment and controls inside a fenced area located directly south of the tenant space. The new horizontal well will be installed using mud-rotary directional drilling equipment, and the equipment will be staged and operated outside of the tenant spaces so that there is limited impact to tenant operations. The equipment will include the drilling machine, drilling fluid mixing/recycling equipment, and a covered watertight roll-off container for collecting the drill cuttings and waste drilling fluids. The drilling crew will monitor horizontal drilling parameters (borehole backpressure, fluid return, etc.) and control conditions to minimize risk of migration of the biodegradable drilling fluid to either the ground surface or through the cracks in the building slab. Additionally, one crewmember will walk over the drilling alignment to guide the drill bit location and depth, and to observe for potential issues at the surface. Drilling residual soil and liquid will be managed in a water tight, lined, and covered and disposed offsite at approved facilities

The new horizontal SVE well will be installed to a depth of approximately 6 ft so that the well is above the depth of groundwater encountered during the investigation (i.e., 9 to 14 ft bgs). Both SVE wells are expected to have a zone of influence which extends both vertically through the contaminated vadose zone and laterally 20 to 30 ft laterally from the well alignment. Discovery of soil contamination during the design investigation described above which exceeds the anticipated zone of influence limits may result in expanding the SVE system with additional wells.

- **Startup, operation and maintenance (O&M), periodic sampling of SVE operations, and reporting.** Operation of the SVE system for one to two years is anticipated. Monitoring of the declining VOC concentrations in the SVE system effluent will be used to determine when the SVE system will be shut-off. Shut-off commonly occurs when effluent concentrations are consistently low and asymptotic over time.
- **Confirmation sampling.** Soil and groundwater sampling will be performed to confirm that VOC concentrations are below applicable CULs. The work may involve installing one or two additional groundwater monitoring wells and four quarterly rounds of groundwater sampling, if required.
- **Enter Voluntary Cleanup Program.** Assuming the cleanup action is successful and cleanup levels are achieved, submit the project information Ecology under the Voluntary Cleanup Program requesting an unconditional NFA determination.
- **Decommission the SVE system.** All SVE wells and equipment, vapor monitoring points, and monitoring wells (if applicable) will be removed following approval of the NFA.

Please note that if groundwater sampling results after the SVE system is shut down show residual VOC concentrations above the applicable groundwater CULs, it is possible that subsequent remediation of perched groundwater may be required to achieve an unrestricted

NFA. Although unlikely, groundwater treatment at this site, if necessary, would most likely include technologies such as *in situ* chemical oxidation (ISCO), *in situ* chemical reduction (ISCR), and/or enhanced *in situ* bioremediation (EISB). Implementation of these technologies could result in an additional one to three years of remediation, monitoring, and reporting.

## RECOMMENDATIONS

Based on the information presented above, PES recommends that the project move forward to remedial design and implementation. Concurrent with the design process, PES recommends conducting an additional limited investigation as summarized above. Based on the results of this additional investigation, the SVE system design will be completed and implemented.

If Gerrity concurs with this recommendation, PES will prepare a scope of work and cost estimate to complete the remedial design, including the limited design investigation. Once the design is complete, PES will solicit bids from contractors and vendors and prepare a proposal for implementation of the cleanup action.

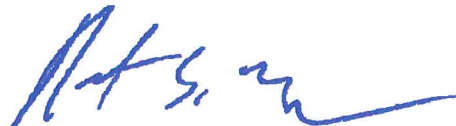
PES appreciates the opportunity to be of service on this project. If you have any questions regarding this report, please do not hesitate to call the undersigned.

Sincerely,

**PES ENVIRONMENTAL, INC.**



Brian O'Neal, P.E.  
Associate Engineer



Robert Creps  
Principal Engineer

Attachments: Table 1 – Soil Analytical Results  
Table 2 – Groundwater Analytical Results  
Table 3 – Soil Analytical Results – Trench Samples  
Plate 1 – Site Location  
Plate 2 – Soil Sampling Locations  
Plate 3 – Soil Analytical Results  
Plate 4 – Groundwater Analytical Results  
Plates 5 to 8 – Site Photographs  
Attachment A – Boring Logs  
Attachment B – Certificate of Disposal  
Attachment C – Field Sampling Forms and Building Survey Form  
Attachment D – Laboratory Analytical Reports and Data Validation Memoranda  
Attachment E – Geotechnical Laboratory Reports and Hydraulic Conductivity Calculations

**TABLES**

Table 1

**Soil Analytical Results  
Phase II Subsurface Investigation  
Bethel Junction Shopping Center, Port Orchard, Washington**

| Sample  | Date Sampled | Sample Depth (feet bgs) | Detected VOCs (mg/kg) |               |               |               |
|---|--------------|-------------------------|-----------------------|---------------|---------------|---------------|
|   |              |                         | PCE                   | TCE           | tDCE          | cDCE          |
| <b>Former Hallmark Suite (Suite 103)</b>  |              |                         |                       |               |               |               |
| SB-7  | 6/12/15      | 0 to 4                  | <b>0.0893</b>         | 0.0222 U      | 0.0222 U      | 0.0222 U      |
|   |              | 4 to 8                  | 0.0229 U              | 0.0229 U      | 0.0229 U      | <b>0.0458</b> |
|   |              | 13                      | 0.0199 U              | 0.0199 U      | 0.0199 U      | <b>0.0279</b> |
| SB-8  | 6/12/15      | 0.5                     | <b>0.0489</b>         | 0.0272 U      | 0.0272 U      | 0.0272 U      |
|   |              | 5                       | 0.0243 U              | 0.0243 U      | 0.0243 U      | <b>0.296</b>  |
|   |              | 10                      | 0.0251 U              | 0.0251 U      | 0.0251 U      | 0.0251 U      |
| SB-9  | 6/12/15      | 0.5                     | <b>0.0432</b>         | 0.0251 U      | 0.0251 U      | 0.0251 U      |
|   |              | 5                       | 0.0199 U              | 0.0199 U      | 0.0199 U      | 0.0199 U      |
|   |              | 9                       | 0.0213 U              | 0.0213 U      | 0.0213 U      | 0.0213 U      |
| <b>Amy's Dry Cleaner Suite (Suite 105)</b>  |              |                         |                       |               |               |               |
| SB-10   | 6/25/15      | 0.5                     | <b>0.166</b>          | 0.0225 U      | 0.0225 U      | 0.0225 U      |
|   |              | 3                       | <b>0.269</b>          | <b>0.0222</b> | 0.0222 U      | 0.0222 U      |
|   |              | 10                      | 0.0199 U              | 0.0199 U      | 0.0199 U      | <b>0.0682</b> |
| SB-11<br>dup  | 6/25/15      | 0.5                     | <b>0.656</b>          | <b>0.0230</b> | 0.0200 U      | 0.0200 U      |
|   |              | 2                       | <b>0.179 J</b>        | <b>0.660</b>  | 0.0234 U      | <b>0.113</b>  |
|   |              | 2                       | <b>0.313 J</b>        | <b>0.551</b>  | 0.026 U       | <b>0.0802</b> |
| SB-12   | 6/25/15      | 0.5                     | <b>0.0995</b>         | 0.0249 U      | 0.0249 U      | 0.0249 U      |
|   |              | 3                       | <b>0.0986</b>         | <b>0.225</b>  | 0.016 U       | <b>0.0600</b> |
|   |              | 9                       | 0.0225 U              | 0.0225 U      | 0.0225 U      | <b>0.192</b>  |
| SB-13   | 6/25/15      | 0.5                     | <b>0.232</b>          | <b>0.0213</b> | 0.0213 U      | 0.0213 U      |
|   |              | 3                       | <b>0.136</b>          | <b>0.0450</b> | 0.0205 U      | <b>0.119</b>  |
|   |              | 9                       | 0.0214 U              | 0.0214 U      | 0.0214 U      | <b>0.0263</b> |
| SB-14   | 7/9/15       | 0.5                     | <b>0.321</b>          | 0.0207 U      | 0.0207 U      | 0.0207 U      |
|   |              | 3                       | <b>0.0441</b>         | <b>0.173</b>  | <b>0.0268</b> | <b>0.0856</b> |
|   |              | 6                       | <b>0.0465</b>         | <b>0.0210</b> | 0.0196 U      | <b>0.0851</b> |
|   |              | 9                       | 0.0277 U              | 0.0277 U      | 0.0277 U      | <b>0.176</b>  |
| SB-15<br>dup  | 7/9/15       | 0.5                     | <b>0.104</b>          | 0.0289 U      | 0.0289 U      | 0.0289 U      |
|   |              | 3                       | <b>0.0464</b>         | <b>0.126</b>  | 0.0200 U      | <b>0.0584</b> |
|   |              | 6                       | <b>0.0437</b>         | 0.0230 U      | 0.0230 U      | 0.0230 U      |
|   |              | 10.5                    | 0.0197 U              | 0.0197 U      | 0.0197 U      | 0.0197 U      |
|   |              | 10.5                    | 0.0205 U              | 0.0205 U      | 0.0205 U      | <b>0.0261</b> |
| SB-16   | 7/9/15       | 0.5                     | <b>0.0527</b>         | 0.0227 U      | 0.0227 U      | 0.0227 U      |
|   |              | 3                       | <b>0.0762</b>         | 0.0210 U      | 0.0210 U      | 0.0210 U      |
|   |              | 6                       | <b>0.572</b>          | <b>0.142</b>  | 0.0235 U      | 0.0235 U      |
|   |              | 9                       | 0.0200 U              | 0.0200 U      | 0.0200 U      | <b>0.194</b>  |
| SB-17   | 7/9/15       | 0.5                     | <b>0.0736</b>         | 0.0304 U      | 0.0304 U      | 0.0304 U      |
|   |              | 3                       | <b>0.0828</b>         | 0.0230 U      | 0.0230 U      | 0.0230 U      |
|   |              | 6                       | <b>0.0526</b>         | <b>0.0469</b> | 0.0229 U      | 0.0229 U      |
|   |              | 9                       | 0.0210 U              | 0.0210 U      | 0.0210 U      | 0.0210 U      |
| MTCA Method A/B Unrestricted CULs   |              |                         | 0.05 (A)              | 0.03 (A)      | 1,600 (B)     | 160 (B)       |
| <b>Notes:</b>   |              |                         |                       |               |               |               |
| <ol style="list-style-type: none"> <li>bgs = below ground surface</li> <li>U = result is less than the laboratory practical quantitation limit (PQL)</li> <li>PCE = tetrachloroethene, TCE = trichloroethene, cDCE = cis-1,2-dichloroethene, tDCE = trans-1,2-dichloroethene</li> <li>(A) = MTCA Method A soil cleanup level (CUL)</li> <li>(B) = MTCA Method B soil cleanup level (ingestion only)</li> <li><b>Bold</b> indicates that the compound was detected above the PQL, and shading indicates the concentration exceeds the MTCA Method A or B CUL</li> <li>dup = field duplicate sample result</li> <li>Volatile Organic Compounds (VOCs) analyzed by USEPA Method 8260. Only detected VOCs are shown; see laboratory report for the complete analyte list.</li> <li>mg/kg = milligrams per kilogram</li> </ol> |              |                         |                       |               |               |               |

**Table 2**

**Groundwater Analytical Results  
Phase II Subsurface Investigation  
Bethel Junction Shopping Center, Port Orchard, Washington**

| Sample   | Date Sampled | Sample Depth (feet bgs) | Detected VOCs (µg/L) |             |                |
|--|--------------|-------------------------|----------------------|-------------|----------------|
|  |              |                         | PCE                  | cDCE        | Vinyl Chloride |
| SB-7-W   | 6/12/15      | 12.5                    | 1.00 U               | <b>6.67</b> | 0.200 U        |
| SB-8-W   | 6/12/15      | 9                       | 1.00 U               | <b>13.1</b> | 0.200 U        |
| SB-10-W  | 6/25/15      | 13.38                   | <b>1.52</b>          | <b>18.3</b> | 0.200 U        |
| SB-11-W  | 6/25/15      | 13.70                   | 1.00 U               | <b>61.6</b> | <b>0.706 J</b> |
| SB-13-W  | 6/25/15      | 14.01                   | 1.00 U               | <b>37.3</b> | <b>0.658 J</b> |
| SB-15-W  | 7/9/15       | 14.5                    | 1.00 U               | <b>8.22</b> | 0.200 U        |
| SB-17-W  | 7/9/15       | 13                      | 1.00 U               | <b>10.4</b> | 0.200 U        |
| MTCA Method A/B CULs   |              |                         | 5 (A)                | 16 (B)      | 0.2 (A)        |
| <b>Notes:</b>  |              |                         |                      |             |                |
| <ol style="list-style-type: none"> <li>1. bgs = below ground surface</li> <li>2. U = result is less than the laboratory practical quantitation limit (PQL)</li> <li>3. PCE = tetrachloroethene, cDCE = cis-1,2-dichloroethene, tDCE = trans-1,2-dichloroethene</li> <li>4. (A) = MTCA Method A groundwater cleanup level (CUL)</li> <li>5. (B) = MTCA Method B groundwater cleanup level</li> <li>6. <b>Bold</b> indicates that the compound was detected above the PQL, and shading indicates the concentration exceeds the MTCA Method A or B CUL</li> <li>7. Volatile Organic Compounds (VOCs) analyzed by USEPA Method 8260. Only detected VOCs are shown; see laboratory report for the complete analyte list.</li> <li>8. µg/L = micrograms per liter</li> </ol> |              |                         |                      |             |                |

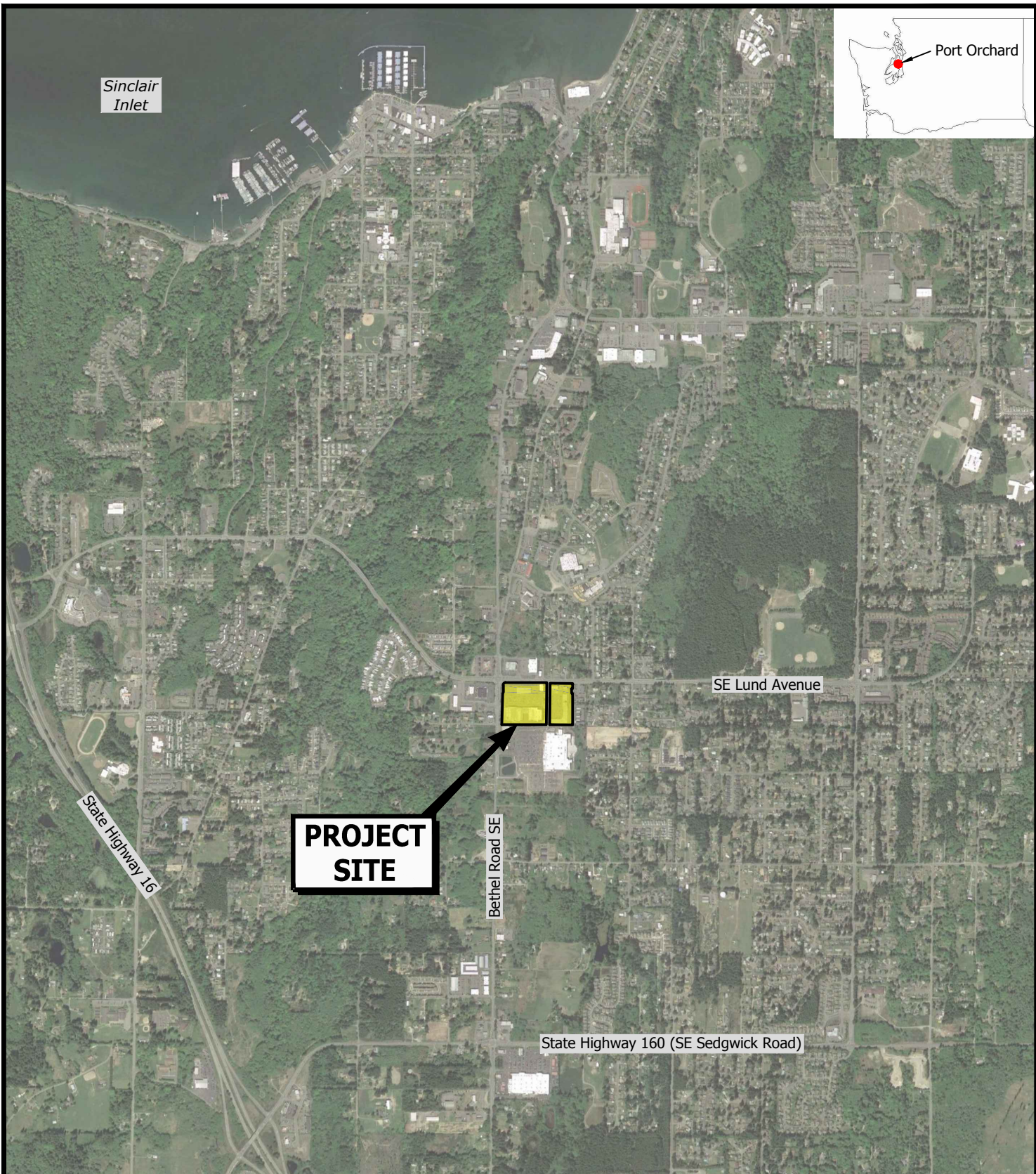
Table 3

**Soil Analytical Results - Trench Samples  
Phase II Subsurface Investigation  
Bethel Junction Shopping Center, Port Orchard, Washington**

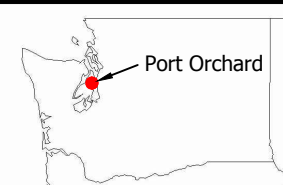
| Sample   | Date Sampled | Sample Depth (feet bgs) | Detected VOCs (mg/kg) |               |               |
|--|--------------|-------------------------|-----------------------|---------------|---------------|
|  |              |                         | PCE                   | TCE           | cDCE          |
| Trench 1-1   | 7/6/2015     | 1                       | 0.0216 U              | 0.0216 U      | 0.0216 U      |
| Trench 2-4   | 7/6/2015     | 4                       | 0.0206 U              | 0.0206 U      | 0.0206 U      |
| Trench 3-1   | 7/6/2015     | 1                       | <b>0.147</b>          | <b>0.0712</b> | 0.0202 U      |
| Trench 4-4   | 7/6/2015     | 4                       | 0.0216 U              | <b>0.0345</b> | <b>0.0598</b> |
| Trench 5-4   | 7/6/2015     | 4                       | <b>0.131</b>          | <b>0.507</b>  | <b>0.300</b>  |
| Method A Unrestricted CUL  |              |                         | 0.05 (A)              | 0.03 (A)      | 160 (B)       |
| <b>Notes:</b>  |              |                         |                       |               |               |
| <ol style="list-style-type: none"> <li>1. bgs = below ground surface</li> <li>2. U = result is less than the laboratory practical quantitation limit (PQL)</li> <li>3. PCE = tetrachloroethene, TCE = trichloroethene, cDCE = cis-1,2-dichloroethene</li> <li>4. (A) = MTCA Method A soil cleanup level (CUL)</li> <li>5. (B) = MTCA Method B soil cleanup level (ingestion only)</li> <li>6. <b>Bold</b> indicates the compound was detected above the PQL, and shading indicates the concentration exceeds the MTCA Method A or B CUL</li> <li>7. Volatile Organic Compounds (VOCs) analyzed by USEPA Method 8260. Only detected VOCs are shown; see laboratory report for the complete analyte list.</li> <li>8. mg/kg = milligrams per kilogram</li> </ol> |              |                         |                       |               |               |

**PLATES**





Sinclair Inlet



Port Orchard

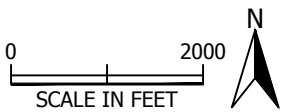
SE Lund Avenue

**PROJECT SITE**

Bethel Road SE

State Highway 16

State Highway 160 (SE Sedgwick Road)



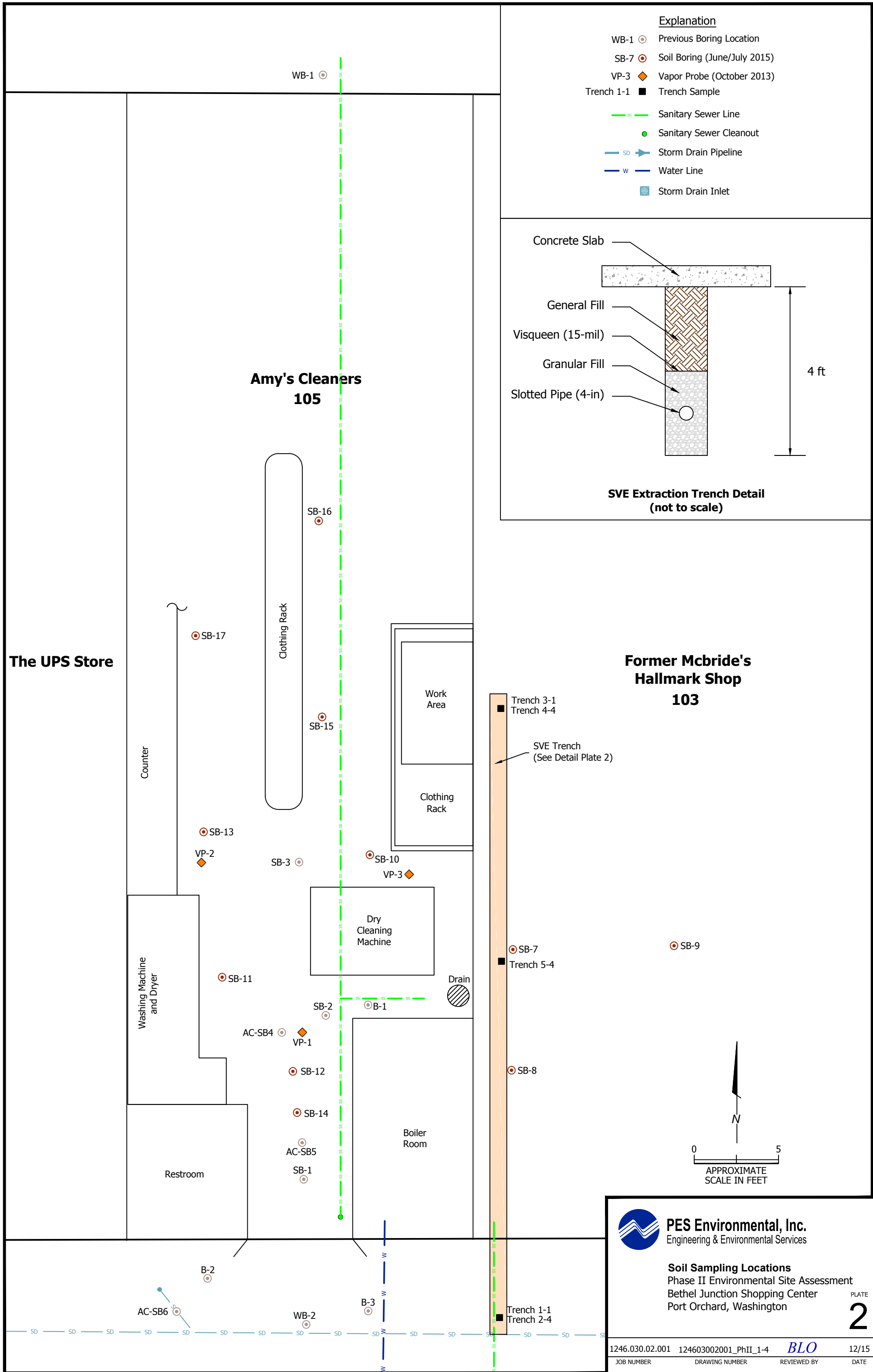
Aerial Photo: May 4, 2013 (Google 2014)



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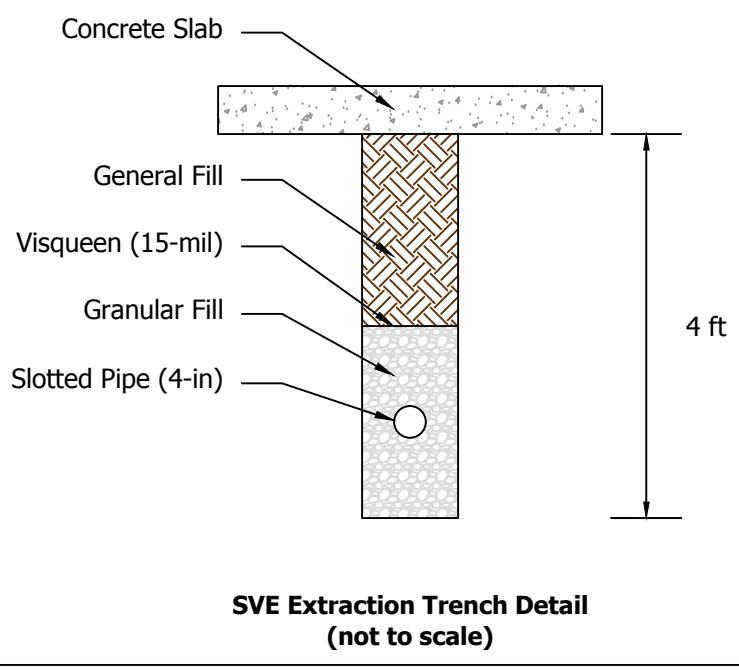
**Site Location**  
Phase I Environmental Site Assessment  
Bethel Junction & Bethel Place Shopping Centers  
Port Orchard, Washington

PLATE  
**1**



**Explanation**

- WB-1 ○ Previous Boring Location
- SB-7 ○ Soil Boring (June/July 2015)
- VP-3 ◇ Vapor Probe (October 2013)
- Trench 1-1 ■ Trench Sample
- SS — Sanitary Sewer Line
- Sanitary Sewer Cleanout
- SD — Storm Drain Pipeline
- W — Water Line
- Storm Drain Inlet



**The UPS Store**

**Amy's Cleaners  
105**

**Former McBride's  
Hallmark Shop  
103**

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**Soil Sampling Locations**  
Phase II Environmental Site Assessment  
Bethel Junction Shopping Center  
Port Orchard, Washington

PLATE  
**2**

**Explanation**

- WB-1 ○ Previous Boring Location
- SB-7 ○ Soil Boring (June/July 2015)
- VP-3 ◆ Vapor Probe (October 2013)
- Trench 1-1 ■ Trench Sample
- SS — Sanitary Sewer Line
- Sanitary Sewer Cleanout
- SD — Storm Drain Pipeline
- W — Water Line
- Storm Drain Inlet

J = Estimated Value  
 All concentrations in milligrams per kilogram (mg/kg)  
 Depths in feet below ground surface  
 PCE = tetrachloroethene  
 TCE = trichloroethene  
 cDCE = cis-1,2-dichloroethene  
 tDCE = trans-1,2-dichloroethene  
 ND = not detected at or above the laboratory practical quantitation limit (PQL); see Table 1 for the PQLs

Shading indicates the concentration exceeds the cleanup level  
 SB-7 through SB-9 soil samples collected on June 12, 2015  
 SB-10 through SB-13 soil samples collected on June 25, 2015  
 Trench soil samples collected on July 6, 2015  
 SB-14 through SB-17 soil samples collected on July 9, 2015

| Soil Cleanup Levels (mg/kg) |      |      |       |  |
|-----------------------------|------|------|-------|--|
| PCE                         | TCE  | cDCE | tDCE  |  |
| 0.05                        | 0.03 | 160  | 1,600 |  |

Reference: Soil cleanup levels based on the Washington State Department of Ecology Model Toxics Control Act Cleanup Regulation (Chapter 173-340 WAC) Method A (PCE and TCE) or Method B (cDCE and tDCE) cleanup levels.

**Amy's Cleaners 105**

| SB-16 |        |       |      |       |
|-------|--------|-------|------|-------|
| Depth | PCE    | TCE   | cDCE | tDCE  |
| 0.5   | 0.0527 | ND    | ND   | ND    |
| 3     | 0.0762 | ND    | ND   | ND    |
| 6     | 0.572  | 0.142 | ND   | ND    |
| 9     | ND     | ND    | ND   | 0.194 |

| SB-17 |        |        |      |      |
|-------|--------|--------|------|------|
| Depth | PCE    | TCE    | cDCE | tDCE |
| 0.5   | 0.0736 | ND     | ND   | ND   |
| 3     | 0.0828 | ND     | ND   | ND   |
| 6     | 0.0526 | 0.0469 | ND   | ND   |
| 9     | ND     | ND     | ND   | ND   |

| SB-15 |        |       |      |        |
|-------|--------|-------|------|--------|
| Depth | PCE    | TCE   | cDCE | tDCE   |
| 0.5   | 0.104  | ND    | ND   | ND     |
| 3     | 0.0464 | 0.126 | ND   | 0.0584 |
| 6     | 0.0437 | ND    | ND   | ND     |
| 10.5  | ND     | ND    | ND   | ND     |

| SB-13 |       |        |      |        |
|-------|-------|--------|------|--------|
| Depth | PCE   | TCE    | cDCE | tDCE   |
| 0.5   | 0.232 | 0.0213 | ND   | ND     |
| 3     | 0.136 | 0.0450 | ND   | 0.119  |
| 9     | ND    | ND     | ND   | 0.0263 |

| SB-11 |         |        |      |        |
|-------|---------|--------|------|--------|
| Depth | PCE     | TCE    | cDCE | tDCE   |
| 0.5   | 0.656   | 0.0230 | ND   | ND     |
| 2     | 0.179 J | 0.660  | ND   | 0.113  |
| 9     | ND      | ND     | ND   | 0.0252 |

| SB-12 |        |       |      |        |
|-------|--------|-------|------|--------|
| Depth | PCE    | TCE   | cDCE | tDCE   |
| 0.5   | 0.0995 | ND    | ND   | ND     |
| 3     | 0.0986 | 0.225 | ND   | 0.0600 |
| 9     | ND     | ND    | ND   | 0.192  |

| SB-14 |        |        |        |        |
|-------|--------|--------|--------|--------|
| Depth | PCE    | TCE    | cDCE   | tDCE   |
| 0.5   | 0.321  | ND     | ND     | ND     |
| 3     | 0.0441 | 0.173  | 0.0268 | 0.0856 |
| 6     | 0.0465 | 0.0210 | ND     | 0.0851 |
| 9     | ND     | ND     | ND     | 0.176  |

| Trench 1/2 |     |     |      |      |
|------------|-----|-----|------|------|
| Depth      | PCE | TCE | cDCE | tDCE |
| 1          | ND  | ND  | ND   | ND   |
| 4          | ND  | ND  | ND   | ND   |

| Trench 3/4 |       |        |        |      |
|------------|-------|--------|--------|------|
| Depth      | PCE   | TCE    | cDCE   | tDCE |
| 1          | 0.147 | 0.0712 | ND     | ND   |
| 4          | ND    | 0.0345 | 0.0598 | ND   |

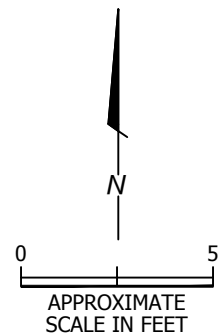
| SB-10 |       |        |      |        |
|-------|-------|--------|------|--------|
| Depth | PCE   | TCE    | cDCE | tDCE   |
| 0.5   | 0.166 | ND     | ND   | ND     |
| 3     | 0.269 | 0.0222 | ND   | ND     |
| 10    | ND    | ND     | ND   | 0.0682 |

| SB-7   |        |     |      |        |
|--------|--------|-----|------|--------|
| Depth  | PCE    | TCE | cDCE | tDCE   |
| 0 to 4 | 0.0893 | ND  | ND   | ND     |
| 4 to 8 | ND     | ND  | ND   | 0.0458 |
| 13     | ND     | ND  | ND   | 0.0279 |

| Trench 5 |       |       |       |      |
|----------|-------|-------|-------|------|
| Depth    | PCE   | TCE   | cDCE  | tDCE |
| 4        | 0.131 | 0.507 | 0.300 | ND   |

| SB-9  |        |     |      |      |
|-------|--------|-----|------|------|
| Depth | PCE    | TCE | cDCE | tDCE |
| 0.5   | 0.0432 | ND  | ND   | ND   |
| 5     | ND     | ND  | ND   | ND   |
| 10    | ND     | ND  | ND   | ND   |

| SB-8  |        |     |      |       |
|-------|--------|-----|------|-------|
| Depth | PCE    | TCE | cDCE | tDCE  |
| 0.5   | 0.0489 | ND  | ND   | ND    |
| 5     | ND     | ND  | ND   | 0.296 |
| 10    | ND     | ND  | ND   | ND    |



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**Soil Analytical Results**  
 Phase II Environmental Site Assessment  
 Bethel Junction Shopping Center  
 Port Orchard, Washington

PLATE

**3**

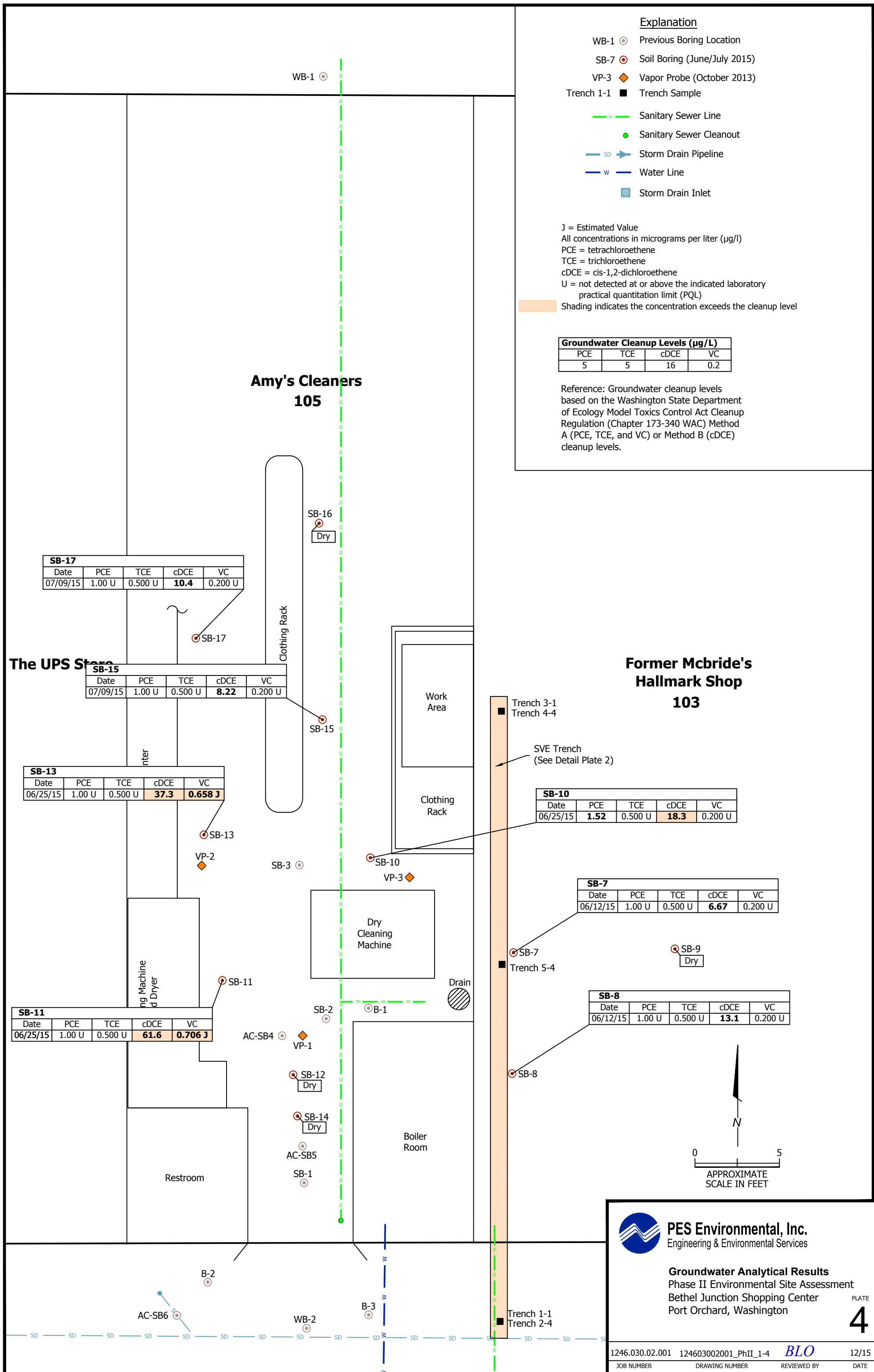
**Explanation**

- WB-1 ○ Previous Boring Location
- SB-7 ○ Soil Boring (June/July 2015)
- VP-3 ◆ Vapor Probe (October 2013)
- Trench 1-1 ■ Trench Sample
- ss — Sanitary Sewer Line
- Sanitary Sewer Cleanout
- SD — Storm Drain Pipeline
- W — Water Line
- Storm Drain Inlet

J = Estimated Value  
 All concentrations in micrograms per liter (µg/l)  
 PCE = tetrachloroethene  
 TCE = trichloroethene  
 cDCE = cis-1,2-dichloroethene  
 U = not detected at or above the indicated laboratory practical quantitation limit (PQL)  
 Shading indicates the concentration exceeds the cleanup level

| Groundwater Cleanup Levels (µg/L) |     |      |     |
|-----------------------------------|-----|------|-----|
| PCE                               | TCE | cDCE | VC  |
| 5                                 | 5   | 16   | 0.2 |

Reference: Groundwater cleanup levels based on the Washington State Department of Ecology Model Toxics Control Act Cleanup Regulation (Chapter 173-340 WAC) Method A (PCE, TCE, and VC) or Method B (cDCE) cleanup levels.



**SB-17**

| Date     | PCE    | TCE     | cDCE        | VC      |
|----------|--------|---------|-------------|---------|
| 07/09/15 | 1.00 U | 0.500 U | <b>10.4</b> | 0.200 U |

**SB-15**

| Date     | PCE    | TCE     | cDCE        | VC      |
|----------|--------|---------|-------------|---------|
| 07/09/15 | 1.00 U | 0.500 U | <b>8.22</b> | 0.200 U |

**SB-13**

| Date     | PCE    | TCE     | cDCE        | VC             |
|----------|--------|---------|-------------|----------------|
| 06/25/15 | 1.00 U | 0.500 U | <b>37.3</b> | <b>0.658 J</b> |

**SB-11**

| Date     | PCE    | TCE     | cDCE        | VC             |
|----------|--------|---------|-------------|----------------|
| 06/25/15 | 1.00 U | 0.500 U | <b>61.6</b> | <b>0.706 J</b> |

**SB-10**

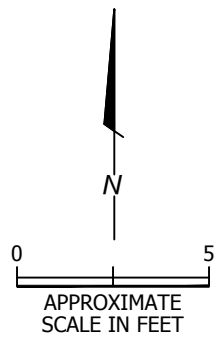
| Date     | PCE         | TCE     | cDCE        | VC      |
|----------|-------------|---------|-------------|---------|
| 06/25/15 | <b>1.52</b> | 0.500 U | <b>18.3</b> | 0.200 U |


**SB-7**

| Date     | PCE    | TCE     | cDCE        | VC      |
|----------|--------|---------|-------------|---------|
| 06/12/15 | 1.00 U | 0.500 U | <b>6.67</b> | 0.200 U |

**SB-8**

| Date     | PCE    | TCE     | cDCE        | VC      |
|----------|--------|---------|-------------|---------|
| 06/12/15 | 1.00 U | 0.500 U | <b>13.1</b> | 0.200 U |





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**Groundwater Analytical Results**  
Phase II Environmental Site Assessment  
Bethel Junction Shopping Center  
Port Orchard, Washington

PLATE  
**4**

1246.030.02.001
124603002001\_PhII\_1-4
*BLO*
12/15

JOB NUMBER
DRAWING NUMBER
REVIEWED BY
DATE



Photo 1.  
View to west of general view of wall separating Amy's and Hallmark suites.  
Above drop ceiling looking west. Note wall penetration by piping and conduits.



Photo 2.  
Floor penetration by utility pipes in the SW corner of the Hallmark suite. Wall separating Amy's and Hallmark suites on right.



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Site Photographs  
Phase II Environmental Site Assessment  
Bethel Junction Shopping Center  
Port Orchard, Washington

PLATE

5



Photo 1.  
Showing sprinkler piping inside the former Hallmark Suite penetrating the wall into Amy's on the right.



Photo 2.  
Pipe in southwest corner of Hallmark suite above drop ceiling penetrating the drywall separating Amy's and Hallmark.



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Site Photographs  
Phase II Environmental Site Assessment  
Bethel Junction Shopping Center  
Port Orchard, Washington

PLATE

6



Photo 1.  
Structural beam that runs east-west in Hallmark suite.  
View of the beam at the wall separating Hallmark and  
Amy's. View looking up and West.



Photo 2.  
Newly Constructed Soil Vapor Extraction (SVE) Trench  
prior to backfilling – note crack in slab to the left of  
the trench.



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Site Photographs  
Phase II Environmental Site Assessment  
Bethel Junction Shopping Center  
Port Orchard, Washington

PLATE  
**7**



Photo 1.  
Fully penetrating crack through the slab in the former  
Hallmark Suite floor. Crack extends below the demising  
wall between this suite and Amy's Dry Cleaners.



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**Site Photographs**  
Phase II Environmental Site Assessment  
Bethel Junction Shopping Center  
Port Orchard, Washington

PLATE

**8**



**ATTACHMENT A**  
**BORING LOGS**



| Completion Details               | Sample ID   | PID (ppm) | Sample Interval | Recovery (Inches) | Depth (Feet) | Symbol | Lithologic Description  |
|----------------------------------|-------------|-----------|-----------------|-------------------|--------------|--------|---|
| <p>Concrete</p> <p>Bentonite</p> | SB-7-0 to 4 | 0.4       |                 | 42                | 0            |        | <p>Concrete</p> <p>BROWN SAND (SP), dry to moist, fine, few fines, rare orange mottling</p> <p>@ 1 foot: crushed rock, then gray, moist, trace coarse gravel, trace root organics, lensate silt clumps, no orange mottling</p> <p>@ 2 feet: brown, fine to medium sand, carbonized organics, rare orange mottling</p> |
|                                  | SB-7-4 to 8 | 0.8       |                 | 36                | 5            |        | <p>GRAY AND BROWN SILTY SAND (SM), moist, fine to medium, little fines, trace subrounded gravel</p>   |
|                                  | SB-7-13     | 0.2       |                 | 48                | 10           |        | <p>LIGHT BROWN SAND (SP), moist to wet, fine, few fines, orange-brown staining, abundant wood organics in upper 3 inches, increased moisture content at bottom, laminated bedding</p>   |
|                                  |             | 0.1       |                 | 48                | 10           |        | <p>BROWN SILTY SAND (SM), moist to wet, medium dense, fine, little fines</p>  |
|                                  |             | 0.7       |                 | 48                | 10           |        | <p>LIGHT BROWN SILTY SAND (SM), moist, dense to very dense, fine to medium, little fines, trace fine gravel, abundant red-orange mottling, 1/4 to 1/2-inch layer of orange staining (TILL-LIKE)</p>   |
|                                  |             | 0.1       |                 | 48                | 10           |        | <p>@ 10.8 feet: gray, moist to wet, fine to medium sand, little fines, sand and fines content varies in 2 to 4-inch zones, sand percentage decreases and fines percentage increases with depth</p> <p>@ 12 feet: trace coarse subrounded gravel, 6-inch wet layer</p>   |
|                                  |             |           |                 | 48                | 15           |        | <p>Bottom of boring @ 16 feet (refusal)</p>   |
|                                  |             |           |                 | 48                | 15           |        | <p>Temporary Well: 3/4" Sch. 40 PVC screen from 10-15 feet bgs with #2/12 Monterey sand annular fill from 9.5-15 feet bgs</p> <p>Water Sample: SB-7-12 at 1530</p> <p>Boring abandoned with hydrated bentonite chips</p>  |
|                                  |             |           |                 | 48                | 20           |        |   |

Project: Bethel Junction Phase II  
 Project Number: 1246.030.02  
 Site Location: Port Orchard, WA  
 Logged By: C. DeBoer  
 Sample Method: Continuous Direct-Push

Total Boring Depth: 16 feet  
 Diameter of Boring: 2.5 inches  
 Date Drilled: 6/12/15  
 Drilled By: ESN Northwest  
 Drill Method: Limited Access Geoprobe Direct-Push



| Completion Details               | Soil Sample ID | PID (ppm) | Sample Interval | Recovery (Inches) | Depth (Feet) | Symbol  | Lithologic Description   |
|----------------------------------|----------------|-----------|-----------------|-------------------|--------------|---|--|
| <p>Concrete</p> <p>Bentonite</p> | SB-8-0.5       | 0.4       |                 |                   | 0            |   | Concrete   |
|                                  |                |           |                 |                   | 42           |   | BROWN SAND (SP), moist, fine, few fines, orange mottling, 2-inch layer with trace fine gravel                |
|                                  |                |           |                 |                   |              |   | @ 2 feet: gray, silt clumps with rare orange staining, carbonized wood organics                              |
|                                  |                | SB-8-5    | 0.7             |                   |              | 5   | BROWN SILTY SAND (SM), moist, fine, little fines, abundant brown-orange staining, 2-inch gray layer          |
|                                  |                |           |                 |                   |              | 36  | DARK BROWN SAND (SP), moist, fine to coarse, few fines, trace coarse subrounded gravel, rare carbonized wood |
|                                  |                |           |                 |                   |              |   | @ 6.5 feet: gray, trace fines  |
|                                  |                |           |                 |                   |              |   | @ 6.8 feet: brown, fine sand, abundant orange staining, laminated bedding                                    |
|                                  |                |           |                 |                   |              |   | GRAY SILT (ML), moist to wet, few fine to coarse sand, abundant orange mottling                              |
|                                  |                | SB-8-10   | 0.5             |                   |              | 36  | BROWN SILTY SAND (SM), moist to wet, fine to medium, little fines, trace coarse subrounded gravel            |
|                                  |                |           |                 |                   |              | 10  | @ 9.5 feet: wet  |
|                                  |                |           |                 |                   |              | @ 10 feet: blue-gray, moist, abundant large dark red-orange mottling at boundary with above layer                     |  |
|                                  |                |           |                 |                   |              | @ 10.5 feet: ovoid silt clumps  |  |
|                                  |                |           |                 |                   |              | Bottom of boring @ 11 feet (refusal)  |  |
|                                  |                |           |                 |                   |              | Temporary Well: 3/4" Sch. 40 PVC screen from 6-11 feet bgs with #2/12 Monterey sand annular fill from 5.5-11 feet bgs |  |
|                                  |                |           |                 |                   |              | Water Sample: SB-8-9 at 1410  |  |
|                                  |                |           |                 |                   |              | Boring abandoned with hydrated bentonite chips  |  |
|                                  |                |           |                 |                   | 15           |   |  |
|                                  |                |           |                 |                   | 20           |   |  |

Project: Bethel Junction Phase II  
 Project Number: 1246.030.02  
 Site Location: Port Orchard, WA  
 Logged By: C. DeBoer  
 Notes:

Total Boring Depth: 11 feet  
 Diameter of Boring: 2.5 inches  
 Date Drilled: 6/12/15  
 Drilled By: ESN Northwest  
 Drill Method: Limited Access Geoprobe Direct-Push



| Completion Details | Sample ID | PID (ppm) | Sample Interval | Recovery (Inches) | Depth (Feet) | Symbol | Lithologic Description  |
|--------------------|-----------|-----------|-----------------|-------------------|--------------|--------|---|
| Concrete           | SB-9-0.5  |           |                 |                   | 0            |        | Concrete  |
|                    |           |           |                 |                   | 26           |        | BROWN SAND (SP), moist, fine, few fines, trace fine to coarse subrounded to rounded gravel, occasional platy silt clumps, abundant orange to brown staining, laminated bedding, increasing percentage of gravel at the bottom |
|                    | SB-9-5    | 0.3       |                 |                   | 5            |        | @ 4.5 feet: fine to coarse sand, few gravel<br>@ 5 feet: gray to dark gray, few to little fine to coarse gravel, few to little fines<br>@ 5.6 feet: gray-brown, few gravel, trace wood organics                               |
|                    |           |           |                 |                   | 42           |        |   |
| Bentonite          |           | 0.2       |                 |                   |              |        | GRAY SILTY SAND (SM), moist, fine, some fines, abundant orange staining<br>@ 7.6 feet: little fines<br>@ 8.5 feet: brown, wet, fine to medium sand  |
|                    | SB-9-9    | 0.2       |                 |                   | 48           |        | @ 9.5 feet: blue-gray, moist, dark gray silt clumps, increasing dark gray with depth  |
|                    |           |           |                 |                   | 10           |        |   |
|                    |           | 0.2       |                 |                   |              |        |   |
|                    |           |           |                 |                   | 24           |        |   |
|                    |           | 0.1       |                 |                   |              |        |   |
|                    |           |           |                 |                   | 15           |        | Bottom of boring @ 14 feet (refusal)<br>Boring abandoned with hydrated bentonite chips  |
|                    |           |           |                 |                   | 20           |        |   |

Project: Bethel Junction Phase II  
 Project Number: 1246.030.02  
 Site Location: Port Orchard, WA  
 Logged By: C. DeBoer  
 Sample Method: Continuous Direct-Push

Total Boring Depth: 14 feet  
 Diameter of Boring: 2.5 inches  
 Date Drilled: 6/12/15  
 Drilled By: ESN Northwest  
 Drill Method: Limited Access Geoprobe Direct-Push



| Completion Details               | Sample ID                                       | PID (ppm)   | Sample Interval | Recovery (Inches)   | Depth (Feet)                                    | Symbol | Lithologic Description  |
|----------------------------------|---|---|-----------------|---|---|--------|---|
| <p>Concrete</p> <p>Bentonite</p> | <p>SB-10-0.5</p> <p>SB-10-3</p> <p>SB-10-10</p> | <p>2.3</p> <p>1.5</p> <p>1.3</p> <p>1.5</p> <p>1.2</p> <p>1.3</p> <p>0.5</p> <p>0.3</p> |                 | <p>18</p> <p>36</p> <p>5</p> <p>36</p> <p>10</p> <p>42</p> <p>κ</p> | <p>0</p> <p>5</p> <p>10</p> <p>15</p> <p>20</p> |        | <p>Concrete</p> <p>BROWN SAND (SP), moist, fine, few fines, trace fine to coarse subrounded to rounded gravel</p> <p>@ 1 foot: higher percentage of fines<br/>@ 1.3 feet: gray</p> <p>@ 3 feet: brown, fine to medium sand, few to little fines, occasional red-orange staining</p> <p>GRAY SILTY SAND (SM), moist, fine to medium, little fines, trace gravel, silt clumps</p> <p>@ 4.2 feet: brown</p> <p>@ 6 feet: gray, fine sand</p> <p>@ 8 feet: wet</p> <p>@ 10 feet: gray-brown, loose, fine to medium sand, some fines, wood and root organics</p> <p>@ 12 feet: gray to dark gray, moist, medium dense to dense, little fines</p> <p>Bottom of boring @ 14 feet</p> <p>Temporary Well: 3/4" Sch. 40 PVC screen from 9-14 feet bgs with #2/12 Monterey sand annular fill from 8.5-14 feet bgs<br/>Water Sample: SB-10-W at 1410<br/>Boring abandoned with hydrated bentonite chips</p> |

Project: Bethel Junction Phase II  
 Project Number: 1246.030.02  
 Site Location: Port Orchard, WA  
 Logged By: C. DeBoer  
 Sample Method: ContinuousDirect-Push

Total Boring Depth: 14 feet  
 Diameter of Boring: 2.5 inches  
 Date Drilled: 6/25/15  
 Drilled By: ESN Northwest  
 Drill Method: Limited Access Geoprobe Direct-Push



| Completion Details | Soil Sample ID      | PID (ppm) | Sample Interval | Recovery (Inches) | Depth (Feet) | Symbol | Lithologic Description  |
|--------------------|---------------------|-----------|-----------------|-------------------|--------------|--------|---|
| Concrete           | SB-11-0.5           | 453       |                 |                   | 0            |        | Concrete  |
|                    | SB-11-2<br>SB-11-2D | 952       |                 | 38                |              |        | BROWN SAND (SP), moist, fine, few fines, trace fine to coarse subrounded to rounded gravel  |
|                    |                     | 723       |                 |                   |              |        | GRAY SAND (SP), moist, fine, few to little fines, trace fine gravel, rare red staining, occasional platy silt clumps, 2-inch layer of silty sand  |
|                    |                     | 229       |                 |                   |              |        | @ 4 feet: few fines   |
|                    |                     | 517       |                 |                   | 5            |        |   |
|                    |                     | 132       |                 |                   |              |        | @ 6.2 feet: brown, medium sand<br>@ 6.6 feet: 2-inch layer of dark brown sandy silt, fine sand, abundant root organics<br>@ 6.8 feet: light brown, trace fines, no gravel   |
| Bentonite          | SB-11-9             | 79.4      |                 |                   |              |        | @ 8 feet: gray, trace fines, no gravel  |
|                    |                     | 59.1      |                 | 48                |              |        | ORANGE-GRAY MOTTLED SANDY SILT (ML), some fine sand, trace fine gravel  |
|                    |                     | 30.9      |                 |                   |              |        | BROWN SILTY SAND (SM), moist, fine to coarse, little fines, trace gravel,<br>@ 9.4 feet: 2-inch wet layer   |
|                    |                     | 5.6       |                 |                   |              |        | BROWN SAND (SP), moist, fine, trace gravel  |
|                    |                     | 36.9      |                 |                   |              |        | GRAY SILTY SAND (SM), moist, fine, some fines, trace fine to coarse gravel, 1 to 2-inch wet zones<br>@ 14 feet: dark gray   |
|                    |                     |           |                 |                   | 15           |        | Bottom of boring @ 15 feet (refusal)<br><br>Temporary Well: 3/4" Sch. 40 PVC screen from 10-15 feet bgs with #2/12 Monterey sand annular fill from 9.5-15 feet bgs<br>Water Sample: SB-11-W at 1400<br>Boring abandoned with hydrated bentonite chips |
|                    |                     |           |                 |                   | 20           |        |   |

Project: Bethel Junction Phase II  
 Project Number: 1246.030.02  
 Site Location: Port Orchard, WA  
 Logged By: C. DeBoer  
 Notes:

Total Boring Depth: 15 feet  
 Diameter of Boring: 2.5 inches  
 Date Drilled: 6/25/15  
 Drilled By: ESN Northwest  
 Drill Method: Limited Access Geoprobe Direct-Push



| Completion Details               | Soil Sample ID | PID (ppm) | Sample Interval | Recovery (Inches) | Depth (Feet) | Symbol | Lithologic Description  |  |
|----------------------------------|----------------|-----------|-----------------|-------------------|--------------|--------|---|--|
| <p>Concrete</p> <p>Bentonite</p> | SB-12-0.5      | 4.0       |                 |                   | 0            |        | Concrete  |  |
|                                  |                | 4.5       |                 |                   |              |        | BROWN SAND (SP), moist, fine, trace fines   |  |
|                                  |                | 8.8       |                 | 42                |              |        | BROWN SILTY SAND (SM), moist, fine, little fines, trace fine to coarse subrounded to rounded gravel, wood organics<br>@ 1.8 feet: gray, occasional platy silt clumps        |  |
|                                  | SB-12-3        |           |                 |                   |              |        | BROWN SAND WITH GRAVEL (SP), moist, fine to medium, little fine to coarse subrounded to rounded gravel, few fines<br>@ 4 feet: gray, trace gravel, interbeds of little silt |  |
|                                  |                | 5.3       |                 |                   | 5            |        | @ 5.5 feet: moist to wet  |  |
|                                  |                |           |                 | 24                |              |        |   |  |
|                                  |                | 3.6       |                 |                   |              |        | GRAY SILTY SAND (SM), moist to wet, loose to dense, fine to medium, little fines, trace fine to coarse subrounded to rounded gravel, rare root organics<br>@ 9 feet: wet    |  |
|                                  | SB-12-9        |           |                 |                   |              |        |   |  |
|                                  |                | 4.1       |                 |                   | 30           | 10     |   |  |
|                                  |                | 4.0       |                 |                   |              |        | @ 12 feet: brown, loose, fine sand  |  |
|                                  |                |           |                 | 24                |              |        | @ 12.8 feet: gray, medium dense to dense  |  |
|                                  |                | 3.0       |                 |                   |              |        |   |  |
|                                  |                |           |                 |                   |              | 15     |   | Bottom of boring @ 14 feet (refusal)<br>Boring abandoned with hydrated bentonite chips |
|                                  |                |           |                 |                   |              | 20     |   |  |

Project: Bethel Junction Phase II  
 Project Number: 1246.030.02  
 Site Location: Port Orchard, WA  
 Logged By: C. DeBoer  
 Notes:

Total Boring Depth: 14 feet  
 Diameter of Boring: 2.5 inches  
 Date Drilled: 6/25/15  
 Drilled By: ESN Northwest  
 Drill Method: Limited Access Geoprobe Direct-Push



| Completion Details               | Sample ID                                      | PID (ppm)  | Sample Interval                        | Recovery (inches)                      | Depth (Feet)                                    | Symbol | Lithologic Description   |
|----------------------------------|--|--|--|--|---|--------|--|
| <p>Concrete</p> <p>Bentonite</p> | <p>SB-13-0.5</p> <p>SB-11-3</p> <p>SB-13-9</p> | <p>1.2</p> <p>1.9</p> <p>0.0</p> <p>2.1</p> <p>1.2</p> <p>1.3</p> <p>1.1</p> <p>0.0</p> <p>0.5</p> | <p>36</p> <p>5</p> <p>30</p> <p>30</p> | <p>36</p> <p>5</p> <p>30</p> <p>30</p> | <p>0</p> <p>5</p> <p>10</p> <p>15</p> <p>20</p> |        | <p>Concrete</p> <p>BROWN SILTY SAND (SM), moist, fine, little fines, trace fine to coarse subrounded to rounded gravel, 3-inch layer of brown sand</p> <p>@ 1 foot: gray</p> <p>@ 2.4 feet: pulverized rock</p> <p>@ 6.2 feet: 2-inch blue-gray silt</p> <p>BROWN SANDY SILT (ML), moist to wet, loose to very loose, some fine to medium sand, root organics</p> <p>GRAY SILTY SAND (SM), moist to wet, loose to dense, fine to medium, little fines, trace fine to coarse subrounded to rounded gravel, rare root organics</p> <p>GRAY SILTY SAND (SM), moist, fine, some fines, trace fine to coarse gravel, 1 to 2-inch wet zones</p> <p>Bottom of boring @ 15 feet (refusal)</p> <p>Temporary Well: 3/4" Sch. 40 PVC screen from 10-15 feet bgs with #2/12 Monterey sand annular fill from 9.5-15 feet bgs</p> <p>Water Sample: SB-13-W at 1520</p> <p>Boring abandoned with hydrated bentonite chips</p> |

Project: Bethel Junction Phase II  
 Project Number: 1246.030.02  
 Site Location: Port Orchard, WA  
 Logged By: C. DeBoer  
 Sample Method: Continuous Direct-Push

Total Boring Depth: 15 feet  
 Diameter of Boring: 2.5 inches  
 Date Drilled: 6/25/15  
 Drilled By: ESN Northwest  
 Drill Method: Limited Access Geoprobe Direct-Push





| Completion Details               | Sample ID | PID (ppm) | Sample Interval | Recovery (Inches) | Depth (Feet) | Symbol | Lithologic Description  |
|----------------------------------|-----------|-----------|-----------------|-------------------|--------------|--------|---|
| <p>Concrete</p> <p>Bentonite</p> | SB-17-0.5 | 6.1       |                 |                   | 0            |        | Concrete  |
|                                  |           | 8.3       |                 | 36                |              |        | BROWN SILTY SAND (SM), moist, fine to medium, little fines, trace fine to coarse subrounded to rounded gravel, orange staining, silt clumps, rare wood organics<br><br>@ 1.4 feet: gray<br><br>@ 2.7 feet: brown, orange mottling |
|                                  | SB-17-3   | 8.1       |                 |                   |              |        |   |
|                                  |           | 7.5       |                 | 5                 |              |        |   |
|                                  | SB-17-6   | 2.7       |                 | 30                |              |        | @ 5.5 feet: 4-inches brown medium sand layer<br>@ 5.8 feet: gray silty sand, orange staining, 1/4 to 1/2-inch wood organics   |
|                                  | 1.5       |           |                 |                   |              |        | GRAY-BLUE SILTY SAND (SM), moist to wet, fine to medium, little fines, trace fine to coarse subrounded to rounded gravel, rare wood organics<br><br>@ 9.8 feet: denser<br>@ 10.2 feet: orange stained layer, moist                |
|                                  | 3.1       |           |                 |                   | 10           |        |   |
|                                  | 0.9       |           |                 |                   | 12           |        | Bottom of boring @ 13 feet (refusal)<br>Boring abandoned with hydrated bentonite chips  |
|                                  |           |           |                 |                   | 15           |        |   |
|                                  |           |           |                 |                   | 20           |        |   |

Project: Bethel Junction Phase II  
 Project Number: 1246.030.02  
 Site Location: Port Orchard, WA  
 Logged By: C. DeBoer  
 Sample Method: Continuous Direct-Push

Total Boring Depth: 13 feet  
 Diameter of Boring: 2.5 inches  
 Date Drilled: 7/9/15  
 Drilled By: ESN Northwest  
 Drill Method: Limited Access Geoprobe Direct-Push



| Completion Details               | Sample ID                 | PID (ppm) | Sample Interval | Recovery (Inches) | Depth (Feet) | Symbol | Lithologic Description   |
|----------------------------------|---------------------------|-----------|-----------------|-------------------|--------------|--------|--|
| <p>Concrete</p> <p>Bentonite</p> | SB-15-0.5                 | 3.5       |                 |                   | 0            |        | Concrete   |
|                                  |                           |           |                 |                   | 48           |        | BROWN SAND (SP), moist, fine to medium, few fines<br><br>BROWN SILTY SAND (SM), moist, fine to medium, little fines, trace fine to coarse subrounded to rounded gravel, orange staining<br><br>@ 1.5 feet: gray, silt clumps, trace carbonized organics<br>@ 2.8 feet: 2-inch dark gray silt layer |
|                                  | SB-15-3                   | 11.3      |                 |                   | 42           |        | BROWN SILTY SAND (SM), moist, fine, little fines, trace fine to coarse subrounded to rounded gravel  |
|                                  | SB-15-6                   | 57.1      |                 |                   | 30           | 10     | GRAY SILTY SAND (SM), moist, fine to medium, little fines, trace fine to coarse subrounded to rounded gravel, platy silt clumps, trace root organics<br><br>@ 9.7 feet: dark gray, abundant orange staining<br>@ 10 feet: light gray, no staining  |
|                                  | SB-15-10.5<br>SB-15-10.5D | 228       |                 |                   | 36           | 15     | @ 14.1 feet: wet, loose  |
|                                  |                           |           |                 |                   | K            |        |  |
|                                  |                           |           |                 |                   | 3.0          |        |  |
|                                  |                           |           |                 |                   | 5.3          |        |  |
|                                  |                           |           |                 |                   |              |        |  |
|                                  |                           |           |                 |                   |              | 20     | Bottom of boring @ 15.5 feet (refusal)<br><br>Temporary Well: 3/4" Sch. 40 PVC screen from 10.5-15.5 feet bgs with #2/12 Monterey sand annular fill from 10-15.5 feet bgs<br>Water Sample: SB-15-W at 1400<br>Boring abandoned with hydrated bentonite chips                                       |

Project: Bethel Junction Phase II  
 Project Number: 1246.030.02  
 Site Location: Port Orchard, WA  
 Logged By: C. DeBoer  
 Sample Method: Continuous Direct-Push

Total Boring Depth: 15.5 feet  
 Diameter of Boring: 2.5 inches  
 Date Drilled: 7/9/15  
 Drilled By: ESN Northwest  
 Drill Method: Limited Access Geoprobe Direct-Push



| Completion Details               | Sample ID | PID (ppm) | Sample Interval | Recovery (Inches) | Depth (Feet) | Symbol | Lithologic Description   |
|----------------------------------|-----------|-----------|-----------------|-------------------|--------------|--------|--|
| <p>Concrete</p> <p>Bentonite</p> | SB-16-0.5 | 1.7       |                 |                   | 0            |        | Concrete   |
|                                  |           |           |                 |                   |              |        | BROWN SAND (SP), moist, fine to medium, few fines  |
|                                  |           |           | 4.7             |                   | 48           |        | BROWN SILTY SAND (SM), moist, fine to medium, little fines, trace fine to coarse subrounded to rounded gravel, orange staining                 |
|                                  | SB-16-3   | 4.8       |                 |                   |              |        | @ 1.5 feet: gray, silt clumps<br>@ 2.8 feet: 2-inch dark brown silt layer  |
|                                  |           |           | 5.2             |                   | 5            |        | BROWN SILTY SAND (SM), moist, fine to medium, little fines, trace fine to coarse subrounded to rounded gravel, abundant orange-red staining    |
|                                  | SB-16-6   | 5.1       |                 | 48                |              |        |  |
|                                  |           |           | 11.8            |                   | 30           |        | DARK GRAY SAND (SP), moist, fine to medium, few fines  |
|                                  | SB-16-9   | 15        |                 |                   | 10           |        | @ 9 feet: 2 to 3-inch rounded gravel   |
|                                  |           |           | 9.8             |                   | 36           |        | GRAY SILTY SAND (SM), moist, fine to medium, little fines, trace fine to coarse subrounded to rounded gravel                                   |
|                                  |           |           | 10.5            |                   | 15           |        | @ 12 feet: 2 to 4-inch layers with increased fine gravel content<br><br>@ 13.5 feet: moist to wet<br>@ 14 feet: denser, lower moisture content |
|                                  |           |           |                 |                   | 15           |        | Bottom of boring @ 15 feet (refusal)<br>Boring abandoned with hydrated bentonite chips   |
|                                  |           |           |                 |                   | 20           |        |  |

Project: Bethel Junction Phase II  
 Project Number: 1246.030.02  
 Site Location: Port Orchard, WA  
 Logged By: C. DeBoer  
 Sample Method: Continuous Direct-Push

Total Boring Depth: 15 feet  
 Diameter of Boring: 2.5 inches  
 Date Drilled: 7/9/15  
 Drilled By: ESN Northwest  
 Drill Method: Limited Access Geoprobe Direct-Push



| Completion Details               | Sample ID | PID (ppm) | Sample Interval | Recovery (Inches) | Depth (Feet) | Symbol | Lithologic Description   |
|----------------------------------|-----------|-----------|-----------------|-------------------|--------------|--------|--|
| <p>Concrete</p> <p>Bentonite</p> | SB-17-0.5 | 18.2      |                 |                   | 0            |        | Concrete   |
|                                  |           |           |                 |                   |              |        | BROWN SAND (SP), moist, fine to medium, few fines  |
|                                  | SB-17-3   | 14.3      |                 |                   | 48           |        | BROWN SILTY SAND (SM), moist, fine to medium, little fines, trace fine to coarse subrounded to rounded gravel, orange staining, silt clumps, rare wood organics  |
|                                  |           |           |                 |                   |              |        | @ 5.5 feet: dark red staining, frequent root organics  |
|                                  | SB-17-6   | 13.1      |                 |                   | 5            |        | BROWN SAND (SP), moist, medium, few fine to coarse gravel, trace fines   |
|                                  |           |           |                 |                   |              |        | @ 6.3 feet: fine to coarse sand, few fines   |
|                                  |           |           |                 |                   |              |        | @ 9 feet: fine sand, orange-brown staining, carbonized wood  |
|                                  | SB-17-9   | 13.0      |                 |                   | 42           |        | GRAY SILTY SAND (SM), moist, fine to medium, little fines, trace fine to coarse subrounded to rounded gravel, occasional orange staining   |
|                                  |           |           |                 |                   |              |        | @ 9.6 feet: wet  |
|                                  |           |           |                 |                   |              |        | @ 11.2 feet: no staining, fine sand  |
|                                  |           |           |                 |                   | 10           |        | Bottom of boring @ 14 feet (refusal)   |
|                                  |           |           |                 |                   | 15           |        | Temporary Well: 3/4" Sch. 40 PVC screen from 9-14 feet bgs with #2/12 Monterey sand annular fill from 8.5-14 feet bgs<br>Water Sample: SB-17-W at 1445<br>Boring abandoned with hydrated bentonite chips |
|                                  |           |           |                 |                   | 20           |        |  |

Project: Bethel Junction Phase II  
 Project Number: 1246.030.02  
 Site Location: Port Orchard, WA  
 Logged By: C. DeBoer  
 Sample Method: Continuous Direct-Push

Total Boring Depth: 14 feet  
 Diameter of Boring: 2.5 inches  
 Date Drilled: 7/9/15  
 Drilled By: ESN Northwest  
 Drill Method: Limited Access Geoprobe Direct-Push

**ATTACHMENT B**  
**CERTIFICATE OF DISPOSAL**



# **WASTE MANAGEMENT**

December 23, 2015

Gerrity Atlantic Retail Partners II, Inc.  
3377 Bethel Road SE, Suite 103  
Port Orchard, Washington 98366

## **CERTIFICATE OF DISPOSAL**

Waste Management, Inc. dba Greater Wenatchee Regional Landfill has received Contained in Soils for disposal at Greater Wenatchee Regional Landfill.

|                           |                           |
|---------------------------|---------------------------|
| <b>Dates of Disposed:</b> | <b>August 19, 2015</b>    |
| <b>Profile #:</b>         | <b>110326WA</b>           |
| <b>Total Tons:</b>        | <b>7.64</b>               |
| <b>Waste Type:</b>        | <b>Contained in Soils</b> |

I certify, on behalf of the above listed facility, that the above-described waste was managed in compliance with all applicable laws.

*K. Castner*

Kristin Castner  
Waste Management  
Waste Approvals Manager – PNW

**ATTACHMENT C**

**FIELD SAMPLING FORMS AND BUILDING SURVEY FORM**

# PES GROUNDWATER SAMPLING PROTOCOLS

|   |                                |
|---|--------------------------------|
| <b>Facility:</b> <i>Bethel Junction Phosphate</i> | <b>Well I.D.:</b> <i>SB-10</i> |
| <b>Project No.:</b> <i>1246-03a-02</i>            | <b>Date:</b> <i>6/25/15</i>    |

**Site Description**    Monitoring Well    Extraction Well    Borehole    Spring/Creek    Pond/Lagoon    Outfall    Other: *temp*

Air Temp: *70's*    °C    °F   Weather: *windy*

Well Locked?    yes    no   Damaged/Repairs Needed:

TOC    MP   Description of MP (e.g., well monument at grade surface):

TOC/MP Stickup:    ft    m   above/below ground   Well Inside Diameter (ID):    2-inch    4-inch   Other: *3/4"*

**Water Level Data**   Measurement Units:    ft    m

| <input checked="" type="checkbox"/> E-Tape, # <i>244244</i><br><input type="checkbox"/> Steel Tape <input type="checkbox"/> Other | Pre-Purge <sup>1</sup><br>Initial | Pre-Purge <sup>2</sup><br>Confirmation | Purging<br>Start | During<br>Purging | Purging<br>End | After<br>Sampling | Remarks |
|---|-----------------------------------|--|------------------|-------------------|----------------|-------------------|---------|
| Time (hh:mm; 24-hr clock)   | ---                               | ---                                    |                  |                   |                |                   |         |
| Depth to Water  |                                   |  |                  |                   |                |                   |         |
| Depth to Bottom   |                                   |  |                  |                   |                |                   |         |
| Water Level (WL)  |                                   |  |                  |                   |                |                   |         |
| Product Thickness   |                                   |  |                  |                   |                |                   |         |
| Product Recovery<br><input type="checkbox"/> gallons <input type="checkbox"/> liters  |                                   |  |                  |                   |                |                   |         |

<sup>1</sup>First round of water levels; <sup>2</sup>Water level prior to purging

**Field Water Quality Data**   Purge Depth:    Top    Mid    Bottom    Grab    Bailer    Pump   Description: *Peri*

Casing Volume: [\_\_\_\_(TD) - \_\_\_\_ (WL)] • [\_\_\_\_ (Well ID)]<sup>2</sup> • [\_\_\_\_ (Conversion Factor)] = \_\_\_\_    gal    liters  
 Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Dry While Purging  

| Cumulative Vol. Purged (Liters)   | Depth to Water      | Time (hh:mm) | pH (Temp. Corrected? <input type="checkbox"/> ) | Conductivity <input type="checkbox"/> SC <input type="checkbox"/> EC (µS/cm) | Temp <input type="checkbox"/> °C <input type="checkbox"/> °F | D. O (mg/L) | ORP (mV) | Turbidity <input type="checkbox"/> NTU |
|---|---------------------|--------------|---|--|--|-------------|----------|--|
| <p><i>• No parameters collected due to low recharge rate.</i></p> <p><i>• Pumped dry after 2.5 40ml <sup>VOA</sup> VOA's. Let sit 45 min re-collected a 3<sup>rd</sup> VOA (discarded the water &amp; bottle from the 1/2 VOA) marked the 3<sup>rd</sup> VOA as "use last" for lab.</i></p> |                     |              |   |  |  |             |          |  |
| Pump Rate (ml/min)  | <i>50-80 ml/min</i> |              | Color/Tint/Odor                                 |  |  |             |          |  |
| Meter Used  | <i>gray cloudy</i>  |              |   |  |  |             |          |  |

**Sample Data**   Sample Depth: *13-13.5'*    Grab    Bailer    Pump   Description: *Peri Pump.*

| Field Sample ID (unique ID on bottles) | Result Code | Date (m/d/y)   | Time (hh:mm) | # of Bottles (total to lab) | Metals Filtered | Bottles (type) | Preservative | Notes                            |
|--|-------------|----------------|--------------|-----------------------------|-----------------|----------------|--------------|----------------------------------|
| <i>SB-10-W</i>                         | <i>PO</i>   | <i>6/25/15</i> | <i>1110</i>  | <i>3</i>                    | <i>Y N</i>      | <i>VOA</i>     | <i>Ⓟ N</i>   | <i>went dry during sampling.</i> |
|  |             |                |              |                             | <i>Y N</i>      |                | <i>Y N</i>   |                                  |
|  |             |                |              |                             | <i>Y N</i>      |                | <i>Y N</i>   |                                  |

Sampler's Name (print) *Chris DeBoer*   Signature *Chris DeBoer*



# PES GROUNDWATER SAMPLING PROTOCOLS

|  |                                       |
|--|---------------------------------------|
| <b>Facility:</b> <u>Behl Junction Phase II</u> | <b>Well I.D.:</b> <u>SB-4 = SB-11</u> |
| <b>Project No.:</b> <u>1246.030.02</u>         | <b>Date:</b> <u>6/25/15</u>           |

**Site Description**    Monitoring Well    Extraction Well    Borehole    Spring/Creek    Pond/Lagoon    Outfall    Other: temp

Air Temp: 70's    °C    °F   Weather: indoors

Well Locked?    yes    no   Damaged/Repairs Needed:

TOC    MP   Description of MP (e.g., well monument at grade surface):

TOC/MP Stickup:    ft    m   above/below ground   Well Inside Diameter (ID):    2-inch    4-inch   Other: 3/4"

**Water Level Data**   Measurement Units:    ft    m

| <input checked="" type="checkbox"/> E-Tape, # <u>224244</u><br><input type="checkbox"/> Steel Tape <input type="checkbox"/> Other | Pre-Purge Initial | Pre-Purge Confirmation | Purging Start | During Purging | Purging End | After Sampling | Remarks |
|---|-------------------|------------------------|---------------|----------------|-------------|----------------|---------|
| Time (hh:mm, 24-hr clock)   | <u>49:00</u>      |                        |               |                |             | <u>1423</u>    |         |
| Depth to Water  |                   |                        |               |                |             | <u>13.25</u>   |         |
| Depth to Bottom   |                   |                        |               |                |             |                |         |
| Water Level (WL)  |                   |                        |               |                |             |                |         |
| Product Thickness   |                   |                        |               |                |             |                |         |
| Product Recovery<br><input type="checkbox"/> gallons <input type="checkbox"/> liters  |                   |                        |               |                |             |                |         |

<sup>1</sup>First round of water levels; <sup>2</sup>Water level prior to purging

**Field Water Quality Data**   Purge Depth:    Top    Mid    Bottom    Grab    Bailer    Pump   Description: Peri

| Cumulative Vol. Purged (Liters)  | Depth to Water     | Time (hh:mm) | pH (Temp. Corrected? <input type="checkbox"/> ) | Conductivity <input type="checkbox"/> SC <input type="checkbox"/> EC (µS/cm) | Temp °C   °F | D. O (mg/L) | ORP (mV)      | Turbidity <input type="checkbox"/> NTU |
|--|--------------------|--------------|---|--|--------------|-------------|---------------|--|
|  | <u>NM</u>          | <u>12:14</u> | <u>6.37</u>                                     | <u>10</u>  | <u>30.4</u>  | <u>3.14</u> | <u>-69.5</u>  | <u>-</u>                               |
|  | ↓                  | <u>12:17</u> | <u>6.81</u>                                     | <u>856</u>   | <u>23.6</u>  | <u>1.63</u> | <u>-109.9</u> | <u>21000</u>                           |
|  | ↓                  | <u>12:20</u> | <u>6.83</u>                                     | <u>871</u>   | <u>20.3</u>  | <u>0.73</u> | <u>-171.4</u> | <u>-</u>                               |
|  | ↓                  | <u>12:23</u> | <u>6.81</u>                                     | <u>865</u>   | <u>20.6</u>  | <u>0.52</u> | <u>-273.3</u> | <u>21,000 close</u>                    |
| <u>&lt;1L</u>  | <u>ATL</u>         | <u>12:26</u> | <u>6.80</u>                                     | <u>866</u>   | <u>20.4</u>  | <u>-</u>    | <u>-333.1</u> | <u>dry</u>                             |
| <u>Pumped Dry, let recharge.</u>   |                    |              |   |  |              |             |               |  |
|  |                    | <u>14:00</u> |   |  |              |             |               | <u>at sampling 385</u>                 |
| <u>Pumped Dry after VOAs, during HOPE water filtering for fluoride analysis.</u> |                    |              |   |  |              |             |               |  |
| Pump Rate (ml/min)   | <u>50-80</u>       |              | Color/Tint/Odor <u>cloudy</u>                   |  |              |             |               |  |
| Meter Used   | <u>YSI ProPlus</u> |              |   |  |              |             |               |  |

**Sample Data**   Sample Depth: 14-14.5'    Grab    Bailer    Pump   Description: Peri

| Field Sample ID (unique ID on bottles) | Result Code | Date (m/d/y)   | Time (hh:mm) | # of Bottles (total to lab) | Metals Filtered | Bottles (type) | Preservative | Notes               |
|--|-------------|----------------|--------------|-----------------------------|-----------------|----------------|--------------|---------------------|
| <u>SB-11-W</u>                         | <u>P0</u>   | <u>6/25/15</u> | <u>1400</u>  | <u>3</u>                    | <u>Y N</u>      | <u>VOA</u>     | <u>Y N</u>   | <u>HCl</u>          |
| <u>SB-11-W</u>                         |             | <u>6/25/15</u> | <u>1400</u>  | <u>1</u>                    | <u>Y N</u>      | <u>HOPE</u>    | <u>Y N</u>   | <u>for fluoride</u> |
|  |             |                |              |                             | <u>Y N</u>      |                | <u>Y N</u>   |                     |

Sampler's Name (print) Chris Deber   Signature Chris Deber

## PES GROUNDWATER SAMPLING PROTOCOLS

|  |                                |
|--|--------------------------------|
| <b>Facility:</b> <u>Bethel Junction Phase II</u> | <b>Well I.D.:</b> <u>SB-13</u> |
| <b>Project No.:</b> <u>1246.030.02</u>           | <b>Date:</b> <u>6/25/15</u>    |

**Site Description**    Monitoring Well    Extraction Well    Borehole    Spring/Creek    Pond/Lagoon    Outfall    Other: Temp

Air Temp: 70's    °C    °F   Weather: Indoors

Well Locked?    yes    no   Damaged/Repairs Needed:

TOC    MP   Description of MP (e.g., well monument at grade surface):

TOC/MP Stickup:    ft    m above/below ground   Well Inside Diameter (ID):    2-inch    4-inch   Other: 3/4"

**Water Level Data**   Measurement Units:    ft    m

| <input checked="" type="checkbox"/> E-Tape, # <u>984244</u><br><input type="checkbox"/> Steel Tape <input type="checkbox"/> Other | Pre-Purge Initial | Pre-Purge Confirmation | Purging Start | During Purging | Purging End | After Sampling | Remarks |
|---|-------------------|------------------------|---------------|----------------|-------------|----------------|---------|
| Time (hh:mm; 24-hr clock)   | <u>14:34</u>      |                        |               |                |             |                |         |
| Depth to Water  | <u>14.01</u>      |                        |               |                |             |                |         |
| Depth to Bottom   |                   |                        |               |                |             |                |         |
| Water Level (WL)  |                   |                        |               |                |             |                |         |
| Product Thickness   |                   |                        |               |                |             |                |         |
| Product Recovery<br><input type="checkbox"/> gallons <input type="checkbox"/> liters  |                   |                        |               |                |             |                |         |

\*First round of water levels; \*Water level prior to purging   pumped dry after ~.25L

**Field Water Quality Data**   Purge Depth:    Top    Mid    Bottom    Grab    Bailer    Pump   Description: Peri

Casing Volume: [\_\_\_\_(TD) - \_\_\_\_ (WL)] \* [\_\_\_\_ (Well ID)]<sup>2</sup> \* [\_\_\_\_ (Conversion Factor)] = \_\_\_\_  gal    liters  
 Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Dry While Purging  

| Cumulative Vol. Purged (Liters)   | Depth to Water | Time (hh:mm) | pH (Temp. Corrected? <input type="checkbox"/> ) | Conductivity <input type="checkbox"/> SC <input type="checkbox"/> EC (µS/cm) | Temp <input type="checkbox"/> °C <input type="checkbox"/> °F | D. O (mg/L) | ORP (mV) | Turbidity <input type="checkbox"/> NTU |
|---|----------------|--------------|---|--|--|-------------|----------|--|
| <ul style="list-style-type: none"> <li>• No measurements collected due to low seepage rate.</li> <li>• Pumped dry after filling 2.5 VOA's, let sit. 45 min. Finished by re-collecting 3<sup>rd</sup> VOA. (partially filled VOA + water were discarded). 3<sup>rd</sup> VOA was wanted "one last" for lab.</li> </ul> |                |              |   |  |  |             |          |  |
| Pump Rate (ml/min) <u>50-80</u>   |                |              | Color/Tint/Odor                                 |  |  |             |          |  |
| Meter Used  |                |              |   |  |  |             |          |  |

**Sample Data**   Sample Depth: 13-13.5'    Grab    Bailer    Pump   Description: Peri

| Field Sample ID (unique ID on bottles) | Result Code | Date (m/d/y)   | Time (hh:mm) | # of Bottles (total to lab) | Metals Filtered                                       | Bottles (type) | Preservative                                 | Notes      |
|--|-------------|----------------|--------------|-----------------------------|---|----------------|--|------------|
| <u>SB-13-w</u>                         | <u>P0</u>   | <u>6/25/15</u> | <u>1520</u>  | <u>3</u>                    | <u>Y</u> <input checked="" type="checkbox"/> <u>N</u> | <u>VOA</u>     | <input checked="" type="checkbox"/> <u>N</u> | <u>Hex</u> |
|  |             |                |              |                             | <u>Y</u> <input type="checkbox"/> <u>N</u>            |                | <u>Y</u> <input type="checkbox"/> <u>N</u>   |            |
|  |             |                |              |                             | <u>Y</u> <input type="checkbox"/> <u>N</u>            |                | <u>Y</u> <input type="checkbox"/> <u>N</u>   |            |

Sampler's Name (print)   Chris DeBoer   Signature   Chris DeBoer

# PES GROUNDWATER SAMPLING PROTOCOLS

|   |                                |
|---|--------------------------------|
| <b>Facility:</b> <u>Bethel Junction</u> | <b>Well I.D.:</b> <u>SB-15</u> |
| <b>Project No.:</b> <u>1246.030.02</u>  | <b>Date:</b> <u>7-9-15</u>     |

**Site Description**    Monitoring Well    Extraction Well    Borehole    Spring/Creek    Pond/Lagoon    Outfall    Other: temp

Air Temp:    °C    °F   Weather: indoors

Well Locked?    yes    no   Damaged/Repairs Needed:

TOC    MP   Description of MP (e.g., well monument at grade surface):

TOC/MP Stickup:    ft    m   above/below ground   Well Inside Diameter (ID):    2-inch    4-inch   Other: 3/4"

**Water Level Data**   Measurement Units:    ft    m

| <input checked="" type="checkbox"/> E-Tape, # <u>1246030</u><br><input type="checkbox"/> Steel Tape <input type="checkbox"/> Other | Pre-Purge <sup>1</sup><br>Initial | Pre-Purge <sup>2</sup><br>Confirmation | Purging<br>Start | During<br>Purging | Purging<br>End | After<br>Sampling | Remarks |
|--|-----------------------------------|--|------------------|-------------------|----------------|-------------------|---------|
| Time (hh:mm; 24-hr clock)  | <u>12:53</u>                      |  |                  |                   |                |                   |         |
| Depth to Water   | <u>12.4</u>                       |  |                  |                   |                |                   |         |
| Depth to Bottom  |                                   |  |                  |                   |                |                   |         |
| Water Level (WL)   |                                   |  |                  |                   |                |                   |         |
| Product Thickness  |                                   |  |                  |                   |                |                   |         |
| Product Recovery<br><input type="checkbox"/> gallons <input type="checkbox"/> liters   |                                   |  |                  |                   |                |                   |         |

<sup>1</sup>First round of water levels; <sup>2</sup>Water level prior to purging

**Field Water Quality Data**   Purge Depth:    Top    Mid    Bottom    Grab    Bailer    Pump   Description: Peri

Casing Volume: [\_\_\_\_(TD) - \_\_\_\_ (WL)] \* [\_\_\_\_ (Well ID)] \* [\_\_\_\_ (Conversion Factor)] = \_\_\_\_  gal    liters  
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Dry While Purging  

| Cumulative Vol. Purged (Liters)                               | Depth to Water | Time (hh:mm) | pH (Temp. Corrected? <input type="checkbox"/> ) | Conductivity <input type="checkbox"/> SC <input type="checkbox"/> EC (µS/cm) | Temp <input type="checkbox"/> °C <input type="checkbox"/> °F | D. O (mg/L) | ORP (mV)     | Turbidity <input type="checkbox"/> NTU |
|---|----------------|--------------|---|--|--|-------------|--------------|--|
| <u>1</u>  |                | <u>13:17</u> | <u>6.23</u>                                     | <u>-100</u>  | <u>20.1</u>  | <u>3.27</u> | <u>-5.3</u>  | <u>1</u>                               |
| <u>800mL</u>  |                | <u>13:27</u> | <u>6.34</u>                                     | <u>-123</u>  | <u>20.2</u>  | <u>1.76</u> | <u>-7.8</u>  | <u>↓</u>                               |
| <u>890mL</u>  |                | <u>13:28</u> | <u>6.41</u>                                     | <u>-143</u>  | <u>20.2</u>  | <u>1.98</u> | <u>-13.2</u> | <u>7/1000</u>                          |
| <u>recharge monitoring measurements on back of this form.</u> |                |              |   |  |  |             |              |  |
| Pump Rate (ml/min) <u>50-80</u>                               |                |              | Color/Tint/Odor <u>gray / cloudy</u>            |  |  |             |              |  |
| Meter Used <u>YSI Pro Plus</u>                                |                |              |   |  |  |             |              |  |

**Sample Data**   Sample Depth: 14.5-15'    Grab    Bailer    Pump   Description: Peristaltic

| Field Sample ID (unique ID on bottles) | Result Code | Date (m/d/y)  | Time (hh:mm) | # of Bottles (total to lab) | Metals Filtered | Bottles (type) | Preservative | Notes |
|--|-------------|---------------|--------------|-----------------------------|-----------------|----------------|--------------|-------|
| <u>SB-15-W</u>                         | <u>P0</u>   | <u>7/9/15</u> | <u>1400</u>  | <u>4</u>                    | <u>Y N</u>      | <u>Ø N</u>     | <u>Ø N</u>   |       |
|  |             |               |              |                             | <u>Y N</u>      |                | <u>Y N</u>   |       |
|  |             |               |              |                             | <u>Y N</u>      |                | <u>Y N</u>   |       |

Sampler's Name (print)   Chris DeBoer   Signature   Chris DeBoer

# PES GROUNDWATER SAMPLING PROTOCOLS

|   |                                |
|---|--------------------------------|
| <b>Facility:</b> <u>Bethel Junction</u> | <b>Well I.D.:</b> <u>SB-17</u> |
| <b>Project No.:</b> <u>1246.030.02</u>  | <b>Date:</b> <u>7-9-15</u>     |

**Site Description**    Monitoring Well    Extraction Well    Borehole    Spring/Creek    Pond/Lagoon    Outfall    Other: temp

Air Temp:    °C    °F   Weather: indoor

Well Locked?    yes    no   Damaged/Repairs Needed:

TOC    MP   Description of MP (e.g., well monument at grade surface):

TOC/MP Stickup:    ft    m   above/below ground   Well Inside Diameter (ID):    2-inch    4-inch   Other: 3/4"

**Water Level Data**   Measurement Units:    ft    m

| <input checked="" type="checkbox"/> E-Tape, # <u>824244</u><br><input type="checkbox"/> Steel Tape <input type="checkbox"/> Other | Pre-Purge <sup>1</sup><br>Initial | Pre-Purge <sup>2</sup><br>Confirmation | Purging<br>Start | During<br>Purging | Purging<br>End | After<br>Sampling | Remarks |
|---|-----------------------------------|--|------------------|-------------------|----------------|-------------------|---------|
| Time (hh:mm, 24-hr clock)   | <u>14:00</u>                      |  |                  |                   |                |                   |         |
| Depth to Water  | <u>12.5</u>                       |  |                  |                   |                |                   |         |
| Depth to Bottom   |                                   |  |                  |                   |                |                   |         |
| Water Level (WL)  |                                   |  |                  |                   |                |                   |         |
| Product Thickness   |                                   |  |                  |                   |                |                   |         |
| Product Recovery<br><input type="checkbox"/> gallons <input type="checkbox"/> liters  |                                   |  |                  |                   |                |                   |         |

<sup>1</sup>First round of water levels; <sup>2</sup>Water level prior to purging

**Field Water Quality Data**   Purge Depth:    Top    Mid    Bottom    Grab    Bailer    Pump   Description:

Casing Volume: [\_\_\_\_(TD) - \_\_\_\_ (WL)] \* [\_\_\_\_ (Well ID)]<sup>2</sup> \* [\_\_\_\_ (Conversion Factor)] = \_\_\_\_    gal    liters  
 Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches   **Dry While Purging**  

| Cumulative Vol. Purged (Liters)   | Depth to Water | Time (hh:mm) | pH (Temp. Corrected? <input type="checkbox"/> ) | Conductivity<br><input type="checkbox"/> SC <input type="checkbox"/> EC<br>(µS/cm) | Temp<br>°C   °F | D. O (mg/L) | ORP (mV) | Turbidity<br><input type="checkbox"/> NTU |
|---|----------------|--------------|---|--|-----------------|-------------|----------|---|
| Parameters not measured due to low recharge rate<br>Well pumped dry when filling HOPE bottle. |                |              |   |  |                 |             |          |   |

Pump Rate (ml/min)   50-80   Color/Tint/Odor   brown / gray, cloudy  
 Meter Used

**Sample Data**   Sample Depth: 13-13.5'    Grab    Bailer    Pump   Description: Aristic

| Field Sample ID (unique ID on bottles) | Result Code | Date (m/d/y)  | Time (hh:mm) | # of Bottles (total to lab) | Metals Filtered | Bottles (type) | Preservative | Notes |
|--|-------------|---------------|--------------|-----------------------------|-----------------|----------------|--------------|-------|
| <u>SB-17-W</u>                         | <u>P0</u>   | <u>7/9/15</u> | <u>1445</u>  | <u>4</u>                    | <u>Y N</u>      | <u>VOA</u>     | <u>⊗ N</u>   |       |
|  |             |               |              |                             | <u>Y N</u>      | <u>HOPE</u>    | <u>Y (N)</u> |       |
|  |             |               |              |                             | <u>Y N</u>      |                | <u>Y N</u>   |       |

Sampler's Name (print)   Chris DeBoer   Signature   Chris DeBoer





# VAPOR INTRUSION BUILDING INSPECTION CHECKLIST

Property Name: Bethel Junction Project Number: 1246.030.02

Location/Suite: Former Hallmark Suite

**Provide Current Condition or Status of Interior of Tenant Space (e.g., occupied, vacant, interior walls or other structures). Attach Sketch.**

vacant @ <sup>three</sup> back rooms + large open front space, carpeted w/ drop ceiling.

## FLOORING AND SLAB

**Describe current floor covering(s) throughout the tenant space – note on sketch and photograph each type/area.**

carpet in the front room - linoleum in the three back rooms

**Where concrete slab is exposed, inspect for cracks, holes, presence of moisture, or other damage. Also, note any differences in floor elevations that may indicate differential settlement of the slab. Describe below and note locations on sketch and photograph.**

No indications of settling, slabs not visible, <sup>24" 10" x 8"</sup> rectangular excavation in slab in back room

**Note location and condition of any penetrations through slab, including gaps between the feather (e.g., pipe) and slab. Identify on sketch and photograph.**

**Plumbing (sinks, toilets, water supply):** toilet & sink in middle back room, some electrical pipe (concrete forms?) penetrations,

**Floor Drains/Sumps:** sewer clean out in bathroom

**Other utilities:** none seen.

**Internal Structural Connections (e.g., posts) or equipment bolted to floor:** bolts (4), in SE room

## WALLS, WALL/SLAB AND WALL/CEILING CONNECTIONS

Take photos of all connections and identify locations of gaps/issues on sketch.

### North Wall

Interior or Exterior Wall? Wall Construction and coating: Glass w/ metal framing

What is on other side of wall? front sidewalk

Wall penetrations (doors, windows, vents, utilities – including above drop ceilings): double doors that do have a crack between them. Front wall has CMU component in middle area (structural?) visible above drop ceiling

Describe connection of wall to building roof/ceiling (look above drop ceilings), noting any gaps, or openings. Make sure to document conditions at both ends of the wall (in the corners) and at least one location in the middle: no gaps seen. reflective cover over insulation prevents clear view

Describe connection of wall to slab/floor, noting whether concrete floor slab extends (or appears to extend) continuously beneath the wall or terminates against a footing or grade beam. Where edge or slab is observable inspect for gaps and document width of gaps. May need to pull back carpet to inspect. can't see slab, no footing (likely), sidewalk on other side

### West Wall

Interior or Exterior Wall? Wall Construction and coating: 2x6 framed drywall

What is on other side of wall? Dry Cleaner build

Wall penetrations (doors, windows, vents, utilities – including above drop ceilings): plumbing runs to the dry cleaner boiler goes through the wall, sprinkler water line run through the wall. Structural beam is E-W. If seen at east & west extent.

Describe connection of wall to building roof/ceiling (look above drop ceilings), noting any gaps, or openings. Make sure to document conditions at both ends of the wall (in the corners) and at least one location in the middle: no gaps seen. Reflective insulation obstructs view. Corners in photos.

Describe connection of wall to slab/floor, noting whether concrete floor slab extends (or appears to extend) continuously beneath the wall or terminates against a footing or grade beam. Where edge or slab is observable inspect for gaps and document width of gaps. May need to pull back carpet to inspect. grade beam likely (photo), slab not visible. Per facilities manager, continuous slab likely. no gaps visible, can't pull back carpet.



**South Wall**

Interior or Exterior Wall? Wall Construction and coating: not clear, dry wall inside, wood facade outside.

What is on other side of wall? back parking lot.

Wall penetrations (doors, windows, vents, utilities – including above drop ceilings): one pipe penetrates into the wall, but not airtight visible outside. Outside has to lights mounted into the wall above the 2 doors.

Describe connection of wall to building roof/ceiling (look above drop ceilings), noting any gaps, or openings. Make sure to document conditions at both ends of the wall (in the corners) and at least one location in the middle: no gaps visible, reflective covered insulation obstructs view.

Describe connection of wall to slab/floor, noting whether concrete floor slab extends (or appears to extend) continuously beneath the wall or terminates against a footing or grade beam. Where edge or slab is observable inspect for gaps and document width of gaps. May need to pull back carpet to inspect. appears to be grade beam, slab not visible, stairwalk on other side

**East Wall**

Interior or Exterior Wall? Wall Construction and coating: 2x6" framed drywall

What is on other side of wall? Big lots store

Wall penetrations (doors, windows, vents, utilities – including above drop ceilings): none seen structural beam?

Describe connection of wall to building roof/ceiling (look above drop ceilings), noting any gaps, or openings. Make sure to document conditions at both ends of the wall (in the corners) and at least one location in the middle: no gaps seen. chryslation obstructs view adjacent building is taller than assessed suite.

Describe connection of wall to slab/floor, noting whether concrete floor slab extends (or appears to extend) continuously beneath the wall or terminates against a footing or grade beam. Where edge or slab is observable inspect for gaps and document width of gaps. May need to pull back carpet to inspect. not visible unable to pull back carpet.

**HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) SYSTEMS**

Note location and number of HVAC Units: Two seen on roof

Does the HVAC System service more than one suite? no.

Note location and number of other vents (restroom/kitchen): only HVAC vents seen.

Note location and number of HVAC units for adjacent/nearby suites if separate: unknown for Biglots suite (many), one for Amij's Dry Cleaners.

**MISCELLANEOUS**

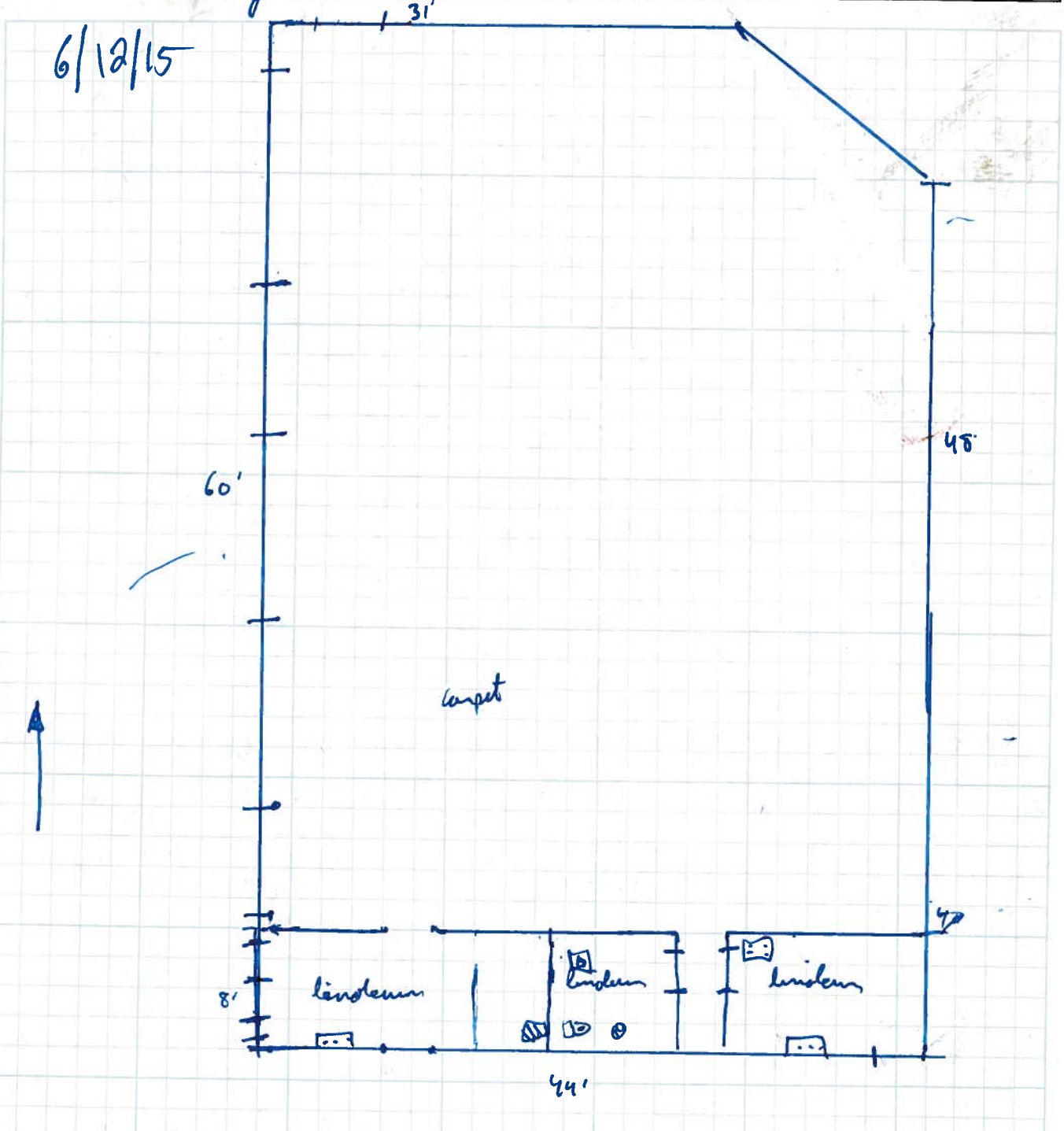
Note any other conditions or factors that may be relevant to assessing vapor intrusion: \_\_\_\_\_

The @ an earlier APS utility locate w/ A3 indicated the only power ran E-W adjacent to the S wall (a few inches away). This @ this connects the utility @ fuse boxes & likely (per APS) extends through all the suites, as it was located from wall to wall.



|             |                 |      |   |
|-------------|-----------------|------|---|
| SHEET       | 1               | OF   | 1 |
| JOB NO.     | 1246.030.000.02 |      |   |
| FILE NAME   |                 |      |   |
| COMPUTED BY |                 | DATE |   |
| CHECKED BY  |                 | DATE |   |

|         |                 |
|---------|-----------------|
| PROJECT | Bethel Junction |
| SUBJECT | Building Sketch |



- 1:50 scale
- ⊕ hole in slab
  - ⊞ pipe penetrations
  - ⊞ toilet
  - cleanout
  - ⊞ sink
  - ⊞ plab pipe penetrations
  - ⊞ bolts in floor

**ATTACHMENT D**

**LABORATORY ANALYTICAL REPORTS AND DATA VALIDATION MEMORANDA**



3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

[info@fremontanalytical.com](mailto:info@fremontanalytical.com)

**PES Environmental, Inc.**

Kelly Rankich  
1215 Fourth Avenue, Suite 1350  
Seattle, WA 98161

**RE: Bethel Junction Phase II**

**Lab ID: 1506161**

June 16, 2015

**Attention Kelly Rankich:**

Fremont Analytical, Inc. received 11 sample(s) on 6/12/2015 for the analyses presented in the following report.

***Sample Moisture (Percent Moisture)***  
***Volatile Organic Compounds by EPA Method 8260***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Chelsea Ward".

Chelsea Ward  
Project Manager



Date: 06/16/2015

**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II  
**Lab Order:** 1506161

## Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 1506161-001   | SB-7-0 to 4      | 06/12/2015 10:20 AM | 06/12/2015 6:58 PM |
| 1506161-002   | SB-7-4 to 8      | 06/12/2015 10:25 AM | 06/12/2015 6:58 PM |
| 1506161-003   | SB-7-13          | 06/12/2015 3:35 PM  | 06/12/2015 6:58 PM |
| 1506161-004   | SB-9-0.5         | 06/12/2015 3:45 PM  | 06/12/2015 6:58 PM |
| 1506161-005   | SB-9-5           | 06/12/2015 3:50 PM  | 06/12/2015 6:58 PM |
| 1506161-006   | SB-9-9           | 06/12/2015 3:55 PM  | 06/12/2015 6:58 PM |
| 1506161-007   | SB-8-0.5         | 06/12/2015 4:00 PM  | 06/12/2015 6:58 PM |
| 1506161-008   | SB-8-5           | 06/12/2015 4:05 PM  | 06/12/2015 6:58 PM |
| 1506161-009   | SB-8-10          | 06/12/2015 4:10 PM  | 06/12/2015 6:58 PM |
| 1506161-010   | SB-8-10D         | 06/12/2015 4:20 PM  | 06/12/2015 6:58 PM |
| 1506161-011   | Trip Blank       |                     | 06/12/2015 6:58 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

**CLIENT:** PES Environmental, Inc.

**Project:** Bethel Junction Phase II

---

**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

**Qualifiers:**

- \* - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below LOQ
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit

**Acronyms:**

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate





# Analytical Report

WO#: 1506161

Date Reported: 6/16/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 10:20:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506161-001

**Matrix:** Soil

**Client Sample ID:** SB-7-0 to 4

| Analyses   | Result | RL      | Qual | Units     | DF              | Date Analyzed         |
|--|--------|---------|------|-----------|-----------------|-----------------------|
| <b>Volatile Organic Compounds by EPA Method 8260</b> |        |         |      |           |                 |                       |
|  |        |         |      |           | Batch ID: 11034 | Analyst: AK           |
| Dichlorodifluoromethane (CFC-12)                     | ND     | 0.0666  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| Chloromethane  | ND     | 0.0666  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| Vinyl chloride                                       | ND     | 0.00222 |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| Bromomethane   | ND     | 0.0999  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| Trichlorofluoromethane (CFC-11)                      | ND     | 0.0555  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| Chloroethane   | ND     | 0.0666  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| 1,1-Dichloroethene                                   | ND     | 0.0555  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| Methylene chloride                                   | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| trans-1,2-Dichloroethene                             | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| Methyl tert-butyl ether (MTBE)                       | ND     | 0.0555  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| 1,1-Dichloroethane                                   | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| 2,2-Dichloropropane                                  | ND     | 0.0555  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| cis-1,2-Dichloroethene                               | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| Chloroform   | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| 1,1,1-Trichloroethane (TCA)                          | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| 1,1-Dichloropropene                                  | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| Carbon tetrachloride                                 | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| 1,2-Dichloroethane (EDC)                             | ND     | 0.0333  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| Benzene  | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| Trichloroethene (TCE)                                | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| 1,2-Dichloropropane                                  | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| Bromodichloromethane                                 | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| Dibromomethane                                       | ND     | 0.0444  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| cis-1,3-Dichloropropene                              | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| Toluene  | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| trans-1,3-Dichloropropylene                          | ND     | 0.0333  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| 1,1,2-Trichloroethane                                | ND     | 0.0333  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| 1,3-Dichloropropane                                  | ND     | 0.0555  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| Tetrachloroethene (PCE)                              | 0.0893 | 0.0222  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| Dibromochloromethane                                 | ND     | 0.0333  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| 1,2-Dibromoethane (EDB)                              | ND     | 0.00555 |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| Chlorobenzene  | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| 1,1,1,2-Tetrachloroethane                            | ND     | 0.0333  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| Ethylbenzene   | ND     | 0.0333  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| m,p-Xylene   | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| o-Xylene   | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| Styrene  | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| Isopropylbenzene                                     | ND     | 0.0888  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |
| Bromoform  | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/15/2015 12:45:00 PM |



# Analytical Report

WO#: 1506161

Date Reported: 6/16/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 10:20:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506161-001

**Matrix:** Soil

**Client Sample ID:** SB-7-0 to 4

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11034

Analyst: AK

|                               |      |          |  |           |   |                       |
|-------------------------------|------|----------|--|-----------|---|-----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/15/2015 12:45:00 PM |
| n-Propylbenzene               | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/15/2015 12:45:00 PM |
| Bromobenzene                  | ND   | 0.0333   |  | mg/Kg-dry | 1 | 6/15/2015 12:45:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/15/2015 12:45:00 PM |
| 2-Chlorotoluene               | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/15/2015 12:45:00 PM |
| 4-Chlorotoluene               | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/15/2015 12:45:00 PM |
| tert-Butylbenzene             | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/15/2015 12:45:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/15/2015 12:45:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0555   |  | mg/Kg-dry | 1 | 6/15/2015 12:45:00 PM |
| sec-Butylbenzene              | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/15/2015 12:45:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/15/2015 12:45:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/15/2015 12:45:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/15/2015 12:45:00 PM |
| n-Butylbenzene                | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/15/2015 12:45:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/15/2015 12:45:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.555    |  | mg/Kg-dry | 1 | 6/15/2015 12:45:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/15/2015 12:45:00 PM |
| Hexachlorobutadiene           | ND   | 0.111    |  | mg/Kg-dry | 1 | 6/15/2015 12:45:00 PM |
| Naphthalene                   | ND   | 0.0333   |  | mg/Kg-dry | 1 | 6/15/2015 12:45:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/15/2015 12:45:00 PM |
| Surr: Dibromofluoromethane    | 102  | 63.7-129 |  | %REC      | 1 | 6/15/2015 12:45:00 PM |
| Surr: Toluene-d8              | 101  | 64.3-131 |  | %REC      | 1 | 6/15/2015 12:45:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 96.6 | 63.1-141 |  | %REC      | 1 | 6/15/2015 12:45:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R22943

Analyst: CG

|                  |      |  |  |     |   |                       |
|------------------|------|--|--|-----|---|-----------------------|
| Percent Moisture | 9.54 |  |  | wt% | 1 | 6/15/2015 10:06:39 AM |
|------------------|------|--|--|-----|---|-----------------------|



# Analytical Report

WO#: 1506161

Date Reported: 6/16/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 10:25:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506161-002

**Matrix:** Soil

**Client Sample ID:** SB-7-4 to 8

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11034

Analyst: AK

|                                  |        |         |  |           |   |                      |
|----------------------------------|--------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND     | 0.0687  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Chloromethane                    | ND     | 0.0687  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Vinyl chloride                   | ND     | 0.00229 |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Bromomethane                     | ND     | 0.103   |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND     | 0.0573  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Chloroethane                     | ND     | 0.0687  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 1,1-Dichloroethene               | ND     | 0.0573  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Methylene chloride               | ND     | 0.0229  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| trans-1,2-Dichloroethene         | ND     | 0.0229  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND     | 0.0573  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 1,1-Dichloroethane               | ND     | 0.0229  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 2,2-Dichloropropane              | ND     | 0.0573  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| cis-1,2-Dichloroethene           | 0.0458 | 0.0229  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Chloroform                       | ND     | 0.0229  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND     | 0.0229  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 1,1-Dichloropropene              | ND     | 0.0229  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Carbon tetrachloride             | ND     | 0.0229  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 1,2-Dichloroethane (EDC)         | ND     | 0.0344  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Benzene                          | ND     | 0.0229  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Trichloroethene (TCE)            | ND     | 0.0229  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 1,2-Dichloropropane              | ND     | 0.0229  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Bromodichloromethane             | ND     | 0.0229  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Dibromomethane                   | ND     | 0.0458  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| cis-1,3-Dichloropropene          | ND     | 0.0229  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Toluene                          | ND     | 0.0229  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| trans-1,3-Dichloropropylene      | ND     | 0.0344  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 1,1,2-Trichloroethane            | ND     | 0.0344  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 1,3-Dichloropropane              | ND     | 0.0573  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Tetrachloroethene (PCE)          | ND     | 0.0229  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Dibromochloromethane             | ND     | 0.0344  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 1,2-Dibromoethane (EDB)          | ND     | 0.00573 |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Chlorobenzene                    | ND     | 0.0229  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND     | 0.0344  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Ethylbenzene                     | ND     | 0.0344  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| m,p-Xylene                       | ND     | 0.0229  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| o-Xylene                         | ND     | 0.0229  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Styrene                          | ND     | 0.0229  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Isopropylbenzene                 | ND     | 0.0916  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Bromoform                        | ND     | 0.0229  |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |



# Analytical Report

WO#: 1506161

Date Reported: 6/16/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 10:25:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506161-002

**Matrix:** Soil

**Client Sample ID:** SB-7-4 to 8

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11034

Analyst: AK

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0229   |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| n-Propylbenzene               | ND   | 0.0229   |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Bromobenzene                  | ND   | 0.0344   |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0229   |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 2-Chlorotoluene               | ND   | 0.0229   |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 4-Chlorotoluene               | ND   | 0.0229   |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| tert-Butylbenzene             | ND   | 0.0229   |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0229   |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0573   |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| sec-Butylbenzene              | ND   | 0.0229   |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0229   |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0229   |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0229   |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| n-Butylbenzene                | ND   | 0.0229   |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0229   |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.573    |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0229   |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Hexachlorobutadiene           | ND   | 0.115    |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Naphthalene                   | ND   | 0.0344   |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0229   |  | mg/Kg-dry | 1 | 6/15/2015 1:14:00 PM |
| Surr: Dibromofluoromethane    | 96.7 | 63.7-129 |  | %REC      | 1 | 6/15/2015 1:14:00 PM |
| Surr: Toluene-d8              | 95.0 | 64.3-131 |  | %REC      | 1 | 6/15/2015 1:14:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 97.2 | 63.1-141 |  | %REC      | 1 | 6/15/2015 1:14:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R22943

Analyst: CG

|                  |      |  |  |     |   |                       |
|------------------|------|--|--|-----|---|-----------------------|
| Percent Moisture | 12.0 |  |  | wt% | 1 | 6/15/2015 10:06:39 AM |
|------------------|------|--|--|-----|---|-----------------------|



# Analytical Report

WO#: 1506161

Date Reported: 6/16/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 3:35:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506161-003

**Matrix:** Soil

**Client Sample ID:** SB-7-13

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11034

Analyst: AK

|                                  |        |         |  |           |   |                      |
|----------------------------------|--------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND     | 0.0597  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Chloromethane                    | ND     | 0.0597  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Vinyl chloride                   | ND     | 0.00199 |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Bromomethane                     | ND     | 0.0896  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND     | 0.0498  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Chloroethane                     | ND     | 0.0597  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 1,1-Dichloroethene               | ND     | 0.0498  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Methylene chloride               | ND     | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| trans-1,2-Dichloroethene         | ND     | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND     | 0.0498  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 1,1-Dichloroethane               | ND     | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 2,2-Dichloropropane              | ND     | 0.0498  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| cis-1,2-Dichloroethene           | 0.0279 | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Chloroform                       | ND     | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND     | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 1,1-Dichloropropene              | ND     | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Carbon tetrachloride             | ND     | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 1,2-Dichloroethane (EDC)         | ND     | 0.0299  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Benzene                          | ND     | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Trichloroethene (TCE)            | ND     | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 1,2-Dichloropropane              | ND     | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Bromodichloromethane             | ND     | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Dibromomethane                   | ND     | 0.0398  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| cis-1,3-Dichloropropene          | ND     | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Toluene                          | ND     | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| trans-1,3-Dichloropropylene      | ND     | 0.0299  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 1,1,2-Trichloroethane            | ND     | 0.0299  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 1,3-Dichloropropane              | ND     | 0.0498  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Tetrachloroethene (PCE)          | ND     | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Dibromochloromethane             | ND     | 0.0299  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 1,2-Dibromoethane (EDB)          | ND     | 0.00498 |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Chlorobenzene                    | ND     | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND     | 0.0299  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Ethylbenzene                     | ND     | 0.0299  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| m,p-Xylene                       | ND     | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| o-Xylene                         | ND     | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Styrene                          | ND     | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Isopropylbenzene                 | ND     | 0.0796  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Bromoform                        | ND     | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |



# Analytical Report

WO#: 1506161

Date Reported: 6/16/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 3:35:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506161-003

**Matrix:** Soil

**Client Sample ID:** SB-7-13

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11034

Analyst: AK

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| n-Propylbenzene               | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Bromobenzene                  | ND   | 0.0299   |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 2-Chlorotoluene               | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 4-Chlorotoluene               | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| tert-Butylbenzene             | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0498   |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| sec-Butylbenzene              | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| n-Butylbenzene                | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.498    |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Hexachlorobutadiene           | ND   | 0.0996   |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Naphthalene                   | ND   | 0.0299   |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 1:43:00 PM |
| Surr: Dibromofluoromethane    | 97.1 | 63.7-129 |  | %REC      | 1 | 6/15/2015 1:43:00 PM |
| Surr: Toluene-d8              | 95.1 | 64.3-131 |  | %REC      | 1 | 6/15/2015 1:43:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 95.0 | 63.1-141 |  | %REC      | 1 | 6/15/2015 1:43:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R22943

Analyst: CG

|                  |      |  |  |     |   |                       |
|------------------|------|--|--|-----|---|-----------------------|
| Percent Moisture | 14.3 |  |  | wt% | 1 | 6/15/2015 10:06:39 AM |
|------------------|------|--|--|-----|---|-----------------------|



# Analytical Report

WO#: 1506161

Date Reported: 6/16/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 3:45:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506161-004

**Matrix:** Soil

**Client Sample ID:** SB-9-0.5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11034

Analyst: AK

|                                  |        |         |  |           |   |                      |
|----------------------------------|--------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND     | 0.0752  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Chloromethane                    | ND     | 0.0752  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Vinyl chloride                   | ND     | 0.00251 |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Bromomethane                     | ND     | 0.113   |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND     | 0.0627  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Chloroethane                     | ND     | 0.0752  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 1,1-Dichloroethene               | ND     | 0.0627  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Methylene chloride               | ND     | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| trans-1,2-Dichloroethene         | ND     | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND     | 0.0627  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 1,1-Dichloroethane               | ND     | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 2,2-Dichloropropane              | ND     | 0.0627  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| cis-1,2-Dichloroethene           | ND     | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Chloroform                       | ND     | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND     | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 1,1-Dichloropropene              | ND     | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Carbon tetrachloride             | ND     | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 1,2-Dichloroethane (EDC)         | ND     | 0.0376  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Benzene                          | ND     | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Trichloroethene (TCE)            | ND     | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 1,2-Dichloropropane              | ND     | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Bromodichloromethane             | ND     | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Dibromomethane                   | ND     | 0.0501  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| cis-1,3-Dichloropropene          | ND     | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Toluene                          | ND     | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| trans-1,3-Dichloropropylene      | ND     | 0.0376  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 1,1,2-Trichloroethane            | ND     | 0.0376  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 1,3-Dichloropropane              | ND     | 0.0627  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Tetrachloroethene (PCE)          | 0.0432 | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Dibromochloromethane             | ND     | 0.0376  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 1,2-Dibromoethane (EDB)          | ND     | 0.00627 |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Chlorobenzene                    | ND     | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND     | 0.0376  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Ethylbenzene                     | ND     | 0.0376  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| m,p-Xylene                       | ND     | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| o-Xylene                         | ND     | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Styrene                          | ND     | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Isopropylbenzene                 | ND     | 0.100   |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Bromoform                        | ND     | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |



# Analytical Report

WO#: 1506161

Date Reported: 6/16/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 3:45:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506161-004

**Matrix:** Soil

**Client Sample ID:** SB-9-0.5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11034

Analyst: AK

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| n-Propylbenzene               | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Bromobenzene                  | ND   | 0.0376   |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 2-Chlorotoluene               | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 4-Chlorotoluene               | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| tert-Butylbenzene             | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0627   |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| sec-Butylbenzene              | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| n-Butylbenzene                | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.627    |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Hexachlorobutadiene           | ND   | 0.125    |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Naphthalene                   | ND   | 0.0376   |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 2:12:00 PM |
| Surr: Dibromofluoromethane    | 99.0 | 63.7-129 |  | %REC      | 1 | 6/15/2015 2:12:00 PM |
| Surr: Toluene-d8              | 95.2 | 64.3-131 |  | %REC      | 1 | 6/15/2015 2:12:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 94.8 | 63.1-141 |  | %REC      | 1 | 6/15/2015 2:12:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R22943

Analyst: CG

|                  |      |  |  |     |   |                       |
|------------------|------|--|--|-----|---|-----------------------|
| Percent Moisture | 11.0 |  |  | wt% | 1 | 6/15/2015 10:06:39 AM |
|------------------|------|--|--|-----|---|-----------------------|





# Analytical Report

WO#: 1506161

Date Reported: 6/16/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 3:50:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506161-005

**Matrix:** Soil

**Client Sample ID:** SB-9-5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11034

Analyst: AK

|                                  |    |         |  |           |   |                      |
|----------------------------------|----|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND | 0.0596  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Chloromethane                    | ND | 0.0596  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Vinyl chloride                   | ND | 0.00199 |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Bromomethane                     | ND | 0.0893  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND | 0.0496  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Chloroethane                     | ND | 0.0596  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 1,1-Dichloroethene               | ND | 0.0496  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Methylene chloride               | ND | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| trans-1,2-Dichloroethene         | ND | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND | 0.0496  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 1,1-Dichloroethane               | ND | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 2,2-Dichloropropane              | ND | 0.0496  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| cis-1,2-Dichloroethene           | ND | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Chloroform                       | ND | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 1,1-Dichloropropene              | ND | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Carbon tetrachloride             | ND | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 1,2-Dichloroethane (EDC)         | ND | 0.0298  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Benzene                          | ND | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Trichloroethene (TCE)            | ND | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 1,2-Dichloropropane              | ND | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Bromodichloromethane             | ND | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Dibromomethane                   | ND | 0.0397  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| cis-1,3-Dichloropropene          | ND | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Toluene                          | ND | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| trans-1,3-Dichloropropylene      | ND | 0.0298  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 1,1,2-Trichloroethane            | ND | 0.0298  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 1,3-Dichloropropane              | ND | 0.0496  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Tetrachloroethene (PCE)          | ND | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Dibromochloromethane             | ND | 0.0298  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 1,2-Dibromoethane (EDB)          | ND | 0.00496 |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Chlorobenzene                    | ND | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND | 0.0298  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Ethylbenzene                     | ND | 0.0298  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| m,p-Xylene                       | ND | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| o-Xylene                         | ND | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Styrene                          | ND | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Isopropylbenzene                 | ND | 0.0794  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Bromoform                        | ND | 0.0199  |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |



# Analytical Report

WO#: 1506161

Date Reported: 6/16/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 3:50:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506161-005

**Matrix:** Soil

**Client Sample ID:** SB-9-5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11034

Analyst: AK

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| n-Propylbenzene               | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Bromobenzene                  | ND   | 0.0298   |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 2-Chlorotoluene               | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 4-Chlorotoluene               | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| tert-Butylbenzene             | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0496   |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| sec-Butylbenzene              | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| n-Butylbenzene                | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.496    |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Hexachlorobutadiene           | ND   | 0.0993   |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Naphthalene                   | ND   | 0.0298   |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/15/2015 2:41:00 PM |
| Surr: Dibromofluoromethane    | 98.1 | 63.7-129 |  | %REC      | 1 | 6/15/2015 2:41:00 PM |
| Surr: Toluene-d8              | 94.9 | 64.3-131 |  | %REC      | 1 | 6/15/2015 2:41:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 96.7 | 63.1-141 |  | %REC      | 1 | 6/15/2015 2:41:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R22943

Analyst: CG

|                  |      |  |  |     |   |                       |
|------------------|------|--|--|-----|---|-----------------------|
| Percent Moisture | 11.9 |  |  | wt% | 1 | 6/15/2015 10:06:39 AM |
|------------------|------|--|--|-----|---|-----------------------|



# Analytical Report

WO#: 1506161

Date Reported: 6/16/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 3:55:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506161-006

**Matrix:** Soil

**Client Sample ID:** SB-9-9

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11034

Analyst: AK

|                                  |    |         |  |           |   |                      |
|----------------------------------|----|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND | 0.0640  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Chloromethane                    | ND | 0.0640  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Vinyl chloride                   | ND | 0.00213 |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Bromomethane                     | ND | 0.0959  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND | 0.0533  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Chloroethane                     | ND | 0.0640  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 1,1-Dichloroethene               | ND | 0.0533  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Methylene chloride               | ND | 0.0213  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| trans-1,2-Dichloroethene         | ND | 0.0213  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND | 0.0533  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 1,1-Dichloroethane               | ND | 0.0213  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 2,2-Dichloropropane              | ND | 0.0533  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| cis-1,2-Dichloroethene           | ND | 0.0213  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Chloroform                       | ND | 0.0213  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND | 0.0213  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 1,1-Dichloropropene              | ND | 0.0213  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Carbon tetrachloride             | ND | 0.0213  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 1,2-Dichloroethane (EDC)         | ND | 0.0320  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Benzene                          | ND | 0.0213  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Trichloroethene (TCE)            | ND | 0.0213  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 1,2-Dichloropropane              | ND | 0.0213  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Bromodichloromethane             | ND | 0.0213  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Dibromomethane                   | ND | 0.0426  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| cis-1,3-Dichloropropene          | ND | 0.0213  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Toluene                          | ND | 0.0213  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| trans-1,3-Dichloropropylene      | ND | 0.0320  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 1,1,2-Trichloroethane            | ND | 0.0320  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 1,3-Dichloropropane              | ND | 0.0533  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Tetrachloroethene (PCE)          | ND | 0.0213  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Dibromochloromethane             | ND | 0.0320  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 1,2-Dibromoethane (EDB)          | ND | 0.00533 |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Chlorobenzene                    | ND | 0.0213  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND | 0.0320  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Ethylbenzene                     | ND | 0.0320  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| m,p-Xylene                       | ND | 0.0213  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| o-Xylene                         | ND | 0.0213  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Styrene                          | ND | 0.0213  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Isopropylbenzene                 | ND | 0.0853  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Bromoform                        | ND | 0.0213  |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |



# Analytical Report

WO#: 1506161

Date Reported: 6/16/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 3:55:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506161-006

**Matrix:** Soil

**Client Sample ID:** SB-9-9

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11034

Analyst: AK

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| n-Propylbenzene               | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Bromobenzene                  | ND   | 0.0320   |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 2-Chlorotoluene               | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 4-Chlorotoluene               | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| tert-Butylbenzene             | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0533   |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| sec-Butylbenzene              | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| n-Butylbenzene                | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.533    |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Hexachlorobutadiene           | ND   | 0.107    |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Naphthalene                   | ND   | 0.0320   |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/15/2015 3:10:00 PM |
| Surr: Dibromofluoromethane    | 97.2 | 63.7-129 |  | %REC      | 1 | 6/15/2015 3:10:00 PM |
| Surr: Toluene-d8              | 95.2 | 64.3-131 |  | %REC      | 1 | 6/15/2015 3:10:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 101  | 63.1-141 |  | %REC      | 1 | 6/15/2015 3:10:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R22943

Analyst: CG

|                  |      |  |  |     |   |                       |
|------------------|------|--|--|-----|---|-----------------------|
| Percent Moisture | 12.0 |  |  | wt% | 1 | 6/15/2015 10:06:39 AM |
|------------------|------|--|--|-----|---|-----------------------|



# Analytical Report

WO#: 1506161

Date Reported: 6/16/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 4:00:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506161-007

**Matrix:** Soil

**Client Sample ID:** SB-8-0.5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11034

Analyst: AK

|                                  |        |         |  |           |   |                      |
|----------------------------------|--------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND     | 0.0816  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Chloromethane                    | ND     | 0.0816  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Vinyl chloride                   | ND     | 0.00272 |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Bromomethane                     | ND     | 0.122   |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND     | 0.0680  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Chloroethane                     | ND     | 0.0816  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 1,1-Dichloroethene               | ND     | 0.0680  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Methylene chloride               | ND     | 0.0272  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| trans-1,2-Dichloroethene         | ND     | 0.0272  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND     | 0.0680  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 1,1-Dichloroethane               | ND     | 0.0272  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 2,2-Dichloropropane              | ND     | 0.0680  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| cis-1,2-Dichloroethene           | ND     | 0.0272  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Chloroform                       | ND     | 0.0272  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND     | 0.0272  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 1,1-Dichloropropene              | ND     | 0.0272  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Carbon tetrachloride             | ND     | 0.0272  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 1,2-Dichloroethane (EDC)         | ND     | 0.0408  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Benzene                          | ND     | 0.0272  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Trichloroethene (TCE)            | ND     | 0.0272  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 1,2-Dichloropropane              | ND     | 0.0272  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Bromodichloromethane             | ND     | 0.0272  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Dibromomethane                   | ND     | 0.0544  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| cis-1,3-Dichloropropene          | ND     | 0.0272  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Toluene                          | ND     | 0.0272  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| trans-1,3-Dichloropropylene      | ND     | 0.0408  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 1,1,2-Trichloroethane            | ND     | 0.0408  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 1,3-Dichloropropane              | ND     | 0.0680  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Tetrachloroethene (PCE)          | 0.0489 | 0.0272  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Dibromochloromethane             | ND     | 0.0408  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 1,2-Dibromoethane (EDB)          | ND     | 0.00680 |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Chlorobenzene                    | ND     | 0.0272  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND     | 0.0408  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Ethylbenzene                     | ND     | 0.0408  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| m,p-Xylene                       | ND     | 0.0272  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| o-Xylene                         | ND     | 0.0272  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Styrene                          | ND     | 0.0272  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Isopropylbenzene                 | ND     | 0.109   |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Bromoform                        | ND     | 0.0272  |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |



# Analytical Report

WO#: 1506161

Date Reported: 6/16/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 4:00:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506161-007

**Matrix:** Soil

**Client Sample ID:** SB-8-0.5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11034

Analyst: AK

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0272   |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| n-Propylbenzene               | ND   | 0.0272   |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Bromobenzene                  | ND   | 0.0408   |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0272   |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 2-Chlorotoluene               | ND   | 0.0272   |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 4-Chlorotoluene               | ND   | 0.0272   |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| tert-Butylbenzene             | ND   | 0.0272   |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0272   |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0680   |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| sec-Butylbenzene              | ND   | 0.0272   |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0272   |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0272   |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0272   |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| n-Butylbenzene                | ND   | 0.0272   |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0272   |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.680    |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0272   |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Hexachlorobutadiene           | ND   | 0.136    |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Naphthalene                   | ND   | 0.0408   |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0272   |  | mg/Kg-dry | 1 | 6/15/2015 3:39:00 PM |
| Surr: Dibromofluoromethane    | 95.3 | 63.7-129 |  | %REC      | 1 | 6/15/2015 3:39:00 PM |
| Surr: Toluene-d8              | 93.4 | 64.3-131 |  | %REC      | 1 | 6/15/2015 3:39:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 97.9 | 63.1-141 |  | %REC      | 1 | 6/15/2015 3:39:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R22943

Analyst: CG

|                  |      |  |  |     |   |                       |
|------------------|------|--|--|-----|---|-----------------------|
| Percent Moisture | 6.66 |  |  | wt% | 1 | 6/15/2015 10:06:39 AM |
|------------------|------|--|--|-----|---|-----------------------|



# Analytical Report

WO#: 1506161

Date Reported: 6/16/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 4:05:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506161-008

**Matrix:** Soil

**Client Sample ID:** SB-8-5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11034

Analyst: AK

|                                  |       |         |  |           |   |                      |
|----------------------------------|-------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND    | 0.0729  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Chloromethane                    | ND    | 0.0729  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Vinyl chloride                   | ND    | 0.00243 |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Bromomethane                     | ND    | 0.109   |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND    | 0.0607  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Chloroethane                     | ND    | 0.0729  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 1,1-Dichloroethene               | ND    | 0.0607  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Methylene chloride               | ND    | 0.0243  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| trans-1,2-Dichloroethene         | ND    | 0.0243  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND    | 0.0607  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 1,1-Dichloroethane               | ND    | 0.0243  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 2,2-Dichloropropane              | ND    | 0.0607  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| cis-1,2-Dichloroethene           | 0.296 | 0.0243  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Chloroform                       | ND    | 0.0243  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND    | 0.0243  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 1,1-Dichloropropene              | ND    | 0.0243  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Carbon tetrachloride             | ND    | 0.0243  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 1,2-Dichloroethane (EDC)         | ND    | 0.0364  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Benzene                          | ND    | 0.0243  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Trichloroethene (TCE)            | ND    | 0.0243  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 1,2-Dichloropropane              | ND    | 0.0243  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Bromodichloromethane             | ND    | 0.0243  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Dibromomethane                   | ND    | 0.0486  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| cis-1,3-Dichloropropene          | ND    | 0.0243  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Toluene                          | ND    | 0.0243  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| trans-1,3-Dichloropropylene      | ND    | 0.0364  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 1,1,2-Trichloroethane            | ND    | 0.0364  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 1,3-Dichloropropane              | ND    | 0.0607  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Tetrachloroethene (PCE)          | ND    | 0.0243  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Dibromochloromethane             | ND    | 0.0364  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 1,2-Dibromoethane (EDB)          | ND    | 0.00607 |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Chlorobenzene                    | ND    | 0.0243  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND    | 0.0364  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Ethylbenzene                     | ND    | 0.0364  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| m,p-Xylene                       | ND    | 0.0243  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| o-Xylene                         | ND    | 0.0243  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Styrene                          | ND    | 0.0243  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Isopropylbenzene                 | ND    | 0.0972  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Bromoform                        | ND    | 0.0243  |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |



# Analytical Report

WO#: 1506161

Date Reported: 6/16/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 4:05:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506161-008

**Matrix:** Soil

**Client Sample ID:** SB-8-5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11034

Analyst: AK

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0243   |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| n-Propylbenzene               | ND   | 0.0243   |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Bromobenzene                  | ND   | 0.0364   |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0243   |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 2-Chlorotoluene               | ND   | 0.0243   |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 4-Chlorotoluene               | ND   | 0.0243   |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| tert-Butylbenzene             | ND   | 0.0243   |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0243   |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0607   |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| sec-Butylbenzene              | ND   | 0.0243   |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0243   |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0243   |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0243   |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| n-Butylbenzene                | ND   | 0.0243   |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0243   |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.607    |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0243   |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Hexachlorobutadiene           | ND   | 0.121    |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Naphthalene                   | ND   | 0.0364   |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0243   |  | mg/Kg-dry | 1 | 6/15/2015 4:08:00 PM |
| Surr: Dibromofluoromethane    | 95.1 | 63.7-129 |  | %REC      | 1 | 6/15/2015 4:08:00 PM |
| Surr: Toluene-d8              | 94.0 | 64.3-131 |  | %REC      | 1 | 6/15/2015 4:08:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 99.4 | 63.1-141 |  | %REC      | 1 | 6/15/2015 4:08:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R22943

Analyst: CG

|                  |      |  |  |     |   |                       |
|------------------|------|--|--|-----|---|-----------------------|
| Percent Moisture | 4.93 |  |  | wt% | 1 | 6/15/2015 10:06:39 AM |
|------------------|------|--|--|-----|---|-----------------------|





# Analytical Report

WO#: 1506161

Date Reported: 6/16/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 4:10:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506161-009

**Matrix:** Soil

**Client Sample ID:** SB-8-10

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11034

Analyst: AK

|                                  |    |         |  |           |   |                      |
|----------------------------------|----|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND | 0.0754  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Chloromethane                    | ND | 0.0754  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Vinyl chloride                   | ND | 0.00251 |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Bromomethane                     | ND | 0.113   |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND | 0.0628  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Chloroethane                     | ND | 0.0754  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 1,1-Dichloroethene               | ND | 0.0628  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Methylene chloride               | ND | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| trans-1,2-Dichloroethene         | ND | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND | 0.0628  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 1,1-Dichloroethane               | ND | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 2,2-Dichloropropane              | ND | 0.0628  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| cis-1,2-Dichloroethene           | ND | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Chloroform                       | ND | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 1,1-Dichloropropene              | ND | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Carbon tetrachloride             | ND | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 1,2-Dichloroethane (EDC)         | ND | 0.0377  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Benzene                          | ND | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Trichloroethene (TCE)            | ND | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 1,2-Dichloropropane              | ND | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Bromodichloromethane             | ND | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Dibromomethane                   | ND | 0.0503  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| cis-1,3-Dichloropropene          | ND | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Toluene                          | ND | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| trans-1,3-Dichloropropylene      | ND | 0.0377  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 1,1,2-Trichloroethane            | ND | 0.0377  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 1,3-Dichloropropane              | ND | 0.0628  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Tetrachloroethene (PCE)          | ND | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Dibromochloromethane             | ND | 0.0377  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 1,2-Dibromoethane (EDB)          | ND | 0.00628 |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Chlorobenzene                    | ND | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND | 0.0377  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Ethylbenzene                     | ND | 0.0377  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| m,p-Xylene                       | ND | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| o-Xylene                         | ND | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Styrene                          | ND | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Isopropylbenzene                 | ND | 0.101   |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Bromoform                        | ND | 0.0251  |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |



# Analytical Report

WO#: 1506161

Date Reported: 6/16/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 4:10:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506161-009

**Matrix:** Soil

**Client Sample ID:** SB-8-10

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11034

Analyst: AK

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| n-Propylbenzene               | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Bromobenzene                  | ND   | 0.0377   |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 2-Chlorotoluene               | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 4-Chlorotoluene               | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| tert-Butylbenzene             | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0628   |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| sec-Butylbenzene              | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| n-Butylbenzene                | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.628    |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Hexachlorobutadiene           | ND   | 0.126    |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Naphthalene                   | ND   | 0.0377   |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0251   |  | mg/Kg-dry | 1 | 6/15/2015 4:38:00 PM |
| Surr: Dibromofluoromethane    | 94.4 | 63.7-129 |  | %REC      | 1 | 6/15/2015 4:38:00 PM |
| Surr: Toluene-d8              | 91.8 | 64.3-131 |  | %REC      | 1 | 6/15/2015 4:38:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 102  | 63.1-141 |  | %REC      | 1 | 6/15/2015 4:38:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R22943

Analyst: CG

|                  |      |  |  |     |   |                       |
|------------------|------|--|--|-----|---|-----------------------|
| Percent Moisture | 12.0 |  |  | wt% | 1 | 6/15/2015 10:06:39 AM |
|------------------|------|--|--|-----|---|-----------------------|



# Analytical Report

WO#: 1506161

Date Reported: 6/16/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 4:20:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506161-010

**Matrix:** Soil

**Client Sample ID:** SB-8-10D

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11034

Analyst: AK

|                                  |    |         |  |           |   |                      |
|----------------------------------|----|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND | 0.101   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Chloromethane                    | ND | 0.101   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Vinyl chloride                   | ND | 0.00336 |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Bromomethane                     | ND | 0.151   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND | 0.0841  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Chloroethane                     | ND | 0.101   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 1,1-Dichloroethene               | ND | 0.0841  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Methylene chloride               | ND | 0.0336  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| trans-1,2-Dichloroethene         | ND | 0.0336  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND | 0.0841  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 1,1-Dichloroethane               | ND | 0.0336  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 2,2-Dichloropropane              | ND | 0.0841  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| cis-1,2-Dichloroethene           | ND | 0.0336  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Chloroform                       | ND | 0.0336  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND | 0.0336  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 1,1-Dichloropropene              | ND | 0.0336  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Carbon tetrachloride             | ND | 0.0336  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 1,2-Dichloroethane (EDC)         | ND | 0.0505  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Benzene                          | ND | 0.0336  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Trichloroethene (TCE)            | ND | 0.0336  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 1,2-Dichloropropane              | ND | 0.0336  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Bromodichloromethane             | ND | 0.0336  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Dibromomethane                   | ND | 0.0673  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| cis-1,3-Dichloropropene          | ND | 0.0336  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Toluene                          | ND | 0.0336  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| trans-1,3-Dichloropropylene      | ND | 0.0505  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 1,1,2-Trichloroethane            | ND | 0.0505  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 1,3-Dichloropropane              | ND | 0.0841  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Tetrachloroethene (PCE)          | ND | 0.0336  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Dibromochloromethane             | ND | 0.0505  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 1,2-Dibromoethane (EDB)          | ND | 0.00841 |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Chlorobenzene                    | ND | 0.0336  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND | 0.0505  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Ethylbenzene                     | ND | 0.0505  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| m,p-Xylene                       | ND | 0.0336  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| o-Xylene                         | ND | 0.0336  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Styrene                          | ND | 0.0336  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Isopropylbenzene                 | ND | 0.135   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Bromoform                        | ND | 0.0336  |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |



# Analytical Report

WO#: 1506161

Date Reported: 6/16/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 4:20:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506161-010

**Matrix:** Soil

**Client Sample ID:** SB-8-10D

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11034

Analyst: AK

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0336   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| n-Propylbenzene               | ND   | 0.0336   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Bromobenzene                  | ND   | 0.0505   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0336   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 2-Chlorotoluene               | ND   | 0.0336   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 4-Chlorotoluene               | ND   | 0.0336   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| tert-Butylbenzene             | ND   | 0.0336   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0336   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0841   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| sec-Butylbenzene              | ND   | 0.0336   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0336   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0336   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0336   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| n-Butylbenzene                | ND   | 0.0336   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0336   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.841    |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0336   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Hexachlorobutadiene           | ND   | 0.168    |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Naphthalene                   | ND   | 0.0505   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0336   |  | mg/Kg-dry | 1 | 6/15/2015 5:07:00 PM |
| Surr: Dibromofluoromethane    | 97.0 | 63.7-129 |  | %REC      | 1 | 6/15/2015 5:07:00 PM |
| Surr: Toluene-d8              | 91.6 | 64.3-131 |  | %REC      | 1 | 6/15/2015 5:07:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 101  | 63.1-141 |  | %REC      | 1 | 6/15/2015 5:07:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R22943

Analyst: CG

|                  |      |  |  |     |   |                       |
|------------------|------|--|--|-----|---|-----------------------|
| Percent Moisture | 13.6 |  |  | wt% | 1 | 6/15/2015 10:06:39 AM |
|------------------|------|--|--|-----|---|-----------------------|



**Work Order:** 1506161  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID                        | LCS-11034 | SampType: | LCS       | Units:         | mg/Kg     | Prep Date: | 6/15/2015 | RunNo:      | 22966 |          |      |
|----------------------------------|-----------|-----------|-----------|----------------|-----------|------------|-----------|-------------|-------|----------|------|
| Client ID:                       | LCSS      | Batch ID: | 11034     | Analysis Date: | 6/15/2015 | SeqNo:     | 435251    |             |       |          |      |
| Analyte                          | Result    | RL        | SPK value | SPK Ref Val    | %REC      | LowLimit   | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Dichlorodifluoromethane (CFC-12) | 0.811     | 0.0600    | 1.000     | 0              | 81.1      | 37.2       | 139       |             |       |          |      |
| Chloromethane                    | 0.834     | 0.0600    | 1.000     | 0              | 83.4      | 38.8       | 132       |             |       |          |      |
| Vinyl chloride                   | 0.755     | 0.00200   | 1.000     | 0              | 75.4      | 56.1       | 130       |             |       |          |      |
| Bromomethane                     | 0.753     | 0.0900    | 1.000     | 0              | 75.2      | 41.3       | 148       |             |       |          |      |
| Trichlorofluoromethane (CFC-11)  | 0.738     | 0.0500    | 1.000     | 0              | 73.9      | 42.9       | 147       |             |       |          |      |
| Chloroethane                     | 0.706     | 0.0600    | 1.000     | 0              | 70.6      | 37.1       | 144       |             |       |          |      |
| 1,1-Dichloroethene               | 0.780     | 0.0500    | 1.000     | 0              | 78.0      | 49.7       | 142       |             |       |          |      |
| Methylene chloride               | 0.830     | 0.0200    | 1.000     | 0              | 83.0      | 46.3       | 140       |             |       |          |      |
| trans-1,2-Dichloroethene         | 0.808     | 0.0200    | 1.000     | 0              | 80.8      | 68         | 130       |             |       |          |      |
| Methyl tert-butyl ether (MTBE)   | 0.966     | 0.0500    | 1.000     | 0              | 96.6      | 59.1       | 138       |             |       |          |      |
| 1,1-Dichloroethane               | 0.890     | 0.0200    | 1.000     | 0              | 89.0      | 65.5       | 132       |             |       |          |      |
| 2,2-Dichloropropane              | 0.864     | 0.0500    | 1.000     | 0              | 86.4      | 28.1       | 149       |             |       |          |      |
| cis-1,2-Dichloroethene           | 0.918     | 0.0200    | 1.000     | 0              | 91.8      | 71.3       | 135       |             |       |          |      |
| Chloroform                       | 0.837     | 0.0200    | 1.000     | 0              | 83.7      | 67.5       | 129       |             |       |          |      |
| 1,1,1-Trichloroethane (TCA)      | 0.862     | 0.0200    | 1.000     | 0              | 86.2      | 69         | 132       |             |       |          |      |
| 1,1-Dichloropropene              | 0.844     | 0.0200    | 1.000     | 0              | 84.4      | 72.7       | 131       |             |       |          |      |
| Carbon tetrachloride             | 0.925     | 0.0200    | 1.000     | 0              | 92.5      | 63.4       | 137       |             |       |          |      |
| 1,2-Dichloroethane (EDC)         | 1.01      | 0.0300    | 1.000     | 0              | 101       | 61.9       | 136       |             |       |          |      |
| Benzene                          | 0.880     | 0.0200    | 1.000     | 0              | 88.0      | 64.3       | 133       |             |       |          |      |
| Trichloroethene (TCE)            | 0.879     | 0.0200    | 1.000     | 0              | 87.9      | 65.5       | 137       |             |       |          |      |
| 1,2-Dichloropropane              | 0.828     | 0.0200    | 1.000     | 0              | 82.8      | 63.2       | 142       |             |       |          |      |
| Bromodichloromethane             | 0.915     | 0.0200    | 1.000     | 0              | 91.5      | 73.2       | 131       |             |       |          |      |
| Dibromomethane                   | 0.880     | 0.0400    | 1.000     | 0              | 88.0      | 70         | 130       |             |       |          |      |
| cis-1,3-Dichloropropene          | 0.913     | 0.0200    | 1.000     | 0              | 91.3      | 59.1       | 143       |             |       |          |      |
| Toluene                          | 0.865     | 0.0200    | 1.000     | 0              | 86.5      | 67.3       | 138       |             |       |          |      |
| trans-1,3-Dichloropropylene      | 0.986     | 0.0300    | 1.000     | 0              | 98.6      | 49.2       | 149       |             |       |          |      |
| 1,1,2-Trichloroethane            | 0.920     | 0.0300    | 1.000     | 0              | 92.0      | 74.5       | 129       |             |       |          |      |
| 1,3-Dichloropropane              | 0.957     | 0.0500    | 1.000     | 0              | 95.7      | 70         | 130       |             |       |          |      |
| Tetrachloroethene (PCE)          | 0.889     | 0.0200    | 1.000     | 0              | 88.9      | 52.7       | 150       |             |       |          |      |
| Dibromochloromethane             | 1.05      | 0.0300    | 1.000     | 0              | 105       | 70.6       | 144       |             |       |          |      |
| 1,2-Dibromoethane (EDB)          | 0.961     | 0.00500   | 1.000     | 0              | 96.1      | 70         | 130       |             |       |          |      |



Work Order: 1506161  
 CLIENT: PES Environmental, Inc.  
 Project: Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID                     | LCS-11034 | SampType: | LCS       | Units:         | mg/Kg     | Prep Date: | 6/15/2015 | RunNo:      | 22966 |          |      |
|-------------------------------|-----------|-----------|-----------|----------------|-----------|------------|-----------|-------------|-------|----------|------|
| Client ID:                    | LCSS      | Batch ID: | 11034     | Analysis Date: | 6/15/2015 | SeqNo:     | 435251    |             |       |          |      |
| Analyte                       | Result    | RL        | SPK value | SPK Ref Val    | %REC      | LowLimit   | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Chlorobenzene                 | 0.976     | 0.0200    | 1.000     | 0              | 97.6      | 76.1       | 123       |             |       |          |      |
| 1,1,1,2-Tetrachloroethane     | 0.956     | 0.0300    | 1.000     | 0              | 95.6      | 74.8       | 131       |             |       |          |      |
| Ethylbenzene                  | 0.912     | 0.0300    | 1.000     | 0              | 91.2      | 74         | 129       |             |       |          |      |
| m,p-Xylene                    | 1.98      | 0.0200    | 2.000     | 0              | 98.8      | 79.8       | 128       |             |       |          |      |
| o-Xylene                      | 1.02      | 0.0200    | 1.000     | 0              | 102       | 72.7       | 124       |             |       |          |      |
| Styrene                       | 1.01      | 0.0200    | 1.000     | 0              | 101       | 76.8       | 130       |             |       |          |      |
| Isopropylbenzene              | 0.940     | 0.0800    | 1.000     | 0              | 94.0      | 70         | 130       |             |       |          |      |
| Bromoform                     | 0.976     | 0.0200    | 1.000     | 0              | 97.6      | 67         | 154       |             |       |          |      |
| 1,1,2,2-Tetrachloroethane     | 1.07      | 0.0200    | 1.000     | 0              | 107       | 60         | 130       |             |       |          |      |
| n-Propylbenzene               | 0.924     | 0.0200    | 1.000     | 0              | 92.4      | 74.8       | 125       |             |       |          |      |
| Bromobenzene                  | 1.07      | 0.0300    | 1.000     | 0              | 107       | 49.2       | 144       |             |       |          |      |
| 1,3,5-Trimethylbenzene        | 0.923     | 0.0200    | 1.000     | 0              | 92.3      | 74.6       | 123       |             |       |          |      |
| 2-Chlorotoluene               | 0.924     | 0.0200    | 1.000     | 0              | 92.4      | 76.7       | 129       |             |       |          |      |
| 4-Chlorotoluene               | 0.853     | 0.0200    | 1.000     | 0              | 85.3      | 77.5       | 125       |             |       |          |      |
| tert-Butylbenzene             | 0.940     | 0.0200    | 1.000     | 0              | 94.0      | 66.2       | 130       |             |       |          |      |
| 1,2,3-Trichloropropane        | 1.04      | 0.0200    | 1.000     | 0              | 104       | 67.9       | 136       |             |       |          |      |
| 1,2,4-Trichlorobenzene        | 1.19      | 0.0500    | 1.000     | 0              | 119       | 65.6       | 137       |             |       |          |      |
| sec-Butylbenzene              | 0.980     | 0.0200    | 1.000     | 0              | 98.0      | 75.6       | 133       |             |       |          |      |
| 4-Isopropyltoluene            | 0.865     | 0.0200    | 1.000     | 0              | 86.5      | 76.8       | 131       |             |       |          |      |
| 1,3-Dichlorobenzene           | 0.939     | 0.0200    | 1.000     | 0              | 93.9      | 72.8       | 128       |             |       |          |      |
| 1,4-Dichlorobenzene           | 0.980     | 0.0200    | 1.000     | 0              | 98.0      | 72.6       | 126       |             |       |          |      |
| n-Butylbenzene                | 0.832     | 0.0200    | 1.000     | 0              | 83.2      | 65.3       | 136       |             |       |          |      |
| 1,2-Dichlorobenzene           | 0.966     | 0.0200    | 1.000     | 0              | 96.6      | 72.8       | 126       |             |       |          |      |
| 1,2-Dibromo-3-chloropropane   | 1.10      | 0.500     | 1.000     | 0              | 110       | 61.2       | 139       |             |       |          |      |
| 1,2,4-Trimethylbenzene        | 0.911     | 0.0200    | 1.000     | 0              | 91.1      | 77.5       | 129       |             |       |          |      |
| Hexachlorobutadiene           | 0.972     | 0.100     | 1.000     | 0              | 97.2      | 42         | 151       |             |       |          |      |
| Naphthalene                   | 1.15      | 0.0300    | 1.000     | 0              | 115       | 62.3       | 134       |             |       |          |      |
| 1,2,3-Trichlorobenzene        | 1.33      | 0.0200    | 1.000     | 0              | 133       | 62.1       | 140       |             |       |          |      |
| Surr: Dibromofluoromethane    | 1.18      |           | 1.250     |                | 94.7      | 63.7       | 129       |             |       |          |      |
| Surr: Toluene-d8              | 1.15      |           | 1.250     |                | 92.2      | 64.3       | 131       |             |       |          |      |
| Surr: 1-Bromo-4-fluorobenzene | 1.23      |           | 1.250     |                | 98.0      | 63.1       | 141       |             |       |          |      |



**Work Order:** 1506161  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

|                            |                        |                     |                                 |                      |      |          |           |             |      |          |      |
|----------------------------|------------------------|---------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID <b>LCS-11034</b> | SampType: <b>LCS</b>   | Units: <b>mg/Kg</b> | Prep Date: <b>6/15/2015</b>     | RunNo: <b>22966</b>  |      |          |           |             |      |          |      |
| Client ID: <b>LCSS</b>     | Batch ID: <b>11034</b> |                     | Analysis Date: <b>6/15/2015</b> | SeqNo: <b>435251</b> |      |          |           |             |      |          |      |
| Analyte                    | Result                 | RL                  | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                                  |                        |                         |                                 |                      |      |          |           |             |      |          |      |
|----------------------------------|------------------------|-------------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID <b>1506161-001BDUP</b> | SampType: <b>DUP</b>   | Units: <b>mg/Kg-dry</b> | Prep Date: <b>6/15/2015</b>     | RunNo: <b>22966</b>  |      |          |           |             |      |          |      |
| Client ID: <b>SB-7-0 to 4</b>    | Batch ID: <b>11034</b> |                         | Analysis Date: <b>6/15/2015</b> | SeqNo: <b>435344</b> |      |          |           |             |      |          |      |
| Analyte                          | Result                 | RL                      | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                                  |    |         |  |  |  |  |  |   |  |    |  |
|----------------------------------|----|---------|--|--|--|--|--|---|--|----|--|
| Dichlorodifluoromethane (CFC-12) | ND | 0.0666  |  |  |  |  |  | 0 |  | 30 |  |
| Chloromethane                    | ND | 0.0666  |  |  |  |  |  | 0 |  | 30 |  |
| Vinyl chloride                   | ND | 0.00222 |  |  |  |  |  | 0 |  | 30 |  |
| Bromomethane                     | ND | 0.0999  |  |  |  |  |  | 0 |  | 30 |  |
| Trichlorofluoromethane (CFC-11)  | ND | 0.0555  |  |  |  |  |  | 0 |  | 30 |  |
| Chloroethane                     | ND | 0.0666  |  |  |  |  |  | 0 |  | 30 |  |
| 1,1-Dichloroethene               | ND | 0.0555  |  |  |  |  |  | 0 |  | 30 |  |
| Methylene chloride               | ND | 0.0222  |  |  |  |  |  | 0 |  | 30 |  |
| trans-1,2-Dichloroethene         | ND | 0.0222  |  |  |  |  |  | 0 |  | 30 |  |
| Methyl tert-butyl ether (MTBE)   | ND | 0.0555  |  |  |  |  |  | 0 |  | 30 |  |
| 1,1-Dichloroethane               | ND | 0.0222  |  |  |  |  |  | 0 |  | 30 |  |
| 2,2-Dichloropropane              | ND | 0.0555  |  |  |  |  |  | 0 |  | 30 |  |
| cis-1,2-Dichloroethene           | ND | 0.0222  |  |  |  |  |  | 0 |  | 30 |  |
| Chloroform                       | ND | 0.0222  |  |  |  |  |  | 0 |  | 30 |  |
| 1,1,1-Trichloroethane (TCA)      | ND | 0.0222  |  |  |  |  |  | 0 |  | 30 |  |
| 1,1-Dichloropropene              | ND | 0.0222  |  |  |  |  |  | 0 |  | 30 |  |
| Carbon tetrachloride             | ND | 0.0222  |  |  |  |  |  | 0 |  | 30 |  |
| 1,2-Dichloroethane (EDC)         | ND | 0.0333  |  |  |  |  |  | 0 |  | 30 |  |
| Benzene                          | ND | 0.0222  |  |  |  |  |  | 0 |  | 30 |  |
| Trichloroethene (TCE)            | ND | 0.0222  |  |  |  |  |  | 0 |  | 30 |  |
| 1,2-Dichloropropane              | ND | 0.0222  |  |  |  |  |  | 0 |  | 30 |  |
| Bromodichloromethane             | ND | 0.0222  |  |  |  |  |  | 0 |  | 30 |  |
| Dibromomethane                   | ND | 0.0444  |  |  |  |  |  | 0 |  | 30 |  |
| cis-1,3-Dichloropropene          | ND | 0.0222  |  |  |  |  |  | 0 |  | 30 |  |
| Toluene                          | ND | 0.0222  |  |  |  |  |  | 0 |  | 30 |  |
| trans-1,3-Dichloropropylene      | ND | 0.0333  |  |  |  |  |  | 0 |  | 30 |  |



Work Order: 1506161  
 CLIENT: PES Environmental, Inc.  
 Project: Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID  | <b>1506161-001BDUP</b> | SampType: | <b>DUP</b>   | Units:      | <b>mg/Kg-dry</b> | Prep Date:     | <b>6/15/2015</b> | RunNo:      | <b>22966</b>  |          |      |
|------------|------------------------|-----------|--------------|-------------|------------------|----------------|------------------|-------------|---------------|----------|------|
| Client ID: | <b>SB-7-0 to 4</b>     | Batch ID: | <b>11034</b> |             |                  | Analysis Date: | <b>6/15/2015</b> | SeqNo:      | <b>435344</b> |          |      |
| Analyte    | Result                 | RL        | SPK value    | SPK Ref Val | %REC             | LowLimit       | HighLimit        | RPD Ref Val | %RPD          | RPDLimit | Qual |

|                             |        |         |  |  |  |  |  |         |       |    |  |
|-----------------------------|--------|---------|--|--|--|--|--|---------|-------|----|--|
| 1,1,2-Trichloroethane       | ND     | 0.0333  |  |  |  |  |  | 0       |       | 30 |  |
| 1,3-Dichloropropane         | ND     | 0.0555  |  |  |  |  |  | 0       |       | 30 |  |
| Tetrachloroethene (PCE)     | 0.0888 | 0.0222  |  |  |  |  |  | 0.08934 | 0.623 | 30 |  |
| Dibromochloromethane        | ND     | 0.0333  |  |  |  |  |  | 0       |       | 30 |  |
| 1,2-Dibromoethane (EDB)     | ND     | 0.00555 |  |  |  |  |  | 0       |       | 30 |  |
| Chlorobenzene               | ND     | 0.0222  |  |  |  |  |  | 0       |       | 30 |  |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.0333  |  |  |  |  |  | 0       |       | 30 |  |
| Ethylbenzene                | ND     | 0.0333  |  |  |  |  |  | 0       |       | 30 |  |
| m,p-Xylene                  | ND     | 0.0222  |  |  |  |  |  | 0       |       | 30 |  |
| o-Xylene                    | ND     | 0.0222  |  |  |  |  |  | 0       |       | 30 |  |
| Styrene                     | ND     | 0.0222  |  |  |  |  |  | 0       |       | 30 |  |
| Isopropylbenzene            | ND     | 0.0888  |  |  |  |  |  | 0       |       | 30 |  |
| Bromoform                   | ND     | 0.0222  |  |  |  |  |  | 0       |       | 30 |  |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.0222  |  |  |  |  |  | 0       |       | 30 |  |
| n-Propylbenzene             | ND     | 0.0222  |  |  |  |  |  | 0       |       | 30 |  |
| Bromobenzene                | ND     | 0.0333  |  |  |  |  |  | 0       |       | 30 |  |
| 1,3,5-Trimethylbenzene      | ND     | 0.0222  |  |  |  |  |  | 0       |       | 30 |  |
| 2-Chlorotoluene             | ND     | 0.0222  |  |  |  |  |  | 0       |       | 30 |  |
| 4-Chlorotoluene             | ND     | 0.0222  |  |  |  |  |  | 0       |       | 30 |  |
| tert-Butylbenzene           | ND     | 0.0222  |  |  |  |  |  | 0       |       | 30 |  |
| 1,2,3-Trichloropropane      | ND     | 0.0222  |  |  |  |  |  | 0       |       | 30 |  |
| 1,2,4-Trichlorobenzene      | ND     | 0.0555  |  |  |  |  |  | 0       |       | 30 |  |
| sec-Butylbenzene            | ND     | 0.0222  |  |  |  |  |  | 0       |       | 30 |  |
| 4-Isopropyltoluene          | ND     | 0.0222  |  |  |  |  |  | 0       |       | 30 |  |
| 1,3-Dichlorobenzene         | ND     | 0.0222  |  |  |  |  |  | 0       |       | 30 |  |
| 1,4-Dichlorobenzene         | ND     | 0.0222  |  |  |  |  |  | 0       |       | 30 |  |
| n-Butylbenzene              | ND     | 0.0222  |  |  |  |  |  | 0       |       | 30 |  |
| 1,2-Dichlorobenzene         | ND     | 0.0222  |  |  |  |  |  | 0       |       | 30 |  |
| 1,2-Dibromo-3-chloropropane | ND     | 0.555   |  |  |  |  |  | 0       |       | 30 |  |
| 1,2,4-Trimethylbenzene      | ND     | 0.0222  |  |  |  |  |  | 0       |       | 30 |  |
| Hexachlorobutadiene         | ND     | 0.111   |  |  |  |  |  | 0       |       | 30 |  |



**Work Order:** 1506161  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID <b>1506161-001BDUP</b> | SampType: <b>DUP</b>   | Units: <b>mg/Kg-dry</b> |           |             | Prep Date: <b>6/15/2015</b>     | RunNo: <b>22966</b>  |           |             |      |          |      |
|----------------------------------|------------------------|-------------------------|-----------|-------------|---------------------------------|----------------------|-----------|-------------|------|----------|------|
| Client ID: <b>SB-7-0 to 4</b>    | Batch ID: <b>11034</b> |                         |           |             | Analysis Date: <b>6/15/2015</b> | SeqNo: <b>435344</b> |           |             |      |          |      |
| Analyte                          | Result                 | RL                      | SPK value | SPK Ref Val | %REC                            | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Naphthalene                      | ND                     | 0.0333                  |           |             |                                 |                      |           | 0           |      | 30       |      |
| 1,2,3-Trichlorobenzene           | ND                     | 0.0222                  |           |             |                                 |                      |           | 0           |      | 30       |      |
| Surr: Dibromofluoromethane       | 1.34                   |                         | 1.387     |             | 96.5                            | 63.7                 | 129       |             | 0    |          |      |
| Surr: Toluene-d8                 | 1.20                   |                         | 1.387     |             | 86.8                            | 64.3                 | 131       |             | 0    |          |      |
| Surr: 1-Bromo-4-fluorobenzene    | 1.30                   |                         | 1.387     |             | 93.6                            | 63.1                 | 141       |             | 0    |          |      |

| Sample ID <b>1506161-002BMS</b>  | SampType: <b>MS</b>    | Units: <b>mg/Kg-dry</b> |           |             | Prep Date: <b>6/15/2015</b>     | RunNo: <b>22966</b>  |           |             |      |          |      |
|----------------------------------|------------------------|-------------------------|-----------|-------------|---------------------------------|----------------------|-----------|-------------|------|----------|------|
| Client ID: <b>SB-7-4 to 8</b>    | Batch ID: <b>11034</b> |                         |           |             | Analysis Date: <b>6/15/2015</b> | SeqNo: <b>435345</b> |           |             |      |          |      |
| Analyte                          | Result                 | RL                      | SPK value | SPK Ref Val | %REC                            | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Dichlorodifluoromethane (CFC-12) | 1.09                   | 0.0687                  | 1.145     | 0           | 95.5                            | 43.5                 | 121       |             |      |          |      |
| Chloromethane                    | 0.987                  | 0.0687                  | 1.145     | 0           | 86.1                            | 45                   | 130       |             |      |          |      |
| Vinyl chloride                   | 0.956                  | 0.00229                 | 1.145     | 0           | 83.4                            | 51.2                 | 146       |             |      |          |      |
| Bromomethane                     | 0.750                  | 0.103                   | 1.145     | 0           | 65.5                            | 21.3                 | 120       |             |      |          |      |
| Trichlorofluoromethane (CFC-11)  | 1.14                   | 0.0573                  | 1.145     | 0           | 99.9                            | 35                   | 131       |             |      |          |      |
| Chloroethane                     | 0.829                  | 0.0687                  | 1.145     | 0           | 72.3                            | 43.8                 | 117       |             |      |          |      |
| 1,1-Dichloroethene               | 1.20                   | 0.0573                  | 1.145     | 0           | 105                             | 61.9                 | 141       |             |      |          |      |
| Methylene chloride               | 1.06                   | 0.0229                  | 1.145     | 0           | 92.5                            | 54.7                 | 142       |             |      |          |      |
| trans-1,2-Dichloroethene         | 1.11                   | 0.0229                  | 1.145     | 0           | 96.5                            | 52                   | 136       |             |      |          |      |
| Methyl tert-butyl ether (MTBE)   | 1.34                   | 0.0573                  | 1.145     | 0           | 117                             | 54.4                 | 132       |             |      |          |      |
| 1,1-Dichloroethane               | 1.23                   | 0.0229                  | 1.145     | 0           | 107                             | 51.8                 | 141       |             |      |          |      |
| 2,2-Dichloropropane              | 1.14                   | 0.0573                  | 1.145     | 0           | 99.2                            | 36                   | 123       |             |      |          |      |
| cis-1,2-Dichloroethene           | 1.28                   | 0.0229                  | 1.145     | 0.04582     | 108                             | 58.6                 | 136       |             |      |          |      |
| Chloroform                       | 1.14                   | 0.0229                  | 1.145     | 0           | 99.6                            | 53.2                 | 129       |             |      |          |      |
| 1,1,1-Trichloroethane (TCA)      | 1.18                   | 0.0229                  | 1.145     | 0           | 103                             | 58.3                 | 145       |             |      |          |      |
| 1,1-Dichloropropene              | 1.14                   | 0.0229                  | 1.145     | 0           | 99.1                            | 55.1                 | 138       |             |      |          |      |
| Carbon tetrachloride             | 1.29                   | 0.0229                  | 1.145     | 0           | 113                             | 53.3                 | 144       |             |      |          |      |
| 1,2-Dichloroethane (EDC)         | 1.26                   | 0.0344                  | 1.145     | 0           | 110                             | 51.3                 | 139       |             |      |          |      |
| Benzene                          | 1.17                   | 0.0229                  | 1.145     | 0           | 102                             | 63.5                 | 133       |             |      |          |      |
| Trichloroethene (TCE)            | 1.25                   | 0.0229                  | 1.145     | 0           | 109                             | 68.6                 | 132       |             |      |          |      |
| 1,2-Dichloropropane              | 1.12                   | 0.0229                  | 1.145     | 0           | 97.5                            | 59                   | 136       |             |      |          |      |



**Work Order:** 1506161  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID <b>1506161-002BMS</b> | SampType: <b>MS</b>    | Units: <b>mg/Kg-dry</b> | Prep Date: <b>6/15/2015</b>     | RunNo: <b>22966</b>  |      |          |           |             |      |          |      |
|---------------------------------|------------------------|-------------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>SB-7-4 to 8</b>   | Batch ID: <b>11034</b> |                         | Analysis Date: <b>6/15/2015</b> | SeqNo: <b>435345</b> |      |          |           |             |      |          |      |
| Analyte                         | Result                 | RL                      | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| Analyte                     | Result | RL      | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------------|--------|---------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| Bromodichloromethane        | 1.20   | 0.0229  | 1.145     | 0           | 105  | 50.7     | 141       |             |      |          |      |
| Dibromomethane              | 1.16   | 0.0458  | 1.145     | 0           | 101  | 50.6     | 137       |             |      |          |      |
| cis-1,3-Dichloropropene     | 1.27   | 0.0229  | 1.145     | 0           | 111  | 50.4     | 138       |             |      |          |      |
| Toluene                     | 1.15   | 0.0229  | 1.145     | 0           | 100  | 63.4     | 132       |             |      |          |      |
| trans-1,3-Dichloropropylene | 1.29   | 0.0344  | 1.145     | 0           | 112  | 44.1     | 147       |             |      |          |      |
| 1,1,2-Trichloroethane       | 1.14   | 0.0344  | 1.145     | 0           | 99.3 | 51.6     | 137       |             |      |          |      |
| 1,3-Dichloropropane         | 1.24   | 0.0573  | 1.145     | 0           | 108  | 53.1     | 134       |             |      |          |      |
| Tetrachloroethene (PCE)     | 1.33   | 0.0229  | 1.145     | 0           | 116  | 35.6     | 158       |             |      |          |      |
| Dibromochloromethane        | 1.40   | 0.0344  | 1.145     | 0           | 122  | 55.3     | 140       |             |      |          |      |
| 1,2-Dibromoethane (EDB)     | 1.26   | 0.00573 | 1.145     | 0           | 110  | 50.4     | 136       |             |      |          |      |
| Chlorobenzene               | 1.27   | 0.0229  | 1.145     | 0           | 111  | 60       | 133       |             |      |          |      |
| 1,1,1,2-Tetrachloroethane   | 1.23   | 0.0344  | 1.145     | 0           | 107  | 53.1     | 142       |             |      |          |      |
| Ethylbenzene                | 1.24   | 0.0344  | 1.145     | 0           | 108  | 54.5     | 134       |             |      |          |      |
| m,p-Xylene                  | 2.72   | 0.0229  | 2.291     | 0           | 119  | 53.1     | 132       |             |      |          |      |
| o-Xylene                    | 1.34   | 0.0229  | 1.145     | 0           | 117  | 53.3     | 139       |             |      |          |      |
| Styrene                     | 1.36   | 0.0229  | 1.145     | 0           | 119  | 51.1     | 132       |             |      |          |      |
| Isopropylbenzene            | 1.29   | 0.0916  | 1.145     | 0           | 112  | 58.9     | 138       |             |      |          |      |
| Bromoform                   | 1.43   | 0.0229  | 1.145     | 0           | 125  | 57.9     | 130       |             |      |          |      |
| 1,1,1,2,2-Tetrachloroethane | 1.44   | 0.0229  | 1.145     | 0           | 125  | 51.9     | 131       |             |      |          |      |
| n-Propylbenzene             | 1.26   | 0.0229  | 1.145     | 0           | 110  | 53.6     | 140       |             |      |          |      |
| Bromobenzene                | 1.45   | 0.0344  | 1.145     | 0           | 126  | 54.2     | 140       |             |      |          |      |
| 1,3,5-Trimethylbenzene      | 1.27   | 0.0229  | 1.145     | 0           | 111  | 51.8     | 136       |             |      |          |      |
| 2-Chlorotoluene             | 1.26   | 0.0229  | 1.145     | 0           | 110  | 51.6     | 136       |             |      |          |      |
| 4-Chlorotoluene             | 1.26   | 0.0229  | 1.145     | 0           | 110  | 50.1     | 139       |             |      |          |      |
| tert-Butylbenzene           | 1.25   | 0.0229  | 1.145     | 0           | 109  | 50.5     | 135       |             |      |          |      |
| 1,2,3-Trichloropropane      | 1.43   | 0.0229  | 1.145     | 0           | 124  | 50.5     | 131       |             |      |          |      |
| 1,2,4-Trichlorobenzene      | 1.58   | 0.0573  | 1.145     | 0           | 138  | 50.8     | 130       |             |      |          | S    |
| sec-Butylbenzene            | 1.37   | 0.0229  | 1.145     | 0           | 120  | 52.6     | 141       |             |      |          |      |
| 4-Isopropyltoluene          | 1.26   | 0.0229  | 1.145     | 0           | 110  | 52.9     | 134       |             |      |          |      |
| 1,3-Dichlorobenzene         | 1.28   | 0.0229  | 1.145     | 0           | 111  | 52.6     | 131       |             |      |          |      |
| 1,4-Dichlorobenzene         | 1.27   | 0.0229  | 1.145     | 0           | 111  | 52.9     | 129       |             |      |          |      |

**Work Order:** 1506161  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID <b>1506161-002BMS</b> | SampType: <b>MS</b>    | Units: <b>mg/Kg-dry</b> | Prep Date: <b>6/15/2015</b>     | RunNo: <b>22966</b>  |      |          |           |             |      |          |      |
|---------------------------------|------------------------|-------------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>SB-7-4 to 8</b>   | Batch ID: <b>11034</b> |                         | Analysis Date: <b>6/15/2015</b> | SeqNo: <b>435345</b> |      |          |           |             |      |          |      |
| Analyte                         | Result                 | RL                      | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| n-Butylbenzene                  | 1.24                   | 0.0229                  | 1.145                           | 0                    | 109  | 52.6     | 130       |             |      |          |      |
| 1,2-Dichlorobenzene             | 1.25                   | 0.0229                  | 1.145                           | 0                    | 109  | 55.8     | 129       |             |      |          |      |
| 1,2-Dibromo-3-chloropropane     | 1.37                   | 0.573                   | 1.145                           | 0                    | 120  | 40.5     | 131       |             |      |          |      |
| 1,2,4-Trimethylbenzene          | 1.27                   | 0.0229                  | 1.145                           | 0                    | 111  | 50.6     | 137       |             |      |          |      |
| Hexachlorobutadiene             | 1.55                   | 0.115                   | 1.145                           | 0                    | 135  | 40.6     | 158       |             |      |          |      |
| Naphthalene                     | 1.60                   | 0.0344                  | 1.145                           | 0                    | 140  | 52.3     | 124       |             |      |          | S    |
| 1,2,3-Trichlorobenzene          | 1.85                   | 0.0229                  | 1.145                           | 0                    | 161  | 54.4     | 124       |             |      |          | S    |
| Surr: Dibromofluoromethane      | 1.34                   |                         | 1.432                           |                      | 93.8 | 63.7     | 129       |             |      |          |      |
| Surr: Toluene-d8                | 1.34                   |                         | 1.432                           |                      | 93.6 | 64.3     | 131       |             |      |          |      |
| Surr: 1-Bromo-4-fluorobenzene   | 1.39                   |                         | 1.432                           |                      | 97.3 | 63.1     | 141       |             |      |          |      |

**NOTES:**

S - Outlying QC recoveries were observed. The method is in control as indicated by the LCS.

| Sample ID <b>MB-11034</b>        | SampType: <b>MBLK</b>  | Units: <b>mg/Kg</b> | Prep Date: <b>6/15/2015</b>     | RunNo: <b>22966</b>  |      |          |           |             |      |          |      |
|----------------------------------|------------------------|---------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>MBLKS</b>          | Batch ID: <b>11034</b> |                     | Analysis Date: <b>6/15/2015</b> | SeqNo: <b>435348</b> |      |          |           |             |      |          |      |
| Analyte                          | Result                 | RL                  | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Dichlorodifluoromethane (CFC-12) | ND                     | 0.0600              |                                 |                      |      |          |           |             |      |          |      |
| Chloromethane                    | ND                     | 0.0600              |                                 |                      |      |          |           |             |      |          |      |
| Vinyl chloride                   | ND                     | 0.00200             |                                 |                      |      |          |           |             |      |          |      |
| Bromomethane                     | ND                     | 0.0900              |                                 |                      |      |          |           |             |      |          |      |
| Trichlorofluoromethane (CFC-11)  | ND                     | 0.0500              |                                 |                      |      |          |           |             |      |          |      |
| Chloroethane                     | ND                     | 0.0600              |                                 |                      |      |          |           |             |      |          |      |
| 1,1-Dichloroethene               | ND                     | 0.0500              |                                 |                      |      |          |           |             |      |          |      |
| Methylene chloride               | ND                     | 0.0200              |                                 |                      |      |          |           |             |      |          |      |
| trans-1,2-Dichloroethene         | ND                     | 0.0200              |                                 |                      |      |          |           |             |      |          |      |
| Methyl tert-butyl ether (MTBE)   | ND                     | 0.0500              |                                 |                      |      |          |           |             |      |          |      |
| 1,1-Dichloroethane               | ND                     | 0.0200              |                                 |                      |      |          |           |             |      |          |      |
| 2,2-Dichloropropane              | ND                     | 0.0500              |                                 |                      |      |          |           |             |      |          |      |
| cis-1,2-Dichloroethene           | ND                     | 0.0200              |                                 |                      |      |          |           |             |      |          |      |
| Chloroform                       | ND                     | 0.0200              |                                 |                      |      |          |           |             |      |          |      |
| 1,1,1-Trichloroethane (TCA)      | ND                     | 0.0200              |                                 |                      |      |          |           |             |      |          |      |



**Work Order:** 1506161  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID <b>MB-11034</b> | SampType: <b>MBLK</b>  | Units: <b>mg/Kg</b> | Prep Date: <b>6/15/2015</b>     | RunNo: <b>22966</b>  |      |          |           |             |      |          |      |
|---------------------------|------------------------|---------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>MBLKS</b>   | Batch ID: <b>11034</b> |                     | Analysis Date: <b>6/15/2015</b> | SeqNo: <b>435348</b> |      |          |           |             |      |          |      |
| Analyte                   | Result                 | RL                  | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| Analyte                     | Result | RL      | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------------|--------|---------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| 1,1-Dichloropropene         | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| Carbon tetrachloride        | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 1,2-Dichloroethane (EDC)    | ND     | 0.0300  |           |             |      |          |           |             |      |          |      |
| Benzene                     | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| Trichloroethene (TCE)       | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 1,2-Dichloropropane         | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| Bromodichloromethane        | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| Dibromomethane              | ND     | 0.0400  |           |             |      |          |           |             |      |          |      |
| cis-1,3-Dichloropropene     | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| Toluene                     | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| trans-1,3-Dichloropropylene | ND     | 0.0300  |           |             |      |          |           |             |      |          |      |
| 1,1,2-Trichloroethane       | ND     | 0.0300  |           |             |      |          |           |             |      |          |      |
| 1,3-Dichloropropane         | ND     | 0.0500  |           |             |      |          |           |             |      |          |      |
| Tetrachloroethene (PCE)     | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| Dibromochloromethane        | ND     | 0.0300  |           |             |      |          |           |             |      |          |      |
| 1,2-Dibromoethane (EDB)     | ND     | 0.00500 |           |             |      |          |           |             |      |          |      |
| Chlorobenzene               | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.0300  |           |             |      |          |           |             |      |          |      |
| Ethylbenzene                | ND     | 0.0300  |           |             |      |          |           |             |      |          |      |
| m,p-Xylene                  | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| o-Xylene                    | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| Styrene                     | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| Isopropylbenzene            | ND     | 0.0800  |           |             |      |          |           |             |      |          |      |
| Bromoform                   | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 1,1,1,2,2-Tetrachloroethane | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| n-Propylbenzene             | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| Bromobenzene                | ND     | 0.0300  |           |             |      |          |           |             |      |          |      |
| 1,3,5-Trimethylbenzene      | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 2-Chlorotoluene             | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 4-Chlorotoluene             | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| tert-Butylbenzene           | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |

**Work Order:** 1506161  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

|                           |                        |                     |                                 |                      |
|---------------------------|------------------------|---------------------|---------------------------------|----------------------|
| Sample ID <b>MB-11034</b> | SampType: <b>MBLK</b>  | Units: <b>mg/Kg</b> | Prep Date: <b>6/15/2015</b>     | RunNo: <b>22966</b>  |
| Client ID: <b>MBLKS</b>   | Batch ID: <b>11034</b> |                     | Analysis Date: <b>6/15/2015</b> | SeqNo: <b>435348</b> |

| Analyte                       | Result | RL     | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------------------|--------|--------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| 1,2,3-Trichloropropane        | ND     | 0.0200 |           |             |      |          |           |             |      |          |      |
| 1,2,4-Trichlorobenzene        | ND     | 0.0500 |           |             |      |          |           |             |      |          |      |
| sec-Butylbenzene              | ND     | 0.0200 |           |             |      |          |           |             |      |          |      |
| 4-Isopropyltoluene            | ND     | 0.0200 |           |             |      |          |           |             |      |          |      |
| 1,3-Dichlorobenzene           | ND     | 0.0200 |           |             |      |          |           |             |      |          |      |
| 1,4-Dichlorobenzene           | ND     | 0.0200 |           |             |      |          |           |             |      |          |      |
| n-Butylbenzene                | ND     | 0.0200 |           |             |      |          |           |             |      |          |      |
| 1,2-Dichlorobenzene           | ND     | 0.0200 |           |             |      |          |           |             |      |          |      |
| 1,2-Dibromo-3-chloropropane   | ND     | 0.500  |           |             |      |          |           |             |      |          |      |
| 1,2,4-Trimethylbenzene        | ND     | 0.0200 |           |             |      |          |           |             |      |          |      |
| Hexachlorobutadiene           | ND     | 0.100  |           |             |      |          |           |             |      |          |      |
| Naphthalene                   | ND     | 0.0300 |           |             |      |          |           |             |      |          |      |
| 1,2,3-Trichlorobenzene        | ND     | 0.0200 |           |             |      |          |           |             |      |          |      |
| Surr: Dibromofluoromethane    | 1.15   |        | 1.250     |             | 92.3 | 63.7     | 129       |             |      |          |      |
| Surr: Toluene-d8              | 1.10   |        | 1.250     |             | 88.3 | 64.3     | 131       |             |      |          |      |
| Surr: 1-Bromo-4-fluorobenzene | 1.22   |        | 1.250     |             | 97.4 | 63.1     | 141       |             |      |          |      |

Client Name: **PES**

 Work Order Number: **1506161**

 Logged by: **Clare Griggs**

 Date Received: **6/12/2015 6:58:00 PM**

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes  No  NA
4. Shipping container/cooler in good condition? Yes  No
5. Custody Seals present on shipping container/cooler?  
(Refer to comments for Custody Seals not intact) Yes  No  Not Required
6. Was an attempt made to cool the samples? Yes  No  NA
7. Were all items received at a temperature of >0°C to 10.0°C \* Yes  No  NA
8. Sample(s) in proper container(s)? Yes  No
9. Sufficient sample volume for indicated test(s)? Yes  No
10. Are samples properly preserved? Yes  No
11. Was preservative added to bottles? Yes  No  NA
12. Is there headspace in the VOA vials? Yes  No  NA
13. Did all samples containers arrive in good condition(unbroken)? Yes  No
14. Does paperwork match bottle labels? Yes  No
15. Are matrices correctly identified on Chain of Custody? Yes  No
16. Is it clear what analyses were requested? Yes  No
17. Were all holding times able to be met? Yes  No

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes  No  NA

|                      |   |      |   |
|----------------------|---|------|---|
| Person Notified:     | <input type="text" value="Chris DeBoer"/>                       | Date | <input type="text" value="6/15/2015"/>  |
| By Whom:             | <input type="text" value="Clare Griggs"/>                       | Via: | <input checked="" type="checkbox"/> eMail <input checked="" type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding:           | <input type="text" value="Water trip blank for soil samples."/> |      |   |
| Client Instructions: | <input type="text"/>  |      |   |

19. Additional remarks:

### Item Information

| Item # | Temp °C |
|--------|---------|
| Cooler | 0.6     |
| Sample | 2.1     |









3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

[info@fremontanalytical.com](mailto:info@fremontanalytical.com)

**PES Environmental, Inc.**

Kelly Rankich

1215 Fourth Avenue, Suite 1350

Seattle, WA 98161

**RE: Bethel Junction Phase II**

**Lab ID: 1506162**

June 24, 2015

**Attention Kelly Rankich:**

Fremont Analytical, Inc. received 2 sample(s) on 6/12/2015 for the analyses presented in the following report.

***Volatile Organic Compounds by EPA Method 8260***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Chelsea Ward".

Chelsea Ward  
Project Manager



Date: 06/24/2015

---

**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II  
**Lab Order:** 1506162

## Work Order Sample Summary

---

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 1506162-001   | SB-7-12          | 06/12/2015 3:30 PM  | 06/12/2015 7:00 PM |
| 1506162-002   | SB-8-9           | 06/12/2015 2:10 PM  | 06/12/2015 7:00 PM |

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Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

**CLIENT:** PES Environmental, Inc.**Project:** Bethel Junction Phase II

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**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

### Qualifiers:

- \* - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below LOQ
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit

### Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



# Analytical Report

WO#: 1506162

Date Reported: 6/24/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 3:30:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506162-001

**Matrix:** Groundwater

**Client Sample ID:** SB-7-12

| Analyses   | Result | RL     | Qual | Units | DF               | Date Analyzed         |
|--|--------|--------|------|-------|------------------|-----------------------|
| <b>Volatile Organic Compounds by EPA Method 8260</b> |        |        |      |       | Batch ID: R23164 | Analyst: BC           |
| Dichlorodifluoromethane (CFC-12)                     | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| Chloromethane  | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| Vinyl chloride                                       | ND     | 0.200  |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| Bromomethane   | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| Trichlorofluoromethane (CFC-11)                      | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| Chloroethane   | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| 1,1-Dichloroethene                                   | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| Methylene chloride                                   | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| trans-1,2-Dichloroethene                             | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| Methyl tert-butyl ether (MTBE)                       | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| 1,1-Dichloroethane                                   | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| 2,2-Dichloropropane                                  | ND     | 2.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| cis-1,2-Dichloroethene                               | 6.67   | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| Chloroform   | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| 1,1,1-Trichloroethane (TCA)                          | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| 1,1-Dichloropropene                                  | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| Carbon tetrachloride                                 | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| 1,2-Dichloroethane (EDC)                             | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| Benzene  | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| Trichloroethene (TCE)                                | ND     | 0.500  |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| 1,2-Dichloropropane                                  | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| Bromodichloromethane                                 | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| Dibromomethane                                       | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| cis-1,3-Dichloropropene                              | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| Toluene  | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| trans-1,3-Dichloropropene                            | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| 1,1,2-Trichloroethane                                | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| 1,3-Dichloropropane                                  | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| Tetrachloroethene (PCE)                              | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| Dibromochloromethane                                 | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| 1,2-Dibromoethane (EDB)                              | ND     | 0.0600 |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| Chlorobenzene  | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| 1,1,1,2-Tetrachloroethane                            | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| Ethylbenzene   | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| m,p-Xylene   | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| o-Xylene   | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| Styrene  | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| Isopropylbenzene                                     | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |
| Bromoform  | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 10:37:00 AM |



# Analytical Report

WO#: 1506162

Date Reported: 6/24/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 3:30:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506162-001

**Matrix:** Groundwater

**Client Sample ID:** SB-7-12

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23164

Analyst: BC

|                               |      |          |  |      |   |                       |
|-------------------------------|------|----------|--|------|---|-----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 10:37:00 AM |
| n-Propylbenzene               | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 10:37:00 AM |
| Bromobenzene                  | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 10:37:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 10:37:00 AM |
| 2-Chlorotoluene               | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 10:37:00 AM |
| 4-Chlorotoluene               | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 10:37:00 AM |
| tert-Butylbenzene             | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 10:37:00 AM |
| 1,2,3-Trichloropropane        | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 10:37:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 2.00     |  | µg/L | 1 | 6/24/2015 10:37:00 AM |
| sec-Butylbenzene              | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 10:37:00 AM |
| 4-Isopropyltoluene            | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 10:37:00 AM |
| 1,3-Dichlorobenzene           | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 10:37:00 AM |
| 1,4-Dichlorobenzene           | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 10:37:00 AM |
| n-Butylbenzene                | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 10:37:00 AM |
| 1,2-Dichlorobenzene           | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 10:37:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 10:37:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 10:37:00 AM |
| Hexachlorobutadiene           | ND   | 4.00     |  | µg/L | 1 | 6/24/2015 10:37:00 AM |
| Naphthalene                   | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 10:37:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 4.00     |  | µg/L | 1 | 6/24/2015 10:37:00 AM |
| Surr: Dibromofluoromethane    | 98.2 | 77.4-147 |  | %REC | 1 | 6/24/2015 10:37:00 AM |
| Surr: Toluene-d8              | 99.0 | 40.1-139 |  | %REC | 1 | 6/24/2015 10:37:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 101  | 64.2-128 |  | %REC | 1 | 6/24/2015 10:37:00 AM |



# Analytical Report

WO#: 1506162

Date Reported: 6/24/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 2:10:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506162-002

**Matrix:** Groundwater

**Client Sample ID:** SB-8-9

| Analyses   | Result | RL     | Qual | Units | DF               | Date Analyzed         |
|--|--------|--------|------|-------|------------------|-----------------------|
| <b>Volatile Organic Compounds by EPA Method 8260</b> |        |        |      |       | Batch ID: R23164 | Analyst: BC           |
| Dichlorodifluoromethane (CFC-12)                     | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| Chloromethane  | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| Vinyl chloride                                       | ND     | 0.200  |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| Bromomethane   | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| Trichlorofluoromethane (CFC-11)                      | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| Chloroethane   | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| 1,1-Dichloroethene                                   | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| Methylene chloride                                   | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| trans-1,2-Dichloroethene                             | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| Methyl tert-butyl ether (MTBE)                       | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| 1,1-Dichloroethane                                   | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| 2,2-Dichloropropane                                  | ND     | 2.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| cis-1,2-Dichloroethene                               | 13.1   | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| Chloroform   | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| 1,1,1-Trichloroethane (TCA)                          | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| 1,1-Dichloropropene                                  | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| Carbon tetrachloride                                 | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| 1,2-Dichloroethane (EDC)                             | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| Benzene  | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| Trichloroethene (TCE)                                | ND     | 0.500  |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| 1,2-Dichloropropane                                  | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| Bromodichloromethane                                 | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| Dibromomethane                                       | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| cis-1,3-Dichloropropene                              | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| Toluene  | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| trans-1,3-Dichloropropene                            | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| 1,1,2-Trichloroethane                                | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| 1,3-Dichloropropane                                  | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| Tetrachloroethene (PCE)                              | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| Dibromochloromethane                                 | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| 1,2-Dibromoethane (EDB)                              | ND     | 0.0600 |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| Chlorobenzene  | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| 1,1,1,2-Tetrachloroethane                            | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| Ethylbenzene   | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| m,p-Xylene   | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| o-Xylene   | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| Styrene  | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| Isopropylbenzene                                     | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |
| Bromoform  | ND     | 1.00   |      | µg/L  | 1                | 6/24/2015 11:05:00 AM |



# Analytical Report

WO#: 1506162

Date Reported: 6/24/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/12/2015 2:10:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1506162-002

**Matrix:** Groundwater

**Client Sample ID:** SB-8-9

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23164      Analyst: BC

|                               |      |          |  |      |   |                       |
|-------------------------------|------|----------|--|------|---|-----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 11:05:00 AM |
| n-Propylbenzene               | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 11:05:00 AM |
| Bromobenzene                  | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 11:05:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 11:05:00 AM |
| 2-Chlorotoluene               | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 11:05:00 AM |
| 4-Chlorotoluene               | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 11:05:00 AM |
| tert-Butylbenzene             | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 11:05:00 AM |
| 1,2,3-Trichloropropane        | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 11:05:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 2.00     |  | µg/L | 1 | 6/24/2015 11:05:00 AM |
| sec-Butylbenzene              | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 11:05:00 AM |
| 4-Isopropyltoluene            | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 11:05:00 AM |
| 1,3-Dichlorobenzene           | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 11:05:00 AM |
| 1,4-Dichlorobenzene           | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 11:05:00 AM |
| n-Butylbenzene                | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 11:05:00 AM |
| 1,2-Dichlorobenzene           | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 11:05:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 11:05:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 11:05:00 AM |
| Hexachlorobutadiene           | ND   | 4.00     |  | µg/L | 1 | 6/24/2015 11:05:00 AM |
| Naphthalene                   | ND   | 1.00     |  | µg/L | 1 | 6/24/2015 11:05:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 4.00     |  | µg/L | 1 | 6/24/2015 11:05:00 AM |
| Surr: Dibromofluoromethane    | 99.0 | 77.4-147 |  | %REC | 1 | 6/24/2015 11:05:00 AM |
| Surr: Toluene-d8              | 99.4 | 40.1-139 |  | %REC | 1 | 6/24/2015 11:05:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 98.8 | 64.2-128 |  | %REC | 1 | 6/24/2015 11:05:00 AM |





**Work Order:** 1506162  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID                        | LCS-R23164 | SampType: | LCS       | Units:         | µg/L      | Prep Date: | 6/24/2015 | RunNo:      | 23164 |          |      |
|----------------------------------|------------|-----------|-----------|----------------|-----------|------------|-----------|-------------|-------|----------|------|
| Client ID:                       | LCSW       | Batch ID: | R23164    | Analysis Date: | 6/24/2015 | SeqNo:     | 438793    |             |       |          |      |
| Analyte                          | Result     | RL        | SPK value | SPK Ref Val    | %REC      | LowLimit   | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Dichlorodifluoromethane (CFC-12) | 15.0       | 1.00      | 20.00     | 0              | 75.0      | 43         | 136       |             |       |          |      |
| Chloromethane                    | 16.8       | 1.00      | 20.00     | 0              | 83.8      | 43.9       | 139       |             |       |          |      |
| Vinyl chloride                   | 18.8       | 0.200     | 20.00     | 0              | 94.2      | 53.6       | 139       |             |       |          |      |
| Bromomethane                     | 24.1       | 1.00      | 20.00     | 0              | 120       | 42.5       | 152       |             |       |          |      |
| Trichlorofluoromethane (CFC-11)  | 18.7       | 1.00      | 20.00     | 0              | 93.6      | 63.7       | 133       |             |       |          |      |
| Chloroethane                     | 19.0       | 1.00      | 20.00     | 0              | 94.8      | 53         | 141       |             |       |          |      |
| 1,1-Dichloroethene               | 19.1       | 1.00      | 20.00     | 0              | 95.5      | 65.6       | 136       |             |       |          |      |
| Methylene chloride               | 20.3       | 1.00      | 20.00     | 0              | 101       | 67.1       | 131       |             |       |          |      |
| trans-1,2-Dichloroethene         | 18.3       | 1.00      | 20.00     | 0              | 91.4      | 71.7       | 129       |             |       |          |      |
| Methyl tert-butyl ether (MTBE)   | 19.4       | 1.00      | 20.00     | 0              | 97.2      | 67.7       | 131       |             |       |          |      |
| 1,1-Dichloroethane               | 18.4       | 1.00      | 20.00     | 0              | 92.2      | 67.9       | 134       |             |       |          |      |
| 2,2-Dichloropropane              | 17.0       | 2.00      | 20.00     | 0              | 84.8      | 33.7       | 152       |             |       |          |      |
| cis-1,2-Dichloroethene           | 18.7       | 1.00      | 20.00     | 0              | 93.6      | 71.1       | 130       |             |       |          |      |
| Chloroform                       | 18.1       | 1.00      | 20.00     | 0              | 90.4      | 66.3       | 131       |             |       |          |      |
| 1,1,1-Trichloroethane (TCA)      | 19.4       | 1.00      | 20.00     | 0              | 96.8      | 71         | 131       |             |       |          |      |
| 1,1-Dichloropropene              | 17.7       | 1.00      | 20.00     | 0              | 88.6      | 74.5       | 126       |             |       |          |      |
| Carbon tetrachloride             | 17.8       | 1.00      | 20.00     | 0              | 88.8      | 66.2       | 134       |             |       |          |      |
| 1,2-Dichloroethane (EDC)         | 18.8       | 1.00      | 20.00     | 0              | 94.1      | 70         | 129       |             |       |          |      |
| Benzene                          | 19.5       | 1.00      | 20.00     | 0              | 97.4      | 69.3       | 132       |             |       |          |      |
| Trichloroethene (TCE)            | 20.3       | 0.500     | 20.00     | 0              | 101       | 65.2       | 136       |             |       |          |      |
| 1,2-Dichloropropane              | 19.3       | 1.00      | 20.00     | 0              | 96.7      | 70.5       | 130       |             |       |          |      |
| Bromodichloromethane             | 18.5       | 1.00      | 20.00     | 0              | 92.3      | 67.2       | 137       |             |       |          |      |
| Dibromomethane                   | 19.0       | 1.00      | 20.00     | 0              | 94.9      | 75.5       | 126       |             |       |          |      |
| cis-1,3-Dichloropropene          | 18.4       | 1.00      | 20.00     | 0              | 91.8      | 62.6       | 137       |             |       |          |      |
| Toluene                          | 19.2       | 1.00      | 20.00     | 0              | 95.9      | 61.3       | 145       |             |       |          |      |
| trans-1,3-Dichloropropene        | 20.2       | 1.00      | 20.00     | 0              | 101       | 58.5       | 142       |             |       |          |      |
| 1,1,2-Trichloroethane            | 18.7       | 1.00      | 20.00     | 0              | 93.6      | 71.7       | 131       |             |       |          |      |
| 1,3-Dichloropropane              | 20.0       | 1.00      | 20.00     | 0              | 100       | 73.5       | 127       |             |       |          |      |
| Tetrachloroethene (PCE)          | 18.8       | 1.00      | 20.00     | 0              | 94.0      | 47.5       | 147       |             |       |          |      |
| Dibromochloromethane             | 19.4       | 1.00      | 20.00     | 0              | 96.9      | 67.2       | 134       |             |       |          |      |
| 1,2-Dibromoethane (EDB)          | 19.3       | 0.0600    | 20.00     | 0              | 96.7      | 73.6       | 125       |             |       |          |      |



Date: 6/24/2015

Work Order: 1506162  
 CLIENT: PES Environmental, Inc.  
 Project: Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID                     | LCS-R23164 | SampType: | LCS       | Units:         | µg/L      | Prep Date: | 6/24/2015 | RunNo:      | 23164 |          |      |
|-------------------------------|------------|-----------|-----------|----------------|-----------|------------|-----------|-------------|-------|----------|------|
| Client ID:                    | LCSW       | Batch ID: | R23164    | Analysis Date: | 6/24/2015 | SeqNo:     | 438793    |             |       |          |      |
| Analyte                       | Result     | RL        | SPK value | SPK Ref Val    | %REC      | LowLimit   | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Chlorobenzene                 | 20.5       | 1.00      | 20.00     | 0              | 102       | 73.9       | 126       |             |       |          |      |
| 1,1,1,2-Tetrachloroethane     | 17.8       | 1.00      | 20.00     | 0              | 89.0      | 76.8       | 124       |             |       |          |      |
| Ethylbenzene                  | 19.2       | 1.00      | 20.00     | 0              | 96.2      | 72         | 130       |             |       |          |      |
| m,p-Xylene                    | 38.9       | 1.00      | 40.00     | 0              | 97.3      | 70.3       | 134       |             |       |          |      |
| o-Xylene                      | 19.3       | 1.00      | 20.00     | 0              | 96.7      | 72.1       | 131       |             |       |          |      |
| Styrene                       | 20.2       | 1.00      | 20.00     | 0              | 101       | 64.3       | 140       |             |       |          |      |
| Isopropylbenzene              | 20.3       | 1.00      | 20.00     | 0              | 101       | 73.9       | 128       |             |       |          |      |
| Bromoform                     | 20.7       | 1.00      | 20.00     | 0              | 104       | 63.8       | 135       |             |       |          |      |
| 1,1,2,2-Tetrachloroethane     | 17.5       | 1.00      | 20.00     | 0              | 87.6      | 62.9       | 132       |             |       |          |      |
| n-Propylbenzene               | 19.4       | 1.00      | 20.00     | 0              | 96.9      | 74.5       | 127       |             |       |          |      |
| Bromobenzene                  | 20.0       | 1.00      | 20.00     | 0              | 99.8      | 71         | 131       |             |       |          |      |
| 1,3,5-Trimethylbenzene        | 19.3       | 1.00      | 20.00     | 0              | 96.5      | 73.1       | 128       |             |       |          |      |
| 2-Chlorotoluene               | 19.4       | 1.00      | 20.00     | 0              | 96.9      | 70.8       | 130       |             |       |          |      |
| 4-Chlorotoluene               | 19.5       | 1.00      | 20.00     | 0              | 97.6      | 70.1       | 131       |             |       |          |      |
| tert-Butylbenzene             | 19.7       | 1.00      | 20.00     | 0              | 98.6      | 68.2       | 131       |             |       |          |      |
| 1,2,3-Trichloropropane        | 21.5       | 1.00      | 20.00     | 0              | 108       | 67.7       | 131       |             |       |          |      |
| 1,2,4-Trichlorobenzene        | 23.1       | 2.00      | 20.00     | 0              | 115       | 67.6       | 129       |             |       |          |      |
| sec-Butylbenzene              | 20.3       | 1.00      | 20.00     | 0              | 101       | 72         | 129       |             |       |          |      |
| 4-Isopropyltoluene            | 19.7       | 1.00      | 20.00     | 0              | 98.6      | 69.2       | 130       |             |       |          |      |
| 1,3-Dichlorobenzene           | 20.2       | 1.00      | 20.00     | 0              | 101       | 72.4       | 129       |             |       |          |      |
| 1,4-Dichlorobenzene           | 20.0       | 1.00      | 20.00     | 0              | 99.8      | 70.6       | 128       |             |       |          |      |
| n-Butylbenzene                | 19.8       | 1.00      | 20.00     | 0              | 98.8      | 73.8       | 127       |             |       |          |      |
| 1,2-Dichlorobenzene           | 19.9       | 1.00      | 20.00     | 0              | 99.7      | 74.2       | 129       |             |       |          |      |
| 1,2-Dibromo-3-chloropropane   | 21.4       | 1.00      | 20.00     | 0              | 107       | 63.1       | 136       |             |       |          |      |
| 1,2,4-Trimethylbenzene        | 18.3       | 1.00      | 20.00     | 0              | 91.7      | 73.4       | 127       |             |       |          |      |
| Hexachlorobutadiene           | 23.0       | 4.00      | 20.00     | 0              | 115       | 58.6       | 138       |             |       |          |      |
| Naphthalene                   | 22.8       | 1.00      | 20.00     | 0              | 114       | 45.2       | 144       |             |       |          |      |
| 1,2,3-Trichlorobenzene        | 24.1       | 4.00      | 20.00     | 0              | 120       | 50.2       | 139       |             |       |          |      |
| Surr: Dibromofluoromethane    | 25.0       |           | 25.00     |                | 99.8      | 77.4       | 147       |             |       |          |      |
| Surr: Toluene-d8              | 24.3       |           | 25.00     |                | 97.1      | 40.1       | 139       |             |       |          |      |
| Surr: 1-Bromo-4-fluorobenzene | 25.5       |           | 25.00     |                | 102       | 64.2       | 128       |             |       |          |      |



Date: 6/24/2015

**Work Order:** 1506162  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID <b>LCS-R23164</b> | SampType: <b>LCS</b>    | Units: <b>µg/L</b>              | Prep Date: <b>6/24/2015</b> | RunNo: <b>23164</b> |      |          |           |             |      |          |      |
|-----------------------------|-------------------------|---------------------------------|-----------------------------|---------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>LCSW</b>      | Batch ID: <b>R23164</b> | Analysis Date: <b>6/24/2015</b> | SeqNo: <b>438793</b>        |                     |      |          |           |             |      |          |      |
| Analyte                     | Result                  | RL                              | SPK value                   | SPK Ref Val         | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| Sample ID <b>MB-R23164</b> | SampType: <b>MBLK</b>   | Units: <b>µg/L</b>              | Prep Date: <b>6/24/2015</b> | RunNo: <b>23164</b> |      |          |           |             |      |          |      |
|----------------------------|-------------------------|---------------------------------|-----------------------------|---------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>MBLKW</b>    | Batch ID: <b>R23164</b> | Analysis Date: <b>6/24/2015</b> | SeqNo: <b>438794</b>        |                     |      |          |           |             |      |          |      |
| Analyte                    | Result                  | RL                              | SPK value                   | SPK Ref Val         | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                                  |    |       |  |  |  |  |  |  |  |  |  |
|----------------------------------|----|-------|--|--|--|--|--|--|--|--|--|
| Dichlorodifluoromethane (CFC-12) | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| Chloromethane                    | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| Vinyl chloride                   | ND | 0.200 |  |  |  |  |  |  |  |  |  |
| Bromomethane                     | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| Trichlorofluoromethane (CFC-11)  | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| Chloroethane                     | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| 1,1-Dichloroethene               | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| Methylene chloride               | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| trans-1,2-Dichloroethene         | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| Methyl tert-butyl ether (MTBE)   | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| 1,1-Dichloroethane               | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| 2,2-Dichloropropane              | ND | 2.00  |  |  |  |  |  |  |  |  |  |
| cis-1,2-Dichloroethene           | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| Chloroform                       | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| 1,1,1-Trichloroethane (TCA)      | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| 1,1-Dichloropropene              | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| Carbon tetrachloride             | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| 1,2-Dichloroethane (EDC)         | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| Benzene                          | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| Trichloroethene (TCE)            | ND | 0.500 |  |  |  |  |  |  |  |  |  |
| 1,2-Dichloropropane              | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| Bromodichloromethane             | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| Dibromomethane                   | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| cis-1,3-Dichloropropene          | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| Toluene                          | ND | 1.00  |  |  |  |  |  |  |  |  |  |
| trans-1,3-Dichloropropene        | ND | 1.00  |  |  |  |  |  |  |  |  |  |



Date: 6/24/2015

**Work Order:** 1506162  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID <b>MB-R23164</b> | SampType: <b>MBLK</b>   | Units: <b>µg/L</b> | Prep Date: <b>6/24/2015</b>     | RunNo: <b>23164</b>  |      |          |           |             |      |          |      |
|----------------------------|-------------------------|--------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>MBLKW</b>    | Batch ID: <b>R23164</b> |                    | Analysis Date: <b>6/24/2015</b> | SeqNo: <b>438794</b> |      |          |           |             |      |          |      |
| Analyte                    | Result                  | RL                 | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| Analyte                     | Result | RL     | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------------|--------|--------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| 1,1,2-Trichloroethane       | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,3-Dichloropropane         | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Tetrachloroethene (PCE)     | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Dibromochloromethane        | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,2-Dibromoethane (EDB)     | ND     | 0.0600 |           |             |      |          |           |             |      |          |      |
| Chlorobenzene               | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,1,1,2-Tetrachloroethane   | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Ethylbenzene                | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| m,p-Xylene                  | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| o-Xylene                    | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Styrene                     | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Isopropylbenzene            | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Bromoform                   | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,1,2,2-Tetrachloroethane   | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| n-Propylbenzene             | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Bromobenzene                | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,3,5-Trimethylbenzene      | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 2-Chlorotoluene             | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 4-Chlorotoluene             | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| tert-Butylbenzene           | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,2,3-Trichloropropane      | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,2,4-Trichlorobenzene      | ND     | 2.00   |           |             |      |          |           |             |      |          |      |
| sec-Butylbenzene            | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 4-Isopropyltoluene          | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,3-Dichlorobenzene         | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,4-Dichlorobenzene         | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| n-Butylbenzene              | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,2-Dichlorobenzene         | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,2-Dibromo-3-chloropropane | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,2,4-Trimethylbenzene      | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Hexachlorobutadiene         | ND     | 4.00   |           |             |      |          |           |             |      |          |      |

**Work Order:** 1506162  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID <b>MB-R23164</b>    | SampType: <b>MBLK</b>   | Units: <b>µg/L</b> | Prep Date: <b>6/24/2015</b>     | RunNo: <b>23164</b>  |      |          |           |             |      |          |      |
|-------------------------------|-------------------------|--------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>MBLKW</b>       | Batch ID: <b>R23164</b> |                    | Analysis Date: <b>6/24/2015</b> | SeqNo: <b>438794</b> |      |          |           |             |      |          |      |
| Analyte                       | Result                  | RL                 | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Naphthalene                   | ND                      | 1.00               |                                 |                      |      |          |           |             |      |          |      |
| 1,2,3-Trichlorobenzene        | ND                      | 4.00               |                                 |                      |      |          |           |             |      |          |      |
| Surr: Dibromofluoromethane    | 25.1                    |                    | 25.00                           |                      | 100  | 77.4     | 147       |             |      |          |      |
| Surr: Toluene-d8              | 24.4                    |                    | 25.00                           |                      | 97.7 | 40.1     | 139       |             |      |          |      |
| Surr: 1-Bromo-4-fluorobenzene | 24.4                    |                    | 25.00                           |                      | 97.5 | 64.2     | 128       |             |      |          |      |

| Sample ID <b>1506194-001EDUP</b> | SampType: <b>DUP</b>    | Units: <b>µg/L</b> | Prep Date: <b>6/24/2015</b>     | RunNo: <b>23164</b>  |      |          |           |             |      |          |      |
|----------------------------------|-------------------------|--------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>BATCH</b>          | Batch ID: <b>R23164</b> |                    | Analysis Date: <b>6/24/2015</b> | SeqNo: <b>438863</b> |      |          |           |             |      |          |      |
| Analyte                          | Result                  | RL                 | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Dichlorodifluoromethane (CFC-12) | ND                      | 1.00               |                                 |                      |      |          |           | 0           |      | 30       |      |
| Chloromethane                    | ND                      | 1.00               |                                 |                      |      |          |           | 0           |      | 30       |      |
| Vinyl chloride                   | ND                      | 0.200              |                                 |                      |      |          |           | 0           |      | 30       |      |
| Bromomethane                     | ND                      | 1.00               |                                 |                      |      |          |           | 0           |      | 30       |      |
| Trichlorofluoromethane (CFC-11)  | ND                      | 1.00               |                                 |                      |      |          |           | 0           |      | 30       |      |
| Chloroethane                     | ND                      | 1.00               |                                 |                      |      |          |           | 0           |      | 30       |      |
| 1,1-Dichloroethene               | ND                      | 1.00               |                                 |                      |      |          |           | 0           |      | 30       |      |
| Methylene chloride               | ND                      | 1.00               |                                 |                      |      |          |           | 0           |      | 30       |      |
| trans-1,2-Dichloroethene         | ND                      | 1.00               |                                 |                      |      |          |           | 0           |      | 30       |      |
| Methyl tert-butyl ether (MTBE)   | ND                      | 1.00               |                                 |                      |      |          |           | 0           |      | 30       |      |
| 1,1-Dichloroethane               | ND                      | 1.00               |                                 |                      |      |          |           | 0           |      | 30       |      |
| 2,2-Dichloropropane              | ND                      | 2.00               |                                 |                      |      |          |           | 0           |      | 30       |      |
| cis-1,2-Dichloroethene           | 13.6                    | 1.00               |                                 |                      |      |          |           | 11.26       | 19.1 | 30       |      |
| Chloroform                       | ND                      | 1.00               |                                 |                      |      |          |           | 0           |      | 30       |      |
| 1,1,1-Trichloroethane (TCA)      | ND                      | 1.00               |                                 |                      |      |          |           | 0           |      | 30       |      |
| 1,1-Dichloropropene              | ND                      | 1.00               |                                 |                      |      |          |           | 0           |      | 30       |      |
| Carbon tetrachloride             | ND                      | 1.00               |                                 |                      |      |          |           | 0           |      | 30       |      |
| 1,2-Dichloroethane (EDC)         | ND                      | 1.00               |                                 |                      |      |          |           | 0           |      | 30       |      |
| Benzene                          | 7.79                    | 1.00               |                                 |                      |      |          |           | 7.020       | 10.4 | 30       |      |
| Trichloroethene (TCE)            | 4.95                    | 0.500              |                                 |                      |      |          |           | 4.460       | 10.4 | 30       |      |
| 1,2-Dichloropropane              | ND                      | 1.00               |                                 |                      |      |          |           | 0           |      | 30       |      |



Date: 6/24/2015

Work Order: 1506162  
 CLIENT: PES Environmental, Inc.  
 Project: Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID                 | 1506194-001EDUP | SampType: | DUP       | Units:         | µg/L      | Prep Date: | 6/24/2015 | RunNo:      | 23164 |          |      |
|---------------------------|-----------------|-----------|-----------|----------------|-----------|------------|-----------|-------------|-------|----------|------|
| Client ID:                | BATCH           | Batch ID: | R23164    | Analysis Date: | 6/24/2015 | SeqNo:     | 438863    |             |       |          |      |
| Analyte                   | Result          | RL        | SPK value | SPK Ref Val    | %REC      | LowLimit   | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Bromodichloromethane      | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Dibromomethane            | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| cis-1,3-Dichloropropene   | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Toluene                   | 175             | 1.00      |           |                |           |            |           | 157.2       | 10.5  | 30       | E    |
| trans-1,3-Dichloropropene | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,1,2-Trichloroethane     | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,3-Dichloropropane       | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Tetrachloroethene (PCE)   | 26.6            | 1.00      |           |                |           |            |           | 24.29       | 8.89  | 30       |      |
| Dibromochloromethane      | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,2-Dibromoethane (EDB)   | ND              | 0.0600    |           |                |           |            |           | 0           |       | 30       |      |
| Chlorobenzene             | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,1,1,2-Tetrachloroethane | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Ethylbenzene              | 128             | 1.00      |           |                |           |            |           | 122.4       | 4.53  | 30       | E    |
| m,p-Xylene                | 1,520           | 1.00      |           |                |           |            |           | 1,428       | 5.98  | 30       | E    |
| o-Xylene                  | 969             | 1.00      |           |                |           |            |           | 918.7       | 5.30  | 30       | E    |
| Styrene                   | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Isopropylbenzene          | 33.8            | 1.00      |           |                |           |            |           | 30.60       | 10.0  | 30       |      |
| Bromoform                 | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,1,2,2-Tetrachloroethane | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| n-Propylbenzene           | 55.7            | 1.00      |           |                |           |            |           | 51.00       | 8.79  | 30       | E    |
| Bromobenzene              | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,3,5-Trimethylbenzene    | 318             | 1.00      |           |                |           |            |           | 300.1       | 5.70  | 30       | E    |
| 2-Chlorotoluene           | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 4-Chlorotoluene           | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| tert-Butylbenzene         | 1.27            | 1.00      |           |                |           |            |           | 1.270       | 0     | 30       |      |
| 1,2,3-Trichloropropane    | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,2,4-Trichlorobenzene    | ND              | 2.00      |           |                |           |            |           | 0           |       | 30       |      |
| sec-Butylbenzene          | 6.78            | 1.00      |           |                |           |            |           | 5.800       | 15.6  | 30       |      |
| 4-Isopropyltoluene        | 9.06            | 1.00      |           |                |           |            |           | 8.020       | 12.2  | 30       |      |
| 1,3-Dichlorobenzene       | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,4-Dichlorobenzene       | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |

Work Order: 1506162  
 CLIENT: PES Environmental, Inc.  
 Project: Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID                     | 1506194-001EDUP | SampType: | DUP       | Units:         | µg/L      | Prep Date: | 6/24/2015 | RunNo:      | 23164 |          |      |
|-------------------------------|-----------------|-----------|-----------|----------------|-----------|------------|-----------|-------------|-------|----------|------|
| Client ID:                    | BATCH           | Batch ID: | R23164    | Analysis Date: | 6/24/2015 | SeqNo:     | 438863    |             |       |          |      |
| Analyte                       | Result          | RL        | SPK value | SPK Ref Val    | %REC      | LowLimit   | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| n-Butylbenzene                | 30.0            | 1.00      |           |                |           |            |           | 26.49       | 12.3  | 30       |      |
| 1,2-Dichlorobenzene           | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,2-Dibromo-3-chloropropane   | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,2,4-Trimethylbenzene        | 572             | 1.00      |           |                |           |            |           | 551.2       | 3.76  | 30       | E    |
| Hexachlorobutadiene           | ND              | 4.00      |           |                |           |            |           | 0           |       | 30       |      |
| Naphthalene                   | 436             | 1.00      |           |                |           |            |           | 372.2       | 15.7  | 30       | E    |
| 1,2,3-Trichlorobenzene        | ND              | 4.00      |           |                |           |            |           | 0           |       | 30       |      |
| Surr: Dibromofluoromethane    | 24.9            |           | 25.00     |                | 99.5      | 77.4       | 147       |             | 0     |          |      |
| Surr: Toluene-d8              | 27.1            |           | 25.00     |                | 109       | 40.1       | 139       |             | 0     |          |      |
| Surr: 1-Bromo-4-fluorobenzene | 27.1            |           | 25.00     |                | 108       | 64.2       | 128       |             | 0     |          |      |

| Sample ID                        | 1506219-026BMS | SampType: | MS        | Units:         | µg/L      | Prep Date: | 6/24/2015 | RunNo:      | 23164 |          |      |
|----------------------------------|----------------|-----------|-----------|----------------|-----------|------------|-----------|-------------|-------|----------|------|
| Client ID:                       | BATCH          | Batch ID: | R23164    | Analysis Date: | 6/24/2015 | SeqNo:     | 438883    |             |       |          |      |
| Analyte                          | Result         | RL        | SPK value | SPK Ref Val    | %REC      | LowLimit   | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Dichlorodifluoromethane (CFC-12) | 15.0           | 1.00      | 20.00     | 0              | 74.8      | 33.3       | 122       |             |       |          |      |
| Chloromethane                    | 18.1           | 1.00      | 20.00     | 0              | 90.4      | 48.2       | 145       |             |       |          |      |
| Vinyl chloride                   | 19.6           | 0.200     | 20.00     | 0              | 97.8      | 58.1       | 158       |             |       |          |      |
| Bromomethane                     | 20.8           | 1.00      | 20.00     | 0              | 104       | 31.5       | 135       |             |       |          |      |
| Trichlorofluoromethane (CFC-11)  | 19.6           | 1.00      | 20.00     | 0              | 97.9      | 54.7       | 138       |             |       |          |      |
| Chloroethane                     | 18.8           | 1.00      | 20.00     | 0              | 94.3      | 49.9       | 143       |             |       |          |      |
| 1,1-Dichloroethene               | 20.3           | 1.00      | 20.00     | 0              | 102       | 63         | 141       |             |       |          |      |
| Methylene chloride               | 19.9           | 1.00      | 20.00     | 0              | 99.3      | 61.6       | 135       |             |       |          |      |
| trans-1,2-Dichloroethene         | 18.9           | 1.00      | 20.00     | 0              | 94.3      | 63.5       | 138       |             |       |          |      |
| Methyl tert-butyl ether (MTBE)   | 18.7           | 1.00      | 20.00     | 0              | 93.6      | 60.9       | 132       |             |       |          |      |
| 1,1-Dichloroethane               | 19.8           | 1.00      | 20.00     | 0              | 99.2      | 67.8       | 136       |             |       |          |      |
| 2,2-Dichloropropane              | 11.5           | 2.00      | 20.00     | 0              | 57.4      | 31.5       | 121       |             |       |          |      |
| cis-1,2-Dichloroethene           | 19.5           | 1.00      | 20.00     | 0              | 97.6      | 67.1       | 123       |             |       |          |      |
| Chloroform                       | 18.0           | 1.00      | 20.00     | 0              | 89.8      | 66.7       | 136       |             |       |          |      |
| 1,1,1-Trichloroethane (TCA)      | 19.0           | 1.00      | 20.00     | 0              | 95.1      | 64.2       | 146       |             |       |          |      |
| 1,1-Dichloropropene              | 17.9           | 1.00      | 20.00     | 0              | 89.7      | 73.8       | 136       |             |       |          |      |



**Work Order:** 1506162  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

|                                 |                         |                    |                                 |                      |
|---------------------------------|-------------------------|--------------------|---------------------------------|----------------------|
| Sample ID <b>1506219-026BMS</b> | SampType: <b>MS</b>     | Units: <b>µg/L</b> | Prep Date: <b>6/24/2015</b>     | RunNo: <b>23164</b>  |
| Client ID: <b>BATCH</b>         | Batch ID: <b>R23164</b> |                    | Analysis Date: <b>6/24/2015</b> | SeqNo: <b>438883</b> |

| Analyte                     | Result | RL     | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------------|--------|--------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| Carbon tetrachloride        | 15.6   | 1.00   | 20.00     | 0           | 78.1 | 62.7     | 146       |             |      |          |      |
| 1,2-Dichloroethane (EDC)    | 19.3   | 1.00   | 20.00     | 0           | 96.5 | 63.4     | 137       |             |      |          |      |
| Benzene                     | 19.9   | 1.00   | 20.00     | 0           | 99.5 | 65.4     | 138       |             |      |          |      |
| Trichloroethene (TCE)       | 19.8   | 0.500  | 20.00     | 0           | 98.8 | 60.4     | 134       |             |      |          |      |
| 1,2-Dichloropropane         | 19.8   | 1.00   | 20.00     | 0           | 98.8 | 62.6     | 138       |             |      |          |      |
| Bromodichloromethane        | 17.6   | 1.00   | 20.00     | 0           | 88.2 | 59.4     | 139       |             |      |          |      |
| Dibromomethane              | 18.6   | 1.00   | 20.00     | 0           | 92.8 | 63.6     | 139       |             |      |          |      |
| cis-1,3-Dichloropropene     | 17.1   | 1.00   | 20.00     | 0           | 85.4 | 63.8     | 132       |             |      |          |      |
| Toluene                     | 19.2   | 1.00   | 20.00     | 0.2200      | 95.1 | 64       | 139       |             |      |          |      |
| trans-1,3-Dichloropropene   | 18.0   | 1.00   | 20.00     | 0           | 89.8 | 57.7     | 125       |             |      |          |      |
| 1,1,2-Trichloroethane       | 18.8   | 1.00   | 20.00     | 0           | 94.3 | 59.4     | 127       |             |      |          |      |
| 1,3-Dichloropropane         | 19.6   | 1.00   | 20.00     | 0           | 98.2 | 64.3     | 135       |             |      |          |      |
| Tetrachloroethene (PCE)     | 19.6   | 1.00   | 20.00     | 0           | 98.1 | 50.3     | 133       |             |      |          |      |
| Dibromochloromethane        | 17.8   | 1.00   | 20.00     | 0           | 89.0 | 61.6     | 139       |             |      |          |      |
| 1,2-Dibromoethane (EDB)     | 19.1   | 0.0600 | 20.00     | 0           | 95.6 | 63.2     | 134       |             |      |          |      |
| Chlorobenzene               | 20.8   | 1.00   | 20.00     | 0           | 104  | 65.8     | 134       |             |      |          |      |
| 1,1,1,2-Tetrachloroethane   | 17.5   | 1.00   | 20.00     | 0           | 87.7 | 65.4     | 135       |             |      |          |      |
| Ethylbenzene                | 20.0   | 1.00   | 20.00     | 0.2500      | 98.5 | 64.5     | 136       |             |      |          |      |
| m,p-Xylene                  | 40.2   | 1.00   | 40.00     | 0.7800      | 98.4 | 63.3     | 135       |             |      |          |      |
| o-Xylene                    | 19.9   | 1.00   | 20.00     | 0.3400      | 97.6 | 65.4     | 134       |             |      |          |      |
| Styrene                     | 19.3   | 1.00   | 20.00     | 0           | 96.4 | 59.1     | 134       |             |      |          |      |
| Isopropylbenzene            | 20.4   | 1.00   | 20.00     | 0           | 102  | 56       | 147       |             |      |          |      |
| Bromoform                   | 18.1   | 1.00   | 20.00     | 0.3600      | 88.7 | 57.7     | 139       |             |      |          |      |
| 1,1,1,2,2-Tetrachloroethane | 18.4   | 1.00   | 20.00     | 0           | 92.2 | 59.8     | 146       |             |      |          |      |
| n-Propylbenzene             | 19.7   | 1.00   | 20.00     | 0.1700      | 97.8 | 57.6     | 142       |             |      |          |      |
| Bromobenzene                | 19.8   | 1.00   | 20.00     | 0           | 99.2 | 63.6     | 130       |             |      |          |      |
| 1,3,5-Trimethylbenzene      | 19.0   | 1.00   | 20.00     | 0.3600      | 93.2 | 59.9     | 136       |             |      |          |      |
| 2-Chlorotoluene             | 19.7   | 1.00   | 20.00     | 0.1700      | 97.8 | 61.7     | 134       |             |      |          |      |
| 4-Chlorotoluene             | 19.8   | 1.00   | 20.00     | 0           | 98.8 | 58.4     | 134       |             |      |          |      |
| tert-Butylbenzene           | 19.1   | 1.00   | 20.00     | 0           | 95.7 | 66.8     | 141       |             |      |          |      |
| 1,2,3-Trichloropropane      | 18.9   | 1.00   | 20.00     | 0           | 94.5 | 62.4     | 129       |             |      |          |      |





Date: 6/24/2015

Work Order: 1506162  
 CLIENT: PES Environmental, Inc.  
 Project: Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID <b>1506219-026BMS</b> | SampType: <b>MS</b>     | Units: <b>µg/L</b> | Prep Date: <b>6/24/2015</b>     | RunNo: <b>23164</b>  |      |          |           |             |      |          |      |
|---------------------------------|-------------------------|--------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>BATCH</b>         | Batch ID: <b>R23164</b> |                    | Analysis Date: <b>6/24/2015</b> | SeqNo: <b>438883</b> |      |          |           |             |      |          |      |
| Analyte                         | Result                  | RL                 | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                               |      |      |       |        |      |      |     |  |  |  |  |
|-------------------------------|------|------|-------|--------|------|------|-----|--|--|--|--|
| 1,2,4-Trichlorobenzene        | 20.0 | 2.00 | 20.00 | 0      | 100  | 50.9 | 133 |  |  |  |  |
| sec-Butylbenzene              | 19.9 | 1.00 | 20.00 | 0      | 99.6 | 56   | 146 |  |  |  |  |
| 4-Isopropyltoluene            | 19.7 | 1.00 | 20.00 | 0.1100 | 98.1 | 56.4 | 136 |  |  |  |  |
| 1,3-Dichlorobenzene           | 19.4 | 1.00 | 20.00 | 0      | 97.0 | 58.2 | 128 |  |  |  |  |
| 1,4-Dichlorobenzene           | 19.0 | 1.00 | 20.00 | 0      | 95.0 | 60.1 | 123 |  |  |  |  |
| n-Butylbenzene                | 18.0 | 1.00 | 20.00 | 0.1700 | 89.4 | 54.6 | 135 |  |  |  |  |
| 1,2-Dichlorobenzene           | 19.3 | 1.00 | 20.00 | 0      | 96.4 | 65.4 | 133 |  |  |  |  |
| 1,2-Dibromo-3-chloropropane   | 19.7 | 1.00 | 20.00 | 0      | 98.6 | 51.8 | 142 |  |  |  |  |
| 1,2,4-Trimethylbenzene        | 18.5 | 1.00 | 20.00 | 1.660  | 84.3 | 63.7 | 132 |  |  |  |  |
| Hexachlorobutadiene           | 18.2 | 4.00 | 20.00 | 0      | 91.2 | 58.1 | 130 |  |  |  |  |
| Naphthalene                   | 20.5 | 1.00 | 20.00 | 5.040  | 77.4 | 54.5 | 132 |  |  |  |  |
| 1,2,3-Trichlorobenzene        | 17.8 | 4.00 | 20.00 | 0.1900 | 88.2 | 57   | 131 |  |  |  |  |
| Surr: Dibromofluoromethane    | 24.3 |      | 25.00 |        | 97.3 | 77.4 | 147 |  |  |  |  |
| Surr: Toluene-d8              | 24.1 |      | 25.00 |        | 96.2 | 40.1 | 139 |  |  |  |  |
| Surr: 1-Bromo-4-fluorobenzene | 25.2 |      | 25.00 |        | 101  | 64.2 | 128 |  |  |  |  |



## Sample Log-In Check List

|                                |  |
|--------------------------------|--|
| Client Name: <b>PES</b>        | Work Order Number: <b>1506162</b>          |
| Logged by: <b>Clare Griggs</b> | Date Received: <b>6/12/2015 7:00:00 PM</b> |

### Chain of Custody

1. Is Chain of Custody complete?      Yes       No       Not Present
2. How was the sample delivered?      Client

### Log In

3. Coolers are present?      Yes       No       NA
4. Shipping container/cooler in good condition?      Yes       No
5. Custody Seals present on shipping container/cooler?  
(Refer to comments for Custody Seals not intact)      Yes       No       Not Required
6. Was an attempt made to cool the samples?      Yes       No       NA
7. Were all items received at a temperature of >0°C to 10.0°C \*      Yes       No       NA
8. Sample(s) in proper container(s)?      Yes       No
9. Sufficient sample volume for indicated test(s)?      Yes       No
10. Are samples properly preserved?      Yes       No
11. Was preservative added to bottles?      Yes       No       NA
12. Is there headspace in the VOA vials?      Yes       No       NA
13. Did all samples containers arrive in good condition(unbroken)?      Yes       No
14. Does paperwork match bottle labels?      Yes       No
15. Are matrices correctly identified on Chain of Custody?      Yes       No
16. Is it clear what analyses were requested?      Yes       No
17. Were all holding times able to be met?      Yes       No

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order?      Yes       No       NA

|                      |                      |      |   |
|----------------------|----------------------|------|---|
| Person Notified:     | <input type="text"/> | Date | <input type="text"/>  |
| By Whom:             | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding:           | <input type="text"/> |      |   |
| Client Instructions: | <input type="text"/> |      |   |

19. Additional remarks:

### Item Information

| Item # | Temp °C |
|--------|---------|
| Cooler | 0.6     |
| Sample | 2.1     |

\* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



## MEMORANDUM

**TO:** Project File **DATE:** August 26, 2015  
**FROM:** Jessie Compeau **PROJECT:** 1246.030.02.002  
**SUBJECT:** Bethel Junction, Soil and Groundwater Sample Data Review – June 12, 2015  
Sampling Event  
Fremont Lab Packages 1506161 and 1506162

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Ten (10) soil samples (including a field duplicate), two (2) groundwater samples, and a trip blank sample were collected as part of a Phase 2 Investigation at the Bethel Junction in Port Orchard, Washington, on June 12, 2015. The samples were delivered to Fremont Analytical (Fremont) of Seattle, Washington for laboratory analysis. Project samples were analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C. The results were reported in Fremont Lab Packages 1506161 and 1506162.

The quality assurance review of the data is summarized below.

### **DATA QUALIFICATIONS**

Guidelines established by the USEPA for review of analytical data were used to validate the data. Fremont Analytical control limit criteria were also used to assess the quality of the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the laboratory report and USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA, 1999).

### **DATA VALIDATION**

#### **Sample Receipt, Preservation and Handling**

The samples were delivered to the project laboratory in coolers under standard chain-of-custody protocols with the following discussion:

PES Environmental submitted a trip blank along with the soil samples (Fremont Lab Package 1506161) and later cancelled the request for analysis (PES Environmental, Inc). No action was taken other than to note this.

Review of Fremont's Sample Log-In Check List Form indicates that all samples were received in good condition at a cooler temperature of 0.6 degrees Centigrade (°C). Samples in the cooler were recorded at a temperature of 2.1°C within the recommended preservation temperature range of 4.0°C ± 2.0°C. The sample receipt log indicated that the samples in the coolers were received properly stored in a cooler, preserved, and cooled with ice/gel packs and in good condition at the time of laboratory receipt. No data qualifications were assigned due to temperature preservation issues.

### **Holding Times**

#### *USEPA Method 8260C (VOCs):*

All samples were analyzed for VOCs within the EPA recommended holding time of 14 days (soils and preserved water) from the data of sample collection. All holding time criteria were met.

### **Initial and Continuing Calibration**

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. The case narrative did not indicate any issues with calibration; therefore no qualifications were warranted.

### **Method Blank Results**

#### *USEPA Method 8260C (VOCs):*

Laboratory method blanks for soils and waters were included with the analytical batch per method requirement. The target analytes were not detected in the method blank for soil or water at or above the method reporting limits (MRLs). No qualifications of the data were made due to the results of the method blank analyses.

### **Trip Blank Results**

#### *USEPA Method 8260C (VOCs):*

A trip blank associated with the soil samples was collected but not analyzed per client request.

### **Field, Rinsate, or Equipment Blank Results**

#### *USEPA Method 8260C (VOCs):*

Field, rinsate, or equipment blanks were not collected.

### **Laboratory Duplicate Analyses**

#### *USEPA Method 8260C (VOCs):*

Laboratory duplicate analyses was performed on soil sample SB-7- 0 to 4. The primary/duplicate RPDs were within the laboratory control limit of 30%. Duplicate data are acceptable.

A laboratory duplicate was performed on an unrelated water sample within the analytical batch. This particular sample had multiple elevated targets which were qualified (E) by Fremont to indicate that values exceeded quantitation range. No action was taken other than to note that the primary/duplicate RPDs were within the laboratory control limit of 30%. Duplicate data are acceptable.

### **Field Duplicate Analyses**

#### *USEPA Method 8260C (VOCs):*

Soil field duplicate samples SB-8-10 and SB-8-10D were collected and submitted for VOC analysis. VOC results are comparable and RPDs for all analytes are less than 30% RPD. Field duplicate data are acceptable.

A water field duplicate sample was not collected. Refer to the laboratory duplicate result for precision data.

### **Surrogate Recoveries**

#### *USEPA Method 8260C (VOCs):*

The surrogate recovery results for the soil and water samples, laboratory duplicates, laboratory control samples, matrix spikes, and the method blanks were within the laboratory surrogate control limits for all of the analyses.

### **Matrix Spike/ Matrix Spike Duplicates**

#### *USEPA Method 8260C (VOCs):*

A matrix spike (MS) analysis was performed on soil sample SB-7- 4 to 8. Matrix spike analysis was performed on an unrelated water sample within the analytical batch. One MS is required for each sample event (maximum of 20 samples in a group); therefore, the MS analysis meets this required frequency. The MS percent recoveries (%Rs) for all 8260C target analytes were within the laboratory control criteria with the following discussion:

Soil matrix spike recoveries for 1,2,4-trichlorobenzene, naphthalene, and 1,2,3-trichlorobenzene were high and above Fremont laboratory control limit criteria. No action was taken since these compounds were not detected in the associated samples.

### **Laboratory Control Samples**

#### *USEPA Method 8260C (VOCs):*

Laboratory control samples (LCSs) for soil and water were analyzed by USEPA Method 8260C method for each VOC analysis group. The frequency of analysis of LCSs was appropriate. The LCS %Rs for the control analytes (VOCs) were within the laboratory control criteria for soils and water. No data qualifications were warranted.

### **Quantitation Limits**

Results of all analyses were reported based on standard laboratory MRLs. The reported MRLs are considered appropriate for this project. No data qualifiers were warranted based upon standard or dilution-elevated detection limits.

### **Completeness**

The samples were collected and analyzed as requested. The results in all cases were reported based upon standard Method Reporting Limits (MRLs). Data completeness is 100%.

## **Data Assessment**

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA, 1999)

No data were qualified. All data are judged to be acceptable for their intended use.



3600 Fremont Ave. N.

Seattle, WA 98103

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[info@fremontanalytical.com](mailto:info@fremontanalytical.com)

**PES Environmental, Inc.**

Kelly Rankich

1215 Fourth Avenue, Suite 1350

Seattle, WA 98161

**RE: Bethel Interior**

**Lab ID: 1506311**

September 08, 2015

**Attention Kelly Rankich:**

Fremont Analytical, Inc. received 23 sample(s) on 6/26/2015 for the analyses presented in the following report.

***Ion Chromatography by EPA Method 300.0***

***Mercury by EPA Method 7471***

***Sample Moisture (Percent Moisture)***

***Total Metals by EPA Method 6020***

***Volatile Organic Compounds by EPA Method 8260***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Chelsea Ward".

Chelsea Ward  
Project Manager





Date: 09/08/2015

**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Interior  
**Lab Order:** 1506311

## Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 1506311-001   | SB-11-0.5        | 06/25/2015 9:25 AM  | 06/26/2015 8:00 AM |
| 1506311-002   | SB-11-2          | 06/25/2015 9:30 AM  | 06/26/2015 8:00 AM |
| 1506311-003   | SB-11-2D         | 06/25/2015 9:50 AM  | 06/26/2015 8:00 AM |
| 1506311-004   | SB-11-9          | 06/25/2015 9:35 AM  | 06/26/2015 8:00 AM |
| 1506311-005   | SB-11-15         | 06/25/2015 9:40 AM  | 06/26/2015 8:00 AM |
| 1506311-006   | SB-10-0.5        | 06/25/2015 10:20 AM | 06/26/2015 8:00 AM |
| 1506311-007   | SB-10-3          | 06/25/2015 10:25 AM | 06/26/2015 8:00 AM |
| 1506311-008   | SB-10-10         | 06/25/2015 10:40 AM | 06/26/2015 8:00 AM |
| 1506311-009   | SB-10-13         | 06/25/2015 10:45 AM | 06/26/2015 8:00 AM |
| 1506311-010   | SB-12-0.5        | 06/25/2015 11:35 AM | 06/26/2015 8:00 AM |
| 1506311-011   | SB-12-3          | 06/25/2015 11:40 AM | 06/26/2015 8:00 AM |
| 1506311-012   | SB-12-9          | 06/25/2015 11:45 AM | 06/26/2015 8:00 AM |
| 1506311-013   | SB-12-14         | 06/25/2015 11:50 AM | 06/26/2015 8:00 AM |
| 1506311-014   | SB-13-0.5        | 06/25/2015 1:20 PM  | 06/26/2015 8:00 AM |
| 1506311-015   | SB-13-3          | 06/25/2015 1:25 PM  | 06/26/2015 8:00 AM |
| 1506311-016   | SB-13-9          | 06/25/2015 1:30 PM  | 06/26/2015 8:00 AM |
| 1506311-017   | SB-13-15         | 06/25/2015 1:35 PM  | 06/26/2015 8:00 AM |
| 1506311-018   | Trip Blank       | 06/23/2015 12:42 PM | 06/26/2015 8:00 AM |
| 1506311-019   | Trip Blank       | 06/23/2015 12:45 PM | 06/26/2015 8:00 AM |
| 1506311-020   | SB-11-W          | 06/25/2015 2:00 PM  | 06/26/2015 8:00 AM |
| 1506311-021   | SB-10-W          | 06/25/2015 2:10 PM  | 06/26/2015 8:00 AM |
| 1506311-022   | SB-13-W          | 06/25/2015 3:20 PM  | 06/26/2015 8:00 AM |
| 1506311-023   | DRUM-1           | 06/25/2015 3:40 PM  | 06/26/2015 8:00 AM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

**CLIENT:** PES Environmental, Inc.

**Project:** Bethel Interior

---

**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

## Qualifiers:

- \* - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below LOQ
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit

## Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



# Analytical Report

WO#: 1506311

Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 9:25:00 AM

**Project:** Bethel Interior

**Lab ID:** 1506311-001

**Matrix:** Soil

**Client Sample ID:** SB-11-0.5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                                  |        |         |  |           |   |                      |
|----------------------------------|--------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND     | 0.0599  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Chloromethane                    | ND     | 0.0599  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Vinyl chloride                   | ND     | 0.00200 |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Bromomethane                     | ND     | 0.0899  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND     | 0.0499  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Chloroethane                     | ND     | 0.0599  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 1,1-Dichloroethene               | ND     | 0.0499  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Methylene chloride               | ND     | 0.0200  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| trans-1,2-Dichloroethene         | ND     | 0.0200  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND     | 0.0499  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 1,1-Dichloroethane               | ND     | 0.0200  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 2,2-Dichloropropane              | ND     | 0.0499  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| cis-1,2-Dichloroethene           | ND     | 0.0200  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Chloroform                       | ND     | 0.0200  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND     | 0.0200  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 1,1-Dichloropropene              | ND     | 0.0200  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Carbon tetrachloride             | ND     | 0.0200  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 1,2-Dichloroethane (EDC)         | ND     | 0.0300  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Benzene                          | ND     | 0.0200  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Trichloroethene (TCE)            | 0.0230 | 0.0200  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 1,2-Dichloropropane              | ND     | 0.0200  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Bromodichloromethane             | ND     | 0.0200  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Dibromomethane                   | ND     | 0.0400  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| cis-1,3-Dichloropropene          | ND     | 0.0200  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Toluene                          | ND     | 0.0200  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| trans-1,3-Dichloropropylene      | ND     | 0.0300  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 1,1,2-Trichloroethane            | ND     | 0.0300  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 1,3-Dichloropropane              | ND     | 0.0499  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Tetrachloroethene (PCE)          | 0.656  | 0.0200  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Dibromochloromethane             | ND     | 0.0300  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 1,2-Dibromoethane (EDB)          | ND     | 0.00499 |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Chlorobenzene                    | ND     | 0.0200  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND     | 0.0300  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Ethylbenzene                     | ND     | 0.0300  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| m,p-Xylene                       | ND     | 0.0200  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| o-Xylene                         | ND     | 0.0200  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Styrene                          | ND     | 0.0200  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Isopropylbenzene                 | ND     | 0.0799  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Bromoform                        | ND     | 0.0200  |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |



# Analytical Report

WO#: 1506311  
Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 9:25:00 AM

**Project:** Bethel Interior

**Lab ID:** 1506311-001

**Matrix:** Soil

**Client Sample ID:** SB-11-0.5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0200   |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| n-Propylbenzene               | ND   | 0.0200   |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Bromobenzene                  | ND   | 0.0300   |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0200   |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 2-Chlorotoluene               | ND   | 0.0200   |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 4-Chlorotoluene               | ND   | 0.0200   |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| tert-Butylbenzene             | ND   | 0.0200   |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0200   |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0499   |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| sec-Butylbenzene              | ND   | 0.0200   |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0200   |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0200   |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0200   |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| n-Butylbenzene                | ND   | 0.0200   |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0200   |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.499    |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0200   |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Hexachlorobutadiene           | ND   | 0.0999   |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Naphthalene                   | ND   | 0.0300   |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0200   |  | mg/Kg-dry | 1 | 6/29/2015 8:34:00 PM |
| Surr: Dibromofluoromethane    | 89.3 | 63.7-129 |  | %REC      | 1 | 6/29/2015 8:34:00 PM |
| Surr: Toluene-d8              | 100  | 64.3-131 |  | %REC      | 1 | 6/29/2015 8:34:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 101  | 63.1-141 |  | %REC      | 1 | 6/29/2015 8:34:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23294

Analyst: CG

|                  |      |  |  |     |   |                      |
|------------------|------|--|--|-----|---|----------------------|
| Percent Moisture | 7.43 |  |  | wt% | 1 | 6/30/2015 8:19:48 AM |
|------------------|------|--|--|-----|---|----------------------|



# Analytical Report

WO#: 1506311

Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 9:30:00 AM

**Project:** Bethel Interior

**Lab ID:** 1506311-002

**Matrix:** Soil

**Client Sample ID:** SB-11-2

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                                  |       |         |  |           |   |                      |
|----------------------------------|-------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND    | 0.0703  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Chloromethane                    | ND    | 0.0703  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Vinyl chloride                   | ND    | 0.00234 |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Bromomethane                     | ND    | 0.105   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND    | 0.0586  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Chloroethane                     | ND    | 0.0703  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,1-Dichloroethene               | ND    | 0.0586  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Methylene chloride               | ND    | 0.0234  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| trans-1,2-Dichloroethene         | ND    | 0.0234  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND    | 0.0586  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,1-Dichloroethane               | ND    | 0.0234  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 2,2-Dichloropropane              | ND    | 0.0586  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| cis-1,2-Dichloroethene           | 0.113 | 0.0234  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Chloroform                       | ND    | 0.0234  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND    | 0.0234  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,1-Dichloropropene              | ND    | 0.0234  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Carbon tetrachloride             | ND    | 0.0234  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,2-Dichloroethane (EDC)         | ND    | 0.0352  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Benzene                          | ND    | 0.0234  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Trichloroethene (TCE)            | 0.660 | 0.0234  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,2-Dichloropropane              | ND    | 0.0234  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Bromodichloromethane             | ND    | 0.0234  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Dibromomethane                   | ND    | 0.0469  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| cis-1,3-Dichloropropene          | ND    | 0.0234  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Toluene                          | ND    | 0.0234  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| trans-1,3-Dichloropropylene      | ND    | 0.0352  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,1,2-Trichloroethane            | ND    | 0.0352  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,3-Dichloropropane              | ND    | 0.0586  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Tetrachloroethene (PCE)          | 0.179 | 0.0234  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Dibromochloromethane             | ND    | 0.0352  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,2-Dibromoethane (EDB)          | ND    | 0.00586 |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Chlorobenzene                    | ND    | 0.0234  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND    | 0.0352  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Ethylbenzene                     | ND    | 0.0352  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| m,p-Xylene                       | ND    | 0.0234  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| o-Xylene                         | ND    | 0.0234  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Styrene                          | ND    | 0.0234  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Isopropylbenzene                 | ND    | 0.0938  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Bromoform                        | ND    | 0.0234  |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |



# Analytical Report

WO#: 1506311  
Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 9:30:00 AM

**Project:** Bethel Interior

**Lab ID:** 1506311-002

**Matrix:** Soil

**Client Sample ID:** SB-11-2

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| n-Propylbenzene               | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Bromobenzene                  | ND   | 0.0352   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 2-Chlorotoluene               | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 4-Chlorotoluene               | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| tert-Butylbenzene             | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0586   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| sec-Butylbenzene              | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| n-Butylbenzene                | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.586    |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Hexachlorobutadiene           | ND   | 0.117    |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Naphthalene                   | ND   | 0.0352   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Surr: Dibromofluoromethane    | 83.8 | 63.7-129 |  | %REC      | 1 | 6/29/2015 9:03:00 PM |
| Surr: Toluene-d8              | 95.5 | 64.3-131 |  | %REC      | 1 | 6/29/2015 9:03:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 95.5 | 63.1-141 |  | %REC      | 1 | 6/29/2015 9:03:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23294

Analyst: CG

|                  |      |  |  |     |   |                      |
|------------------|------|--|--|-----|---|----------------------|
| Percent Moisture | 12.3 |  |  | wt% | 1 | 6/30/2015 8:19:48 AM |
|------------------|------|--|--|-----|---|----------------------|



# Analytical Report

WO#: 1506311

Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 9:50:00 AM

**Project:** Bethel Interior

**Lab ID:** 1506311-003

**Matrix:** Soil

**Client Sample ID:** SB-11-2D

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                                  |        |         |  |           |   |                      |
|----------------------------------|--------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND     | 0.0764  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Chloromethane                    | ND     | 0.0764  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Vinyl chloride                   | ND     | 0.00255 |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Bromomethane                     | ND     | 0.115   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND     | 0.0637  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Chloroethane                     | ND     | 0.0764  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,1-Dichloroethene               | ND     | 0.0637  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Methylene chloride               | ND     | 0.0255  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| trans-1,2-Dichloroethene         | ND     | 0.0255  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND     | 0.0637  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,1-Dichloroethane               | ND     | 0.0255  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 2,2-Dichloropropane              | ND     | 0.0637  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| cis-1,2-Dichloroethene           | 0.0802 | 0.0255  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Chloroform                       | ND     | 0.0255  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND     | 0.0255  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,1-Dichloropropene              | ND     | 0.0255  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Carbon tetrachloride             | ND     | 0.0255  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,2-Dichloroethane (EDC)         | ND     | 0.0382  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Benzene                          | ND     | 0.0255  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Trichloroethene (TCE)            | 0.551  | 0.0255  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,2-Dichloropropane              | ND     | 0.0255  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Bromodichloromethane             | ND     | 0.0255  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Dibromomethane                   | ND     | 0.0509  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| cis-1,3-Dichloropropene          | ND     | 0.0255  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Toluene                          | ND     | 0.0255  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| trans-1,3-Dichloropropylene      | ND     | 0.0382  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,1,2-Trichloroethane            | ND     | 0.0382  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,3-Dichloropropane              | ND     | 0.0637  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Tetrachloroethene (PCE)          | 0.313  | 0.0255  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Dibromochloromethane             | ND     | 0.0382  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,2-Dibromoethane (EDB)          | ND     | 0.00637 |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Chlorobenzene                    | ND     | 0.0255  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND     | 0.0382  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Ethylbenzene                     | ND     | 0.0382  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| m,p-Xylene                       | ND     | 0.0255  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| o-Xylene                         | ND     | 0.0255  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Styrene                          | ND     | 0.0255  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Isopropylbenzene                 | ND     | 0.102   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Bromoform                        | ND     | 0.0255  |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |





# Analytical Report

WO#: 1506311  
Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 9:50:00 AM

**Project:** Bethel Interior

**Lab ID:** 1506311-003

**Matrix:** Soil

**Client Sample ID:** SB-11-2D

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183      Analyst: EM

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| n-Propylbenzene               | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Bromobenzene                  | ND   | 0.0382   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 2-Chlorotoluene               | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 4-Chlorotoluene               | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| tert-Butylbenzene             | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0637   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| sec-Butylbenzene              | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| n-Butylbenzene                | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.637    |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Hexachlorobutadiene           | ND   | 0.127    |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Naphthalene                   | ND   | 0.0382   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Surr: Dibromofluoromethane    | 88.9 | 63.7-129 |  | %REC      | 1 | 6/29/2015 9:32:00 PM |
| Surr: Toluene-d8              | 101  | 64.3-131 |  | %REC      | 1 | 6/29/2015 9:32:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 87.0 | 63.1-141 |  | %REC      | 1 | 6/29/2015 9:32:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23294      Analyst: CG

|                  |      |  |  |     |   |                      |
|------------------|------|--|--|-----|---|----------------------|
| Percent Moisture | 9.30 |  |  | wt% | 1 | 6/30/2015 8:19:48 AM |
|------------------|------|--|--|-----|---|----------------------|



# Analytical Report

WO#: 1506311

Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 9:35:00 AM

**Project:** Bethel Interior

**Lab ID:** 1506311-004

**Matrix:** Soil

**Client Sample ID:** SB-11-9

| Analyses   | Result | RL      | Qual | Units     | DF              | Date Analyzed         |
|--|--------|---------|------|-----------|-----------------|-----------------------|
| <b>Volatile Organic Compounds by EPA Method 8260</b> |        |         |      |           | Batch ID: 11183 | Analyst: EM           |
| Dichlorodifluoromethane (CFC-12)                     | ND     | 0.0643  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| Chloromethane  | ND     | 0.0643  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| Vinyl chloride                                       | ND     | 0.00214 |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| Bromomethane   | ND     | 0.0964  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| Trichlorofluoromethane (CFC-11)                      | ND     | 0.0536  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| Chloroethane   | ND     | 0.0643  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| 1,1-Dichloroethene                                   | ND     | 0.0536  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| Methylene chloride                                   | ND     | 0.0214  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| trans-1,2-Dichloroethene                             | ND     | 0.0214  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| Methyl tert-butyl ether (MTBE)                       | ND     | 0.0536  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| 1,1-Dichloroethane                                   | ND     | 0.0214  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| 2,2-Dichloropropane                                  | ND     | 0.0536  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| cis-1,2-Dichloroethene                               | 0.0252 | 0.0214  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| Chloroform   | ND     | 0.0214  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| 1,1,1-Trichloroethane (TCA)                          | ND     | 0.0214  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| 1,1-Dichloropropene                                  | ND     | 0.0214  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| Carbon tetrachloride                                 | ND     | 0.0214  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| 1,2-Dichloroethane (EDC)                             | ND     | 0.0321  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| Benzene  | ND     | 0.0214  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| Trichloroethene (TCE)                                | ND     | 0.0214  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| 1,2-Dichloropropane                                  | ND     | 0.0214  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| Bromodichloromethane                                 | ND     | 0.0214  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| Dibromomethane                                       | ND     | 0.0429  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| cis-1,3-Dichloropropene                              | ND     | 0.0214  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| Toluene  | ND     | 0.0214  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| trans-1,3-Dichloropropylene                          | ND     | 0.0321  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| 1,1,2-Trichloroethane                                | ND     | 0.0321  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| 1,3-Dichloropropane                                  | ND     | 0.0536  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| Tetrachloroethene (PCE)                              | ND     | 0.0214  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| Dibromochloromethane                                 | ND     | 0.0321  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| 1,2-Dibromoethane (EDB)                              | ND     | 0.00536 |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| Chlorobenzene  | ND     | 0.0214  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| 1,1,1,2-Tetrachloroethane                            | ND     | 0.0321  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| Ethylbenzene   | ND     | 0.0321  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| m,p-Xylene   | ND     | 0.0214  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| o-Xylene   | ND     | 0.0214  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| Styrene  | ND     | 0.0214  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| Isopropylbenzene                                     | ND     | 0.0857  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |
| Bromoform  | ND     | 0.0214  |      | mg/Kg-dry | 1               | 6/29/2015 10:02:00 PM |



# Analytical Report

WO#: 1506311  
Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.  
**Project:** Bethel Interior  
**Lab ID:** 1506311-004  
**Client Sample ID:** SB-11-9

**Collection Date:** 6/25/2015 9:35:00 AM  
**Matrix:** Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183      Analyst: EM

|                               |      |          |  |           |   |                       |
|-------------------------------|------|----------|--|-----------|---|-----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/29/2015 10:02:00 PM |
| n-Propylbenzene               | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/29/2015 10:02:00 PM |
| Bromobenzene                  | ND   | 0.0321   |  | mg/Kg-dry | 1 | 6/29/2015 10:02:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/29/2015 10:02:00 PM |
| 2-Chlorotoluene               | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/29/2015 10:02:00 PM |
| 4-Chlorotoluene               | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/29/2015 10:02:00 PM |
| tert-Butylbenzene             | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/29/2015 10:02:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/29/2015 10:02:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0536   |  | mg/Kg-dry | 1 | 6/29/2015 10:02:00 PM |
| sec-Butylbenzene              | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/29/2015 10:02:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/29/2015 10:02:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/29/2015 10:02:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/29/2015 10:02:00 PM |
| n-Butylbenzene                | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/29/2015 10:02:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/29/2015 10:02:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.536    |  | mg/Kg-dry | 1 | 6/29/2015 10:02:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/29/2015 10:02:00 PM |
| Hexachlorobutadiene           | ND   | 0.107    |  | mg/Kg-dry | 1 | 6/29/2015 10:02:00 PM |
| Naphthalene                   | ND   | 0.0321   |  | mg/Kg-dry | 1 | 6/29/2015 10:02:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/29/2015 10:02:00 PM |
| Surr: Dibromofluoromethane    | 82.2 | 63.7-129 |  | %REC      | 1 | 6/29/2015 10:02:00 PM |
| Surr: Toluene-d8              | 95.9 | 64.3-131 |  | %REC      | 1 | 6/29/2015 10:02:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 93.2 | 63.1-141 |  | %REC      | 1 | 6/29/2015 10:02:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23294      Analyst: CG

|                  |      |  |  |     |   |                      |
|------------------|------|--|--|-----|---|----------------------|
| Percent Moisture | 12.5 |  |  | wt% | 1 | 6/30/2015 8:19:48 AM |
|------------------|------|--|--|-----|---|----------------------|



# Analytical Report

WO#: 1506311

Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 10:20:00 AM

**Project:** Bethel Interior

**Lab ID:** 1506311-006

**Matrix:** Soil

**Client Sample ID:** SB-10-0.5

| Analyses   | Result | RL      | Qual | Units     | DF              | Date Analyzed         |
|--|--------|---------|------|-----------|-----------------|-----------------------|
| <b>Volatile Organic Compounds by EPA Method 8260</b> |        |         |      |           | Batch ID: 11183 | Analyst: EM           |
| Dichlorodifluoromethane (CFC-12)                     | ND     | 0.0676  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| Chloromethane  | ND     | 0.0676  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| Vinyl chloride                                       | ND     | 0.00225 |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| Bromomethane   | ND     | 0.101   |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| Trichlorofluoromethane (CFC-11)                      | ND     | 0.0563  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| Chloroethane   | ND     | 0.0676  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| 1,1-Dichloroethene                                   | ND     | 0.0563  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| Methylene chloride                                   | ND     | 0.0225  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| trans-1,2-Dichloroethene                             | ND     | 0.0225  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| Methyl tert-butyl ether (MTBE)                       | ND     | 0.0563  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| 1,1-Dichloroethane                                   | ND     | 0.0225  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| 2,2-Dichloropropane                                  | ND     | 0.0563  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| cis-1,2-Dichloroethene                               | ND     | 0.0225  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| Chloroform   | ND     | 0.0225  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| 1,1,1-Trichloroethane (TCA)                          | ND     | 0.0225  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| 1,1-Dichloropropene                                  | ND     | 0.0225  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| Carbon tetrachloride                                 | ND     | 0.0225  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| 1,2-Dichloroethane (EDC)                             | ND     | 0.0338  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| Benzene  | ND     | 0.0225  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| Trichloroethene (TCE)                                | ND     | 0.0225  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| 1,2-Dichloropropane                                  | ND     | 0.0225  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| Bromodichloromethane                                 | ND     | 0.0225  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| Dibromomethane                                       | ND     | 0.0450  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| cis-1,3-Dichloropropene                              | ND     | 0.0225  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| Toluene  | ND     | 0.0225  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| trans-1,3-Dichloropropylene                          | ND     | 0.0338  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| 1,1,2-Trichloroethane                                | ND     | 0.0338  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| 1,3-Dichloropropane                                  | ND     | 0.0563  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| Tetrachloroethene (PCE)                              | 0.166  | 0.0225  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| Dibromochloromethane                                 | ND     | 0.0338  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| 1,2-Dibromoethane (EDB)                              | ND     | 0.00563 |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| Chlorobenzene  | ND     | 0.0225  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| 1,1,1,2-Tetrachloroethane                            | ND     | 0.0338  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| Ethylbenzene   | ND     | 0.0338  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| m,p-Xylene   | ND     | 0.0225  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| o-Xylene   | ND     | 0.0225  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| Styrene  | ND     | 0.0225  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| Isopropylbenzene                                     | ND     | 0.0901  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |
| Bromoform  | ND     | 0.0225  |      | mg/Kg-dry | 1               | 6/29/2015 11:58:00 PM |



# Analytical Report

WO#: 1506311  
Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 10:20:00 AM

**Project:** Bethel Interior

**Lab ID:** 1506311-006

**Matrix:** Soil

**Client Sample ID:** SB-10-0.5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                               |      |          |  |           |   |                       |
|-------------------------------|------|----------|--|-----------|---|-----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/29/2015 11:58:00 PM |
| n-Propylbenzene               | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/29/2015 11:58:00 PM |
| Bromobenzene                  | ND   | 0.0338   |  | mg/Kg-dry | 1 | 6/29/2015 11:58:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/29/2015 11:58:00 PM |
| 2-Chlorotoluene               | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/29/2015 11:58:00 PM |
| 4-Chlorotoluene               | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/29/2015 11:58:00 PM |
| tert-Butylbenzene             | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/29/2015 11:58:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/29/2015 11:58:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0563   |  | mg/Kg-dry | 1 | 6/29/2015 11:58:00 PM |
| sec-Butylbenzene              | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/29/2015 11:58:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/29/2015 11:58:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/29/2015 11:58:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/29/2015 11:58:00 PM |
| n-Butylbenzene                | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/29/2015 11:58:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/29/2015 11:58:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.563    |  | mg/Kg-dry | 1 | 6/29/2015 11:58:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/29/2015 11:58:00 PM |
| Hexachlorobutadiene           | ND   | 0.113    |  | mg/Kg-dry | 1 | 6/29/2015 11:58:00 PM |
| Naphthalene                   | ND   | 0.0338   |  | mg/Kg-dry | 1 | 6/29/2015 11:58:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/29/2015 11:58:00 PM |
| Surr: Dibromofluoromethane    | 85.3 | 63.7-129 |  | %REC      | 1 | 6/29/2015 11:58:00 PM |
| Surr: Toluene-d8              | 90.8 | 64.3-131 |  | %REC      | 1 | 6/29/2015 11:58:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 93.5 | 63.1-141 |  | %REC      | 1 | 6/29/2015 11:58:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23294

Analyst: CG

|                  |      |  |  |     |   |                      |
|------------------|------|--|--|-----|---|----------------------|
| Percent Moisture | 6.80 |  |  | wt% | 1 | 6/30/2015 8:19:48 AM |
|------------------|------|--|--|-----|---|----------------------|



# Analytical Report

WO#: 1506311

Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 10:25:00 AM

**Project:** Bethel Interior

**Lab ID:** 1506311-007

**Matrix:** Soil

**Client Sample ID:** SB-10-3

| Analyses   | Result | RL      | Qual | Units     | DF              | Date Analyzed         |
|--|--------|---------|------|-----------|-----------------|-----------------------|
| <b>Volatile Organic Compounds by EPA Method 8260</b> |        |         |      |           | Batch ID: 11183 | Analyst: EM           |
| Dichlorodifluoromethane (CFC-12)                     | ND     | 0.0665  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| Chloromethane  | ND     | 0.0665  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| Vinyl chloride                                       | ND     | 0.00222 |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| Bromomethane   | ND     | 0.0998  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| Trichlorofluoromethane (CFC-11)                      | ND     | 0.0554  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| Chloroethane   | ND     | 0.0665  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| 1,1-Dichloroethene                                   | ND     | 0.0554  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| Methylene chloride                                   | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| trans-1,2-Dichloroethene                             | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| Methyl tert-butyl ether (MTBE)                       | ND     | 0.0554  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| 1,1-Dichloroethane                                   | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| 2,2-Dichloropropane                                  | ND     | 0.0554  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| cis-1,2-Dichloroethene                               | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| Chloroform   | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| 1,1,1-Trichloroethane (TCA)                          | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| 1,1-Dichloropropene                                  | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| Carbon tetrachloride                                 | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| 1,2-Dichloroethane (EDC)                             | ND     | 0.0333  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| Benzene  | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| Trichloroethene (TCE)                                | 0.0222 | 0.0222  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| 1,2-Dichloropropane                                  | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| Bromodichloromethane                                 | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| Dibromomethane                                       | ND     | 0.0444  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| cis-1,3-Dichloropropene                              | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| Toluene  | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| trans-1,3-Dichloropropylene                          | ND     | 0.0333  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| 1,1,2-Trichloroethane                                | ND     | 0.0333  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| 1,3-Dichloropropane                                  | ND     | 0.0554  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| Tetrachloroethene (PCE)                              | 0.269  | 0.0222  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| Dibromochloromethane                                 | ND     | 0.0333  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| 1,2-Dibromoethane (EDB)                              | ND     | 0.00554 |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| Chlorobenzene  | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| 1,1,1,2-Tetrachloroethane                            | ND     | 0.0333  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| Ethylbenzene   | ND     | 0.0333  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| m,p-Xylene   | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| o-Xylene   | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| Styrene  | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| Isopropylbenzene                                     | ND     | 0.0887  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |
| Bromoform  | ND     | 0.0222  |      | mg/Kg-dry | 1               | 6/30/2015 12:27:00 AM |



# Analytical Report

WO#: 1506311  
Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 10:25:00 AM

**Project:** Bethel Interior

**Lab ID:** 1506311-007

**Matrix:** Soil

**Client Sample ID:** SB-10-3

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                               |      |          |  |           |   |                       |
|-------------------------------|------|----------|--|-----------|---|-----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/30/2015 12:27:00 AM |
| n-Propylbenzene               | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/30/2015 12:27:00 AM |
| Bromobenzene                  | ND   | 0.0333   |  | mg/Kg-dry | 1 | 6/30/2015 12:27:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/30/2015 12:27:00 AM |
| 2-Chlorotoluene               | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/30/2015 12:27:00 AM |
| 4-Chlorotoluene               | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/30/2015 12:27:00 AM |
| tert-Butylbenzene             | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/30/2015 12:27:00 AM |
| 1,2,3-Trichloropropane        | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/30/2015 12:27:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0554   |  | mg/Kg-dry | 1 | 6/30/2015 12:27:00 AM |
| sec-Butylbenzene              | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/30/2015 12:27:00 AM |
| 4-Isopropyltoluene            | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/30/2015 12:27:00 AM |
| 1,3-Dichlorobenzene           | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/30/2015 12:27:00 AM |
| 1,4-Dichlorobenzene           | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/30/2015 12:27:00 AM |
| n-Butylbenzene                | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/30/2015 12:27:00 AM |
| 1,2-Dichlorobenzene           | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/30/2015 12:27:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.554    |  | mg/Kg-dry | 1 | 6/30/2015 12:27:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/30/2015 12:27:00 AM |
| Hexachlorobutadiene           | ND   | 0.111    |  | mg/Kg-dry | 1 | 6/30/2015 12:27:00 AM |
| Naphthalene                   | ND   | 0.0333   |  | mg/Kg-dry | 1 | 6/30/2015 12:27:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0222   |  | mg/Kg-dry | 1 | 6/30/2015 12:27:00 AM |
| Surr: Dibromofluoromethane    | 84.0 | 63.7-129 |  | %REC      | 1 | 6/30/2015 12:27:00 AM |
| Surr: Toluene-d8              | 90.3 | 64.3-131 |  | %REC      | 1 | 6/30/2015 12:27:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 93.1 | 63.1-141 |  | %REC      | 1 | 6/30/2015 12:27:00 AM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23294

Analyst: CG

|                  |      |  |  |     |   |                      |
|------------------|------|--|--|-----|---|----------------------|
| Percent Moisture | 6.26 |  |  | wt% | 1 | 6/30/2015 8:19:48 AM |
|------------------|------|--|--|-----|---|----------------------|



# Analytical Report

WO#: 1506311

Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 10:40:00 AM

**Project:** Bethel Interior

**Lab ID:** 1506311-008

**Matrix:** Soil

**Client Sample ID:** SB-10-10

| Analyses   | Result | RL      | Qual | Units     | DF              | Date Analyzed         |
|--|--------|---------|------|-----------|-----------------|-----------------------|
| <b>Volatile Organic Compounds by EPA Method 8260</b> |        |         |      |           | Batch ID: 11183 | Analyst: EM           |
| Dichlorodifluoromethane (CFC-12)                     | ND     | 0.0598  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| Chloromethane  | ND     | 0.0598  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| Vinyl chloride                                       | ND     | 0.00199 |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| Bromomethane   | ND     | 0.0896  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| Trichlorofluoromethane (CFC-11)                      | ND     | 0.0498  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| Chloroethane   | ND     | 0.0598  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| 1,1-Dichloroethene                                   | ND     | 0.0498  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| Methylene chloride                                   | ND     | 0.0199  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| trans-1,2-Dichloroethene                             | ND     | 0.0199  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| Methyl tert-butyl ether (MTBE)                       | ND     | 0.0498  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| 1,1-Dichloroethane                                   | ND     | 0.0199  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| 2,2-Dichloropropane                                  | ND     | 0.0498  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| cis-1,2-Dichloroethene                               | 0.0682 | 0.0199  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| Chloroform   | ND     | 0.0199  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| 1,1,1-Trichloroethane (TCA)                          | ND     | 0.0199  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| 1,1-Dichloropropene                                  | ND     | 0.0199  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| Carbon tetrachloride                                 | ND     | 0.0199  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| 1,2-Dichloroethane (EDC)                             | ND     | 0.0299  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| Benzene  | ND     | 0.0199  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| Trichloroethene (TCE)                                | ND     | 0.0199  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| 1,2-Dichloropropane                                  | ND     | 0.0199  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| Bromodichloromethane                                 | ND     | 0.0199  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| Dibromomethane                                       | ND     | 0.0398  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| cis-1,3-Dichloropropene                              | ND     | 0.0199  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| Toluene  | ND     | 0.0199  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| trans-1,3-Dichloropropylene                          | ND     | 0.0299  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| 1,1,2-Trichloroethane                                | ND     | 0.0299  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| 1,3-Dichloropropane                                  | ND     | 0.0498  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| Tetrachloroethene (PCE)                              | ND     | 0.0199  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| Dibromochloromethane                                 | ND     | 0.0299  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| 1,2-Dibromoethane (EDB)                              | ND     | 0.00498 |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| Chlorobenzene  | ND     | 0.0199  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| 1,1,1,2-Tetrachloroethane                            | ND     | 0.0299  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| Ethylbenzene   | ND     | 0.0299  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| m,p-Xylene   | ND     | 0.0199  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| o-Xylene   | ND     | 0.0199  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| Styrene  | ND     | 0.0199  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| Isopropylbenzene                                     | ND     | 0.0797  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |
| Bromoform  | ND     | 0.0199  |      | mg/Kg-dry | 1               | 6/30/2015 12:56:00 AM |





# Analytical Report

WO#: 1506311  
Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 10:40:00 AM

**Project:** Bethel Interior

**Lab ID:** 1506311-008

**Matrix:** Soil

**Client Sample ID:** SB-10-10

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                               |      |          |  |           |   |                       |
|-------------------------------|------|----------|--|-----------|---|-----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/30/2015 12:56:00 AM |
| n-Propylbenzene               | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/30/2015 12:56:00 AM |
| Bromobenzene                  | ND   | 0.0299   |  | mg/Kg-dry | 1 | 6/30/2015 12:56:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/30/2015 12:56:00 AM |
| 2-Chlorotoluene               | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/30/2015 12:56:00 AM |
| 4-Chlorotoluene               | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/30/2015 12:56:00 AM |
| tert-Butylbenzene             | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/30/2015 12:56:00 AM |
| 1,2,3-Trichloropropane        | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/30/2015 12:56:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0498   |  | mg/Kg-dry | 1 | 6/30/2015 12:56:00 AM |
| sec-Butylbenzene              | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/30/2015 12:56:00 AM |
| 4-Isopropyltoluene            | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/30/2015 12:56:00 AM |
| 1,3-Dichlorobenzene           | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/30/2015 12:56:00 AM |
| 1,4-Dichlorobenzene           | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/30/2015 12:56:00 AM |
| n-Butylbenzene                | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/30/2015 12:56:00 AM |
| 1,2-Dichlorobenzene           | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/30/2015 12:56:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.498    |  | mg/Kg-dry | 1 | 6/30/2015 12:56:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/30/2015 12:56:00 AM |
| Hexachlorobutadiene           | ND   | 0.0996   |  | mg/Kg-dry | 1 | 6/30/2015 12:56:00 AM |
| Naphthalene                   | ND   | 0.0299   |  | mg/Kg-dry | 1 | 6/30/2015 12:56:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0199   |  | mg/Kg-dry | 1 | 6/30/2015 12:56:00 AM |
| Surr: Dibromofluoromethane    | 84.1 | 63.7-129 |  | %REC      | 1 | 6/30/2015 12:56:00 AM |
| Surr: Toluene-d8              | 98.7 | 64.3-131 |  | %REC      | 1 | 6/30/2015 12:56:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 83.0 | 63.1-141 |  | %REC      | 1 | 6/30/2015 12:56:00 AM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23294

Analyst: CG

|                  |      |  |  |     |   |                      |
|------------------|------|--|--|-----|---|----------------------|
| Percent Moisture | 15.9 |  |  | wt% | 1 | 6/30/2015 8:19:48 AM |
|------------------|------|--|--|-----|---|----------------------|



# Analytical Report

WO#: 1506311

Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 11:35:00 AM

**Project:** Bethel Interior

**Lab ID:** 1506311-010

**Matrix:** Soil

**Client Sample ID:** SB-12-0.5

| Analyses   | Result | RL      | Qual | Units     | DF              | Date Analyzed        |
|--|--------|---------|------|-----------|-----------------|----------------------|
| <b>Volatile Organic Compounds by EPA Method 8260</b> |        |         |      |           | Batch ID: 11183 | Analyst: EM          |
| Dichlorodifluoromethane (CFC-12)                     | ND     | 0.0746  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| Chloromethane  | ND     | 0.0746  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| Vinyl chloride                                       | ND     | 0.00249 |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| Bromomethane   | ND     | 0.112   |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| Trichlorofluoromethane (CFC-11)                      | ND     | 0.0622  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| Chloroethane   | ND     | 0.0746  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| 1,1-Dichloroethene                                   | ND     | 0.0622  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| Methylene chloride                                   | ND     | 0.0249  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| trans-1,2-Dichloroethene                             | ND     | 0.0249  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| Methyl tert-butyl ether (MTBE)                       | ND     | 0.0622  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| 1,1-Dichloroethane                                   | ND     | 0.0249  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| 2,2-Dichloropropane                                  | ND     | 0.0622  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| cis-1,2-Dichloroethene                               | ND     | 0.0249  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| Chloroform   | ND     | 0.0249  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| 1,1,1-Trichloroethane (TCA)                          | ND     | 0.0249  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| 1,1-Dichloropropene                                  | ND     | 0.0249  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| Carbon tetrachloride                                 | ND     | 0.0249  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| 1,2-Dichloroethane (EDC)                             | ND     | 0.0373  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| Benzene  | ND     | 0.0249  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| Trichloroethene (TCE)                                | ND     | 0.0249  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| 1,2-Dichloropropane                                  | ND     | 0.0249  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| Bromodichloromethane                                 | ND     | 0.0249  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| Dibromomethane                                       | ND     | 0.0498  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| cis-1,3-Dichloropropene                              | ND     | 0.0249  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| Toluene  | ND     | 0.0249  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| trans-1,3-Dichloropropylene                          | ND     | 0.0373  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| 1,1,2-Trichloroethane                                | ND     | 0.0373  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| 1,3-Dichloropropane                                  | ND     | 0.0622  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| Tetrachloroethene (PCE)                              | 0.0995 | 0.0249  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| Dibromochloromethane                                 | ND     | 0.0373  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| 1,2-Dibromoethane (EDB)                              | ND     | 0.00622 |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| Chlorobenzene  | ND     | 0.0249  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| 1,1,1,2-Tetrachloroethane                            | ND     | 0.0373  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| Ethylbenzene   | ND     | 0.0373  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| m,p-Xylene   | ND     | 0.0249  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| o-Xylene   | ND     | 0.0249  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| Styrene  | ND     | 0.0249  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| Isopropylbenzene                                     | ND     | 0.0995  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |
| Bromoform  | ND     | 0.0249  |      | mg/Kg-dry | 1               | 6/30/2015 1:25:00 AM |



# Analytical Report

WO#: 1506311  
Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 11:35:00 AM

**Project:** Bethel Interior

**Lab ID:** 1506311-010

**Matrix:** Soil

**Client Sample ID:** SB-12-0.5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0249   |  | mg/Kg-dry | 1 | 6/30/2015 1:25:00 AM |
| n-Propylbenzene               | ND   | 0.0249   |  | mg/Kg-dry | 1 | 6/30/2015 1:25:00 AM |
| Bromobenzene                  | ND   | 0.0373   |  | mg/Kg-dry | 1 | 6/30/2015 1:25:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0249   |  | mg/Kg-dry | 1 | 6/30/2015 1:25:00 AM |
| 2-Chlorotoluene               | ND   | 0.0249   |  | mg/Kg-dry | 1 | 6/30/2015 1:25:00 AM |
| 4-Chlorotoluene               | ND   | 0.0249   |  | mg/Kg-dry | 1 | 6/30/2015 1:25:00 AM |
| tert-Butylbenzene             | ND   | 0.0249   |  | mg/Kg-dry | 1 | 6/30/2015 1:25:00 AM |
| 1,2,3-Trichloropropane        | ND   | 0.0249   |  | mg/Kg-dry | 1 | 6/30/2015 1:25:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0622   |  | mg/Kg-dry | 1 | 6/30/2015 1:25:00 AM |
| sec-Butylbenzene              | ND   | 0.0249   |  | mg/Kg-dry | 1 | 6/30/2015 1:25:00 AM |
| 4-Isopropyltoluene            | ND   | 0.0249   |  | mg/Kg-dry | 1 | 6/30/2015 1:25:00 AM |
| 1,3-Dichlorobenzene           | ND   | 0.0249   |  | mg/Kg-dry | 1 | 6/30/2015 1:25:00 AM |
| 1,4-Dichlorobenzene           | ND   | 0.0249   |  | mg/Kg-dry | 1 | 6/30/2015 1:25:00 AM |
| n-Butylbenzene                | ND   | 0.0249   |  | mg/Kg-dry | 1 | 6/30/2015 1:25:00 AM |
| 1,2-Dichlorobenzene           | ND   | 0.0249   |  | mg/Kg-dry | 1 | 6/30/2015 1:25:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.622    |  | mg/Kg-dry | 1 | 6/30/2015 1:25:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0249   |  | mg/Kg-dry | 1 | 6/30/2015 1:25:00 AM |
| Hexachlorobutadiene           | ND   | 0.124    |  | mg/Kg-dry | 1 | 6/30/2015 1:25:00 AM |
| Naphthalene                   | ND   | 0.0373   |  | mg/Kg-dry | 1 | 6/30/2015 1:25:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0249   |  | mg/Kg-dry | 1 | 6/30/2015 1:25:00 AM |
| Surr: Dibromofluoromethane    | 82.8 | 63.7-129 |  | %REC      | 1 | 6/30/2015 1:25:00 AM |
| Surr: Toluene-d8              | 105  | 64.3-131 |  | %REC      | 1 | 6/30/2015 1:25:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 94.7 | 63.1-141 |  | %REC      | 1 | 6/30/2015 1:25:00 AM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23294

Analyst: CG

|                  |      |  |  |     |   |                      |
|------------------|------|--|--|-----|---|----------------------|
| Percent Moisture | 8.45 |  |  | wt% | 1 | 6/30/2015 8:19:48 AM |
|------------------|------|--|--|-----|---|----------------------|



# Analytical Report

WO#: 1506311

Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 11:40:00 AM

**Project:** Bethel Interior

**Lab ID:** 1506311-011

**Matrix:** Soil

**Client Sample ID:** SB-12-3

| Analyses   | Result | RL      | Qual | Units     | DF              | Date Analyzed        |
|--|--------|---------|------|-----------|-----------------|----------------------|
| <b>Volatile Organic Compounds by EPA Method 8260</b> |        |         |      |           | Batch ID: 11183 | Analyst: EM          |
| Dichlorodifluoromethane (CFC-12)                     | ND     | 0.0493  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| Chloromethane  | ND     | 0.0493  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| Vinyl chloride                                       | ND     | 0.00164 |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| Bromomethane   | ND     | 0.0739  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| Trichlorofluoromethane (CFC-11)                      | ND     | 0.0411  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| Chloroethane   | ND     | 0.0493  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| 1,1-Dichloroethene                                   | ND     | 0.0411  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| Methylene chloride                                   | ND     | 0.0164  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| trans-1,2-Dichloroethene                             | ND     | 0.0164  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| Methyl tert-butyl ether (MTBE)                       | ND     | 0.0411  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| 1,1-Dichloroethane                                   | ND     | 0.0164  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| 2,2-Dichloropropane                                  | ND     | 0.0411  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| cis-1,2-Dichloroethene                               | 0.0600 | 0.0164  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| Chloroform   | ND     | 0.0164  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| 1,1,1-Trichloroethane (TCA)                          | ND     | 0.0164  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| 1,1-Dichloropropene                                  | ND     | 0.0164  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| Carbon tetrachloride                                 | ND     | 0.0164  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| 1,2-Dichloroethane (EDC)                             | ND     | 0.0246  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| Benzene  | ND     | 0.0164  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| Trichloroethene (TCE)                                | 0.225  | 0.0164  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| 1,2-Dichloropropane                                  | ND     | 0.0164  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| Bromodichloromethane                                 | ND     | 0.0164  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| Dibromomethane                                       | ND     | 0.0329  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| cis-1,3-Dichloropropene                              | ND     | 0.0164  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| Toluene  | ND     | 0.0164  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| trans-1,3-Dichloropropylene                          | ND     | 0.0246  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| 1,1,2-Trichloroethane                                | ND     | 0.0246  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| 1,3-Dichloropropane                                  | ND     | 0.0411  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| Tetrachloroethene (PCE)                              | 0.0986 | 0.0164  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| Dibromochloromethane                                 | ND     | 0.0246  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| 1,2-Dibromoethane (EDB)                              | ND     | 0.00411 |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| Chlorobenzene  | ND     | 0.0164  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| 1,1,1,2-Tetrachloroethane                            | ND     | 0.0246  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| Ethylbenzene   | ND     | 0.0246  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| m,p-Xylene   | ND     | 0.0164  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| o-Xylene   | ND     | 0.0164  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| Styrene  | ND     | 0.0164  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| Isopropylbenzene                                     | ND     | 0.0657  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |
| Bromoform  | ND     | 0.0164  |      | mg/Kg-dry | 1               | 6/30/2015 1:54:00 AM |



# Analytical Report

WO#: 1506311  
Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 11:40:00 AM

**Project:** Bethel Interior

**Lab ID:** 1506311-011

**Matrix:** Soil

**Client Sample ID:** SB-12-3

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0164   |  | mg/Kg-dry | 1 | 6/30/2015 1:54:00 AM |
| n-Propylbenzene               | ND   | 0.0164   |  | mg/Kg-dry | 1 | 6/30/2015 1:54:00 AM |
| Bromobenzene                  | ND   | 0.0246   |  | mg/Kg-dry | 1 | 6/30/2015 1:54:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0164   |  | mg/Kg-dry | 1 | 6/30/2015 1:54:00 AM |
| 2-Chlorotoluene               | ND   | 0.0164   |  | mg/Kg-dry | 1 | 6/30/2015 1:54:00 AM |
| 4-Chlorotoluene               | ND   | 0.0164   |  | mg/Kg-dry | 1 | 6/30/2015 1:54:00 AM |
| tert-Butylbenzene             | ND   | 0.0164   |  | mg/Kg-dry | 1 | 6/30/2015 1:54:00 AM |
| 1,2,3-Trichloropropane        | ND   | 0.0164   |  | mg/Kg-dry | 1 | 6/30/2015 1:54:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0411   |  | mg/Kg-dry | 1 | 6/30/2015 1:54:00 AM |
| sec-Butylbenzene              | ND   | 0.0164   |  | mg/Kg-dry | 1 | 6/30/2015 1:54:00 AM |
| 4-Isopropyltoluene            | ND   | 0.0164   |  | mg/Kg-dry | 1 | 6/30/2015 1:54:00 AM |
| 1,3-Dichlorobenzene           | ND   | 0.0164   |  | mg/Kg-dry | 1 | 6/30/2015 1:54:00 AM |
| 1,4-Dichlorobenzene           | ND   | 0.0164   |  | mg/Kg-dry | 1 | 6/30/2015 1:54:00 AM |
| n-Butylbenzene                | ND   | 0.0164   |  | mg/Kg-dry | 1 | 6/30/2015 1:54:00 AM |
| 1,2-Dichlorobenzene           | ND   | 0.0164   |  | mg/Kg-dry | 1 | 6/30/2015 1:54:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.411    |  | mg/Kg-dry | 1 | 6/30/2015 1:54:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0164   |  | mg/Kg-dry | 1 | 6/30/2015 1:54:00 AM |
| Hexachlorobutadiene           | ND   | 0.0821   |  | mg/Kg-dry | 1 | 6/30/2015 1:54:00 AM |
| Naphthalene                   | ND   | 0.0246   |  | mg/Kg-dry | 1 | 6/30/2015 1:54:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0164   |  | mg/Kg-dry | 1 | 6/30/2015 1:54:00 AM |
| Surr: Dibromofluoromethane    | 89.7 | 63.7-129 |  | %REC      | 1 | 6/30/2015 1:54:00 AM |
| Surr: Toluene-d8              | 96.7 | 64.3-131 |  | %REC      | 1 | 6/30/2015 1:54:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 111  | 63.1-141 |  | %REC      | 1 | 6/30/2015 1:54:00 AM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23294

Analyst: CG

|                  |      |  |  |     |   |                      |
|------------------|------|--|--|-----|---|----------------------|
| Percent Moisture | 9.87 |  |  | wt% | 1 | 6/30/2015 8:19:48 AM |
|------------------|------|--|--|-----|---|----------------------|



# Analytical Report

WO#: 1506311

Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 11:45:00 AM

**Project:** Bethel Interior

**Lab ID:** 1506311-012

**Matrix:** Soil

**Client Sample ID:** SB-12-9

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                                  |       |         |  |           |   |                      |
|----------------------------------|-------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND    | 0.0676  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Chloromethane                    | ND    | 0.0676  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Vinyl chloride                   | ND    | 0.00225 |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Bromomethane                     | ND    | 0.101   |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Trichlorofluoromethane (CFC-11)  | ND    | 0.0564  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Chloroethane                     | ND    | 0.0676  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 1,1-Dichloroethene               | ND    | 0.0564  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Methylene chloride               | ND    | 0.0225  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| trans-1,2-Dichloroethene         | ND    | 0.0225  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Methyl tert-butyl ether (MTBE)   | ND    | 0.0564  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 1,1-Dichloroethane               | ND    | 0.0225  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 2,2-Dichloropropane              | ND    | 0.0564  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| cis-1,2-Dichloroethene           | 0.192 | 0.0225  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Chloroform                       | ND    | 0.0225  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 1,1,1-Trichloroethane (TCA)      | ND    | 0.0225  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 1,1-Dichloropropene              | ND    | 0.0225  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Carbon tetrachloride             | ND    | 0.0225  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 1,2-Dichloroethane (EDC)         | ND    | 0.0338  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Benzene                          | ND    | 0.0225  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Trichloroethene (TCE)            | ND    | 0.0225  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 1,2-Dichloropropane              | ND    | 0.0225  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Bromodichloromethane             | ND    | 0.0225  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Dibromomethane                   | ND    | 0.0451  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| cis-1,3-Dichloropropene          | ND    | 0.0225  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Toluene                          | ND    | 0.0225  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| trans-1,3-Dichloropropylene      | ND    | 0.0338  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 1,1,2-Trichloroethane            | ND    | 0.0338  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 1,3-Dichloropropane              | ND    | 0.0564  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Tetrachloroethene (PCE)          | ND    | 0.0225  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Dibromochloromethane             | ND    | 0.0338  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 1,2-Dibromoethane (EDB)          | ND    | 0.00564 |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Chlorobenzene                    | ND    | 0.0225  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 1,1,1,2-Tetrachloroethane        | ND    | 0.0338  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Ethylbenzene                     | ND    | 0.0338  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| m,p-Xylene                       | ND    | 0.0225  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| o-Xylene                         | ND    | 0.0225  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Styrene                          | ND    | 0.0225  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Isopropylbenzene                 | ND    | 0.0902  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Bromoform                        | ND    | 0.0225  |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |



# Analytical Report

WO#: 1506311  
Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 11:45:00 AM

**Project:** Bethel Interior

**Lab ID:** 1506311-012

**Matrix:** Soil

**Client Sample ID:** SB-12-9

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| n-Propylbenzene               | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Bromobenzene                  | ND   | 0.0338   |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 2-Chlorotoluene               | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 4-Chlorotoluene               | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| tert-Butylbenzene             | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 1,2,3-Trichloropropane        | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0564   |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| sec-Butylbenzene              | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 4-Isopropyltoluene            | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 1,3-Dichlorobenzene           | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 1,4-Dichlorobenzene           | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| n-Butylbenzene                | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 1,2-Dichlorobenzene           | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.564    |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Hexachlorobutadiene           | ND   | 0.113    |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Naphthalene                   | ND   | 0.0338   |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0225   |  | mg/Kg-dry | 1 | 6/30/2015 2:23:00 AM |
| Surr: Dibromofluoromethane    | 87.4 | 63.7-129 |  | %REC      | 1 | 6/30/2015 2:23:00 AM |
| Surr: Toluene-d8              | 102  | 64.3-131 |  | %REC      | 1 | 6/30/2015 2:23:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 93.9 | 63.1-141 |  | %REC      | 1 | 6/30/2015 2:23:00 AM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23294

Analyst: CG

|                  |      |  |  |     |   |                      |
|------------------|------|--|--|-----|---|----------------------|
| Percent Moisture | 15.2 |  |  | wt% | 1 | 6/30/2015 8:19:48 AM |
|------------------|------|--|--|-----|---|----------------------|



# Analytical Report

WO#: 1506311

Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 1:20:00 PM

**Project:** Bethel Interior

**Lab ID:** 1506311-014

**Matrix:** Soil

**Client Sample ID:** SB-13-0.5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                                  |        |         |  |           |   |                      |
|----------------------------------|--------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND     | 0.0638  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Chloromethane                    | ND     | 0.0638  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Vinyl chloride                   | ND     | 0.00213 |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Bromomethane                     | ND     | 0.0957  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Trichlorofluoromethane (CFC-11)  | ND     | 0.0532  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Chloroethane                     | ND     | 0.0638  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 1,1-Dichloroethene               | ND     | 0.0532  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Methylene chloride               | ND     | 0.0213  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| trans-1,2-Dichloroethene         | ND     | 0.0213  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Methyl tert-butyl ether (MTBE)   | ND     | 0.0532  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 1,1-Dichloroethane               | ND     | 0.0213  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 2,2-Dichloropropane              | ND     | 0.0532  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| cis-1,2-Dichloroethene           | ND     | 0.0213  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Chloroform                       | ND     | 0.0213  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 1,1,1-Trichloroethane (TCA)      | ND     | 0.0213  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 1,1-Dichloropropene              | ND     | 0.0213  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Carbon tetrachloride             | ND     | 0.0213  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 1,2-Dichloroethane (EDC)         | ND     | 0.0319  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Benzene                          | ND     | 0.0213  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Trichloroethene (TCE)            | 0.0213 | 0.0213  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 1,2-Dichloropropane              | ND     | 0.0213  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Bromodichloromethane             | ND     | 0.0213  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Dibromomethane                   | ND     | 0.0425  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| cis-1,3-Dichloropropene          | ND     | 0.0213  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Toluene                          | ND     | 0.0213  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| trans-1,3-Dichloropropylene      | ND     | 0.0319  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 1,1,2-Trichloroethane            | ND     | 0.0319  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 1,3-Dichloropropane              | ND     | 0.0532  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Tetrachloroethene (PCE)          | 0.232  | 0.0213  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Dibromochloromethane             | ND     | 0.0319  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 1,2-Dibromoethane (EDB)          | ND     | 0.00532 |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Chlorobenzene                    | ND     | 0.0213  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 1,1,1,2-Tetrachloroethane        | ND     | 0.0319  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Ethylbenzene                     | ND     | 0.0319  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| m,p-Xylene                       | ND     | 0.0213  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| o-Xylene                         | ND     | 0.0213  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Styrene                          | ND     | 0.0213  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Isopropylbenzene                 | ND     | 0.0851  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Bromoform                        | ND     | 0.0213  |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |





# Analytical Report

WO#: 1506311  
Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 1:20:00 PM

**Project:** Bethel Interior

**Lab ID:** 1506311-014

**Matrix:** Soil

**Client Sample ID:** SB-13-0.5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| n-Propylbenzene               | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Bromobenzene                  | ND   | 0.0319   |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 2-Chlorotoluene               | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 4-Chlorotoluene               | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| tert-Butylbenzene             | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 1,2,3-Trichloropropane        | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0532   |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| sec-Butylbenzene              | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 4-Isopropyltoluene            | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 1,3-Dichlorobenzene           | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 1,4-Dichlorobenzene           | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| n-Butylbenzene                | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 1,2-Dichlorobenzene           | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.532    |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Hexachlorobutadiene           | ND   | 0.106    |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Naphthalene                   | ND   | 0.0319   |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0213   |  | mg/Kg-dry | 1 | 6/30/2015 2:51:00 AM |
| Surr: Dibromofluoromethane    | 86.2 | 63.7-129 |  | %REC      | 1 | 6/30/2015 2:51:00 AM |
| Surr: Toluene-d8              | 101  | 64.3-131 |  | %REC      | 1 | 6/30/2015 2:51:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 85.6 | 63.1-141 |  | %REC      | 1 | 6/30/2015 2:51:00 AM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23294

Analyst: CG

|                  |      |  |  |     |   |                      |
|------------------|------|--|--|-----|---|----------------------|
| Percent Moisture | 8.39 |  |  | wt% | 1 | 6/30/2015 8:19:48 AM |
|------------------|------|--|--|-----|---|----------------------|



# Analytical Report

WO#: 1506311

Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 1:25:00 PM

**Project:** Bethel Interior

**Lab ID:** 1506311-015

**Matrix:** Soil

**Client Sample ID:** SB-13-3

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                                  |        |         |  |           |   |                      |
|----------------------------------|--------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND     | 0.0614  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Chloromethane                    | ND     | 0.0614  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Vinyl chloride                   | ND     | 0.00205 |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Bromomethane                     | ND     | 0.0921  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Trichlorofluoromethane (CFC-11)  | ND     | 0.0512  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Chloroethane                     | ND     | 0.0614  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 1,1-Dichloroethene               | ND     | 0.0512  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Methylene chloride               | ND     | 0.0205  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| trans-1,2-Dichloroethene         | ND     | 0.0205  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Methyl tert-butyl ether (MTBE)   | ND     | 0.0512  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 1,1-Dichloroethane               | ND     | 0.0205  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 2,2-Dichloropropane              | ND     | 0.0512  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| cis-1,2-Dichloroethene           | 0.119  | 0.0205  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Chloroform                       | ND     | 0.0205  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 1,1,1-Trichloroethane (TCA)      | ND     | 0.0205  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 1,1-Dichloropropene              | ND     | 0.0205  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Carbon tetrachloride             | ND     | 0.0205  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 1,2-Dichloroethane (EDC)         | ND     | 0.0307  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Benzene                          | ND     | 0.0205  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Trichloroethene (TCE)            | 0.0450 | 0.0205  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 1,2-Dichloropropane              | ND     | 0.0205  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Bromodichloromethane             | ND     | 0.0205  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Dibromomethane                   | ND     | 0.0409  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| cis-1,3-Dichloropropene          | ND     | 0.0205  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Toluene                          | ND     | 0.0205  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| trans-1,3-Dichloropropylene      | ND     | 0.0307  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 1,1,2-Trichloroethane            | ND     | 0.0307  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 1,3-Dichloropropane              | ND     | 0.0512  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Tetrachloroethene (PCE)          | 0.136  | 0.0205  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Dibromochloromethane             | ND     | 0.0307  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 1,2-Dibromoethane (EDB)          | ND     | 0.00512 |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Chlorobenzene                    | ND     | 0.0205  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 1,1,1,2-Tetrachloroethane        | ND     | 0.0307  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Ethylbenzene                     | ND     | 0.0307  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| m,p-Xylene                       | ND     | 0.0205  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| o-Xylene                         | ND     | 0.0205  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Styrene                          | ND     | 0.0205  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Isopropylbenzene                 | ND     | 0.0819  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Bromoform                        | ND     | 0.0205  |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |



# Analytical Report

WO#: 1506311  
Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 1:25:00 PM

**Project:** Bethel Interior

**Lab ID:** 1506311-015

**Matrix:** Soil

**Client Sample ID:** SB-13-3

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0205   |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| n-Propylbenzene               | ND   | 0.0205   |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Bromobenzene                  | ND   | 0.0307   |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0205   |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 2-Chlorotoluene               | ND   | 0.0205   |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 4-Chlorotoluene               | ND   | 0.0205   |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| tert-Butylbenzene             | ND   | 0.0205   |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 1,2,3-Trichloropropane        | ND   | 0.0205   |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0512   |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| sec-Butylbenzene              | ND   | 0.0205   |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 4-Isopropyltoluene            | ND   | 0.0205   |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 1,3-Dichlorobenzene           | ND   | 0.0205   |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 1,4-Dichlorobenzene           | ND   | 0.0205   |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| n-Butylbenzene                | ND   | 0.0205   |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 1,2-Dichlorobenzene           | ND   | 0.0205   |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.512    |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0205   |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Hexachlorobutadiene           | ND   | 0.102    |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Naphthalene                   | ND   | 0.0307   |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0205   |  | mg/Kg-dry | 1 | 6/30/2015 3:20:00 AM |
| Surr: Dibromofluoromethane    | 83.0 | 63.7-129 |  | %REC      | 1 | 6/30/2015 3:20:00 AM |
| Surr: Toluene-d8              | 92.2 | 64.3-131 |  | %REC      | 1 | 6/30/2015 3:20:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 91.2 | 63.1-141 |  | %REC      | 1 | 6/30/2015 3:20:00 AM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23294

Analyst: CG

|                  |      |  |  |     |   |                      |
|------------------|------|--|--|-----|---|----------------------|
| Percent Moisture | 8.38 |  |  | wt% | 1 | 6/30/2015 8:19:48 AM |
|------------------|------|--|--|-----|---|----------------------|



# Analytical Report

WO#: 1506311

Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 1:30:00 PM

**Project:** Bethel Interior

**Lab ID:** 1506311-016

**Matrix:** Soil

**Client Sample ID:** SB-13-9

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                                  |        |         |  |           |   |                      |
|----------------------------------|--------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND     | 0.0643  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Chloromethane                    | ND     | 0.0643  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Vinyl chloride                   | ND     | 0.00214 |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Bromomethane                     | ND     | 0.0965  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Trichlorofluoromethane (CFC-11)  | ND     | 0.0536  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Chloroethane                     | ND     | 0.0643  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 1,1-Dichloroethene               | ND     | 0.0536  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Methylene chloride               | ND     | 0.0214  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| trans-1,2-Dichloroethene         | ND     | 0.0214  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Methyl tert-butyl ether (MTBE)   | ND     | 0.0536  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 1,1-Dichloroethane               | ND     | 0.0214  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 2,2-Dichloropropane              | ND     | 0.0536  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| cis-1,2-Dichloroethene           | 0.0263 | 0.0214  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Chloroform                       | ND     | 0.0214  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 1,1,1-Trichloroethane (TCA)      | ND     | 0.0214  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 1,1-Dichloropropene              | ND     | 0.0214  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Carbon tetrachloride             | ND     | 0.0214  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 1,2-Dichloroethane (EDC)         | ND     | 0.0322  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Benzene                          | ND     | 0.0214  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Trichloroethene (TCE)            | ND     | 0.0214  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 1,2-Dichloropropane              | ND     | 0.0214  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Bromodichloromethane             | ND     | 0.0214  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Dibromomethane                   | ND     | 0.0429  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| cis-1,3-Dichloropropene          | ND     | 0.0214  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Toluene                          | ND     | 0.0214  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| trans-1,3-Dichloropropylene      | ND     | 0.0322  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 1,1,2-Trichloroethane            | ND     | 0.0322  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 1,3-Dichloropropane              | ND     | 0.0536  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Tetrachloroethene (PCE)          | ND     | 0.0214  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Dibromochloromethane             | ND     | 0.0322  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 1,2-Dibromoethane (EDB)          | ND     | 0.00536 |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Chlorobenzene                    | ND     | 0.0214  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 1,1,1,2-Tetrachloroethane        | ND     | 0.0322  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Ethylbenzene                     | ND     | 0.0322  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| m,p-Xylene                       | ND     | 0.0214  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| o-Xylene                         | ND     | 0.0214  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Styrene                          | ND     | 0.0214  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Isopropylbenzene                 | ND     | 0.0858  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Bromoform                        | ND     | 0.0214  |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |



# Analytical Report

WO#: 1506311  
Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 1:30:00 PM

**Project:** Bethel Interior

**Lab ID:** 1506311-016

**Matrix:** Soil

**Client Sample ID:** SB-13-9

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183      Analyst: EM

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| n-Propylbenzene               | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Bromobenzene                  | ND   | 0.0322   |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 2-Chlorotoluene               | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 4-Chlorotoluene               | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| tert-Butylbenzene             | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 1,2,3-Trichloropropane        | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0536   |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| sec-Butylbenzene              | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 4-Isopropyltoluene            | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 1,3-Dichlorobenzene           | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 1,4-Dichlorobenzene           | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| n-Butylbenzene                | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 1,2-Dichlorobenzene           | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.536    |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Hexachlorobutadiene           | ND   | 0.107    |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Naphthalene                   | ND   | 0.0322   |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0214   |  | mg/Kg-dry | 1 | 6/30/2015 3:49:00 AM |
| Surr: Dibromofluoromethane    | 86.4 | 63.7-129 |  | %REC      | 1 | 6/30/2015 3:49:00 AM |
| Surr: Toluene-d8              | 97.7 | 64.3-131 |  | %REC      | 1 | 6/30/2015 3:49:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 92.6 | 63.1-141 |  | %REC      | 1 | 6/30/2015 3:49:00 AM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23294      Analyst: CG

|                  |      |  |  |     |   |                      |
|------------------|------|--|--|-----|---|----------------------|
| Percent Moisture | 16.8 |  |  | wt% | 1 | 6/30/2015 8:19:48 AM |
|------------------|------|--|--|-----|---|----------------------|



# Analytical Report

WO#: 1506311

Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/23/2015 12:42:00 PM

**Project:** Bethel Interior

**Lab ID:** 1506311-018

**Matrix:** Soil

**Client Sample ID:** Trip Blank

| Analyses   | Result | RL      | Qual | Units | DF              | Date Analyzed        |
|--|--------|---------|------|-------|-----------------|----------------------|
| <b>Volatile Organic Compounds by EPA Method 8260</b> |        |         |      |       | Batch ID: 11183 | Analyst: EM          |
| Dichlorodifluoromethane (CFC-12)                     | ND     | 0.0600  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| Chloromethane  | ND     | 0.0600  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| Vinyl chloride                                       | ND     | 0.00200 |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| Bromomethane   | ND     | 0.0900  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| Trichlorofluoromethane (CFC-11)                      | ND     | 0.0500  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| Chloroethane   | ND     | 0.0600  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| 1,1-Dichloroethene                                   | ND     | 0.0500  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| Methylene chloride                                   | ND     | 0.0200  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| trans-1,2-Dichloroethene                             | ND     | 0.0200  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| Methyl tert-butyl ether (MTBE)                       | ND     | 0.0500  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| 1,1-Dichloroethane                                   | ND     | 0.0200  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| 2,2-Dichloropropane                                  | ND     | 0.0500  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| cis-1,2-Dichloroethene                               | ND     | 0.0200  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| Chloroform   | ND     | 0.0200  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| 1,1,1-Trichloroethane (TCA)                          | ND     | 0.0200  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| 1,1-Dichloropropene                                  | ND     | 0.0200  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| Carbon tetrachloride                                 | ND     | 0.0200  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| 1,2-Dichloroethane (EDC)                             | ND     | 0.0300  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| Benzene  | ND     | 0.0200  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| Trichloroethene (TCE)                                | ND     | 0.0200  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| 1,2-Dichloropropane                                  | ND     | 0.0200  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| Bromodichloromethane                                 | ND     | 0.0200  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| Dibromomethane                                       | ND     | 0.0400  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| cis-1,3-Dichloropropene                              | ND     | 0.0200  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| Toluene  | ND     | 0.0200  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| trans-1,3-Dichloropropylene                          | ND     | 0.0300  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| 1,1,2-Trichloroethane                                | ND     | 0.0300  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| 1,3-Dichloropropane                                  | ND     | 0.0500  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| Tetrachloroethene (PCE)                              | ND     | 0.0200  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| Dibromochloromethane                                 | ND     | 0.0300  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| 1,2-Dibromoethane (EDB)                              | ND     | 0.00500 |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| Chlorobenzene  | ND     | 0.0200  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| 1,1,1,2-Tetrachloroethane                            | ND     | 0.0300  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| Ethylbenzene   | ND     | 0.0300  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| m,p-Xylene   | ND     | 0.0200  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| o-Xylene   | ND     | 0.0200  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| Styrene  | ND     | 0.0200  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| Isopropylbenzene                                     | ND     | 0.0800  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |
| Bromoform  | ND     | 0.0200  |      | mg/Kg | 1               | 6/29/2015 6:36:00 PM |



# Analytical Report

WO#: 1506311  
Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/23/2015 12:42:00 PM

**Project:** Bethel Interior

**Lab ID:** 1506311-018

**Matrix:** Soil

**Client Sample ID:** Trip Blank

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                               |      |          |  |       |   |                      |
|-------------------------------|------|----------|--|-------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0200   |  | mg/Kg | 1 | 6/29/2015 6:36:00 PM |
| n-Propylbenzene               | ND   | 0.0200   |  | mg/Kg | 1 | 6/29/2015 6:36:00 PM |
| Bromobenzene                  | ND   | 0.0300   |  | mg/Kg | 1 | 6/29/2015 6:36:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0200   |  | mg/Kg | 1 | 6/29/2015 6:36:00 PM |
| 2-Chlorotoluene               | ND   | 0.0200   |  | mg/Kg | 1 | 6/29/2015 6:36:00 PM |
| 4-Chlorotoluene               | ND   | 0.0200   |  | mg/Kg | 1 | 6/29/2015 6:36:00 PM |
| tert-Butylbenzene             | ND   | 0.0200   |  | mg/Kg | 1 | 6/29/2015 6:36:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0200   |  | mg/Kg | 1 | 6/29/2015 6:36:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0500   |  | mg/Kg | 1 | 6/29/2015 6:36:00 PM |
| sec-Butylbenzene              | ND   | 0.0200   |  | mg/Kg | 1 | 6/29/2015 6:36:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0200   |  | mg/Kg | 1 | 6/29/2015 6:36:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0200   |  | mg/Kg | 1 | 6/29/2015 6:36:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0200   |  | mg/Kg | 1 | 6/29/2015 6:36:00 PM |
| n-Butylbenzene                | ND   | 0.0200   |  | mg/Kg | 1 | 6/29/2015 6:36:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0200   |  | mg/Kg | 1 | 6/29/2015 6:36:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.500    |  | mg/Kg | 1 | 6/29/2015 6:36:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0200   |  | mg/Kg | 1 | 6/29/2015 6:36:00 PM |
| Hexachlorobutadiene           | ND   | 0.100    |  | mg/Kg | 1 | 6/29/2015 6:36:00 PM |
| Naphthalene                   | ND   | 0.0300   |  | mg/Kg | 1 | 6/29/2015 6:36:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0200   |  | mg/Kg | 1 | 6/29/2015 6:36:00 PM |
| Surr: Dibromofluoromethane    | 92.5 | 63.7-129 |  | %REC  | 1 | 6/29/2015 6:36:00 PM |
| Surr: Toluene-d8              | 94.5 | 64.3-131 |  | %REC  | 1 | 6/29/2015 6:36:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 98.5 | 63.1-141 |  | %REC  | 1 | 6/29/2015 6:36:00 PM |



# Analytical Report

WO#: 1506311  
Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/23/2015 12:45:00 PM

**Project:** Bethel Interior

**Lab ID:** 1506311-019

**Matrix:** Water

**Client Sample ID:** Trip Blank

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23397      Analyst: AK

|                                  |    |        |   |      |   |                     |
|----------------------------------|----|--------|---|------|---|---------------------|
| Dichlorodifluoromethane (CFC-12) | ND | 1.00   | Q | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Chloromethane                    | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Vinyl chloride                   | ND | 0.200  |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Bromomethane                     | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Trichlorofluoromethane (CFC-11)  | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Chloroethane                     | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,1-Dichloroethene               | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Methylene chloride               | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| trans-1,2-Dichloroethene         | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Methyl tert-butyl ether (MTBE)   | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,1-Dichloroethane               | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 2,2-Dichloropropane              | ND | 2.00   | Q | µg/L | 1 | 7/7/2015 9:02:00 AM |
| cis-1,2-Dichloroethene           | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Chloroform                       | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,1,1-Trichloroethane (TCA)      | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,1-Dichloropropene              | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Carbon tetrachloride             | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,2-Dichloroethane (EDC)         | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Benzene                          | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Trichloroethene (TCE)            | ND | 0.500  |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,2-Dichloropropane              | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Bromodichloromethane             | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Dibromomethane                   | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| cis-1,3-Dichloropropene          | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Toluene                          | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| trans-1,3-Dichloropropene        | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,1,2-Trichloroethane            | ND | 1.00   | Q | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,3-Dichloropropane              | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Tetrachloroethene (PCE)          | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Dibromochloromethane             | ND | 1.00   | Q | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,2-Dibromoethane (EDB)          | ND | 0.0600 |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Chlorobenzene                    | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,1,1,2-Tetrachloroethane        | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Ethylbenzene                     | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| m,p-Xylene                       | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| o-Xylene                         | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Styrene                          | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Isopropylbenzene                 | ND | 1.00   |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Bromoform                        | ND | 1.00   | Q | µg/L | 1 | 7/7/2015 9:02:00 AM |





# Analytical Report

WO#: 1506311  
Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/23/2015 12:45:00 PM

**Project:** Bethel Interior

**Lab ID:** 1506311-019

**Matrix:** Water

**Client Sample ID:** Trip Blank

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23397      Analyst: AK

|                               |      |          |   |      |   |                     |
|-------------------------------|------|----------|---|------|---|---------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| n-Propylbenzene               | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Bromobenzene                  | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 2-Chlorotoluene               | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 4-Chlorotoluene               | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| tert-Butylbenzene             | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,2,3-Trichloropropane        | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 2.00     |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| sec-Butylbenzene              | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 4-Isopropyltoluene            | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,3-Dichlorobenzene           | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,4-Dichlorobenzene           | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| n-Butylbenzene                | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,2-Dichlorobenzene           | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 1.00     | Q | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Hexachlorobutadiene           | ND   | 4.00     |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Naphthalene                   | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 4.00     |   | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Surr: Dibromofluoromethane    | 102  | 77.4-147 |   | %REC | 1 | 7/7/2015 9:02:00 AM |
| Surr: Toluene-d8              | 131  | 40.1-139 |   | %REC | 1 | 7/7/2015 9:02:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 89.5 | 64.2-128 |   | %REC | 1 | 7/7/2015 9:02:00 AM |

**NOTES:**

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).



# Analytical Report

WO#: 1506311

Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 2:00:00 PM

**Project:** Bethel Interior

**Lab ID:** 1506311-020

**Matrix:** Groundwater

**Client Sample ID:** SB-11-W

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23397

Analyst: AK

|                                  |       |        |   |      |    |                     |
|----------------------------------|-------|--------|---|------|----|---------------------|
| Dichlorodifluoromethane (CFC-12) | ND    | 1.00   | Q | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Chloromethane                    | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Vinyl chloride                   | 0.706 | 0.200  | Q | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Bromomethane                     | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Chloroethane                     | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 1,1-Dichloroethene               | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Methylene chloride               | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| trans-1,2-Dichloroethene         | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 1,1-Dichloroethane               | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 2,2-Dichloropropane              | ND    | 2.00   | Q | µg/L | 1  | 7/7/2015 4:40:00 PM |
| cis-1,2-Dichloroethene           | 61.6  | 10.0   | D | µg/L | 10 | 7/8/2015 7:38:00 AM |
| Chloroform                       | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 1,1-Dichloropropene              | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Carbon tetrachloride             | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 1,2-Dichloroethane (EDC)         | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Benzene                          | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Trichloroethene (TCE)            | ND    | 0.500  |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 1,2-Dichloropropane              | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Bromodichloromethane             | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Dibromomethane                   | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| cis-1,3-Dichloropropene          | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Toluene                          | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| trans-1,3-Dichloropropene        | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 1,1,2-Trichloroethane            | ND    | 1.00   | Q | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 1,3-Dichloropropane              | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Tetrachloroethene (PCE)          | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Dibromochloromethane             | ND    | 1.00   | Q | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 1,2-Dibromoethane (EDB)          | ND    | 0.0600 |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Chlorobenzene                    | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Ethylbenzene                     | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| m,p-Xylene                       | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| o-Xylene                         | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Styrene                          | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Isopropylbenzene                 | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Bromoform                        | ND    | 1.00   | Q | µg/L | 1  | 7/7/2015 4:40:00 PM |



# Analytical Report

WO#: 1506311  
Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 2:00:00 PM

**Project:** Bethel Interior

**Lab ID:** 1506311-020

**Matrix:** Groundwater

**Client Sample ID:** SB-11-W

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23397      Analyst: AK

|                               |      |          |   |      |   |                     |
|-------------------------------|------|----------|---|------|---|---------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| n-Propylbenzene               | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| Bromobenzene                  | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 2-Chlorotoluene               | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 4-Chlorotoluene               | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| tert-Butylbenzene             | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 1,2,3-Trichloropropane        | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 2.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| sec-Butylbenzene              | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 4-Isopropyltoluene            | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 1,3-Dichlorobenzene           | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 1,4-Dichlorobenzene           | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| n-Butylbenzene                | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 1,2-Dichlorobenzene           | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 1.00     | Q | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| Hexachlorobutadiene           | ND   | 4.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| Naphthalene                   | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 4.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| Surr: Dibromofluoromethane    | 102  | 77.4-147 |   | %REC | 1 | 7/7/2015 4:40:00 PM |
| Surr: Toluene-d8              | 93.5 | 40.1-139 |   | %REC | 1 | 7/7/2015 4:40:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 106  | 64.2-128 |   | %REC | 1 | 7/7/2015 4:40:00 PM |

**NOTES:**

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

**Ion Chromatography by EPA Method 300.0**

Batch ID: R23285      Analyst: KT

|          |        |       |    |      |   |                      |
|----------|--------|-------|----|------|---|----------------------|
| Fluoride | 0.0168 | 0.200 | JD | mg/L | 2 | 6/29/2015 2:51:00 PM |
|----------|--------|-------|----|------|---|----------------------|

**NOTES:**

Sample diluted due to matrix.



# Analytical Report

WO#: 1506311

Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 2:10:00 PM

**Project:** Bethel Interior

**Lab ID:** 1506311-021

**Matrix:** Groundwater

**Client Sample ID:** SB-10-W

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23397

Analyst: AK

|                                  |      |        |   |      |   |                     |
|----------------------------------|------|--------|---|------|---|---------------------|
| Dichlorodifluoromethane (CFC-12) | ND   | 1.00   | Q | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Chloromethane                    | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Vinyl chloride                   | ND   | 0.200  |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Bromomethane                     | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Chloroethane                     | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,1-Dichloroethene               | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Methylene chloride               | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| trans-1,2-Dichloroethene         | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,1-Dichloroethane               | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 2,2-Dichloropropane              | ND   | 2.00   | Q | µg/L | 1 | 7/7/2015 5:38:00 PM |
| cis-1,2-Dichloroethene           | 18.3 | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Chloroform                       | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,1-Dichloropropene              | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Carbon tetrachloride             | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,2-Dichloroethane (EDC)         | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Benzene                          | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Trichloroethene (TCE)            | ND   | 0.500  |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,2-Dichloropropane              | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Bromodichloromethane             | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Dibromomethane                   | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| cis-1,3-Dichloropropene          | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Toluene                          | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| trans-1,3-Dichloropropene        | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,1,2-Trichloroethane            | ND   | 1.00   | Q | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,3-Dichloropropane              | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Tetrachloroethene (PCE)          | 1.52 | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Dibromochloromethane             | ND   | 1.00   | Q | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,2-Dibromoethane (EDB)          | ND   | 0.0600 |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Chlorobenzene                    | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Ethylbenzene                     | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| m,p-Xylene                       | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| o-Xylene                         | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Styrene                          | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Isopropylbenzene                 | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Bromoform                        | ND   | 1.00   | Q | µg/L | 1 | 7/7/2015 5:38:00 PM |



# Analytical Report

WO#: 1506311  
Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 2:10:00 PM

**Project:** Bethel Interior

**Lab ID:** 1506311-021

**Matrix:** Groundwater

**Client Sample ID:** SB-10-W

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23397      Analyst: AK

|                               |     |          |   |      |   |                     |
|-------------------------------|-----|----------|---|------|---|---------------------|
| 1,1,2,2-Tetrachloroethane     | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| n-Propylbenzene               | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Bromobenzene                  | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,3,5-Trimethylbenzene        | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 2-Chlorotoluene               | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 4-Chlorotoluene               | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| tert-Butylbenzene             | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,2,3-Trichloropropane        | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,2,4-Trichlorobenzene        | ND  | 2.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| sec-Butylbenzene              | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 4-Isopropyltoluene            | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,3-Dichlorobenzene           | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,4-Dichlorobenzene           | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| n-Butylbenzene                | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,2-Dichlorobenzene           | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND  | 1.00     | Q | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,2,4-Trimethylbenzene        | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Hexachlorobutadiene           | ND  | 4.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Naphthalene                   | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,2,3-Trichlorobenzene        | ND  | 4.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Surr: Dibromofluoromethane    | 102 | 77.4-147 |   | %REC | 1 | 7/7/2015 5:38:00 PM |
| Surr: Toluene-d8              | 102 | 40.1-139 |   | %REC | 1 | 7/7/2015 5:38:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 119 | 64.2-128 |   | %REC | 1 | 7/7/2015 5:38:00 PM |

**NOTES:**

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).



# Analytical Report

WO#: 1506311

Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 3:20:00 PM

**Project:** Bethel Interior

**Lab ID:** 1506311-022

**Matrix:** Groundwater

**Client Sample ID:** SB-13-W

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23397

Analyst: AK

|                                  |       |        |   |      |    |                     |
|----------------------------------|-------|--------|---|------|----|---------------------|
| Dichlorodifluoromethane (CFC-12) | ND    | 1.00   | Q | µg/L | 1  | 7/7/2015 6:07:00 PM |
| Chloromethane                    | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| Vinyl chloride                   | 0.658 | 0.200  | Q | µg/L | 1  | 7/7/2015 6:07:00 PM |
| Bromomethane                     | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| Chloroethane                     | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| 1,1-Dichloroethene               | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| Methylene chloride               | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| trans-1,2-Dichloroethene         | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| 1,1-Dichloroethane               | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| 2,2-Dichloropropane              | ND    | 2.00   | Q | µg/L | 1  | 7/7/2015 6:07:00 PM |
| cis-1,2-Dichloroethene           | 37.3  | 10.0   | D | µg/L | 10 | 7/8/2015 8:06:00 AM |
| Chloroform                       | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| 1,1-Dichloropropene              | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| Carbon tetrachloride             | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| 1,2-Dichloroethane (EDC)         | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| Benzene                          | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| Trichloroethene (TCE)            | ND    | 0.500  |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| 1,2-Dichloropropane              | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| Bromodichloromethane             | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| Dibromomethane                   | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| cis-1,3-Dichloropropene          | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| Toluene                          | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| trans-1,3-Dichloropropene        | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| 1,1,2-Trichloroethane            | ND    | 1.00   | Q | µg/L | 1  | 7/7/2015 6:07:00 PM |
| 1,3-Dichloropropane              | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| Tetrachloroethene (PCE)          | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| Dibromochloromethane             | ND    | 1.00   | Q | µg/L | 1  | 7/7/2015 6:07:00 PM |
| 1,2-Dibromoethane (EDB)          | ND    | 0.0600 |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| Chlorobenzene                    | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| Ethylbenzene                     | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| m,p-Xylene                       | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| o-Xylene                         | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| Styrene                          | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| Isopropylbenzene                 | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 6:07:00 PM |
| Bromoform                        | ND    | 1.00   | Q | µg/L | 1  | 7/7/2015 6:07:00 PM |



# Analytical Report

WO#: 1506311  
Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 3:20:00 PM

**Project:** Bethel Interior

**Lab ID:** 1506311-022

**Matrix:** Groundwater

**Client Sample ID:** SB-13-W

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23397      Analyst: AK

|                               |      |          |   |      |   |                     |
|-------------------------------|------|----------|---|------|---|---------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| n-Propylbenzene               | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| Bromobenzene                  | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 2-Chlorotoluene               | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 4-Chlorotoluene               | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| tert-Butylbenzene             | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 1,2,3-Trichloropropane        | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 2.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| sec-Butylbenzene              | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 4-Isopropyltoluene            | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 1,3-Dichlorobenzene           | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 1,4-Dichlorobenzene           | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| n-Butylbenzene                | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 1,2-Dichlorobenzene           | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 1.00     | Q | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| Hexachlorobutadiene           | ND   | 4.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| Naphthalene                   | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 4.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| Surr: Dibromofluoromethane    | 103  | 77.4-147 |   | %REC | 1 | 7/7/2015 6:07:00 PM |
| Surr: Toluene-d8              | 101  | 40.1-139 |   | %REC | 1 | 7/7/2015 6:07:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 95.9 | 64.2-128 |   | %REC | 1 | 7/7/2015 6:07:00 PM |

**NOTES:**

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).



# Analytical Report

WO#: 1506311  
Date Reported: 9/8/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 6/25/2015 3:40:00 PM

**Project:** Bethel Interior

**Lab ID:** 1506311-023

**Matrix:** Soil

**Client Sample ID:** DRUM-1

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Mercury by EPA Method 7471**

Batch ID: 11182 Analyst: MW

|         |    |       |  |           |   |                     |
|---------|----|-------|--|-----------|---|---------------------|
| Mercury | ND | 0.273 |  | mg/Kg-dry | 1 | 7/1/2015 1:59:15 PM |
|---------|----|-------|--|-----------|---|---------------------|

**Total Metals by EPA Method 6020**

Batch ID: 11181 Analyst: TN

|          |       |        |  |           |   |                      |
|----------|-------|--------|--|-----------|---|----------------------|
| Arsenic  | 2.25  | 0.0813 |  | mg/Kg-dry | 1 | 6/29/2015 4:28:26 PM |
| Barium   | 47.6  | 0.406  |  | mg/Kg-dry | 1 | 6/29/2015 4:28:26 PM |
| Cadmium  | ND    | 0.163  |  | mg/Kg-dry | 1 | 6/29/2015 4:28:26 PM |
| Chromium | 32.4  | 0.0813 |  | mg/Kg-dry | 1 | 6/29/2015 4:28:26 PM |
| Lead     | 2.66  | 0.163  |  | mg/Kg-dry | 1 | 6/29/2015 4:28:26 PM |
| Selenium | 0.982 | 0.406  |  | mg/Kg-dry | 1 | 6/29/2015 4:28:26 PM |
| Silver   | ND    | 0.0813 |  | mg/Kg-dry | 1 | 6/29/2015 4:28:26 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23294 Analyst: CG

|                  |      |  |  |     |   |                      |
|------------------|------|--|--|-----|---|----------------------|
| Percent Moisture | 10.2 |  |  | wt% | 1 | 6/30/2015 8:19:48 AM |
|------------------|------|--|--|-----|---|----------------------|





Date: 9/8/2015

**Work Order:** 1506311  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Interior

**QC SUMMARY REPORT**  
**Ion Chromatography by EPA Method 300.0**

|                             |                         |                    |                                 |                      |      |          |           |             |      |          |      |
|-----------------------------|-------------------------|--------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-R23285</b> | SampType: <b>MBLK</b>   | Units: <b>mg/L</b> | Prep Date: <b>6/29/2015</b>     | RunNo: <b>23285</b>  |      |          |           |             |      |          |      |
| Client ID: <b>MBLKW</b>     | Batch ID: <b>R23285</b> |                    | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441071</b> |      |          |           |             |      |          |      |
| Analyte                     | Result                  | RL                 | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Fluoride ND 0.100

|                              |                         |                    |                                 |                      |      |          |           |             |      |          |      |
|------------------------------|-------------------------|--------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-R23285</b> | SampType: <b>LCS</b>    | Units: <b>mg/L</b> | Prep Date: <b>6/29/2015</b>     | RunNo: <b>23285</b>  |      |          |           |             |      |          |      |
| Client ID: <b>LCSW</b>       | Batch ID: <b>R23285</b> |                    | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441072</b> |      |          |           |             |      |          |      |
| Analyte                      | Result                  | RL                 | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Fluoride 2.00 0.100 2.000 0 100 90 110

|                                   |                         |                    |                                 |                      |      |          |           |             |      |          |      |
|-----------------------------------|-------------------------|--------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>1506311-020BDUP</b> | SampType: <b>DUP</b>    | Units: <b>mg/L</b> | Prep Date: <b>6/29/2015</b>     | RunNo: <b>23285</b>  |      |          |           |             |      |          |      |
| Client ID: <b>SB-11-W</b>         | Batch ID: <b>R23285</b> |                    | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441074</b> |      |          |           |             |      |          |      |
| Analyte                           | Result                  | RL                 | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Fluoride ND 0.200 0 20 D

**NOTES:**  
Sample diluted due to matrix.

|                                  |                         |                    |                                 |                      |      |          |           |             |      |          |      |
|----------------------------------|-------------------------|--------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>1506311-020BMS</b> | SampType: <b>MS</b>     | Units: <b>mg/L</b> | Prep Date: <b>6/29/2015</b>     | RunNo: <b>23285</b>  |      |          |           |             |      |          |      |
| Client ID: <b>SB-11-W</b>        | Batch ID: <b>R23285</b> |                    | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441075</b> |      |          |           |             |      |          |      |
| Analyte                          | Result                  | RL                 | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Fluoride 3.98 0.200 4.000 0.01680 99.0 80 120 D

**NOTES:**  
Sample diluted due to matrix.

|                                   |                         |                    |                                 |                      |      |          |           |             |      |          |      |
|-----------------------------------|-------------------------|--------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>1506311-020BMSD</b> | SampType: <b>MSD</b>    | Units: <b>mg/L</b> | Prep Date: <b>6/29/2015</b>     | RunNo: <b>23285</b>  |      |          |           |             |      |          |      |
| Client ID: <b>SB-11-W</b>         | Batch ID: <b>R23285</b> |                    | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441076</b> |      |          |           |             |      |          |      |
| Analyte                           | Result                  | RL                 | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Fluoride 3.98 0.200 4.000 0.01680 99.2 80 120 3.978 0.121 20 D

**NOTES:**  
Sample diluted due to matrix.



**Work Order:** 1506311  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Interior

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020**

| Sample ID: <b>MB-11181</b> | SampType: <b>MBLK</b>  | Units: <b>mg/Kg</b>             | Prep Date: <b>6/29/2015</b> | RunNo: <b>23283</b> |      |          |           |             |      |          |      |
|----------------------------|------------------------|---------------------------------|-----------------------------|---------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>MBLKS</b>    | Batch ID: <b>11181</b> | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441038</b>        |                     |      |          |           |             |      |          |      |
| Analyte                    | Result                 | RL                              | SPK value                   | SPK Ref Val         | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic                    | ND                     | 0.100                           |                             |                     |      |          |           |             |      |          |      |
| Barium                     | ND                     | 0.500                           |                             |                     |      |          |           |             |      |          |      |
| Cadmium                    | ND                     | 0.200                           |                             |                     |      |          |           |             |      |          |      |
| Chromium                   | ND                     | 0.100                           |                             |                     |      |          |           |             |      |          |      |
| Lead                       | ND                     | 0.200                           |                             |                     |      |          |           |             |      |          |      |
| Selenium                   | ND                     | 0.500                           |                             |                     |      |          |           |             |      |          |      |
| Silver                     | ND                     | 0.100                           |                             |                     |      |          |           |             |      |          |      |

| Sample ID: <b>LCS-11181</b> | SampType: <b>LCS</b>   | Units: <b>mg/Kg</b>             | Prep Date: <b>6/29/2015</b> | RunNo: <b>23283</b> |      |          |           |             |      |          |      |
|-----------------------------|------------------------|---------------------------------|-----------------------------|---------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>11181</b> | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441039</b>        |                     |      |          |           |             |      |          |      |
| Analyte                     | Result                 | RL                              | SPK value                   | SPK Ref Val         | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic                     | 151                    | 0.100                           | 152.0                       | 0                   | 99.6 | 70.4     | 129.6     |             |      |          |      |
| Barium                      | 337                    | 0.500                           | 376.0                       | 0                   | 89.5 | 74.2     | 125.8     |             |      |          |      |
| Cadmium                     | 174                    | 0.200                           | 171.0                       | 0                   | 102  | 73.7     | 126.9     |             |      |          |      |
| Chromium                    | 164                    | 0.100                           | 152.0                       | 0                   | 108  | 70.4     | 129.6     |             |      |          |      |
| Lead                        | 214                    | 0.200                           | 237.0                       | 0                   | 90.3 | 75.1     | 124.9     |             |      |          |      |
| Selenium                    | 195                    | 0.500                           | 229.0                       | 0                   | 85.2 | 69       | 131       |             |      |          |      |
| Silver                      | 76.9                   | 0.100                           | 79.70                       | 0                   | 96.5 | 67.3     | 133       |             |      |          |      |

| Sample ID: <b>1506313-001ADUP</b> | SampType: <b>DUP</b>   | Units: <b>mg/Kg-dry</b>         | Prep Date: <b>6/29/2015</b> | RunNo: <b>23283</b> |      |          |           |             |      |          |      |
|-----------------------------------|------------------------|---------------------------------|-----------------------------|---------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>BATCH</b>           | Batch ID: <b>11181</b> | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441041</b>        |                     |      |          |           |             |      |          |      |
| Analyte                           | Result                 | RL                              | SPK value                   | SPK Ref Val         | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic                           | 5.27                   | 0.102                           |                             |                     |      |          |           | 4.514       | 15.4 | 20       |      |
| Barium                            | 73.7                   | 0.512                           |                             |                     |      |          |           | 80.90       | 9.27 | 20       |      |
| Cadmium                           | ND                     | 0.205                           |                             |                     |      |          |           | 0.2314      | 20.0 | 20       |      |
| Chromium                          | 38.6                   | 0.102                           |                             |                     |      |          |           | 33.03       | 15.7 | 20       |      |
| Lead                              | 159                    | 0.205                           |                             |                     |      |          |           | 98.32       | 47.0 | 20       | R    |
| Selenium                          | 1.06                   | 0.512                           |                             |                     |      |          |           | 1.331       | 22.7 | 20       |      |

**Work Order:** 1506311  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Interior

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020**

| Sample ID: <b>1506313-001ADUP</b> | SampType: <b>DUP</b>   | Units: <b>mg/Kg-dry</b>         | Prep Date: <b>6/29/2015</b> | RunNo: <b>23283</b> |      |          |           |             |      |          |      |
|-----------------------------------|------------------------|---------------------------------|-----------------------------|---------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>BATCH</b>           | Batch ID: <b>11181</b> | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441041</b>        |                     |      |          |           |             |      |          |      |
| Analyte                           | Result                 | RL                              | SPK value                   | SPK Ref Val         | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Silver                            | 0.108                  | 0.102                           |                             |                     |      |          |           | 0.1293      | 17.8 | 20       |      |

**NOTES:**  
R - High RPD observed. The method is in control as indicated by the laboratory control sample (LCS).

| Sample ID: <b>1506313-001AMS</b> | SampType: <b>MS</b>    | Units: <b>mg/Kg-dry</b>         | Prep Date: <b>6/29/2015</b> | RunNo: <b>23283</b> |      |          |           |             |      |          |      |
|----------------------------------|------------------------|---------------------------------|-----------------------------|---------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>BATCH</b>          | Batch ID: <b>11181</b> | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441043</b>        |                     |      |          |           |             |      |          |      |
| Analyte                          | Result                 | RL                              | SPK value                   | SPK Ref Val         | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic                          | 57.1                   | 0.101                           | 50.81                       | 4.514               | 103  | 75       | 125       |             |      |          |      |
| Barium                           | 126                    | 0.508                           | 50.81                       | 80.90               | 89.2 | 75       | 125       |             |      |          |      |
| Cadmium                          | 2.77                   | 0.203                           | 2.541                       | 0.2314              | 100  | 75       | 125       |             |      |          |      |
| Chromium                         | 86.7                   | 0.101                           | 50.81                       | 33.03               | 106  | 75       | 125       |             |      |          |      |
| Lead                             | 160                    | 0.203                           | 25.41                       | 98.32               | 241  | 75       | 125       |             |      |          | S    |
| Selenium                         | 5.62                   | 0.508                           | 5.081                       | 1.331               | 84.4 | 75       | 125       |             |      |          |      |
| Silver                           | 2.39                   | 0.101                           | 2.541                       | 0.1293              | 88.8 | 75       | 125       |             |      |          |      |

**NOTES:**  
S - Outlying spike recovery observed, similar results seen in the MSD indicating a possible matrix effect.

| Sample ID: <b>1506313-001AMSD</b> | SampType: <b>MSD</b>   | Units: <b>mg/Kg-dry</b>         | Prep Date: <b>6/29/2015</b> | RunNo: <b>23283</b> |      |          |           |             |      |          |      |
|-----------------------------------|------------------------|---------------------------------|-----------------------------|---------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>BATCH</b>           | Batch ID: <b>11181</b> | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441044</b>        |                     |      |          |           |             |      |          |      |
| Analyte                           | Result                 | RL                              | SPK value                   | SPK Ref Val         | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic                           | 58.8                   | 0.103                           | 51.61                       | 4.514               | 105  | 75       | 125       | 57.10       | 2.85 | 20       |      |
| Barium                            | 130                    | 0.516                           | 51.61                       | 80.90               | 95.8 | 75       | 125       | 126.2       | 3.21 | 20       |      |
| Cadmium                           | 2.94                   | 0.207                           | 2.581                       | 0.2314              | 105  | 75       | 125       | 2.772       | 5.96 | 20       |      |
| Chromium                          | 93.7                   | 0.103                           | 51.61                       | 33.03               | 118  | 75       | 125       | 86.75       | 7.69 | 20       |      |
| Lead                              | 101                    | 0.207                           | 25.81                       | 98.32               | 10.8 | 75       | 125       | 159.5       | 44.8 | 20       | RS   |
| Selenium                          | 5.70                   | 0.516                           | 5.161                       | 1.331               | 84.6 | 75       | 125       | 5.621       | 1.33 | 20       |      |
| Silver                            | 2.50                   | 0.103                           | 2.581                       | 0.1293              | 91.9 | 75       | 125       | 2.385       | 4.72 | 20       |      |

**NOTES:**  
SR - Outlying spike recovery and high RPD observed, indicating a possible matrix effect. The method is in control as indicated by the LCS.



Date: 9/8/2015

**Work Order:** 1506311  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Interior

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020**

| Sample ID: <b>1506313-001APDS</b> | SampType: <b>PDS</b>   | Units: <b>mg/Kg-dry</b> | Prep Date: <b>6/29/2015</b>     | RunNo: <b>23283</b>  |      |          |           |             |      |          |      |
|-----------------------------------|------------------------|-------------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>BATCH</b>           | Batch ID: <b>11181</b> |                         | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441045</b> |      |          |           |             |      |          |      |
| Analyte                           | Result                 | RL                      | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Lead                              | 129                    | 0.207                   | 25.8                            | 98.3                 | 117  | 80       | 120       |             |      |          |      |

**Work Order:** 1506311  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Interior

**QC SUMMARY REPORT**  
**Mercury by EPA Method 7471**

|                            |                        |                     |                                |                      |      |          |           |             |      |          |      |
|----------------------------|------------------------|---------------------|--------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-11182</b> | SampType: <b>MBLK</b>  | Units: <b>mg/Kg</b> | Prep Date: <b>6/29/2015</b>    | RunNo: <b>23328</b>  |      |          |           |             |      |          |      |
| Client ID: <b>MBLKS</b>    | Batch ID: <b>11182</b> |                     | Analysis Date: <b>7/1/2015</b> | SeqNo: <b>441764</b> |      |          |           |             |      |          |      |
| Analyte                    | Result                 | RL                  | SPK value                      | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury ND 0.250

|                             |                        |                     |                                |                      |      |          |           |             |      |          |      |
|-----------------------------|------------------------|---------------------|--------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-11182</b> | SampType: <b>LCS</b>   | Units: <b>mg/Kg</b> | Prep Date: <b>6/29/2015</b>    | RunNo: <b>23328</b>  |      |          |           |             |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>11182</b> |                     | Analysis Date: <b>7/1/2015</b> | SeqNo: <b>441765</b> |      |          |           |             |      |          |      |
| Analyte                     | Result                 | RL                  | SPK value                      | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury 0.551 0.250 0.5000 0 110 80 120

|                                   |                        |                         |                                |                      |      |          |           |             |      |          |      |
|-----------------------------------|------------------------|-------------------------|--------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>1506313-001ADUP</b> | SampType: <b>DUP</b>   | Units: <b>mg/Kg-dry</b> | Prep Date: <b>6/29/2015</b>    | RunNo: <b>23328</b>  |      |          |           |             |      |          |      |
| Client ID: <b>BATCH</b>           | Batch ID: <b>11182</b> |                         | Analysis Date: <b>7/1/2015</b> | SeqNo: <b>441767</b> |      |          |           |             |      |          |      |
| Analyte                           | Result                 | RL                      | SPK value                      | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury ND 0.293 0 20

|                                  |                        |                         |                                |                      |      |          |           |             |      |          |      |
|----------------------------------|------------------------|-------------------------|--------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>1506313-001AMS</b> | SampType: <b>MS</b>    | Units: <b>mg/Kg-dry</b> | Prep Date: <b>6/29/2015</b>    | RunNo: <b>23328</b>  |      |          |           |             |      |          |      |
| Client ID: <b>BATCH</b>          | Batch ID: <b>11182</b> |                         | Analysis Date: <b>7/1/2015</b> | SeqNo: <b>441768</b> |      |          |           |             |      |          |      |
| Analyte                          | Result                 | RL                      | SPK value                      | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury 0.763 0.283 0.5651 0.1345 111 70 130

|                                   |                        |                         |                                |                      |      |          |           |             |      |          |      |
|-----------------------------------|------------------------|-------------------------|--------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>1506313-001AMSD</b> | SampType: <b>MSD</b>   | Units: <b>mg/Kg-dry</b> | Prep Date: <b>6/29/2015</b>    | RunNo: <b>23328</b>  |      |          |           |             |      |          |      |
| Client ID: <b>BATCH</b>           | Batch ID: <b>11182</b> |                         | Analysis Date: <b>7/1/2015</b> | SeqNo: <b>441769</b> |      |          |           |             |      |          |      |
| Analyte                           | Result                 | RL                      | SPK value                      | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury 0.780 0.287 0.5750 0.1345 112 70 130 0.7628 2.18 20

**Work Order:** 1506311  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Interior

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID: <b>LCS-11183</b>      | SampType: <b>LCS</b>   | Units: <b>mg/Kg</b> |           |             | Prep Date: <b>6/29/2015</b>     | RunNo: <b>23288</b>  |           |             |      |          |      |
|----------------------------------|------------------------|---------------------|-----------|-------------|---------------------------------|----------------------|-----------|-------------|------|----------|------|
| Client ID: <b>LCSS</b>           | Batch ID: <b>11183</b> |                     |           |             | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441125</b> |           |             |      |          |      |
| Analyte                          | Result                 | RL                  | SPK value | SPK Ref Val | %REC                            | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Dichlorodifluoromethane (CFC-12) | 1.64                   | 0.0600              | 1.000     | 0           | 164                             | 37.2                 | 139       |             |      |          | S    |
| Chloromethane                    | 1.20                   | 0.0600              | 1.000     | 0           | 120                             | 38.8                 | 132       |             |      |          |      |
| Vinyl chloride                   | 1.14                   | 0.00200             | 1.000     | 0           | 114                             | 56.1                 | 130       |             |      |          |      |
| Bromomethane                     | 1.04                   | 0.0900              | 1.000     | 0           | 104                             | 41.3                 | 148       |             |      |          |      |
| Trichlorofluoromethane (CFC-11)  | 1.00                   | 0.0500              | 1.000     | 0           | 100                             | 42.9                 | 147       |             |      |          |      |
| Chloroethane                     | 0.946                  | 0.0600              | 1.000     | 0           | 94.6                            | 37.1                 | 144       |             |      |          |      |
| 1,1-Dichloroethene               | 0.997                  | 0.0500              | 1.000     | 0           | 99.7                            | 49.7                 | 142       |             |      |          |      |
| Methylene chloride               | 0.951                  | 0.0200              | 1.000     | 0           | 95.1                            | 46.3                 | 140       |             |      |          |      |
| trans-1,2-Dichloroethene         | 0.968                  | 0.0200              | 1.000     | 0           | 96.8                            | 68                   | 130       |             |      |          |      |
| Methyl tert-butyl ether (MTBE)   | 0.803                  | 0.0500              | 1.000     | 0           | 80.3                            | 59.1                 | 138       |             |      |          |      |
| 1,1-Dichloroethane               | 0.924                  | 0.0200              | 1.000     | 0           | 92.4                            | 65.5                 | 132       |             |      |          |      |
| 2,2-Dichloropropane              | 1.13                   | 0.0500              | 1.000     | 0           | 113                             | 28.1                 | 149       |             |      |          |      |
| cis-1,2-Dichloroethene           | 0.937                  | 0.0200              | 1.000     | 0           | 93.7                            | 71.3                 | 135       |             |      |          |      |
| Chloroform                       | 0.923                  | 0.0200              | 1.000     | 0           | 92.3                            | 67.5                 | 129       |             |      |          |      |
| 1,1,1-Trichloroethane (TCA)      | 0.925                  | 0.0200              | 1.000     | 0           | 92.5                            | 69                   | 132       |             |      |          |      |
| 1,1-Dichloropropene              | 0.979                  | 0.0200              | 1.000     | 0           | 97.9                            | 72.7                 | 131       |             |      |          |      |
| Carbon tetrachloride             | 1.06                   | 0.0200              | 1.000     | 0           | 106                             | 63.4                 | 137       |             |      |          |      |
| 1,2-Dichloroethane (EDC)         | 0.817                  | 0.0300              | 1.000     | 0           | 81.7                            | 61.9                 | 136       |             |      |          |      |
| Benzene                          | 0.958                  | 0.0200              | 1.000     | 0           | 95.8                            | 64.3                 | 133       |             |      |          |      |
| Trichloroethene (TCE)            | 0.920                  | 0.0200              | 1.000     | 0           | 92.0                            | 65.5                 | 137       |             |      |          |      |
| 1,2-Dichloropropane              | 0.921                  | 0.0200              | 1.000     | 0           | 92.1                            | 63.2                 | 142       |             |      |          |      |
| Bromodichloromethane             | 0.867                  | 0.0200              | 1.000     | 0           | 86.7                            | 73.2                 | 131       |             |      |          |      |
| Dibromomethane                   | 0.875                  | 0.0400              | 1.000     | 0           | 87.5                            | 70                   | 130       |             |      |          |      |
| cis-1,3-Dichloropropene          | 1.01                   | 0.0200              | 1.000     | 0           | 101                             | 59.1                 | 143       |             |      |          |      |
| Toluene                          | 0.932                  | 0.0200              | 1.000     | 0           | 93.2                            | 67.3                 | 138       |             |      |          |      |
| trans-1,3-Dichloropropylene      | 0.930                  | 0.0300              | 1.000     | 0           | 93.0                            | 49.2                 | 149       |             |      |          |      |
| 1,1,2-Trichloroethane            | 0.901                  | 0.0300              | 1.000     | 0           | 90.1                            | 74.5                 | 129       |             |      |          |      |
| 1,3-Dichloropropane              | 0.904                  | 0.0500              | 1.000     | 0           | 90.4                            | 70                   | 130       |             |      |          |      |
| Tetrachloroethene (PCE)          | 1.02                   | 0.0200              | 1.000     | 0           | 102                             | 52.7                 | 150       |             |      |          |      |
| Dibromochloromethane             | 0.856                  | 0.0300              | 1.000     | 0           | 85.6                            | 70.6                 | 144       |             |      |          |      |
| 1,2-Dibromoethane (EDB)          | 0.962                  | 0.00500             | 1.000     | 0           | 96.2                            | 70                   | 130       |             |      |          |      |



Date: 9/8/2015

Work Order: 1506311  
 CLIENT: PES Environmental, Inc.  
 Project: Bethel Interior

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID: LCS-11183          | SampType: LCS   | Units: mg/Kg |           |             |      | Prep Date: 6/29/2015     | RunNo: 23288  |             |      |          |      |
|-------------------------------|-----------------|--------------|-----------|-------------|------|--------------------------|---------------|-------------|------|----------|------|
| Client ID: LCSS               | Batch ID: 11183 |              |           |             |      | Analysis Date: 6/29/2015 | SeqNo: 441125 |             |      |          |      |
| Analyte                       | Result          | RL           | SPK value | SPK Ref Val | %REC | LowLimit                 | HighLimit     | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chlorobenzene                 | 0.968           | 0.0200       | 1.000     | 0           | 96.8 | 76.1                     | 123           |             |      |          |      |
| 1,1,1,2-Tetrachloroethane     | 1.03            | 0.0300       | 1.000     | 0           | 103  | 74.8                     | 131           |             |      |          |      |
| Ethylbenzene                  | 0.953           | 0.0300       | 1.000     | 0           | 95.3 | 74                       | 129           |             |      |          |      |
| m,p-Xylene                    | 2.00            | 0.0200       | 2.000     | 0           | 100  | 79.8                     | 128           |             |      |          |      |
| o-Xylene                      | 0.988           | 0.0200       | 1.000     | 0           | 98.8 | 72.7                     | 124           |             |      |          |      |
| Styrene                       | 1.01            | 0.0200       | 1.000     | 0           | 101  | 76.8                     | 130           |             |      |          |      |
| Isopropylbenzene              | 1.02            | 0.0800       | 1.000     | 0           | 102  | 70                       | 130           |             |      |          |      |
| Bromoform                     | 0.841           | 0.0200       | 1.000     | 0           | 84.1 | 67                       | 154           |             |      |          |      |
| 1,1,2,2-Tetrachloroethane     | 0.965           | 0.0200       | 1.000     | 0           | 96.5 | 60                       | 130           |             |      |          |      |
| n-Propylbenzene               | 1.02            | 0.0200       | 1.000     | 0           | 102  | 74.8                     | 125           |             |      |          |      |
| Bromobenzene                  | 0.992           | 0.0300       | 1.000     | 0           | 99.2 | 49.2                     | 144           |             |      |          |      |
| 1,3,5-Trimethylbenzene        | 1.02            | 0.0200       | 1.000     | 0           | 102  | 74.6                     | 123           |             |      |          |      |
| 2-Chlorotoluene               | 1.03            | 0.0200       | 1.000     | 0           | 103  | 76.7                     | 129           |             |      |          |      |
| 4-Chlorotoluene               | 0.989           | 0.0200       | 1.000     | 0           | 98.9 | 77.5                     | 125           |             |      |          |      |
| tert-Butylbenzene             | 1.00            | 0.0200       | 1.000     | 0           | 100  | 66.2                     | 130           |             |      |          |      |
| 1,2,3-Trichloropropane        | 0.865           | 0.0200       | 1.000     | 0           | 86.5 | 67.9                     | 136           |             |      |          |      |
| 1,2,4-Trichlorobenzene        | 0.975           | 0.0500       | 1.000     | 0           | 97.5 | 65.6                     | 137           |             |      |          |      |
| sec-Butylbenzene              | 1.01            | 0.0200       | 1.000     | 0           | 101  | 75.6                     | 133           |             |      |          |      |
| 4-Isopropyltoluene            | 1.01            | 0.0200       | 1.000     | 0           | 101  | 76.8                     | 131           |             |      |          |      |
| 1,3-Dichlorobenzene           | 0.969           | 0.0200       | 1.000     | 0           | 96.9 | 72.8                     | 128           |             |      |          |      |
| 1,4-Dichlorobenzene           | 0.941           | 0.0200       | 1.000     | 0           | 94.1 | 72.6                     | 126           |             |      |          |      |
| n-Butylbenzene                | 0.986           | 0.0200       | 1.000     | 0           | 98.6 | 65.3                     | 136           |             |      |          |      |
| 1,2-Dichlorobenzene           | 0.900           | 0.0200       | 1.000     | 0           | 90.0 | 72.8                     | 126           |             |      |          |      |
| 1,2-Dibromo-3-chloropropane   | 0.680           | 0.500        | 1.000     | 0           | 68.0 | 61.2                     | 139           |             |      |          |      |
| 1,2,4-Trimethylbenzene        | 0.983           | 0.0200       | 1.000     | 0           | 98.3 | 77.5                     | 129           |             |      |          |      |
| Hexachlorobutadiene           | 1.13            | 0.100        | 1.000     | 0           | 113  | 42                       | 151           |             |      |          |      |
| Naphthalene                   | 0.871           | 0.0300       | 1.000     | 0           | 87.1 | 62.3                     | 134           |             |      |          |      |
| 1,2,3-Trichlorobenzene        | 0.917           | 0.0200       | 1.000     | 0           | 91.7 | 62.1                     | 140           |             |      |          |      |
| Surr: Dibromofluoromethane    | 1.25            |              | 1.250     |             | 99.6 | 63.7                     | 129           |             |      |          |      |
| Surr: Toluene-d8              | 1.25            |              | 1.250     |             | 100  | 64.3                     | 131           |             |      |          |      |
| Surr: 1-Bromo-4-fluorobenzene | 1.27            |              | 1.250     |             | 101  | 63.1                     | 141           |             |      |          |      |

**Work Order:** 1506311  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Interior

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

|                             |                        |                     |                                 |                      |      |          |           |             |      |          |      |
|-----------------------------|------------------------|---------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-11183</b> | SampType: <b>LCS</b>   | Units: <b>mg/Kg</b> | Prep Date: <b>6/29/2015</b>     | RunNo: <b>23288</b>  |      |          |           |             |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>11183</b> |                     | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441125</b> |      |          |           |             |      |          |      |
| Analyte                     | Result                 | RL                  | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

**NOTES:**

S - Outlying spike recoveries observed (Dichlorodifluoromethane; high bias). Samples are non-detect for this analyte, no further action required.

|                            |                        |                     |                                 |                      |      |          |           |             |      |          |      |
|----------------------------|------------------------|---------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-11183</b> | SampType: <b>MBLK</b>  | Units: <b>mg/Kg</b> | Prep Date: <b>6/29/2015</b>     | RunNo: <b>23288</b>  |      |          |           |             |      |          |      |
| Client ID: <b>MBLKS</b>    | Batch ID: <b>11183</b> |                     | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441126</b> |      |          |           |             |      |          |      |
| Analyte                    | Result                 | RL                  | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                                  |    |         |  |  |  |  |  |  |  |  |  |
|----------------------------------|----|---------|--|--|--|--|--|--|--|--|--|
| Dichlorodifluoromethane (CFC-12) | ND | 0.0600  |  |  |  |  |  |  |  |  |  |
| Chloromethane                    | ND | 0.0600  |  |  |  |  |  |  |  |  |  |
| Vinyl chloride                   | ND | 0.00200 |  |  |  |  |  |  |  |  |  |
| Bromomethane                     | ND | 0.0900  |  |  |  |  |  |  |  |  |  |
| Trichlorofluoromethane (CFC-11)  | ND | 0.0500  |  |  |  |  |  |  |  |  |  |
| Chloroethane                     | ND | 0.0600  |  |  |  |  |  |  |  |  |  |
| 1,1-Dichloroethene               | ND | 0.0500  |  |  |  |  |  |  |  |  |  |
| Methylene chloride               | ND | 0.0200  |  |  |  |  |  |  |  |  |  |
| trans-1,2-Dichloroethene         | ND | 0.0200  |  |  |  |  |  |  |  |  |  |
| Methyl tert-butyl ether (MTBE)   | ND | 0.0500  |  |  |  |  |  |  |  |  |  |
| 1,1-Dichloroethane               | ND | 0.0200  |  |  |  |  |  |  |  |  |  |
| 2,2-Dichloropropane              | ND | 0.0500  |  |  |  |  |  |  |  |  |  |
| cis-1,2-Dichloroethene           | ND | 0.0200  |  |  |  |  |  |  |  |  |  |
| Chloroform                       | ND | 0.0200  |  |  |  |  |  |  |  |  |  |
| 1,1,1-Trichloroethane (TCA)      | ND | 0.0200  |  |  |  |  |  |  |  |  |  |
| 1,1-Dichloropropene              | ND | 0.0200  |  |  |  |  |  |  |  |  |  |
| Carbon tetrachloride             | ND | 0.0200  |  |  |  |  |  |  |  |  |  |
| 1,2-Dichloroethane (EDC)         | ND | 0.0300  |  |  |  |  |  |  |  |  |  |
| Benzene                          | ND | 0.0200  |  |  |  |  |  |  |  |  |  |
| Trichloroethene (TCE)            | ND | 0.0200  |  |  |  |  |  |  |  |  |  |
| 1,2-Dichloropropane              | ND | 0.0200  |  |  |  |  |  |  |  |  |  |
| Bromodichloromethane             | ND | 0.0200  |  |  |  |  |  |  |  |  |  |
| Dibromomethane                   | ND | 0.0400  |  |  |  |  |  |  |  |  |  |
| cis-1,3-Dichloropropene          | ND | 0.0200  |  |  |  |  |  |  |  |  |  |
| Toluene                          | ND | 0.0200  |  |  |  |  |  |  |  |  |  |



**Work Order:** 1506311  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Interior

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

|                            |                        |                     |                                 |                      |
|----------------------------|------------------------|---------------------|---------------------------------|----------------------|
| Sample ID: <b>MB-11183</b> | SampType: <b>MBLK</b>  | Units: <b>mg/Kg</b> | Prep Date: <b>6/29/2015</b>     | RunNo: <b>23288</b>  |
| Client ID: <b>MBLKS</b>    | Batch ID: <b>11183</b> |                     | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441126</b> |

| Analyte                     | Result | RL      | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------------|--------|---------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| trans-1,3-Dichloropropylene | ND     | 0.0300  |           |             |      |          |           |             |      |          |      |
| 1,1,2-Trichloroethane       | ND     | 0.0300  |           |             |      |          |           |             |      |          |      |
| 1,3-Dichloropropane         | ND     | 0.0500  |           |             |      |          |           |             |      |          |      |
| Tetrachloroethene (PCE)     | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| Dibromochloromethane        | ND     | 0.0300  |           |             |      |          |           |             |      |          |      |
| 1,2-Dibromoethane (EDB)     | ND     | 0.00500 |           |             |      |          |           |             |      |          |      |
| Chlorobenzene               | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.0300  |           |             |      |          |           |             |      |          |      |
| Ethylbenzene                | ND     | 0.0300  |           |             |      |          |           |             |      |          |      |
| m,p-Xylene                  | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| o-Xylene                    | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| Styrene                     | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| Isopropylbenzene            | ND     | 0.0800  |           |             |      |          |           |             |      |          |      |
| Bromoform                   | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| n-Propylbenzene             | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| Bromobenzene                | ND     | 0.0300  |           |             |      |          |           |             |      |          |      |
| 1,3,5-Trimethylbenzene      | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 2-Chlorotoluene             | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 4-Chlorotoluene             | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| tert-Butylbenzene           | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 1,2,3-Trichloropropane      | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 1,2,4-Trichlorobenzene      | ND     | 0.0500  |           |             |      |          |           |             |      |          |      |
| sec-Butylbenzene            | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 4-Isopropyltoluene          | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 1,3-Dichlorobenzene         | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 1,4-Dichlorobenzene         | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| n-Butylbenzene              | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 1,2-Dichlorobenzene         | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 1,2-Dibromo-3-chloropropane | ND     | 0.500   |           |             |      |          |           |             |      |          |      |
| 1,2,4-Trimethylbenzene      | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |



Date: 9/8/2015

**Work Order:** 1506311  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Interior

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID: <b>MB-11183</b> | SampType: <b>MBLK</b>  | Units: <b>mg/Kg</b> | Prep Date: <b>6/29/2015</b>     | RunNo: <b>23288</b>  |      |          |           |             |      |          |      |
|----------------------------|------------------------|---------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>MBLKS</b>    | Batch ID: <b>11183</b> |                     | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441126</b> |      |          |           |             |      |          |      |
| Analyte                    | Result                 | RL                  | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                               |      |        |       |  |      |      |     |  |  |  |  |
|-------------------------------|------|--------|-------|--|------|------|-----|--|--|--|--|
| Hexachlorobutadiene           | ND   | 0.100  |       |  |      |      |     |  |  |  |  |
| Naphthalene                   | ND   | 0.0300 |       |  |      |      |     |  |  |  |  |
| 1,2,3-Trichlorobenzene        | ND   | 0.0200 |       |  |      |      |     |  |  |  |  |
| Surr: Dibromofluoromethane    | 1.29 |        | 1.250 |  | 103  | 63.7 | 129 |  |  |  |  |
| Surr: Toluene-d8              | 1.33 |        | 1.250 |  | 106  | 64.3 | 131 |  |  |  |  |
| Surr: 1-Bromo-4-fluorobenzene | 1.23 |        | 1.250 |  | 98.1 | 63.1 | 141 |  |  |  |  |

| Sample ID: <b>1506313-001BDUP</b> | SampType: <b>DUP</b>   | Units: <b>mg/Kg-dry</b> | Prep Date: <b>6/29/2015</b>     | RunNo: <b>23288</b>  |      |          |           |             |      |          |      |
|-----------------------------------|------------------------|-------------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>BATCH</b>           | Batch ID: <b>11183</b> |                         | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441120</b> |      |          |           |             |      |          |      |
| Analyte                           | Result                 | RL                      | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                                  |    |         |  |  |  |  |  |   |  |    |  |
|----------------------------------|----|---------|--|--|--|--|--|---|--|----|--|
| Dichlorodifluoromethane (CFC-12) | ND | 0.0653  |  |  |  |  |  | 0 |  | 30 |  |
| Chloromethane                    | ND | 0.0653  |  |  |  |  |  | 0 |  | 30 |  |
| Vinyl chloride                   | ND | 0.00218 |  |  |  |  |  | 0 |  | 30 |  |
| Bromomethane                     | ND | 0.0979  |  |  |  |  |  | 0 |  | 30 |  |
| Trichlorofluoromethane (CFC-11)  | ND | 0.0544  |  |  |  |  |  | 0 |  | 30 |  |
| Chloroethane                     | ND | 0.0653  |  |  |  |  |  | 0 |  | 30 |  |
| 1,1-Dichloroethene               | ND | 0.0544  |  |  |  |  |  | 0 |  | 30 |  |
| Methylene chloride               | ND | 0.0218  |  |  |  |  |  | 0 |  | 30 |  |
| trans-1,2-Dichloroethene         | ND | 0.0218  |  |  |  |  |  | 0 |  | 30 |  |
| Methyl tert-butyl ether (MTBE)   | ND | 0.0544  |  |  |  |  |  | 0 |  | 30 |  |
| 1,1-Dichloroethane               | ND | 0.0218  |  |  |  |  |  | 0 |  | 30 |  |
| 2,2-Dichloropropane              | ND | 0.0544  |  |  |  |  |  | 0 |  | 30 |  |
| cis-1,2-Dichloroethene           | ND | 0.0218  |  |  |  |  |  | 0 |  | 30 |  |
| Chloroform                       | ND | 0.0218  |  |  |  |  |  | 0 |  | 30 |  |
| 1,1,1-Trichloroethane (TCA)      | ND | 0.0218  |  |  |  |  |  | 0 |  | 30 |  |
| 1,1-Dichloropropene              | ND | 0.0218  |  |  |  |  |  | 0 |  | 30 |  |
| Carbon tetrachloride             | ND | 0.0218  |  |  |  |  |  | 0 |  | 30 |  |
| 1,2-Dichloroethane (EDC)         | ND | 0.0326  |  |  |  |  |  | 0 |  | 30 |  |
| Benzene                          | ND | 0.0218  |  |  |  |  |  | 0 |  | 30 |  |
| Trichloroethene (TCE)            | ND | 0.0218  |  |  |  |  |  | 0 |  | 30 |  |



Date: 9/8/2015

Work Order: 1506311  
 CLIENT: PES Environmental, Inc.  
 Project: Bethel Interior

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID: <b>1506313-001BDUP</b> | SampType: <b>DUP</b>   | Units: <b>mg/Kg-dry</b> | Prep Date: <b>6/29/2015</b>     | RunNo: <b>23288</b>  |      |          |           |             |      |          |      |
|-----------------------------------|------------------------|-------------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>BATCH</b>           | Batch ID: <b>11183</b> |                         | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441120</b> |      |          |           |             |      |          |      |
| Analyte                           | Result                 | RL                      | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                             |        |         |  |  |  |  |  |         |      |    |  |
|-----------------------------|--------|---------|--|--|--|--|--|---------|------|----|--|
| 1,2-Dichloropropane         | ND     | 0.0218  |  |  |  |  |  | 0       |      | 30 |  |
| Bromodichloromethane        | ND     | 0.0218  |  |  |  |  |  | 0       |      | 30 |  |
| Dibromomethane              | ND     | 0.0435  |  |  |  |  |  | 0       |      | 30 |  |
| cis-1,3-Dichloropropene     | ND     | 0.0218  |  |  |  |  |  | 0       |      | 30 |  |
| Toluene                     | ND     | 0.0218  |  |  |  |  |  | 0       |      | 30 |  |
| trans-1,3-Dichloropropylene | ND     | 0.0326  |  |  |  |  |  | 0       |      | 30 |  |
| 1,1,2-Trichloroethane       | ND     | 0.0326  |  |  |  |  |  | 0       |      | 30 |  |
| 1,3-Dichloropropane         | ND     | 0.0544  |  |  |  |  |  | 0       |      | 30 |  |
| Tetrachloroethene (PCE)     | ND     | 0.0218  |  |  |  |  |  | 0       |      | 30 |  |
| Dibromochloromethane        | ND     | 0.0326  |  |  |  |  |  | 0       |      | 30 |  |
| 1,2-Dibromoethane (EDB)     | ND     | 0.00544 |  |  |  |  |  | 0       |      | 30 |  |
| Chlorobenzene               | ND     | 0.0218  |  |  |  |  |  | 0       |      | 30 |  |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.0326  |  |  |  |  |  | 0       |      | 30 |  |
| Ethylbenzene                | ND     | 0.0326  |  |  |  |  |  | 0       |      | 30 |  |
| m,p-Xylene                  | ND     | 0.0218  |  |  |  |  |  | 0       |      | 30 |  |
| o-Xylene                    | ND     | 0.0218  |  |  |  |  |  | 0       |      | 30 |  |
| Styrene                     | ND     | 0.0218  |  |  |  |  |  | 0       |      | 30 |  |
| Isopropylbenzene            | ND     | 0.0870  |  |  |  |  |  | 0       |      | 30 |  |
| Bromoform                   | ND     | 0.0218  |  |  |  |  |  | 0       |      | 30 |  |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.0218  |  |  |  |  |  | 0       |      | 30 |  |
| n-Propylbenzene             | 0.0531 | 0.0218  |  |  |  |  |  | 0.05083 | 4.34 | 30 |  |
| Bromobenzene                | ND     | 0.0326  |  |  |  |  |  | 0       |      | 30 |  |
| 1,3,5-Trimethylbenzene      | ND     | 0.0218  |  |  |  |  |  | 0       |      | 30 |  |
| 2-Chlorotoluene             | ND     | 0.0218  |  |  |  |  |  | 0       |      | 30 |  |
| 4-Chlorotoluene             | ND     | 0.0218  |  |  |  |  |  | 0       |      | 30 |  |
| tert-Butylbenzene           | ND     | 0.0218  |  |  |  |  |  | 0       |      | 30 |  |
| 1,2,3-Trichloropropane      | ND     | 0.0218  |  |  |  |  |  | 0       |      | 30 |  |
| 1,2,4-Trichlorobenzene      | ND     | 0.0544  |  |  |  |  |  | 0       |      | 30 |  |
| sec-Butylbenzene            | ND     | 0.0218  |  |  |  |  |  | 0       |      | 30 |  |
| 4-Isopropyltoluene          | ND     | 0.0218  |  |  |  |  |  | 0       |      | 30 |  |
| 1,3-Dichlorobenzene         | ND     | 0.0218  |  |  |  |  |  | 0       |      | 30 |  |

**Work Order:** 1506311  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Interior

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID: <b>1506313-001BDUP</b> | SampType: <b>DUP</b>   | Units: <b>mg/Kg-dry</b> | Prep Date: <b>6/29/2015</b>     | RunNo: <b>23288</b>  |      |          |           |             |      |          |      |
|-----------------------------------|------------------------|-------------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>BATCH</b>           | Batch ID: <b>11183</b> |                         | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441120</b> |      |          |           |             |      |          |      |
| Analyte                           | Result                 | RL                      | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,4-Dichlorobenzene               | ND                     | 0.0218                  |                                 |                      |      |          |           | 0           |      | 30       |      |
| n-Butylbenzene                    | 0.0779                 | 0.0218                  |                                 |                      |      |          |           | 0.07932     | 1.86 | 30       |      |
| 1,2-Dichlorobenzene               | ND                     | 0.0218                  |                                 |                      |      |          |           | 0           |      | 30       |      |
| 1,2-Dibromo-3-chloropropane       | ND                     | 0.544                   |                                 |                      |      |          |           | 0           |      | 30       |      |
| 1,2,4-Trimethylbenzene            | ND                     | 0.0218                  |                                 |                      |      |          |           | 0           |      | 30       |      |
| Hexachlorobutadiene               | ND                     | 0.109                   |                                 |                      |      |          |           | 0           |      | 30       |      |
| Naphthalene                       | ND                     | 0.0326                  |                                 |                      |      |          |           | 0           |      | 30       |      |
| 1,2,3-Trichlorobenzene            | ND                     | 0.0218                  |                                 |                      |      |          |           | 0           |      | 30       |      |
| Surr: Dibromofluoromethane        | 1.28                   |                         | 1.360                           |                      | 94.3 | 63.7     | 129       |             | 0    |          |      |
| Surr: Toluene-d8                  | 1.39                   |                         | 1.360                           |                      | 102  | 64.3     | 131       |             | 0    |          |      |
| Surr: 1-Bromo-4-fluorobenzene     | 1.40                   |                         | 1.360                           |                      | 103  | 63.1     | 141       |             | 0    |          |      |

| Sample ID: <b>1506313-002BMS</b> | SampType: <b>MS</b>    | Units: <b>mg/Kg-dry</b> | Prep Date: <b>6/29/2015</b>     | RunNo: <b>23288</b>  |      |          |           |             |      |          |      |
|----------------------------------|------------------------|-------------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>BATCH</b>          | Batch ID: <b>11183</b> |                         | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441122</b> |      |          |           |             |      |          |      |
| Analyte                          | Result                 | RL                      | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Dichlorodifluoromethane (CFC-12) | 2.67                   | 0.0882                  | 1.471                           | 0                    | 182  | 43.5     | 121       |             |      |          | S    |
| Chloromethane                    | 2.06                   | 0.0882                  | 1.471                           | 0.02047              | 139  | 45       | 130       |             |      |          | S    |
| Vinyl chloride                   | 1.95                   | 0.00294                 | 1.471                           | 0.003831             | 132  | 51.2     | 146       |             |      |          | S    |
| Bromomethane                     | 2.01                   | 0.132                   | 1.471                           | 0                    | 137  | 21.3     | 120       |             |      |          | S    |
| Trichlorofluoromethane (CFC-11)  | 1.65                   | 0.0735                  | 1.471                           | 0                    | 112  | 35       | 131       |             |      |          | S    |
| Chloroethane                     | 1.99                   | 0.0882                  | 1.471                           | 0.01873              | 134  | 43.8     | 117       |             |      |          | S    |
| 1,1-Dichloroethene               | 1.86                   | 0.0735                  | 1.471                           | 0                    | 127  | 61.9     | 141       |             |      |          | S    |
| Methylene chloride               | 1.91                   | 0.0294                  | 1.471                           | 0                    | 130  | 54.7     | 142       |             |      |          | S    |
| trans-1,2-Dichloroethene         | 1.82                   | 0.0294                  | 1.471                           | 0                    | 124  | 52       | 136       |             |      |          | S    |
| Methyl tert-butyl ether (MTBE)   | 1.80                   | 0.0735                  | 1.471                           | 0                    | 123  | 54.4     | 132       |             |      |          | S    |
| 1,1-Dichloroethane               | 1.73                   | 0.0294                  | 1.471                           | 0                    | 117  | 51.8     | 141       |             |      |          | S    |
| 2,2-Dichloropropane              | 1.63                   | 0.0735                  | 1.471                           | 0                    | 111  | 36       | 123       |             |      |          | S    |
| cis-1,2-Dichloroethene           | 1.62                   | 0.0294                  | 1.471                           | 0                    | 110  | 58.6     | 136       |             |      |          | S    |
| Chloroform                       | 1.65                   | 0.0294                  | 1.471                           | 0                    | 112  | 53.2     | 129       |             |      |          | S    |
| 1,1,1-Trichloroethane (TCA)      | 1.60                   | 0.0294                  | 1.471                           | 0                    | 109  | 58.3     | 145       |             |      |          | S    |

Work Order: 1506311  
 CLIENT: PES Environmental, Inc.  
 Project: Bethel Interior

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID: <b>1506313-002BMS</b> | SampType: <b>MS</b>    | Units: <b>mg/Kg-dry</b> | Prep Date: <b>6/29/2015</b>     | RunNo: <b>23288</b>  |      |          |           |             |      |          |      |
|----------------------------------|------------------------|-------------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>BATCH</b>          | Batch ID: <b>11183</b> |                         | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441122</b> |      |          |           |             |      |          |      |
| Analyte                          | Result                 | RL                      | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                             |      |         |       |          |      |      |     |  |  |  |   |
|-----------------------------|------|---------|-------|----------|------|------|-----|--|--|--|---|
| 1,1-Dichloropropene         | 1.64 | 0.0294  | 1.471 | 0        | 112  | 55.1 | 138 |  |  |  |   |
| Carbon tetrachloride        | 1.70 | 0.0294  | 1.471 | 0        | 116  | 53.3 | 144 |  |  |  |   |
| 1,2-Dichloroethane (EDC)    | 1.73 | 0.0441  | 1.471 | 0.004854 | 117  | 51.3 | 139 |  |  |  |   |
| Benzene                     | 1.75 | 0.0294  | 1.471 | 0        | 119  | 63.5 | 133 |  |  |  |   |
| Trichloroethene (TCE)       | 1.66 | 0.0294  | 1.471 | 0        | 113  | 68.6 | 132 |  |  |  |   |
| 1,2-Dichloropropane         | 1.64 | 0.0294  | 1.471 | 0        | 111  | 59   | 136 |  |  |  |   |
| Bromodichloromethane        | 1.42 | 0.0294  | 1.471 | 0        | 96.8 | 50.7 | 141 |  |  |  |   |
| Dibromomethane              | 1.70 | 0.0588  | 1.471 | 0        | 115  | 50.6 | 137 |  |  |  |   |
| cis-1,3-Dichloropropene     | 1.66 | 0.0294  | 1.471 | 0        | 113  | 50.4 | 138 |  |  |  |   |
| Toluene                     | 1.50 | 0.0294  | 1.471 | 0        | 102  | 63.4 | 132 |  |  |  |   |
| trans-1,3-Dichloropropylene | 1.60 | 0.0441  | 1.471 | 0        | 109  | 44.1 | 147 |  |  |  |   |
| 1,1,2-Trichloroethane       | 1.74 | 0.0441  | 1.471 | 0        | 118  | 51.6 | 137 |  |  |  |   |
| 1,3-Dichloropropane         | 1.70 | 0.0735  | 1.471 | 0        | 116  | 53.1 | 134 |  |  |  |   |
| Tetrachloroethene (PCE)     | 1.60 | 0.0294  | 1.471 | 0        | 109  | 35.6 | 158 |  |  |  |   |
| Dibromochloromethane        | 1.44 | 0.0441  | 1.471 | 0        | 98.0 | 55.3 | 140 |  |  |  |   |
| 1,2-Dibromoethane (EDB)     | 1.88 | 0.00735 | 1.471 | 0        | 128  | 50.4 | 136 |  |  |  |   |
| Chlorobenzene               | 1.57 | 0.0294  | 1.471 | 0        | 107  | 60   | 133 |  |  |  |   |
| 1,1,1,2-Tetrachloroethane   | 1.66 | 0.0441  | 1.471 | 0        | 113  | 53.1 | 142 |  |  |  |   |
| Ethylbenzene                | 1.56 | 0.0441  | 1.471 | 0        | 106  | 54.5 | 134 |  |  |  |   |
| m,p-Xylene                  | 2.99 | 0.0294  | 2.942 | 0        | 101  | 53.1 | 132 |  |  |  |   |
| o-Xylene                    | 1.49 | 0.0294  | 1.471 | 0        | 101  | 53.3 | 139 |  |  |  |   |
| Styrene                     | 1.57 | 0.0294  | 1.471 | 0        | 107  | 51.1 | 132 |  |  |  |   |
| Isopropylbenzene            | 1.57 | 0.118   | 1.471 | 0        | 107  | 58.9 | 138 |  |  |  |   |
| Bromoform                   | 1.44 | 0.0294  | 1.471 | 0        | 98.2 | 57.9 | 130 |  |  |  |   |
| 1,1,1,2,2-Tetrachloroethane | 2.21 | 0.0294  | 1.471 | 0.005648 | 150  | 51.9 | 131 |  |  |  | S |
| n-Propylbenzene             | 1.66 | 0.0294  | 1.471 | 0        | 113  | 53.6 | 140 |  |  |  |   |
| Bromobenzene                | 1.67 | 0.0441  | 1.471 | 0        | 114  | 54.2 | 140 |  |  |  |   |
| 1,3,5-Trimethylbenzene      | 1.68 | 0.0294  | 1.471 | 0        | 114  | 51.8 | 136 |  |  |  |   |
| 2-Chlorotoluene             | 1.73 | 0.0294  | 1.471 | 0        | 118  | 51.6 | 136 |  |  |  |   |
| 4-Chlorotoluene             | 1.72 | 0.0294  | 1.471 | 0        | 117  | 50.1 | 139 |  |  |  |   |
| tert-Butylbenzene           | 1.65 | 0.0294  | 1.471 | 0        | 112  | 50.5 | 135 |  |  |  |   |

**Work Order:** 1506311  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Interior

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

|                                  |                        |                         |                                 |                      |
|----------------------------------|------------------------|-------------------------|---------------------------------|----------------------|
| Sample ID: <b>1506313-002BMS</b> | SampType: <b>MS</b>    | Units: <b>mg/Kg-dry</b> | Prep Date: <b>6/29/2015</b>     | RunNo: <b>23288</b>  |
| Client ID: <b>BATCH</b>          | Batch ID: <b>11183</b> |                         | Analysis Date: <b>6/29/2015</b> | SeqNo: <b>441122</b> |

| Analyte                       | Result | RL     | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------------------|--------|--------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| 1,2,3-Trichloropropane        | 1.91   | 0.0294 | 1.471     | 0           | 130  | 50.5     | 131       |             |      |          |      |
| 1,2,4-Trichlorobenzene        | 1.58   | 0.0735 | 1.471     | 0.004618    | 107  | 50.8     | 130       |             |      |          |      |
| sec-Butylbenzene              | 1.68   | 0.0294 | 1.471     | 0           | 114  | 52.6     | 141       |             |      |          |      |
| 4-Isopropyltoluene            | 1.70   | 0.0294 | 1.471     | 0           | 115  | 52.9     | 134       |             |      |          |      |
| 1,3-Dichlorobenzene           | 1.48   | 0.0294 | 1.471     | 0           | 100  | 52.6     | 131       |             |      |          |      |
| 1,4-Dichlorobenzene           | 1.49   | 0.0294 | 1.471     | 0           | 101  | 52.9     | 129       |             |      |          |      |
| n-Butylbenzene                | 1.53   | 0.0294 | 1.471     | 0           | 104  | 52.6     | 130       |             |      |          |      |
| 1,2-Dichlorobenzene           | 1.50   | 0.0294 | 1.471     | 0           | 102  | 55.8     | 129       |             |      |          |      |
| 1,2-Dibromo-3-chloropropane   | 1.50   | 0.735  | 1.471     | 0           | 102  | 40.5     | 131       |             |      |          |      |
| 1,2,4-Trimethylbenzene        | 1.66   | 0.0294 | 1.471     | 0.002265    | 113  | 50.6     | 137       |             |      |          |      |
| Hexachlorobutadiene           | 1.67   | 0.147  | 1.471     | 0           | 114  | 40.6     | 158       |             |      |          |      |
| Naphthalene                   | 1.81   | 0.0441 | 1.471     | 0.003751    | 123  | 52.3     | 124       |             |      |          |      |
| 1,2,3-Trichlorobenzene        | 1.69   | 0.0294 | 1.471     | 0.006016    | 114  | 54.4     | 124       |             |      |          |      |
| Surr: Dibromofluoromethane    | 1.96   |        | 1.838     |             | 107  | 63.7     | 129       |             |      |          |      |
| Surr: Toluene-d8              | 1.85   |        | 1.838     |             | 101  | 64.3     | 131       |             |      |          |      |
| Surr: 1-Bromo-4-fluorobenzene | 1.92   |        | 1.838     |             | 104  | 63.1     | 141       |             |      |          |      |

**NOTES:**

S - Outlying QC recoveries were associated with this sample. The method is in control as indicated by the LCS.

**Work Order:** 1506311  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Interior

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID: <b>CCV-A-R23397</b> |        | SampType: <b>CCV</b>    |           | Units: <b>µg/L</b> |      | Prep Date: <b>7/7/2015</b>     |           | RunNo: <b>23397</b>  |      |          |      |
|--------------------------------|--------|-------------------------|-----------|--------------------|------|--------------------------------|-----------|----------------------|------|----------|------|
| Client ID: <b>CCV</b>          |        | Batch ID: <b>R23397</b> |           |                    |      | Analysis Date: <b>7/7/2015</b> |           | SeqNo: <b>443201</b> |      |          |      |
| Analyte                        | Result | RL                      | SPK value | SPK Ref Val        | %REC | LowLimit                       | HighLimit | RPD Ref Val          | %RPD | RPDLimit | Qual |
| 1,1,1-Trichloroethane (TCA)    | 20.5   | 1.00                    | 20.00     | 0                  | 103  | 80                             | 120       |                      |      |          |      |
| Dibromomethane                 | 16.7   | 1.00                    | 20.00     | 0                  | 83.3 | 80                             | 120       |                      |      |          |      |
| Surr: Dibromofluoromethane     | 24.4   |                         | 25.00     |                    | 97.7 | 72.1                           | 122       |                      |      |          |      |
| Surr: Toluene-d8               | 22.5   |                         | 25.00     |                    | 89.9 | 62.1                           | 129       |                      |      |          |      |
| Surr: 1-Bromo-4-fluorobenzene  | 25.2   |                         | 25.00     |                    | 101  | 63.3                           | 132       |                      |      |          |      |

| Sample ID: <b>LCS-R23397</b>     |        | SampType: <b>LCS</b>    |           | Units: <b>µg/L</b> |      | Prep Date: <b>7/7/2015</b>     |           | RunNo: <b>23397</b>  |      |          |      |
|----------------------------------|--------|-------------------------|-----------|--------------------|------|--------------------------------|-----------|----------------------|------|----------|------|
| Client ID: <b>LCSW</b>           |        | Batch ID: <b>R23397</b> |           |                    |      | Analysis Date: <b>7/7/2015</b> |           | SeqNo: <b>443204</b> |      |          |      |
| Analyte                          | Result | RL                      | SPK value | SPK Ref Val        | %REC | LowLimit                       | HighLimit | RPD Ref Val          | %RPD | RPDLimit | Qual |
| Dichlorodifluoromethane (CFC-12) | 16.3   | 1.00                    | 20.00     | 0                  | 81.7 | 43                             | 136       |                      |      |          |      |
| Chloromethane                    | 18.5   | 1.00                    | 20.00     | 0                  | 92.6 | 43.9                           | 139       |                      |      |          |      |
| Vinyl chloride                   | 17.9   | 0.200                   | 20.00     | 0                  | 89.4 | 53.6                           | 139       |                      |      |          |      |
| Bromomethane                     | 16.8   | 1.00                    | 20.00     | 0                  | 84.1 | 42.5                           | 152       |                      |      |          |      |
| Trichlorofluoromethane (CFC-11)  | 18.3   | 1.00                    | 20.00     | 0                  | 91.7 | 63.7                           | 133       |                      |      |          |      |
| Chloroethane                     | 17.2   | 1.00                    | 20.00     | 0                  | 85.8 | 53                             | 141       |                      |      |          |      |
| 1,1-Dichloroethene               | 18.1   | 1.00                    | 20.00     | 0                  | 90.5 | 65.6                           | 136       |                      |      |          |      |
| Methylene chloride               | 16.0   | 1.00                    | 20.00     | 0                  | 80.1 | 67.1                           | 131       |                      |      |          |      |
| trans-1,2-Dichloroethene         | 17.3   | 1.00                    | 20.00     | 0                  | 86.7 | 71.7                           | 129       |                      |      |          |      |
| Methyl tert-butyl ether (MTBE)   | 15.6   | 1.00                    | 20.00     | 0                  | 78.0 | 67.7                           | 131       |                      |      |          |      |
| 1,1-Dichloroethane               | 16.4   | 1.00                    | 20.00     | 0                  | 81.8 | 67.9                           | 134       |                      |      |          |      |
| 2,2-Dichloropropane              | 14.8   | 2.00                    | 20.00     | 0                  | 74.0 | 33.7                           | 152       |                      |      |          |      |
| cis-1,2-Dichloroethene           | 17.2   | 1.00                    | 20.00     | 0                  | 86.1 | 71.1                           | 130       |                      |      |          |      |
| Chloroform                       | 16.6   | 1.00                    | 20.00     | 0                  | 83.1 | 66.3                           | 131       |                      |      |          |      |
| 1,1,1-Trichloroethane (TCA)      | 26.8   | 1.00                    | 20.00     | 0                  | 134  | 71                             | 131       |                      |      |          | S    |
| 1,1-Dichloropropene              | 17.6   | 1.00                    | 20.00     | 0                  | 88.0 | 74.5                           | 126       |                      |      |          |      |
| Carbon tetrachloride             | 17.5   | 1.00                    | 20.00     | 0                  | 87.5 | 66.2                           | 134       |                      |      |          |      |
| 1,2-Dichloroethane (EDC)         | 14.9   | 1.00                    | 20.00     | 0                  | 74.3 | 70                             | 129       |                      |      |          |      |
| Benzene                          | 16.1   | 1.00                    | 20.00     | 0                  | 80.4 | 69.3                           | 132       |                      |      |          |      |
| Trichloroethene (TCE)            | 16.6   | 0.500                   | 20.00     | 0                  | 82.9 | 65.2                           | 136       |                      |      |          |      |
| 1,2-Dichloropropane              | 16.8   | 1.00                    | 20.00     | 0                  | 84.1 | 70.5                           | 130       |                      |      |          |      |

**Work Order:** 1506311  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Interior

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID: <b>LCS-R23397</b> | SampType: <b>LCS</b>    | Units: <b>µg/L</b> |           |             |      | Prep Date: <b>7/7/2015</b>     | RunNo: <b>23397</b>  |             |      |          |      |
|------------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|----------------------|-------------|------|----------|------|
| Client ID: <b>LCSW</b>       | Batch ID: <b>R23397</b> |                    |           |             |      | Analysis Date: <b>7/7/2015</b> | SeqNo: <b>443204</b> |             |      |          |      |
| Analyte                      | Result                  | RL                 | SPK value | SPK Ref Val | %REC | LowLimit                       | HighLimit            | RPD Ref Val | %RPD | RPDLimit | Qual |
| Bromodichloromethane         | 20.7                    | 1.00               | 20.00     | 0           | 103  | 67.2                           | 137                  |             |      |          |      |
| Dibromomethane               | 14.6                    | 1.00               | 20.00     | 0           | 73.1 | 75.5                           | 126                  |             |      |          | S    |
| cis-1,3-Dichloropropene      | 17.9                    | 1.00               | 20.00     | 0           | 89.3 | 62.6                           | 137                  |             |      |          |      |
| Toluene                      | 16.5                    | 1.00               | 20.00     | 0           | 82.3 | 61.3                           | 145                  |             |      |          |      |
| trans-1,3-Dichloropropene    | 16.6                    | 1.00               | 20.00     | 0           | 82.9 | 58.5                           | 142                  |             |      |          |      |
| 1,1,2-Trichloroethane        | 15.4                    | 1.00               | 20.00     | 0           | 77.1 | 71.7                           | 131                  |             |      |          |      |
| 1,3-Dichloropropane          | 16.6                    | 1.00               | 20.00     | 0           | 83.1 | 73.5                           | 127                  |             |      |          |      |
| Tetrachloroethene (PCE)      | 17.1                    | 1.00               | 20.00     | 0           | 85.3 | 47.5                           | 147                  |             |      |          |      |
| Dibromochloromethane         | 16.6                    | 1.00               | 20.00     | 0           | 82.9 | 67.2                           | 134                  |             |      |          |      |
| 1,2-Dibromoethane (EDB)      | 16.4                    | 0.0600             | 20.00     | 0           | 81.8 | 73.6                           | 125                  |             |      |          |      |
| Chlorobenzene                | 21.0                    | 1.00               | 20.00     | 0           | 105  | 73.9                           | 126                  |             |      |          |      |
| 1,1,1,2-Tetrachloroethane    | 19.5                    | 1.00               | 20.00     | 0           | 97.5 | 76.8                           | 124                  |             |      |          |      |
| Ethylbenzene                 | 21.1                    | 1.00               | 20.00     | 0           | 105  | 72                             | 130                  |             |      |          |      |
| m,p-Xylene                   | 42.7                    | 1.00               | 40.00     | 0           | 107  | 70.3                           | 134                  |             |      |          |      |
| o-Xylene                     | 20.6                    | 1.00               | 20.00     | 0           | 103  | 72.1                           | 131                  |             |      |          |      |
| Styrene                      | 21.5                    | 1.00               | 20.00     | 0           | 108  | 64.3                           | 140                  |             |      |          |      |
| Isopropylbenzene             | 22.2                    | 1.00               | 20.00     | 0           | 111  | 73.9                           | 128                  |             |      |          |      |
| Bromoform                    | 17.9                    | 1.00               | 20.00     | 0           | 89.3 | 63.8                           | 135                  |             |      |          |      |
| 1,1,1,2-Tetrachloroethane    | 19.1                    | 1.00               | 20.00     | 0           | 95.5 | 62.9                           | 132                  |             |      |          |      |
| n-Propylbenzene              | 21.2                    | 1.00               | 20.00     | 0           | 106  | 74.5                           | 127                  |             |      |          |      |
| Bromobenzene                 | 20.3                    | 1.00               | 20.00     | 0           | 102  | 71                             | 131                  |             |      |          |      |
| 1,3,5-Trimethylbenzene       | 21.2                    | 1.00               | 20.00     | 0           | 106  | 73.1                           | 128                  |             |      |          |      |
| 2-Chlorotoluene              | 21.1                    | 1.00               | 20.00     | 0           | 105  | 70.8                           | 130                  |             |      |          |      |
| 4-Chlorotoluene              | 21.0                    | 1.00               | 20.00     | 0           | 105  | 70.1                           | 131                  |             |      |          |      |
| tert-Butylbenzene            | 24.0                    | 1.00               | 20.00     | 0           | 120  | 68.2                           | 131                  |             |      |          |      |
| 1,2,3-Trichloropropane       | 18.4                    | 1.00               | 20.00     | 0           | 92.1 | 67.7                           | 131                  |             |      |          |      |
| 1,2,4-Trichlorobenzene       | 19.7                    | 2.00               | 20.00     | 0           | 98.3 | 67.6                           | 129                  |             |      |          |      |
| sec-Butylbenzene             | 21.6                    | 1.00               | 20.00     | 0           | 108  | 72                             | 129                  |             |      |          |      |
| 4-Isopropyltoluene           | 21.6                    | 1.00               | 20.00     | 0           | 108  | 69.2                           | 130                  |             |      |          |      |
| 1,3-Dichlorobenzene          | 20.3                    | 1.00               | 20.00     | 0           | 101  | 72.4                           | 129                  |             |      |          |      |
| 1,4-Dichlorobenzene          | 19.5                    | 1.00               | 20.00     | 0           | 97.7 | 70.6                           | 128                  |             |      |          |      |



Work Order: 1506311  
 CLIENT: PES Environmental, Inc.  
 Project: Bethel Interior

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID: <b>LCS-R23397</b>  | SampType: <b>LCS</b>    | Units: <b>µg/L</b> | Prep Date: <b>7/7/2015</b>     | RunNo: <b>23397</b>  |      |          |           |             |      |          |      |
|-------------------------------|-------------------------|--------------------|--------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>LCSW</b>        | Batch ID: <b>R23397</b> |                    | Analysis Date: <b>7/7/2015</b> | SeqNo: <b>443204</b> |      |          |           |             |      |          |      |
| Analyte                       | Result                  | RL                 | SPK value                      | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| n-Butylbenzene                | 20.8                    | 1.00               | 20.00                          | 0                    | 104  | 73.8     | 127       |             |      |          |      |
| 1,2-Dichlorobenzene           | 19.6                    | 1.00               | 20.00                          | 0                    | 98.2 | 74.2     | 129       |             |      |          |      |
| 1,2-Dibromo-3-chloropropane   | 15.7                    | 1.00               | 20.00                          | 0                    | 78.4 | 63.1     | 136       |             |      |          |      |
| 1,2,4-Trimethylbenzene        | 21.5                    | 1.00               | 20.00                          | 0                    | 107  | 73.4     | 127       |             |      |          |      |
| Hexachlorobutadiene           | 20.8                    | 4.00               | 20.00                          | 0                    | 104  | 58.6     | 138       |             |      |          |      |
| Naphthalene                   | 17.1                    | 1.00               | 20.00                          | 0                    | 85.3 | 45.2     | 144       |             |      |          |      |
| 1,2,3-Trichlorobenzene        | 17.5                    | 4.00               | 20.00                          | 0                    | 87.6 | 50.2     | 139       |             |      |          |      |
| Surr: Dibromofluoromethane    | 29.4                    |                    | 25.00                          |                      | 118  | 77.4     | 147       |             |      |          |      |
| Surr: Toluene-d8              | 19.5                    |                    | 25.00                          |                      | 78.0 | 40.1     | 139       |             |      |          |      |
| Surr: 1-Bromo-4-fluorobenzene | 25.0                    |                    | 25.00                          |                      | 100  | 64.2     | 128       |             |      |          |      |

**NOTES:**

S - Outlying spike recoveries observed for 1,1,1-Trichloroethane (high bias) and Dibromomethane (low bias). Adequate sensitivity for these analytes is demonstrated by the same source CCV.

| Sample ID: <b>MB-R23397</b>      | SampType: <b>MBLK</b>   | Units: <b>µg/L</b> | Prep Date: <b>7/7/2015</b>     | RunNo: <b>23397</b>  |      |          |           |             |      |          |      |
|----------------------------------|-------------------------|--------------------|--------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>MBLKW</b>          | Batch ID: <b>R23397</b> |                    | Analysis Date: <b>7/7/2015</b> | SeqNo: <b>443205</b> |      |          |           |             |      |          |      |
| Analyte                          | Result                  | RL                 | SPK value                      | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Dichlorodifluoromethane (CFC-12) | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| Chloromethane                    | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| Vinyl chloride                   | ND                      | 0.200              |                                |                      |      |          |           |             |      |          |      |
| Bromomethane                     | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| Trichlorofluoromethane (CFC-11)  | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| Chloroethane                     | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| 1,1-Dichloroethene               | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| Methylene chloride               | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| trans-1,2-Dichloroethene         | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| Methyl tert-butyl ether (MTBE)   | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| 1,1-Dichloroethane               | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| 2,2-Dichloropropane              | ND                      | 2.00               |                                |                      |      |          |           |             |      |          |      |
| cis-1,2-Dichloroethene           | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| Chloroform                       | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| 1,1,1-Trichloroethane (TCA)      | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |



**Work Order:** 1506311  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Interior

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID: <b>MB-R23397</b> | SampType: <b>MBLK</b>   | Units: <b>µg/L</b> | Prep Date: <b>7/7/2015</b>     | RunNo: <b>23397</b>  |      |          |           |             |      |          |      |
|-----------------------------|-------------------------|--------------------|--------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>MBLKW</b>     | Batch ID: <b>R23397</b> |                    | Analysis Date: <b>7/7/2015</b> | SeqNo: <b>443205</b> |      |          |           |             |      |          |      |
| Analyte                     | Result                  | RL                 | SPK value                      | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| Analyte                     | Result | RL     | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------------|--------|--------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| 1,1-Dichloropropene         | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Carbon tetrachloride        | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,2-Dichloroethane (EDC)    | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Benzene                     | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Trichloroethene (TCE)       | ND     | 0.500  |           |             |      |          |           |             |      |          |      |
| 1,2-Dichloropropane         | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Bromodichloromethane        | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Dibromomethane              | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| cis-1,3-Dichloropropene     | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Toluene                     | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| trans-1,3-Dichloropropene   | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,1,2-Trichloroethane       | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,3-Dichloropropane         | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Tetrachloroethene (PCE)     | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Dibromochloromethane        | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,2-Dibromoethane (EDB)     | ND     | 0.0600 |           |             |      |          |           |             |      |          |      |
| Chlorobenzene               | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,1,1,2-Tetrachloroethane   | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Ethylbenzene                | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| m,p-Xylene                  | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| o-Xylene                    | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Styrene                     | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Isopropylbenzene            | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Bromoform                   | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,1,1,2,2-Tetrachloroethane | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| n-Propylbenzene             | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Bromobenzene                | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,3,5-Trimethylbenzene      | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 2-Chlorotoluene             | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 4-Chlorotoluene             | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| tert-Butylbenzene           | ND     | 1.00   |           |             |      |          |           |             |      |          |      |

Work Order: 1506311  
 CLIENT: PES Environmental, Inc.  
 Project: Bethel Interior

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID: <b>MB-R23397</b>   | SampType: <b>MBLK</b>   | Units: <b>µg/L</b> | Prep Date: <b>7/7/2015</b>     | RunNo: <b>23397</b>  |      |          |           |             |      |          |      |
|-------------------------------|-------------------------|--------------------|--------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>MBLKW</b>       | Batch ID: <b>R23397</b> |                    | Analysis Date: <b>7/7/2015</b> | SeqNo: <b>443205</b> |      |          |           |             |      |          |      |
| Analyte                       | Result                  | RL                 | SPK value                      | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,2,3-Trichloropropane        | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| 1,2,4-Trichlorobenzene        | ND                      | 2.00               |                                |                      |      |          |           |             |      |          |      |
| sec-Butylbenzene              | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| 4-Isopropyltoluene            | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| 1,3-Dichlorobenzene           | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| 1,4-Dichlorobenzene           | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| n-Butylbenzene                | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| 1,2-Dichlorobenzene           | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| 1,2-Dibromo-3-chloropropane   | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| 1,2,4-Trimethylbenzene        | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| Hexachlorobutadiene           | ND                      | 4.00               |                                |                      |      |          |           |             |      |          |      |
| Naphthalene                   | ND                      | 1.00               |                                |                      |      |          |           |             |      |          |      |
| 1,2,3-Trichlorobenzene        | ND                      | 4.00               |                                |                      |      |          |           |             |      |          |      |
| Surr: Dibromofluoromethane    | 25.1                    |                    | 25.00                          |                      | 101  | 77.4     | 147       |             |      |          |      |
| Surr: Toluene-d8              | 25.2                    |                    | 25.00                          |                      | 101  | 40.1     | 139       |             |      |          |      |
| Surr: 1-Bromo-4-fluorobenzene | 22.4                    |                    | 25.00                          |                      | 89.6 | 64.2     | 128       |             |      |          |      |

| Sample ID: <b>1506314-001AMS</b> | SampType: <b>MS</b>     | Units: <b>µg/L</b> | Prep Date: <b>7/7/2015</b>     | RunNo: <b>23397</b>  |      |          |           |             |      |          |      |
|----------------------------------|-------------------------|--------------------|--------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>BATCH</b>          | Batch ID: <b>R23397</b> |                    | Analysis Date: <b>7/7/2015</b> | SeqNo: <b>443200</b> |      |          |           |             |      |          |      |
| Analyte                          | Result                  | RL                 | SPK value                      | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Dichlorodifluoromethane (CFC-12) | 19.7                    | 1.00               | 20.00                          | 0                    | 98.6 | 33.3     | 122       |             |      |          |      |
| Chloromethane                    | 35.3                    | 1.00               | 20.00                          | 0                    | 176  | 48.2     | 145       |             |      |          | S    |
| Vinyl chloride                   | 32.5                    | 0.200              | 20.00                          | 0                    | 162  | 58.1     | 158       |             |      |          | S    |
| Bromomethane                     | 27.6                    | 1.00               | 20.00                          | 0                    | 138  | 31.5     | 135       |             |      |          | S    |
| Trichlorofluoromethane (CFC-11)  | 22.6                    | 1.00               | 20.00                          | 0                    | 113  | 54.7     | 138       |             |      |          |      |
| Chloroethane                     | 27.8                    | 1.00               | 20.00                          | 0                    | 139  | 49.9     | 143       |             |      |          |      |
| 1,1-Dichloroethene               | 25.2                    | 1.00               | 20.00                          | 0                    | 126  | 63       | 141       |             |      |          |      |
| Methylene chloride               | 22.8                    | 1.00               | 20.00                          | 0                    | 114  | 61.6     | 135       |             |      |          |      |
| trans-1,2-Dichloroethene         | 22.1                    | 1.00               | 20.00                          | 0                    | 111  | 63.5     | 138       |             |      |          |      |
| Methyl tert-butyl ether (MTBE)   | 19.5                    | 1.00               | 20.00                          | 0                    | 97.5 | 60.9     | 132       |             |      |          |      |



**Work Order:** 1506311  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Interior

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

|                                  |                         |                    |                                |                      |
|----------------------------------|-------------------------|--------------------|--------------------------------|----------------------|
| Sample ID: <b>1506314-001AMS</b> | SampType: <b>MS</b>     | Units: <b>µg/L</b> | Prep Date: <b>7/7/2015</b>     | RunNo: <b>23397</b>  |
| Client ID: <b>BATCH</b>          | Batch ID: <b>R23397</b> |                    | Analysis Date: <b>7/7/2015</b> | SeqNo: <b>443200</b> |

| Analyte                     | Result | RL     | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------------|--------|--------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| 1,1-Dichloroethane          | 23.9   | 1.00   | 20.00     | 0           | 119  | 67.8     | 136       |             |      |          |      |
| 2,2-Dichloropropane         | 2.14   | 2.00   | 20.00     | 0           | 10.7 | 31.5     | 121       |             |      |          | S    |
| cis-1,2-Dichloroethene      | 23.4   | 1.00   | 20.00     | 0           | 117  | 67.1     | 123       |             |      |          |      |
| Chloroform                  | 21.7   | 1.00   | 20.00     | 0           | 108  | 66.7     | 136       |             |      |          |      |
| 1,1,1-Trichloroethane (TCA) | 22.4   | 1.00   | 20.00     | 0           | 112  | 64.2     | 146       |             |      |          |      |
| 1,1-Dichloropropene         | 22.9   | 1.00   | 20.00     | 0           | 114  | 73.8     | 136       |             |      |          |      |
| Carbon tetrachloride        | 19.0   | 1.00   | 20.00     | 0           | 95.2 | 62.7     | 146       |             |      |          |      |
| 1,2-Dichloroethane (EDC)    | 17.7   | 1.00   | 20.00     | 0           | 88.7 | 63.4     | 137       |             |      |          |      |
| Benzene                     | 23.9   | 1.00   | 20.00     | 0           | 119  | 65.4     | 138       |             |      |          |      |
| Trichloroethene (TCE)       | 18.9   | 0.500  | 20.00     | 0           | 94.3 | 60.4     | 134       |             |      |          |      |
| 1,2-Dichloropropane         | 24.9   | 1.00   | 20.00     | 0           | 125  | 62.6     | 138       |             |      |          |      |
| Bromodichloromethane        | 15.7   | 1.00   | 20.00     | 0           | 78.6 | 59.4     | 139       |             |      |          |      |
| Dibromomethane              | 19.1   | 1.00   | 20.00     | 0           | 95.4 | 63.6     | 139       |             |      |          |      |
| cis-1,3-Dichloropropene     | 13.4   | 1.00   | 20.00     | 0           | 67.2 | 63.8     | 132       |             |      |          |      |
| Toluene                     | 19.2   | 1.00   | 20.00     | 0           | 95.8 | 64       | 139       |             |      |          |      |
| trans-1,3-Dichloropropene   | 12.5   | 1.00   | 20.00     | 0           | 62.5 | 57.7     | 125       |             |      |          |      |
| 1,1,2-Trichloroethane       | 16.6   | 1.00   | 20.00     | 0           | 82.8 | 59.4     | 127       |             |      |          |      |
| 1,3-Dichloropropane         | 17.8   | 1.00   | 20.00     | 0           | 89.1 | 64.3     | 135       |             |      |          |      |
| Tetrachloroethene (PCE)     | 14.9   | 1.00   | 20.00     | 0           | 74.6 | 50.3     | 133       |             |      |          |      |
| Dibromochloromethane        | 14.8   | 1.00   | 20.00     | 0           | 74.0 | 61.6     | 139       |             |      |          |      |
| 1,2-Dibromoethane (EDB)     | 16.3   | 0.0600 | 20.00     | 0           | 81.5 | 63.2     | 134       |             |      |          |      |
| Chlorobenzene               | 21.0   | 1.00   | 20.00     | 0           | 105  | 65.8     | 134       |             |      |          |      |
| 1,1,1,2-Tetrachloroethane   | 17.8   | 1.00   | 20.00     | 0           | 89.2 | 65.4     | 135       |             |      |          |      |
| Ethylbenzene                | 20.8   | 1.00   | 20.00     | 0           | 104  | 64.5     | 136       |             |      |          |      |
| m,p-Xylene                  | 41.0   | 1.00   | 40.00     | 0           | 102  | 63.3     | 135       |             |      |          |      |
| o-Xylene                    | 20.2   | 1.00   | 20.00     | 0           | 101  | 65.4     | 134       |             |      |          |      |
| Styrene                     | 20.4   | 1.00   | 20.00     | 0           | 102  | 59.1     | 134       |             |      |          |      |
| Isopropylbenzene            | 20.2   | 1.00   | 20.00     | 0           | 101  | 56       | 147       |             |      |          |      |
| Bromoform                   | 13.5   | 1.00   | 20.00     | 0           | 67.5 | 57.7     | 139       |             |      |          |      |
| 1,1,1,2,2-Tetrachloroethane | 20.7   | 1.00   | 20.00     | 0           | 103  | 59.8     | 146       |             |      |          |      |
| n-Propylbenzene             | 19.4   | 1.00   | 20.00     | 0           | 96.9 | 57.6     | 142       |             |      |          |      |



**Work Order:** 1506311  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Interior

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID: <b>1506314-001AMS</b> | SampType: <b>MS</b>     | Units: <b>µg/L</b> | Prep Date: <b>7/7/2015</b>     | RunNo: <b>23397</b>  |      |          |           |             |      |          |      |
|----------------------------------|-------------------------|--------------------|--------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>BATCH</b>          | Batch ID: <b>R23397</b> |                    | Analysis Date: <b>7/7/2015</b> | SeqNo: <b>443200</b> |      |          |           |             |      |          |      |
| Analyte                          | Result                  | RL                 | SPK value                      | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Bromobenzene                     | 18.2                    | 1.00               | 20.00                          | 0                    | 90.8 | 63.6     | 130       |             |      |          |      |
| 1,3,5-Trimethylbenzene           | 19.8                    | 1.00               | 20.00                          | 0                    | 99.0 | 59.9     | 136       |             |      |          |      |
| 2-Chlorotoluene                  | 19.4                    | 1.00               | 20.00                          | 0                    | 97.2 | 61.7     | 134       |             |      |          |      |
| 4-Chlorotoluene                  | 19.7                    | 1.00               | 20.00                          | 0                    | 98.5 | 58.4     | 134       |             |      |          |      |
| tert-Butylbenzene                | 21.4                    | 1.00               | 20.00                          | 0                    | 107  | 66.8     | 141       |             |      |          |      |
| 1,2,3-Trichloropropane           | 15.5                    | 1.00               | 20.00                          | 0                    | 77.4 | 62.4     | 129       |             |      |          |      |
| 1,2,4-Trichlorobenzene           | 16.0                    | 2.00               | 20.00                          | 0                    | 80.0 | 50.9     | 133       |             |      |          |      |
| sec-Butylbenzene                 | 25.2                    | 1.00               | 20.00                          | 0                    | 126  | 56       | 146       |             |      |          |      |
| 4-Isopropyltoluene               | 23.3                    | 1.00               | 20.00                          | 0                    | 116  | 56.4     | 136       |             |      |          |      |
| 1,3-Dichlorobenzene              | 19.4                    | 1.00               | 20.00                          | 0                    | 97.0 | 58.2     | 128       |             |      |          |      |
| 1,4-Dichlorobenzene              | 18.4                    | 1.00               | 20.00                          | 0                    | 92.1 | 60.1     | 123       |             |      |          |      |
| n-Butylbenzene                   | 18.3                    | 1.00               | 20.00                          | 0                    | 91.4 | 54.6     | 135       |             |      |          |      |
| 1,2-Dichlorobenzene              | 19.7                    | 1.00               | 20.00                          | 0                    | 98.5 | 65.4     | 133       |             |      |          |      |
| 1,2-Dibromo-3-chloropropane      | 13.5                    | 1.00               | 20.00                          | 0                    | 67.5 | 51.8     | 142       |             |      |          |      |
| 1,2,4-Trimethylbenzene           | 23.4                    | 1.00               | 20.00                          | 0                    | 117  | 63.7     | 132       |             |      |          |      |
| Hexachlorobutadiene              | 13.5                    | 4.00               | 20.00                          | 0                    | 67.3 | 58.1     | 130       |             |      |          |      |
| Naphthalene                      | 17.1                    | 1.00               | 20.00                          | 0                    | 85.3 | 54.5     | 132       |             |      |          |      |
| 1,2,3-Trichlorobenzene           | 15.2                    | 4.00               | 20.00                          | 0                    | 76.1 | 57       | 131       |             |      |          |      |
| Surr: Dibromofluoromethane       | 27.0                    |                    | 25.00                          |                      | 108  | 77.4     | 147       |             |      |          |      |
| Surr: Toluene-d8                 | 22.6                    |                    | 25.00                          |                      | 90.2 | 40.1     | 139       |             |      |          |      |
| Surr: 1-Bromo-4-fluorobenzene    | 23.1                    |                    | 25.00                          |                      | 92.4 | 64.2     | 128       |             |      |          |      |

**NOTES:**

S - Outlying QC recoveries were observed. The method is in control as indicated by the LCS.

| Sample ID: <b>1506311-020ADUP</b> | SampType: <b>DUP</b>    | Units: <b>µg/L</b> | Prep Date: <b>7/7/2015</b>     | RunNo: <b>23397</b>  |      |          |           |             |      |          |      |
|-----------------------------------|-------------------------|--------------------|--------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>SB-11-W</b>         | Batch ID: <b>R23397</b> |                    | Analysis Date: <b>7/7/2015</b> | SeqNo: <b>443263</b> |      |          |           |             |      |          |      |
| Analyte                           | Result                  | RL                 | SPK value                      | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Dichlorodifluoromethane (CFC-12)  | ND                      | 1.00               |                                |                      |      |          |           | 0           |      | 30       | Q    |
| Chloromethane                     | ND                      | 1.00               |                                |                      |      |          |           | 0           |      | 30       |      |
| Vinyl chloride                    | 0.816                   | 0.200              |                                |                      |      |          |           | 0.7059      | 14.5 | 30       | Q    |
| Bromomethane                      | ND                      | 1.00               |                                |                      |      |          |           | 0           |      | 30       |      |



Date: 9/8/2015

Work Order: 1506311  
 CLIENT: PES Environmental, Inc.  
 Project: Bethel Interior

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID: 1506311-020ADUP      | SampType: DUP    | Units: µg/L | Prep Date: 7/7/2015     | RunNo: 23397  |      |          |           |             |      |          |      |
|---------------------------------|------------------|-------------|-------------------------|---------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: SB-11-W              | Batch ID: R23397 |             | Analysis Date: 7/7/2015 | SeqNo: 443263 |      |          |           |             |      |          |      |
| Analyte                         | Result           | RL          | SPK value               | SPK Ref Val   | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Trichlorofluoromethane (CFC-11) | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| Chloroethane                    | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| 1,1-Dichloroethene              | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| Methylene chloride              | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| trans-1,2-Dichloroethene        | 1.12             | 1.00        |                         |               |      |          |           | 0.9445      | 17.2 | 30       |      |
| Methyl tert-butyl ether (MTBE)  | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| 1,1-Dichloroethane              | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| 2,2-Dichloropropane             | ND               | 2.00        |                         |               |      |          |           | 0           |      | 30       | Q    |
| cis-1,2-Dichloroethene          | 70.0             | 1.00        |                         |               |      |          |           | 59.50       | 16.3 | 30       | E    |
| Chloroform                      | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| 1,1,1-Trichloroethane (TCA)     | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| 1,1-Dichloropropene             | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| Carbon tetrachloride            | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| 1,2-Dichloroethane (EDC)        | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| Benzene                         | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| Trichloroethene (TCE)           | ND               | 0.500       |                         |               |      |          |           | 0           |      | 30       |      |
| 1,2-Dichloropropane             | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| Bromodichloromethane            | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| Dibromomethane                  | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| cis-1,3-Dichloropropene         | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| Toluene                         | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| trans-1,3-Dichloropropene       | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| 1,1,2-Trichloroethane           | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       | Q    |
| 1,3-Dichloropropane             | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| Tetrachloroethene (PCE)         | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| Dibromochloromethane            | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| 1,2-Dibromoethane (EDB)         | ND               | 0.0600      |                         |               |      |          |           | 0           |      | 30       |      |
| Chlorobenzene                   | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| 1,1,1,2-Tetrachloroethane       | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| Ethylbenzene                    | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |
| m,p-Xylene                      | ND               | 1.00        |                         |               |      |          |           | 0           |      | 30       |      |



Date: 9/8/2015

Work Order: 1506311  
 CLIENT: PES Environmental, Inc.  
 Project: Bethel Interior

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID: 1506311-020ADUP    | SampType: DUP    | Units: µg/L             | Prep Date: 7/7/2015 | RunNo: 23397 |      |          |           |             |      |          |      |
|-------------------------------|------------------|-------------------------|---------------------|--------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: SB-11-W            | Batch ID: R23397 | Analysis Date: 7/7/2015 | SeqNo: 443263       |              |      |          |           |             |      |          |      |
| Analyte                       | Result           | RL                      | SPK value           | SPK Ref Val  | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| o-Xylene                      | ND               | 1.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| Styrene                       | ND               | 1.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| Isopropylbenzene              | ND               | 1.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| Bromoform                     | ND               | 1.00                    |                     |              |      |          |           | 0           |      | 30       | Q    |
| 1,1,2,2-Tetrachloroethane     | ND               | 1.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| n-Propylbenzene               | ND               | 1.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| Bromobenzene                  | ND               | 1.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| 1,3,5-Trimethylbenzene        | ND               | 1.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| 2-Chlorotoluene               | ND               | 1.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| 4-Chlorotoluene               | ND               | 1.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| tert-Butylbenzene             | ND               | 1.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| 1,2,3-Trichloropropane        | ND               | 1.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| 1,2,4-Trichlorobenzene        | ND               | 2.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| sec-Butylbenzene              | ND               | 1.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| 4-Isopropyltoluene            | ND               | 1.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| 1,3-Dichlorobenzene           | ND               | 1.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| 1,4-Dichlorobenzene           | ND               | 1.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| n-Butylbenzene                | ND               | 1.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| 1,2-Dichlorobenzene           | ND               | 1.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| 1,2-Dibromo-3-chloropropane   | ND               | 1.00                    |                     |              |      |          |           | 0           |      | 30       | Q    |
| 1,2,4-Trimethylbenzene        | ND               | 1.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| Hexachlorobutadiene           | ND               | 4.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| Naphthalene                   | ND               | 1.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| 1,2,3-Trichlorobenzene        | ND               | 4.00                    |                     |              |      |          |           | 0           |      | 30       |      |
| Surr: Dibromofluoromethane    | 25.2             |                         | 25.00               |              | 101  | 77.4     | 147       |             | 0    |          |      |
| Surr: Toluene-d8              | 25.3             |                         | 25.00               |              | 101  | 40.1     | 139       |             | 0    |          |      |
| Surr: 1-Bromo-4-fluorobenzene | 22.9             |                         | 25.00               |              | 91.6 | 64.2     | 128       |             | 0    |          |      |

**NOTES:**

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

**Work Order:** 1506311  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Interior

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID: <b>CCV-C-R23397</b> | SampType: <b>CCV</b>    | Units: <b>µg/L</b> | Prep Date: <b>7/8/2015</b>     | RunNo: <b>23397</b>  |      |          |           |             |      |          |      |
|--------------------------------|-------------------------|--------------------|--------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>CCV</b>          | Batch ID: <b>R23397</b> |                    | Analysis Date: <b>7/8/2015</b> | SeqNo: <b>443424</b> |      |          |           |             |      |          |      |
| Analyte                        | Result                  | RL                 | SPK value                      | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                               |      |      |       |   |      |      |     |  |  |  |  |
|-------------------------------|------|------|-------|---|------|------|-----|--|--|--|--|
| cis-1,2-Dichloroethene        | 20.1 | 1.00 | 20.00 | 0 | 100  | 80   | 120 |  |  |  |  |
| Surr: Dibromofluoromethane    | 25.8 |      | 25.00 |   | 103  | 72.1 | 122 |  |  |  |  |
| Surr: Toluene-d8              | 24.6 |      | 25.00 |   | 98.3 | 62.1 | 129 |  |  |  |  |
| Surr: 1-Bromo-4-fluorobenzene | 27.6 |      | 25.00 |   | 110  | 63.3 | 132 |  |  |  |  |



|                                |  |
|--------------------------------|--|
| Client Name: <b>PES</b>        | Work Order Number: <b>1506311</b>          |
| Logged by: <b>Clare Griggs</b> | Date Received: <b>6/26/2015 8:00:00 AM</b> |

**Chain of Custody**

1. Is Chain of Custody complete?      Yes       No       Not Present
2. How was the sample delivered?      Client

**Log In**

3. Coolers are present?      Yes       No       NA
4. Shipping container/cooler in good condition?      Yes       No
5. Custody Seals present on shipping container/cooler?  
(Refer to comments for Custody Seals not intact)      Yes       No       Not Required
6. Was an attempt made to cool the samples?      Yes       No       NA
7. Were all items received at a temperature of >0°C to 10.0°C\*      Yes       No       NA
8. Sample(s) in proper container(s)?      Yes       No
9. Sufficient sample volume for indicated test(s)?      Yes       No
10. Are samples properly preserved?      Yes       No
11. Was preservative added to bottles?      Yes       No       NA
12. Is there headspace in the VOA vials?      Yes       No       NA
13. Did all samples containers arrive in good condition(unbroken)?      Yes       No
14. Does paperwork match bottle labels?      Yes       No
15. Are matrices correctly identified on Chain of Custody?      Yes       No
16. Is it clear what analyses were requested?      Yes       No
17. Were all holding times able to be met?      Yes       No

**Special Handling (if applicable)**

18. Was client notified of all discrepancies with this order?      Yes       No       NA

|                      |  |       |   |
|----------------------|--|-------|---|
| Person Notified:     | Chris DeBoer                                       | Date: | 6/29/2015   |
| By Whom:             | Clare Griggs                                       | Via:  | <input checked="" type="checkbox"/> eMail <input checked="" type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding:           | Did not receive unpreserved volume for fluoride.   |       |   |
| Client Instructions: | Confirmed. Samples 021 & 022 on hold for fluoride. |       |   |

19. Additional remarks:

**Item Information**

| Item # | Temp °C |
|--------|---------|
| Cooler | 2.2     |

\* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



**Fremont**  
ANALYTICAL

3600 Fremont Ave N.  
Seattle, WA 98103

Tel: 206-352-3790  
Fax: 206-352-7178

Date: 6.26.15  
Page: 1 of 3

Laboratory Project No (Internal):

Chain of Custody Record  
15010311

Client: PES Environ mental, Inc.  
Address: 1215 4th Ave Suite 1350  
City, State, Zip: Seattle WA 98161  
Tel: (206) 524-3980 Fax: (206) 524-3985

Project Name: Bethel Interior  
Project No: 19th 030.01  
Location: Port Orchard, WA  
Reports To (PM): K Rankich / B. O'Neal  
Email: KRankich@pescan.com

\*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water, SW = Storm Water

| Sample Name | Sample Date | Sample Time | Sample Type (Matrix)* | VOC (EPA 8260) | GX/BTEX | BTEX | Gasoline Range Organics (GX) | Hydrocarbon Identification (HCO) | Diesel/Heavy Oil Range Organics (DH) | SEM VOC (EPA 8270) | PAH (EPA 8270 - SW) | PCBs (EPA 8082) | Metals** (6020 / 300.8) | Total (T) Dissolved (D) | Ametics (IC)** | EDS (9011) | Comments/Depth |
|-------------|-------------|-------------|-----------------------|----------------|---------|------|------------------------------|----------------------------------|--------------------------------------|--------------------|---------------------|-----------------|-------------------------|-------------------------|----------------|------------|----------------|
| SB-11-0.5   | 6/25/15     | 9:25        | S                     | X              | X       | X    | X                            | X                                | X                                    | X                  | X                   | X               | X                       | X                       | X              | X          | HOLD           |
| SB-11-a     |             | 9:30        | S                     | X              | X       | X    | X                            | X                                | X                                    | X                  | X                   | X               | X                       | X                       | X              | X          |                |
| SB-11-2D    |             | 9:50        | S                     | X              | X       | X    | X                            | X                                | X                                    | X                  | X                   | X               | X                       | X                       | X              | X          |                |
| SB-11-a     |             | 9:35        | S                     | X              | X       | X    | X                            | X                                | X                                    | X                  | X                   | X               | X                       | X                       | X              | X          |                |
| SB-11-15    |             | 9:40        | S                     | X              | X       | X    | X                            | X                                | X                                    | X                  | X                   | X               | X                       | X                       | X              | X          |                |
| SB-10-0.5   |             | 10:20       | S                     | X              | X       | X    | X                            | X                                | X                                    | X                  | X                   | X               | X                       | X                       | X              | X          |                |
| SB-10-3     |             | 10:25       | S                     | X              | X       | X    | X                            | X                                | X                                    | X                  | X                   | X               | X                       | X                       | X              | X          |                |
| SB-10-10    |             | 10:40       | S                     | X              | X       | X    | X                            | X                                | X                                    | X                  | X                   | X               | X                       | X                       | X              | X          |                |
| SB-10-13    |             | 10:45       | S                     | X              | X       | X    | X                            | X                                | X                                    | X                  | X                   | X               | X                       | X                       | X              | X          |                |
| SB-12-0.5   |             | 11:35       | S                     | X              | X       | X    | X                            | X                                | X                                    | X                  | X                   | X               | X                       | X                       | X              | X          |                |

Auto per Chris Decker w/a  
cg

\*\*\* Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite  
 Sample Disposal:  Return to Client  Disposal by Lab (A fee may be assessed if samples are reanalyzed 30 days)  
 Rejected/Retained: Chris Decker 6/26/15 8:00  
 Received: Sarah Decker 6/26/15 8:00

Turn-around times for samples received after 4:00pm will begin on the following business day.  
 TAT -> SameDay\* NextDay\* 2 Day 3 Day STD  
 \*Please coordinate with the lab in advance



# Fremont

ADDITIONAL

3600 Fremont Ave N.  
Seattle, WA 98103  
Tel: 206-352-3790  
Fax: 206-352-7178

Date: 6.25.15

Laboratory Project No (Internal):  
Page: 2 of 3

## Chain of Custody Record

Client: PES Environmental, Inc  
Address: see page 1  
City, State, Zip: \_\_\_\_\_  
Tel: (206) 529-3480  
FAX: \_\_\_\_\_

Project Name: Bethel Interior  
Project No: see page 2  
Location: \_\_\_\_\_  
Reports To (PM): \_\_\_\_\_  
Email: kvaatikid@pescan.com

\*Metric Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water, SW = Stream Water

| Sample Name | Sample Date | Sample Time | Sample Type (Matrix)* | VOC (EPA 8260)                      | GX/PTX                              | BTEX                                | Gasoline Range Organics (GX) | Hydrocarbon Identification (HCO) | Panel/Heavy Oil Range Organics (PO) | SEMI VOL (EPA 8270) | PAH (EPA 8270) | PCB (EPA 8092) | Metals** (6000 / 200 B) | Total (T)   Dissolved (D) | Anions (A)***                       | EDB (8011) | Comments/Depth |  |
|-------------|-------------|-------------|-----------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------------------------|----------------------------------|-------------------------------------|---------------------|----------------|----------------|-------------------------|---------------------------|-------------------------------------|------------|----------------|--|
| SB-12-3     | 6.25.15     | 1140        | S                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                              |                                  |                                     |                     |                |                |                         |                           |                                     |            |                |  |
| SB-12-4     |             | 1145        | S                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                              |                                  |                                     |                     |                |                |                         |                           |                                     |            |                |  |
| SB-12-14    |             | 1150        | S                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                              |                                  |                                     |                     |                |                |                         |                           |                                     |            |                |  |
| SB-13-0.5   |             | 1320        | S                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                              |                                  |                                     |                     |                |                |                         |                           |                                     |            |                |  |
| SB-13-3     |             | 1325        | S                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                              |                                  |                                     |                     |                |                |                         |                           |                                     |            |                |  |
| SB-13-9     |             | 1330        | S                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                              |                                  |                                     |                     |                |                |                         |                           |                                     |            |                |  |
| SB-13-15    |             | 1335        | S                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                              |                                  |                                     |                     |                |                |                         |                           |                                     |            |                |  |
| TRIP BLANK  |             |             | S                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                              |                                  |                                     |                     |                |                |                         |                           |                                     |            |                |  |
| TRIP BLANK  |             |             | S                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                              |                                  |                                     |                     |                |                |                         |                           |                                     |            |                |  |
| SB-11-W     | 6.25.15     | 1400        | GW                    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                              |                                  |                                     |                     |                |                |                         |                           | <input checked="" type="checkbox"/> |            |                |  |

\*\*Metals Analysis (Circle): MTCA-5 FCRA-8 Priority pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Na Ni Pb Sb Se Sr Sn Tl U V Zn

\*\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Sample Disposal:  Return to Client  Disposed by Lab (A line may be annotated samples are received after 30 days.)

Turn-around times for samples received after 4:00pm will begin on the following business day.

Relinquished: Chris DeBor Date/Time: 6/25/15 8:00

Received: [Signature] Date/Time: 06/25/15 8:00

Relinquished: [Signature] Date/Time: 06/25/15 8:00

TAT -> SameDay NextDay 2 Day 3 Day STD

\*Please coordinate with the lab in advance



# Fremont

AMT/VTG/LL

## Chain of Custody Record

3600 Fremont Ave N. Seattle, WA 98103

Tel: 206-352-3790 Fax: 206-352-7178

Date: 6.26.15

Laboratory Project No (Internal):

Client: PES Environmental Inc.  
Address: see pages  
City, State, Zip

Project Name: Bethel  
Project No: see page 1  
Location: Intention  
Reports To (PM):  
Collected by:

Tel: (206) 521-3150

FAX:

Email: kranthik@pescor.com

\*Matrix Codes: A = Air, AQ = Aquatics, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water, SW = Storm Water

| Sample Name | Sample Date | Sample Time | Sample Type (Material) | VOC (EPA 8260) | GV/PTX | STX | Gasoline Range Organics (GX) | Hydrocarbon Identification (HCDI) | Distill/Heavy Oil Range Organics (DX) | SEM-VOL (EPA 8270) | PAM (EPA 8270-SM) | PCBs (EPA 8082) | Metals** (6020/200.8) | Total (T) / Dissolved (D) | Anions (IC)** | EDB (8033) | Hold | Comments/Depth |
|-------------|-------------|-------------|------------------------|----------------|--------|-----|------------------------------|-----------------------------------|---------------------------------------|--------------------|-------------------|-----------------|-----------------------|---------------------------|---------------|------------|------|----------------|
| 1 SB-10-W   | 6.25.15     | 1410        | GW                     | X              |        |     |                              |                                   |                                       |                    |                   |                 |                       |                           |               |            |      |                |
| 2 SB-13-W   |             | 1530        | GW                     | X              |        |     |                              |                                   |                                       |                    |                   |                 |                       |                           |               |            |      |                |
| 3 DDM-1     |             | 1540        | S                      |                |        |     |                              |                                   |                                       |                    |                   |                 |                       |                           |               |            |      |                |
| 4           |             |             |                        |                |        |     |                              |                                   |                                       |                    |                   |                 |                       |                           |               |            |      |                |
| 5           |             |             |                        |                |        |     |                              |                                   |                                       |                    |                   |                 |                       |                           |               |            |      |                |
| 6           |             |             |                        |                |        |     |                              |                                   |                                       |                    |                   |                 |                       |                           |               |            |      |                |
| 7           |             |             |                        |                |        |     |                              |                                   |                                       |                    |                   |                 |                       |                           |               |            |      |                |
| 8           |             |             |                        |                |        |     |                              |                                   |                                       |                    |                   |                 |                       |                           |               |            |      |                |
| 9           |             |             |                        |                |        |     |                              |                                   |                                       |                    |                   |                 |                       |                           |               |            |      |                |
| 10          |             |             |                        |                |        |     |                              |                                   |                                       |                    |                   |                 |                       |                           |               |            |      |                |

\*\*Metals Analysis (Circle): MICA-5 RCRA-6 Priority Pollutants TAL As Ag Al As Ba Be Ca Cd Co Cr Cu Fe Hg E Ni Mn Mo Na Ni Pb Sb Se Si Sn Ti Tl U V Zn

\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Fluoride Nitrate+Nitrite

Sample Disposal:  Return to Client  Dispose by Lab (if not may be assumed, samples are released after approval)

Relinquished Date/Time: 6/26/15 8:00  
Received Date/Time: 6/26/15 8:00  
Signature: [Signature]

TAT -> Saturday\* Next Day\* 2 Day 3 Day STD  
\*Please coordinate with the lab in advance

## MEMORANDUM

**TO:** Project File **DATE:** August 26, 2015  
**FROM:** Jessie Compeau **PROJECT:** 1246.030.02.002  
**SUBJECT:** Bethel Junction, Soil and Groundwater Sample Data Review – June 25, 2015  
Sampling Event  
Fremont Lab Package 1506311

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Eighteen (18) soil samples (including a field duplicate), three (3) groundwater samples, and two (2) trip blank samples were collected as part of a Phase 2 Investigation at the Bethel Junction in Port Orchard, Washington, on June 25, 2015. The samples were delivered to Fremont Analytical (Fremont) of Seattle, Washington for laboratory analysis. Four soil samples were placed on hold by the client and remaining project samples were analyzed for selected analytical parameters listed as follows: volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C, total metals (arsenic, barium, cadmium, chromium, lead, selenium, and silver) by USEPA Method 6020, total metals (mercury) by USEPA Method 7471, and general chemistry parameter (fluoride) by USEPA 300.0.

The results were reported in Fremont Lab Package 1506311. The quality assurance review of the data is summarized below.

### DATA QUALIFICATIONS

Guidelines established by the USEPA for review of analytical data were used to validate the data. Fremont Analytical control limit criteria were also used to assess the quality of the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the laboratory report and USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA, 1999) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (EPA 2004).

### DATA VALIDATION

#### **Sample Receipt, Preservation and Handling**

The samples were delivered to the project laboratory in coolers under standard chain-of-custody protocols with the following discussion:

Fluoride analysis was requested on groundwater samples SB-10-W and SB-13-W but not performed due to incorrect sample preservation. No action is taken since additional groundwater samples were collected on July 9, 2015 and submitted for fluoride analysis. These results are reported with Fremont Lab Package 1507095.

Review of Fremont's Sample Log-In Check List Form indicates that all samples were received in good condition at a cooler temperature of *2.2 Centigrade (°C) within the recommended preservation temperature range of 4.0°C ± 2.0°C*. Sample temperatures were not recorded. No action is taken as the cooler was received in good condition. The sample receipt log indicated that the samples in the coolers were received properly stored in a cooler, preserved, and cooled with ice/gel packs and in good condition at the time of laboratory receipt. No data qualifications were assigned due to temperature preservation issues.

### **Holding Times**

#### *USEPA Method 8260C (VOCs):*

All samples were analyzed for VOCs within the EPA recommended holding time of 14 days (soils and preserved waters) from the date of sample collection. All holding time criteria were met.

#### *USEPA 6020 (Total Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, and Silver) and USEPA 7471 (Mercury):*

The soil sample was prepared and analyzed within the EPA recommended holding period of 28 days for mercury and for remaining metals within 180 days from the date of sample collection. All holding time criteria were met.

#### *General Chemistry Methods:*

The sample (groundwater) was prepared and analyzed within the EPA recommended holding time for fluoride within 28 days from the date of sample collection.

### **Initial and Continuing Calibration**

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. These data were not provided nor requested for this project however Fremont indicated within the laboratory report that initial and/or continuing calibration criteria for VOC groundwater data were not met for dichlorodifluoromethane (CFC-12), vinyl chloride, 2,2-dichloropropane, 1,1,2-trichloroethane, dibromochloromethane, bromoform, and 1,2-dibromo-3-chloropropane. **All associated groundwater sample results (analyzed on July 7, 2015) for CFC-12, 2,2-dichloropropane, 1,1,2-trichloroethane, dibromochloromethane, bromoform, and 1,2-dibromo-3-chloropropane are estimated (UJ) because initial and/or continuing calibration did not meet established EPA criteria. The associated continuing calibration result (analyzed on July 7, 2015) for vinyl chloride was biased high therefore only positive vinyl chloride results in associated samples SB-11-W and SB-13-W are estimated (J) due to potential high bias.** Fremont reissued sample SB-13-W VOC results as the Q qualifier was missing from vinyl chloride. The case narrative did not indicate any other issues with calibration; therefore no other qualifications were warranted.

### **Method Blank Results**

#### *USEPA Method 8260C (VOCs):*

Laboratory method blanks (soils and preserved waters) were included with the analytical batch per method requirement. Target analytes were not detected in the method blanks at or above the

method reporting limits (MRLs). No qualifications of the data were made due to the results of the method blank analyses.

*USEPA 6020 (Total Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, and Silver) and USEPA 7471 (Mercury):*

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the method reporting limit (MRL). No qualifications of the data were made due to the result of the method blank analyses.

*General Chemistry Methods:*

Laboratory method blank was prepared and analyzed for fluoride. Fluoride was not detected in the method blank at or above the method reporting limit (MRL). No qualifications of the data were made due to the results of the method blank analysis.

### **Trip Blank Results**

*USEPA Method 8260C (VOCs):*

Trip blanks associated with the soil and water samples were collected and analyzed. Target analytes were not detected in the trip blanks at or above the MRLs. No qualifications of the data were made due to the results of the trip blank analyses.

### **Field, Rinsate, or Equipment Blank Results**

*All Analytical Parameters:*

Field, rinsate, or equipment blanks were not collected.

### **Laboratory Duplicate Analyses**

*USEPA Method 8260C (VOCs):*

A laboratory duplicate was performed on an unrelated soil sample within the analytical batch. A laboratory duplicate was performed on water sample SB-11-W. The primary/duplicate relative percent differences (RPDs) for soil and water VOC analysis were within the laboratory control limit of 30%. Duplicate data are acceptable.

*USEPA 6020 (Total Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, and Silver) and USEPA 7471 (Mercury):*

Laboratory duplicate analysis was performed on an unrelated soil sample within the analytical batch. The primary/duplicate RPDs were within the laboratory control limit of 30% with one exception:

Lead RPD is high due to poor sample homogeneity and outside of Fremont's control limit criteria. No action is taken since the laboratory duplicate was performed on an unrelated sample within the analytical batch. No precision data are available for lead. No action was taken other than to note that sample DRUM-1 was collected from a drum for waste characterization and contents of the drum have since been disposed of.

*General Chemistry Methods:*

Laboratory duplicate analysis was performed on sample SB-11-W for fluoride. The primary/duplicate RPD was within the laboratory control limit of 30%. Duplicate data are acceptable.

### **Field Duplicate Analyses**

*USEPA Method 8260C (VOCs):*

Field duplicate soil samples (SB-11-2 and SB-11-2D) were collected and analyzed for VOCs. VOC results are comparable and within 30% RPD with one exception:

**VOC compound tetrachloroethene results for field duplicate soil samples SB-11-2 and SB-11-2D are not comparable and results are estimated (J).**

A field duplicate water sample was not collected. Refer to laboratory duplicate results for precision data.

*USEPA 6020 (Total Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, and Silver) and USEPA 7471 (Mercury):*

A field duplicate soil sample was not collected. Refer to laboratory duplicate results for precision data.

*General Chemistry Methods:*

A field duplicate water sample was not collected. Refer to the laboratory duplicate result for precision data.

### **Surrogate Recoveries**

*USEPA Method 8260C (VOCs):*

The surrogate recovery results for the samples, laboratory duplicates, laboratory control samples, matrix spikes, and the method blanks were within the laboratory surrogate control limits for all soil and water analyses. No qualifications of the data were warranted.

### **Matrix Spike/ Matrix Spike Duplicates**

*USEPA Method 8260C (VOCs):*

A matrix spike (MS) analysis was performed on an unrelated soil sample within the analytical batch. The MS analysis was performed on unrelated water sample within the analytical batch. The MS percent recoveries (%Rs) for all 8260C target analytes were within the laboratory control criteria for soil and water samples with the following exceptions:

Soil matrix spike recoveries for dichlorodifluoromethane (CFC-12), chloromethane, bromomethane, chloroethane, and 1,1,2,2-tetrachloroethane were high and above Fremont laboratory control limit criteria. No action was taken since the spike was performed on an unrelated sample within the analytical batch. Refer to laboratory control sample (LCS) results for accuracy data.

Water matrix spike recoveries for chloromethane, vinyl chloride, bromomethane, and 2,2-dichloropropane were outside of Fremont laboratory control limit criteria. No action was



taken since the spike was performed on an unrelated sample within the analytical batch. Refer to LCS results for accuracy data.

*USEPA 6020 (Total Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, and Silver) and USEPA 7471 (Mercury):*

MS/MSD analyses were performed on an unrelated sample within the analytical batch for metals. The MS/MSD %Rs and RPD for metals were within the laboratory control criteria with the following exception:

Soil MS/MSD and RPD results for lead are outside of Fremont control limit criteria. No action was taken since the spike was performed on an unrelated sample within the analytical batch. Refer to LCS results for accuracy data.

*General Chemistry Methods:*

MS/MSD analyses were performed on water sample SB-11-W for fluoride. The MS/MSD %Rs and RPD for fluoride were within the laboratory control criteria.

### **Laboratory Control Samples**

*USEPA Method 8260C (VOCs):*

Laboratory control samples (LCSs) were analyzed along with the analytical batches for water and soil samples. The LCS %Rs for the control analytes (VOCs) were within the laboratory control criteria for water and the soil sample with the following exceptions:

Soil LCS % R for VOC target compound dichlorodifluoromethane (CFC-12) was high at 164% and above Fremont control limit criteria. No action taken for CFC-12 as it was recovered high and not detected in associated samples.

Water LCS % Rs for VOC target compounds 1,1,1-trichloroethane (TCA) and dibromomethane were outside of Fremont control limit criteria. No action was taken for TCA as it was recovered high and not detected in associated samples. Dibromomethane was recovered low at 73% and slightly below Fremont control limit criteria (76 to 130%).  
**Dibromomethane results for all associated groundwater samples are estimated (UJ).**

*USEPA 6020 (Total Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, and Silver) and USEPA 7471 (Mercury):*

LCS samples were analyzed along with analytical batch for metals. The LCS %Rs for metals were within the laboratory control criteria for soils. No data qualifications were warranted.

*General Chemistry Methods:*

LCS sample was analyzed along with analytical batch for fluoride. The LCS %R for fluoride was within the laboratory control criteria for water. No data qualifications were warranted.

### **Quantitation Limits**

Results of all analyses were reported based on standard laboratory MRLs. MRLs on selected samples were raised due to method-required dilutions with the following discussion:

Sample SB-11-W submitted for fluoride analysis was diluted two fold due to matrix interference. **Sample SB-11-W result for fluoride is estimated (J) as the result was reported at 0.0168 mg/L below the elevated MRL (0.200 mg/L).**

The reported MRLs are considered appropriate for this project. No other data qualifiers were warranted based upon standard or dilution-elevated detection limits.

### **Completeness**

The samples were collected and analyzed as requested with the exception of two incorrectly preserved groundwater samples submitted for fluoride analysis. These two groundwater samples were collected at a later date and analyzed for fluoride. Reported MRLs on selected samples were raised due to method-required dilutions. The results in all cases were reported based upon standard Method Reporting Limits (MRLs). Data completeness for this project is 100%.

### **Data Assessment**

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA, 1999)
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (EPA 2004).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data are judged to be acceptable for their intended use.



# Analytical Report

WO#: 1506311

Date Reported: 7/8/2015

Client: PES Environmental, Inc.

Collection Date: 6/25/2015 9:30:00 AM

Project: Bethel Interior

Lab ID: 1506311-002

Matrix: Soil

Client Sample ID: SB-11-2

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                                  |       |         |   |           |   |                      |
|----------------------------------|-------|---------|---|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND    | 0.0703  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Chloromethane                    | ND    | 0.0703  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Vinyl chloride                   | ND    | 0.00234 |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Bromomethane                     | ND    | 0.105   |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND    | 0.0586  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Chloroethane                     | ND    | 0.0703  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,1-Dichloroethene               | ND    | 0.0586  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Methylene chloride               | ND    | 0.0234  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| trans-1,2-Dichloroethene         | ND    | 0.0234  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND    | 0.0586  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,1-Dichloroethane               | ND    | 0.0234  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 2,2-Dichloropropane              | ND    | 0.0586  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| cis-1,2-Dichloroethene           | 0.113 | 0.0234  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Chloroform                       | ND    | 0.0234  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND    | 0.0234  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,1-Dichloropropene              | ND    | 0.0234  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Carbon tetrachloride             | ND    | 0.0234  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,2-Dichloroethane (EDC)         | ND    | 0.0352  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Benzene                          | ND    | 0.0234  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Trichloroethene (TCE)            | 0.660 | 0.0234  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,2-Dichloropropane              | ND    | 0.0234  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Bromodichloromethane             | ND    | 0.0234  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Dibromomethane                   | ND    | 0.0469  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| cis-1,3-Dichloropropene          | ND    | 0.0234  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Toluene                          | ND    | 0.0234  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| trans-1,3-Dichloropropylene      | ND    | 0.0352  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,1,2-Trichloroethane            | ND    | 0.0352  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,3-Dichloropropane              | ND    | 0.0586  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Tetrachloroethene (PCE)          | 0.179 | 0.0234  | J | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Dibromochloromethane             | ND    | 0.0352  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,2-Dibromoethane (EDB)          | ND    | 0.00586 |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Chlorobenzene                    | ND    | 0.0234  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND    | 0.0352  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Ethylbenzene                     | ND    | 0.0352  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| m,p-Xylene                       | ND    | 0.0234  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| o-Xylene                         | ND    | 0.0234  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Styrene                          | ND    | 0.0234  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Isopropylbenzene                 | ND    | 0.0938  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Bromoform                        | ND    | 0.0234  |   | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |

*JC*  
8/28/15



# Analytical Report

WO#: 1506311  
Date Reported: 7/8/2015

Client: PES Environmental, Inc.

Collection Date: 6/25/2015 9:30:00 AM

Project: Bethel Interior

Lab ID: 1506311-002

Matrix: Soil

Client Sample ID: SB-11-2

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| n-Propylbenzene               | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Bromobenzene                  | ND   | 0.0352   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 2-Chlorotoluene               | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 4-Chlorotoluene               | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| tert-Butylbenzene             | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0586   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| sec-Butylbenzene              | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| n-Butylbenzene                | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.586    |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Hexachlorobutadiene           | ND   | 0.117    |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Naphthalene                   | ND   | 0.0352   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0234   |  | mg/Kg-dry | 1 | 6/29/2015 9:03:00 PM |
| Surr: Dibromofluoromethane    | 83.8 | 63.7-129 |  | %REC      | 1 | 6/29/2015 9:03:00 PM |
| Surr: Toluene-d8              | 95.5 | 64.3-131 |  | %REC      | 1 | 6/29/2015 9:03:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 95.5 | 63.1-141 |  | %REC      | 1 | 6/29/2015 9:03:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23294

Analyst: CG

|                  |      |  |  |     |   |                      |
|------------------|------|--|--|-----|---|----------------------|
| Percent Moisture | 12.3 |  |  | wt% | 1 | 6/30/2015 8:19:48 AM |
|------------------|------|--|--|-----|---|----------------------|

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# Analytical Report

WO#: 1506311

Date Reported: 7/8/2015

Client: PES Environmental, Inc.

Collection Date: 6/25/2015 9:50:00 AM

Project: Bethel Interior

Lab ID: 1506311-003

Matrix: Soil

Client Sample ID: SB-11-2D

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                                  |        |         |   |           |   |                      |
|----------------------------------|--------|---------|---|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND     | 0.0764  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Chloromethane                    | ND     | 0.0764  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Vinyl chloride                   | ND     | 0.00255 |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Bromomethane                     | ND     | 0.115   |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND     | 0.0637  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Chloroethane                     | ND     | 0.0764  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,1-Dichloroethene               | ND     | 0.0637  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Methylene chloride               | ND     | 0.0255  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| trans-1,2-Dichloroethene         | ND     | 0.0255  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND     | 0.0637  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,1-Dichloroethane               | ND     | 0.0255  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 2,2-Dichloropropane              | ND     | 0.0637  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| cis-1,2-Dichloroethene           | 0.0802 | 0.0255  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Chloroform                       | ND     | 0.0255  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND     | 0.0255  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,1-Dichloropropene              | ND     | 0.0255  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Carbon tetrachloride             | ND     | 0.0255  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,2-Dichloroethane (EDC)         | ND     | 0.0382  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Benzene                          | ND     | 0.0255  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Trichloroethene (TCE)            | 0.551  | 0.0255  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,2-Dichloropropane              | ND     | 0.0255  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Bromodichloromethane             | ND     | 0.0255  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Dibromomethane                   | ND     | 0.0509  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| cis-1,3-Dichloropropene          | ND     | 0.0255  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Toluene                          | ND     | 0.0255  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| trans-1,3-Dichloropropylene      | ND     | 0.0382  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,1,2-Trichloroethane            | ND     | 0.0382  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,3-Dichloropropane              | ND     | 0.0637  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Tetrachloroethene (PCE)          | 0.313  | 0.0255  | J | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Dibromochloromethane             | ND     | 0.0382  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,2-Dibromoethane (EDB)          | ND     | 0.00637 |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Chlorobenzene                    | ND     | 0.0255  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND     | 0.0382  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Ethylbenzene                     | ND     | 0.0382  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| m,p-Xylene                       | ND     | 0.0255  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| o-Xylene                         | ND     | 0.0255  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Styrene                          | ND     | 0.0255  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Isopropylbenzene                 | ND     | 0.102   |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Bromoform                        | ND     | 0.0255  |   | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |

*Jc*  
*8/28/15*



Client: PES Environmental, Inc.

Collection Date: 6/25/2015 9:50:00 AM

Project: Bethel Interior

Lab ID: 1506311-003

Matrix: Soil

Client Sample ID: SB-11-2D

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11183

Analyst: EM

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| n-Propylbenzene               | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Bromobenzene                  | ND   | 0.0382   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 2-Chlorotoluene               | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 4-Chlorotoluene               | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| tert-Butylbenzene             | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0637   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| sec-Butylbenzene              | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| n-Butylbenzene                | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.637    |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Hexachlorobutadiene           | ND   | 0.127    |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Naphthalene                   | ND   | 0.0382   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0255   |  | mg/Kg-dry | 1 | 6/29/2015 9:32:00 PM |
| Surr: Dibromofluoromethane    | 88.9 | 63.7-129 |  | %REC      | 1 | 6/29/2015 9:32:00 PM |
| Surr: Toluene-d8              | 101  | 64.3-131 |  | %REC      | 1 | 6/29/2015 9:32:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 87.0 | 63.1-141 |  | %REC      | 1 | 6/29/2015 9:32:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23294

Analyst: CG

|                  |      |  |  |     |   |                      |
|------------------|------|--|--|-----|---|----------------------|
| Percent Moisture | 9.30 |  |  | wt% | 1 | 6/30/2015 8:19:48 AM |
|------------------|------|--|--|-----|---|----------------------|



# Analytical Report

WO#: 1506311  
Date Reported: 7/8/2015

Client: PES Environmental, Inc.

Collection Date: 6/23/2015 12:45:00 PM

Project: Bethel Interior

Lab ID: 1506311-019

Matrix: Water

Client Sample ID: Trip Blank

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23397 Analyst: AK

|                                  |                 |        |              |      |   |                     |
|----------------------------------|-----------------|--------|--------------|------|---|---------------------|
| Dichlorodifluoromethane (CFC-12) | ND <i>UJ</i>    | 1.00   | Q            | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Chloromethane                    | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Vinyl chloride                   | ND <del>X</del> | 0.200  | <del>X</del> | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Bromomethane                     | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Trichlorofluoromethane (CFC-11)  | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Chloroethane                     | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,1-Dichloroethene               | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Methylene chloride               | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| trans-1,2-Dichloroethene         | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Methyl tert-butyl ether (MTBE)   | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,1-Dichloroethane               | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 2,2-Dichloropropane              | ND <i>UJ</i>    | 2.00   | Q            | µg/L | 1 | 7/7/2015 9:02:00 AM |
| cis-1,2-Dichloroethene           | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Chloroform                       | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,1,1-Trichloroethane (TCA)      | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,1-Dichloropropene              | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Carbon tetrachloride             | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,2-Dichloroethane (EDC)         | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Benzene                          | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Trichloroethene (TCE)            | ND              | 0.500  |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,2-Dichloropropane              | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Bromodichloromethane             | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Dibromomethane                   | ND <i>UJ</i>    | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| cis-1,3-Dichloropropene          | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Toluene                          | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| trans-1,3-Dichloropropene        | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,1,2-Trichloroethane            | ND <i>UJ</i>    | 1.00   | Q            | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,3-Dichloropropene              | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Tetrachloroethene (PCE)          | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Dibromochloromethane             | ND <i>UJ</i>    | 1.00   | Q            | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,2-Dibromoethane (EDB)          | ND              | 0.0600 |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Chlorobenzene                    | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,1,1,2-Tetrachloroethane        | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Ethylbenzene                     | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| m,p-Xylene                       | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| o-Xylene                         | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Styrene                          | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Isopropylbenzene                 | ND              | 1.00   |              | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Bromoform                        | ND <i>UJ</i>    | 1.00   | Q            | µg/L | 1 | 7/7/2015 9:02:00 AM |

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9/19/15*

*Je  
5/28/15* 33 of 69



# Analytical Report

WO#: 1506311  
Date Reported: 7/8/2015

Client: PES Environmental, Inc.

Collection Date: 6/23/2015 12:45:00 PM

Project: Bethel Interior

Lab ID: 1506311-019

Matrix: Water

Client Sample ID: Trip Blank

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23397 Analyst: AK

|                               |      |          |      |      |   |                     |
|-------------------------------|------|----------|------|------|---|---------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 1.00     |      | µg/L | 1 | 7/7/2015 9:02:00 AM |
| n-Propylbenzene               | ND   | 1.00     |      | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Bromobenzene                  | ND   | 1.00     |      | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 1.00     |      | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 2-Chlorotoluene               | ND   | 1.00     |      | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 4-Chlorotoluene               | ND   | 1.00     |      | µg/L | 1 | 7/7/2015 9:02:00 AM |
| tert-Butylbenzene             | ND   | 1.00     |      | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,2,3-Trichloropropane        | ND   | 1.00     |      | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 2.00     |      | µg/L | 1 | 7/7/2015 9:02:00 AM |
| sec-Butylbenzene              | ND   | 1.00     |      | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 4-Isopropyltoluene            | ND   | 1.00     |      | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,3-Dichlorobenzene           | ND   | 1.00     |      | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,4-Dichlorobenzene           | ND   | 1.00     |      | µg/L | 1 | 7/7/2015 9:02:00 AM |
| n-Butylbenzene                | ND   | 1.00     |      | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,2-Dichlorobenzene           | ND   | 1.00     |      | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 1.00     | VJ Q | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 1.00     |      | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Hexachlorobutadiene           | ND   | 4.00     |      | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Naphthalene                   | ND   | 1.00     |      | µg/L | 1 | 7/7/2015 9:02:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 4.00     |      | µg/L | 1 | 7/7/2015 9:02:00 AM |
| Surr: Dibromofluoromethane    | 102  | 77.4-147 |      | %REC | 1 | 7/7/2015 9:02:00 AM |
| Surr: Toluene-d8              | 131  | 40.1-139 |      | %REC | 1 | 7/7/2015 9:02:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 89.5 | 64.2-128 |      | %REC | 1 | 7/7/2015 9:02:00 AM |

**NOTES:**

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).





# Analytical Report

WO#: 1506311

Date Reported: 7/8/2015

Client: PES Environmental, Inc.

Collection Date: 6/25/2015 2:00:00 PM

Project: Bethel Interior

Lab ID: 1506311-020

Matrix: Groundwater

Client Sample ID: SB-11-W

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23397

Analyst: AK

|                                  |       |        |   |      |    |                     |
|----------------------------------|-------|--------|---|------|----|---------------------|
| Dichlorodifluoromethane (CFC-12) | ND    | 1.00   | Q | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Chloromethane                    | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Vinyl chloride                   | 0.706 | 0.200  | Q | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Bromomethane                     | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Chloroethane                     | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 1,1-Dichloroethene               | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Methylene chloride               | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| trans-1,2-Dichloroethene         | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 1,1-Dichloroethane               | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 2,2-Dichloropropane              | ND    | 2.00   | Q | µg/L | 1  | 7/7/2015 4:40:00 PM |
| cis-1,2-Dichloroethene           | 61.6  | 10.0   | D | µg/L | 10 | 7/8/2015 7:38:00 AM |
| Chloroform                       | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 1,1-Dichloropropene              | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Carbon tetrachloride             | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 1,2-Dichloroethane (EDC)         | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Benzene                          | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Trichloroethene (TCE)            | ND    | 0.500  |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 1,2-Dichloropropane              | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Bromodichloromethane             | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Dibromomethane                   | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| cis-1,3-Dichloropropene          | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Toluene                          | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| trans-1,3-Dichloropropene        | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 1,1,2-Trichloroethane            | ND    | 1.00   | Q | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 1,3-Dichloropropane              | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Tetrachloroethene (PCE)          | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Dibromochloromethane             | ND    | 1.00   | Q | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 1,2-Dibromoethane (EDB)          | ND    | 0.0600 |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Chlorobenzene                    | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Ethylbenzene                     | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| m,p-Xylene                       | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| o-Xylene                         | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Styrene                          | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Isopropylbenzene                 | ND    | 1.00   |   | µg/L | 1  | 7/7/2015 4:40:00 PM |
| Bromoform                        | ND    | 1.00   | Q | µg/L | 1  | 7/7/2015 4:40:00 PM |

*JK 8/28/15*



Client: PES Environmental, Inc.

Collection Date: 6/25/2015 2:00:00 PM

Project: Bethel Interior

Matrix: Groundwater

Lab ID: 1506311-020

Client Sample ID: SB-11-W

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23397

Analyst: AK

|                               |      |          |   |      |   |                     |
|-------------------------------|------|----------|---|------|---|---------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| n-Propylbenzene               | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| Bromobenzene                  | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 2-Chlorotoluene               | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 4-Chlorotoluene               | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| tert-Butylbenzene             | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 1,2,3-Trichloropropane        | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 2.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| sec-Butylbenzene              | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 4-Isopropyltoluene            | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 1,3-Dichlorobenzene           | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 1,4-Dichlorobenzene           | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| n-Butylbenzene                | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 1,2-Dichlorobenzene           | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 1.00     | Q | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| Hexachlorobutadiene           | ND   | 4.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| Naphthalene                   | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 4.00     |   | µg/L | 1 | 7/7/2015 4:40:00 PM |
| Surr: Dibromofluoromethane    | 102  | 77.4-147 |   | %REC | 1 | 7/7/2015 4:40:00 PM |
| Surr: Toluene-d8              | 93.5 | 40.1-139 |   | %REC | 1 | 7/7/2015 4:40:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 106  | 64.2-128 |   | %REC | 1 | 7/7/2015 4:40:00 PM |

**NOTES:**

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

**Ion Chromatography by EPA Method 300.0**

Batch ID: R23285

Analyst: KT

|          |        |   |       |    |      |   |                      |
|----------|--------|---|-------|----|------|---|----------------------|
| Fluoride | 0.0168 | J | 0.200 | JD | mg/L | 2 | 6/29/2015 2:51:00 PM |
|----------|--------|---|-------|----|------|---|----------------------|

**NOTES:**

Sample diluted due to matrix.

*Jc 8/28/15*



# Analytical Report

WO#: 1506311  
Date Reported: 7/8/2015

Client: PES Environmental, Inc.

Collection Date: 6/25/2015 2:10:00 PM

Project: Bethel Interior

Matrix: Groundwater

Lab ID: 1506311-021

Client Sample ID: SB-10-W

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23397 Analyst: AK

|                                  |      |        |   |      |   |                     |
|----------------------------------|------|--------|---|------|---|---------------------|
| Dichlorodifluoromethane (CFC-12) | ND   | 1.00   | Q | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Chloromethane                    | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Vinyl chloride                   | ND   | 0.200  |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Bromomethane                     | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Chloroethane                     | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,1-Dichloroethene               | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Methylene chloride               | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| trans-1,2-Dichloroethene         | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,1-Dichloroethane               | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 2,2-Dichloropropane              | ND   | 2.00   | Q | µg/L | 1 | 7/7/2015 5:38:00 PM |
| cis-1,2-Dichloroethene           | 18.3 | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Chloroform                       | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,1-Dichloropropene              | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Carbon tetrachloride             | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,2-Dichloroethane (EDC)         | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Benzene                          | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Trichloroethene (TCE)            | ND   | 0.500  |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,2-Dichloropropane              | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Bromodichloromethane             | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Dibromomethane                   | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| cis-1,3-Dichloropropene          | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Toluene                          | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| trans-1,3-Dichloropropene        | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,1,2-Trichloroethane            | ND   | 1.00   | Q | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,3-Dichloropropane              | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Tetrachloroethene (PCE)          | 1.52 | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Dibromochloromethane             | ND   | 1.00   | Q | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,2-Dibromoethane (EDB)          | ND   | 0.0600 |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Chlorobenzene                    | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Ethylbenzene                     | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| m,p-Xylene                       | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| o-Xylene                         | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Styrene                          | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Isopropylbenzene                 | ND   | 1.00   |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Bromoform                        | ND   | 1.00   | Q | µg/L | 1 | 7/7/2015 5:38:00 PM |

*JC 8/28/15*



Client: PES Environmental, Inc.

Collection Date: 6/25/2015 2:10:00 PM

Project: Bethel Interior

Lab ID: 1506311-021

Matrix: Groundwater

Client Sample ID: SB-10-W

Analyses Result RL Qual Units DF Date Analyzed

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23397

Analyst: AK

|                               |     |          |   |      |   |                     |
|-------------------------------|-----|----------|---|------|---|---------------------|
| 1,1,2,2-Tetrachloroethane     | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| n-Propylbenzene               | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Bromobenzene                  | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,3,5-Trimethylbenzene        | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 2-Chlorotoluene               | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 4-Chlorotoluene               | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| tert-Butylbenzene             | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,2,3-Trichloropropane        | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,2,4-Trichlorobenzene        | ND  | 2.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| sec-Butylbenzene              | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 4-Isopropyltoluene            | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,3-Dichlorobenzene           | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,4-Dichlorobenzene           | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| n-Butylbenzene                | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,2-Dichlorobenzene           | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND  | 1.00     | Q | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,2,4-Trimethylbenzene        | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Hexachlorobutadiene           | ND  | 4.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Naphthalene                   | ND  | 1.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| 1,2,3-Trichlorobenzene        | ND  | 4.00     |   | µg/L | 1 | 7/7/2015 5:38:00 PM |
| Surr: Dibromofluoromethane    | 102 | 77.4-147 |   | %REC | 1 | 7/7/2015 5:38:00 PM |
| Surr: Toluene-d8              | 102 | 40.1-139 |   | %REC | 1 | 7/7/2015 5:38:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 119 | 64.2-128 |   | %REC | 1 | 7/7/2015 5:38:00 PM |

**NOTES:**

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

*gc 8/28/15*



# Analytical Report

WO#: 1506311  
Date Reported: 7/8/2015

Client: PES Environmental, Inc.

Collection Date: 6/25/2015 3:20:00 PM

Project: Bethel Interior

Lab ID: 1506311-022

Matrix: Groundwater

Client Sample ID: SB-13-W

Analyses Result RL Qual Units DF Date Analyzed

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23397

Analyst: AK

| Analyses                         | Result         | RL     | Qual     | Units | DF | Date Analyzed       |
|----------------------------------|----------------|--------|----------|-------|----|---------------------|
| Dichlorodifluoromethane (CFC-12) | ND <i>UJ</i>   | 1.00   | Q        | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| Chloromethane                    | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| Vinyl chloride                   | 0.658 <i>J</i> | 0.200  | <i>Q</i> | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| Bromomethane                     | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| Chloroethane                     | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| 1,1-Dichloroethene               | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| Methylene chloride               | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| trans-1,2-Dichloroethene         | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| 1,1-Dichloroethane               | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| 2,2-Dichloropropane              | ND <i>UJ</i>   | 2.00   | Q        | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| cis-1,2-Dichloroethene           | 37.3           | 10.0   | D        | µg/L  | 10 | 7/8/2015 8:06:00 AM |
| Chloroform                       | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| 1,1-Dichloropropene              | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| Carbon tetrachloride             | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| 1,2-Dichloroethane (EDC)         | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| Benzene                          | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| Trichloroethene (TCE)            | ND             | 0.500  |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| 1,2-Dichloropropane              | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| Bromodichloromethane             | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| Dibromomethane                   | ND <i>UJ</i>   | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| cis-1,3-Dichloropropene          | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| Toluene                          | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| trans-1,3-Dichloropropene        | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| 1,1,2-Trichloroethane            | ND <i>UJ</i>   | 1.00   | Q        | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| 1,3-Dichloropropane              | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| Tetrachloroethene (PCE)          | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| Dibromochloromethane             | ND <i>UJ</i>   | 1.00   | Q        | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| 1,2-Dibromoethane (EDB)          | ND             | 0.0600 |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| Chlorobenzene                    | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| Ethylbenzene                     | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| m,p-Xylene                       | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| o-Xylene                         | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| Styrene                          | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| Isopropylbenzene                 | ND             | 1.00   |          | µg/L  | 1  | 7/7/2015 6:07:00 PM |
| Bromoform                        | ND <i>UJ</i>   | 1.00   | Q        | µg/L  | 1  | 7/7/2015 6:07:00 PM |

*gc 9/9/15*

*gc 8/28/15*



# Analytical Report

WO#: 1506311  
Date Reported: 7/8/2015

Client: PES Environmental, Inc.

Collection Date: 6/25/2015 3:20:00 PM

Project: Bethel Interior

Lab ID: 1506311-022

Matrix: Groundwater

Client Sample ID: SB-13-W

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23397 Analyst: AK

|                               |      |          |   |      |   |                     |
|-------------------------------|------|----------|---|------|---|---------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| n-Propylbenzene               | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| Bromobenzene                  | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 2-Chlorotoluene               | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 4-Chlorotoluene               | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| tert-Butylbenzene             | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 1,2,3-Trichloropropane        | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 2.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| sec-Butylbenzene              | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 4-Isopropyltoluene            | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 1,3-Dichlorobenzene           | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 1,4-Dichlorobenzene           | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| n-Butylbenzene                | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 1,2-Dichlorobenzene           | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 1.00     | Q | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| Hexachlorobutadiene           | ND   | 4.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| Naphthalene                   | ND   | 1.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 4.00     |   | µg/L | 1 | 7/7/2015 6:07:00 PM |
| Surr: Dibromofluoromethane    | 103  | 77.4-147 |   | %REC | 1 | 7/7/2015 6:07:00 PM |
| Surr: Toluene-d8              | 101  | 40.1-139 |   | %REC | 1 | 7/7/2015 6:07:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 95.9 | 64.2-128 |   | %REC | 1 | 7/7/2015 6:07:00 PM |

**NOTES:**

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

*JC*  
*8/28/15*



3600 Fremont Ave. N.  
Seattle, WA 98103  
T: (206) 352-3790  
F: (206) 352-7178  
info@fremontanalytical.com

**PES Environmental, Inc.**  
Brian O'Neal  
1215 Fourth Avenue, Suite 1350  
Seattle, WA 98161

**RE: Bethel Junction Phase II**  
**Lab ID: 1507069**

July 13, 2015

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 5 sample(s) on 7/8/2015 for the analyses presented in the following report.

***Sample Moisture (Percent Moisture)***  
***Volatile Organic Compounds by EPA Method 8260***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Chelsea Ward".

Chelsea Ward  
Project Manager

**CC:**  
Kelly Rankich



Date: 07/13/2015

---

**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II  
**Lab Order:** 1507069

## Work Order Sample Summary

---

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 1507069-001   | Trench-1-1       | 07/06/2015 12:20 PM | 07/08/2015 2:22 PM |
| 1507069-002   | Trench-2-4       | 07/06/2015 12:30 PM | 07/08/2015 2:22 PM |
| 1507069-003   | Trench-3-1       | 07/06/2015 5:10 PM  | 07/08/2015 2:22 PM |
| 1507069-004   | Trench-4-4       | 07/06/2015 5:20 PM  | 07/08/2015 2:22 PM |
| 1507069-005   | Trench-5-4       | 07/06/2015 5:30 PM  | 07/08/2015 2:22 PM |

---

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned



**CLIENT:** PES Environmental, Inc.

**Project:** Bethel Junction Phase II

---

**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

## Qualifiers:

- \* - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below LOQ
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit

## Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



# Analytical Report

WO#: 1507069

Date Reported: 7/13/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/6/2015 12:20:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507069-001

**Matrix:** Soil

**Client Sample ID:** Trench-1-1

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11271

Analyst: BC

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| Vinyl chloride                | ND   | 0.00216  |  | mg/Kg-dry | 1 | 7/10/2015 8:17:00 AM |
| trans-1,2-Dichloroethene      | ND   | 0.0216   |  | mg/Kg-dry | 1 | 7/10/2015 8:17:00 AM |
| cis-1,2-Dichloroethene        | ND   | 0.0216   |  | mg/Kg-dry | 1 | 7/10/2015 8:17:00 AM |
| Trichloroethene (TCE)         | ND   | 0.0216   |  | mg/Kg-dry | 1 | 7/10/2015 8:17:00 AM |
| Tetrachloroethene (PCE)       | ND   | 0.0216   |  | mg/Kg-dry | 1 | 7/10/2015 8:17:00 AM |
| Surr: Dibromofluoromethane    | 86.5 | 63.7-129 |  | %REC      | 1 | 7/10/2015 8:17:00 AM |
| Surr: Toluene-d8              | 85.7 | 64.3-131 |  | %REC      | 1 | 7/10/2015 8:17:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 94.4 | 63.1-141 |  | %REC      | 1 | 7/10/2015 8:17:00 AM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23462

Analyst: SL

|                  |      |       |  |     |   |                     |
|------------------|------|-------|--|-----|---|---------------------|
| Percent Moisture | 11.9 | 0.500 |  | wt% | 1 | 7/9/2015 3:20:42 PM |
|------------------|------|-------|--|-----|---|---------------------|



# Analytical Report

WO#: 1507069

Date Reported: 7/13/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/6/2015 12:30:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507069-002

**Matrix:** Soil

**Client Sample ID:** Trench-2-4

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11271

Analyst: BC

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| Vinyl chloride                | ND   | 0.00206  |  | mg/Kg-dry | 1 | 7/10/2015 9:14:00 AM |
| trans-1,2-Dichloroethene      | ND   | 0.0206   |  | mg/Kg-dry | 1 | 7/10/2015 9:14:00 AM |
| cis-1,2-Dichloroethene        | ND   | 0.0206   |  | mg/Kg-dry | 1 | 7/10/2015 9:14:00 AM |
| Trichloroethene (TCE)         | ND   | 0.0206   |  | mg/Kg-dry | 1 | 7/10/2015 9:14:00 AM |
| Tetrachloroethene (PCE)       | ND   | 0.0206   |  | mg/Kg-dry | 1 | 7/10/2015 9:14:00 AM |
| Surr: Dibromofluoromethane    | 85.9 | 63.7-129 |  | %REC      | 1 | 7/10/2015 9:14:00 AM |
| Surr: Toluene-d8              | 88.0 | 64.3-131 |  | %REC      | 1 | 7/10/2015 9:14:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 95.1 | 63.1-141 |  | %REC      | 1 | 7/10/2015 9:14:00 AM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23462

Analyst: SL

|                  |      |       |  |     |   |                     |
|------------------|------|-------|--|-----|---|---------------------|
| Percent Moisture | 12.1 | 0.500 |  | wt% | 1 | 7/9/2015 3:20:42 PM |
|------------------|------|-------|--|-----|---|---------------------|



# Analytical Report

WO#: 1507069

Date Reported: 7/13/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/6/2015 5:10:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507069-003

**Matrix:** Soil

**Client Sample ID:** Trench-3-1

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11271

Analyst: BC

|                               |        |          |  |           |   |                      |
|-------------------------------|--------|----------|--|-----------|---|----------------------|
| Vinyl chloride                | ND     | 0.00202  |  | mg/Kg-dry | 1 | 7/10/2015 9:43:00 AM |
| trans-1,2-Dichloroethene      | ND     | 0.0202   |  | mg/Kg-dry | 1 | 7/10/2015 9:43:00 AM |
| cis-1,2-Dichloroethene        | ND     | 0.0202   |  | mg/Kg-dry | 1 | 7/10/2015 9:43:00 AM |
| Trichloroethene (TCE)         | 0.0712 | 0.0202   |  | mg/Kg-dry | 1 | 7/10/2015 9:43:00 AM |
| Tetrachloroethene (PCE)       | 0.147  | 0.0202   |  | mg/Kg-dry | 1 | 7/10/2015 9:43:00 AM |
| Surr: Dibromofluoromethane    | 85.2   | 63.7-129 |  | %REC      | 1 | 7/10/2015 9:43:00 AM |
| Surr: Toluene-d8              | 88.3   | 64.3-131 |  | %REC      | 1 | 7/10/2015 9:43:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 94.4   | 63.1-141 |  | %REC      | 1 | 7/10/2015 9:43:00 AM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23462

Analyst: SL

|                  |      |       |  |     |   |                     |
|------------------|------|-------|--|-----|---|---------------------|
| Percent Moisture | 8.59 | 0.500 |  | wt% | 1 | 7/9/2015 3:20:42 PM |
|------------------|------|-------|--|-----|---|---------------------|



# Analytical Report

WO#: 1507069

Date Reported: 7/13/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/6/2015 5:20:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507069-004

**Matrix:** Soil

**Client Sample ID:** Trench-4-4

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11271

Analyst: BC

|                               |        |          |  |           |   |                       |
|-------------------------------|--------|----------|--|-----------|---|-----------------------|
| Vinyl chloride                | ND     | 0.00216  |  | mg/Kg-dry | 1 | 7/10/2015 10:40:00 AM |
| trans-1,2-Dichloroethene      | ND     | 0.0216   |  | mg/Kg-dry | 1 | 7/10/2015 10:40:00 AM |
| cis-1,2-Dichloroethene        | 0.0598 | 0.0216   |  | mg/Kg-dry | 1 | 7/10/2015 10:40:00 AM |
| Trichloroethene (TCE)         | 0.0345 | 0.0216   |  | mg/Kg-dry | 1 | 7/10/2015 10:40:00 AM |
| Tetrachloroethene (PCE)       | ND     | 0.0216   |  | mg/Kg-dry | 1 | 7/10/2015 10:40:00 AM |
| Surr: Dibromofluoromethane    | 88.4   | 63.7-129 |  | %REC      | 1 | 7/10/2015 10:40:00 AM |
| Surr: Toluene-d8              | 86.8   | 64.3-131 |  | %REC      | 1 | 7/10/2015 10:40:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 95.5   | 63.1-141 |  | %REC      | 1 | 7/10/2015 10:40:00 AM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23462

Analyst: SL

|                  |      |       |  |     |   |                     |
|------------------|------|-------|--|-----|---|---------------------|
| Percent Moisture | 15.1 | 0.500 |  | wt% | 1 | 7/9/2015 3:20:42 PM |
|------------------|------|-------|--|-----|---|---------------------|



# Analytical Report

WO#: 1507069

Date Reported: 7/13/2015

**Client:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II  
**Lab ID:** 1507069-005  
**Client Sample ID:** Trench-5-4

**Collection Date:** 7/6/2015 5:30:00 PM  
**Matrix:** Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11271      Analyst: BC

|                               |       |          |  |           |   |                       |
|-------------------------------|-------|----------|--|-----------|---|-----------------------|
| Vinyl chloride                | ND    | 0.00218  |  | mg/Kg-dry | 1 | 7/10/2015 11:08:00 AM |
| trans-1,2-Dichloroethene      | ND    | 0.0218   |  | mg/Kg-dry | 1 | 7/10/2015 11:08:00 AM |
| cis-1,2-Dichloroethene        | 0.300 | 0.0218   |  | mg/Kg-dry | 1 | 7/10/2015 11:08:00 AM |
| Trichloroethene (TCE)         | 0.507 | 0.0218   |  | mg/Kg-dry | 1 | 7/10/2015 11:08:00 AM |
| Tetrachloroethene (PCE)       | 0.131 | 0.0218   |  | mg/Kg-dry | 1 | 7/10/2015 11:08:00 AM |
| Surr: Dibromofluoromethane    | 86.4  | 63.7-129 |  | %REC      | 1 | 7/10/2015 11:08:00 AM |
| Surr: Toluene-d8              | 89.7  | 64.3-131 |  | %REC      | 1 | 7/10/2015 11:08:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 93.0  | 63.1-141 |  | %REC      | 1 | 7/10/2015 11:08:00 AM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23462      Analyst: SL

|                  |      |       |  |     |   |                     |
|------------------|------|-------|--|-----|---|---------------------|
| Percent Moisture | 14.1 | 0.500 |  | wt% | 1 | 7/9/2015 3:20:42 PM |
|------------------|------|-------|--|-----|---|---------------------|



**Work Order:** 1507069  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID <b>1507041-001BDUP</b> | SampType: <b>DUP</b>   | Units: <b>mg/Kg-dry</b> | Prep Date: <b>7/9/2015</b>      | RunNo: <b>23474</b>  |      |          |           |             |      |          |      |
|----------------------------------|------------------------|-------------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>BATCH</b>          | Batch ID: <b>11271</b> |                         | Analysis Date: <b>7/10/2015</b> | SeqNo: <b>444808</b> |      |          |           |             |      |          |      |
| Analyte                          | Result                 | RL                      | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Vinyl chloride                   | ND                     | 0.00292                 |                                 |                      |      |          |           | 0           |      | 30       |      |
| trans-1,2-Dichloroethene         | ND                     | 0.0292                  |                                 |                      |      |          |           | 0           |      | 30       |      |
| cis-1,2-Dichloroethene           | ND                     | 0.0292                  |                                 |                      |      |          |           | 0           |      | 30       |      |
| Trichloroethene (TCE)            | ND                     | 0.0292                  |                                 |                      |      |          |           | 0           |      | 30       |      |
| Tetrachloroethene (PCE)          | ND                     | 0.0292                  |                                 |                      |      |          |           | 0           |      | 30       |      |
| Surr: Dibromofluoromethane       | 1.58                   |                         | 1.825                           |                      | 86.8 | 63.7     | 129       |             | 0    |          |      |
| Surr: Toluene-d8                 | 1.58                   |                         | 1.825                           |                      | 86.5 | 64.3     | 131       |             | 0    |          |      |
| Surr: 1-Bromo-4-fluorobenzene    | 1.76                   |                         | 1.825                           |                      | 96.6 | 63.1     | 141       |             | 0    |          |      |

| Sample ID <b>1507057-002BMS</b> | SampType: <b>MS</b>    | Units: <b>mg/Kg-dry</b> | Prep Date: <b>7/9/2015</b>      | RunNo: <b>23474</b>  |      |          |           |             |      |          |      |
|---------------------------------|------------------------|-------------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>BATCH</b>         | Batch ID: <b>11271</b> |                         | Analysis Date: <b>7/10/2015</b> | SeqNo: <b>444812</b> |      |          |           |             |      |          |      |
| Analyte                         | Result                 | RL                      | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Vinyl chloride                  | 0.926                  | 0.00229                 | 1.145                           | 0                    | 80.9 | 51.2     | 146       |             |      |          |      |
| trans-1,2-Dichloroethene        | 1.21                   | 0.0229                  | 1.145                           | 0                    | 106  | 52       | 136       |             |      |          |      |
| cis-1,2-Dichloroethene          | 1.14                   | 0.0229                  | 1.145                           | 0                    | 99.3 | 58.6     | 136       |             |      |          |      |
| Trichloroethene (TCE)           | 1.05                   | 0.0229                  | 1.145                           | 0                    | 92.0 | 68.6     | 132       |             |      |          |      |
| Tetrachloroethene (PCE)         | 1.07                   | 0.0229                  | 1.145                           | 0                    | 93.3 | 35.6     | 158       |             |      |          |      |
| Surr: Dibromofluoromethane      | 1.36                   |                         | 1.432                           |                      | 95.2 | 63.7     | 129       |             |      |          |      |
| Surr: Toluene-d8                | 1.24                   |                         | 1.432                           |                      | 86.5 | 64.3     | 131       |             |      |          |      |
| Surr: 1-Bromo-4-fluorobenzene   | 1.45                   |                         | 1.432                           |                      | 101  | 63.1     | 141       |             |      |          |      |

| Sample ID <b>LCS-11271</b> | SampType: <b>LCS</b>   | Units: <b>mg/Kg</b> | Prep Date: <b>7/9/2015</b>     | RunNo: <b>23474</b>  |      |          |           |             |      |          |      |
|----------------------------|------------------------|---------------------|--------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>LCSS</b>     | Batch ID: <b>11271</b> |                     | Analysis Date: <b>7/9/2015</b> | SeqNo: <b>444842</b> |      |          |           |             |      |          |      |
| Analyte                    | Result                 | RL                  | SPK value                      | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Vinyl chloride             | 0.736                  | 0.00200             | 1.000                          | 0                    | 73.6 | 56.1     | 130       |             |      |          |      |
| trans-1,2-Dichloroethene   | 1.01                   | 0.0200              | 1.000                          | 0                    | 101  | 68       | 130       |             |      |          |      |
| cis-1,2-Dichloroethene     | 0.986                  | 0.0200              | 1.000                          | 0                    | 98.6 | 71.3     | 135       |             |      |          |      |
| Trichloroethene (TCE)      | 0.897                  | 0.0200              | 1.000                          | 0                    | 89.7 | 65.5     | 137       |             |      |          |      |



**Work Order:** 1507069  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID <b>LCS-11271</b> | SampType: <b>LCS</b>   | Units: <b>mg/Kg</b> | Prep Date: <b>7/9/2015</b>     | RunNo: <b>23474</b>  |      |          |           |             |      |          |      |
|----------------------------|------------------------|---------------------|--------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>LCSS</b>     | Batch ID: <b>11271</b> |                     | Analysis Date: <b>7/9/2015</b> | SeqNo: <b>444842</b> |      |          |           |             |      |          |      |
| Analyte                    | Result                 | RL                  | SPK value                      | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                               |       |        |       |   |      |      |     |  |  |  |  |
|-------------------------------|-------|--------|-------|---|------|------|-----|--|--|--|--|
| Tetrachloroethene (PCE)       | 0.895 | 0.0200 | 1.000 | 0 | 89.5 | 52.7 | 150 |  |  |  |  |
| Surr: Dibromofluoromethane    | 1.25  |        | 1.250 |   | 99.9 | 63.7 | 129 |  |  |  |  |
| Surr: Toluene-d8              | 1.13  |        | 1.250 |   | 90.0 | 64.3 | 131 |  |  |  |  |
| Surr: 1-Bromo-4-fluorobenzene | 1.24  |        | 1.250 |   | 99.0 | 63.1 | 141 |  |  |  |  |

| Sample ID <b>MB-11271</b> | SampType: <b>MBLK</b>  | Units: <b>mg/Kg</b> | Prep Date: <b>7/9/2015</b>     | RunNo: <b>23474</b>  |      |          |           |             |      |          |      |
|---------------------------|------------------------|---------------------|--------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>MBLKS</b>   | Batch ID: <b>11271</b> |                     | Analysis Date: <b>7/9/2015</b> | SeqNo: <b>444844</b> |      |          |           |             |      |          |      |
| Analyte                   | Result                 | RL                  | SPK value                      | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                               |      |         |       |  |      |      |     |  |  |  |  |
|-------------------------------|------|---------|-------|--|------|------|-----|--|--|--|--|
| Vinyl chloride                | ND   | 0.00200 |       |  |      |      |     |  |  |  |  |
| trans-1,2-Dichloroethene      | ND   | 0.0200  |       |  |      |      |     |  |  |  |  |
| cis-1,2-Dichloroethene        | ND   | 0.0200  |       |  |      |      |     |  |  |  |  |
| Trichloroethene (TCE)         | ND   | 0.0200  |       |  |      |      |     |  |  |  |  |
| Tetrachloroethene (PCE)       | ND   | 0.0200  |       |  |      |      |     |  |  |  |  |
| Surr: Dibromofluoromethane    | 1.17 |         | 1.250 |  | 93.5 | 63.7 | 129 |  |  |  |  |
| Surr: Toluene-d8              | 1.11 |         | 1.250 |  | 88.9 | 64.3 | 131 |  |  |  |  |
| Surr: 1-Bromo-4-fluorobenzene | 1.16 |         | 1.250 |  | 92.8 | 63.1 | 141 |  |  |  |  |

Client Name: **PES**  
 Logged by: **Erica Silva**

Work Order Number: **1507069**  
 Date Received: **7/8/2015 2:22:00 PM**

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present   
 2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes  No  NA   
 4. Shipping container/cooler in good condition? Yes  No   
 5. Custody Seals present on shipping container/cooler?  
 (Refer to comments for Custody Seals not intact) Yes  No  Not Required   
 6. Was an attempt made to cool the samples? Yes  No  NA   
 7. Were all items received at a temperature of >0°C to 10.0°C \* Yes  No  NA   
 8. Sample(s) in proper container(s)? Yes  No   
 9. Sufficient sample volume for indicated test(s)? Yes  No   
 10. Are samples properly preserved? Yes  No   
 11. Was preservative added to bottles? Yes  No  NA   
 12. Is there headspace in the VOA vials? Yes  No  NA   
 13. Did all samples containers arrive in good condition(unbroken)? Yes  No   
 14. Does paperwork match bottle labels? Yes  No   
 15. Are matrices correctly identified on Chain of Custody? Yes  No   
 16. Is it clear what analyses were requested? Yes  No   
 17. Were all holding times able to be met? Yes  No

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes  No  NA

|                      |                      |       |   |
|----------------------|----------------------|-------|---|
| Person Notified:     | <input type="text"/> | Date: | <input type="text"/>  |
| By Whom:             | <input type="text"/> | Via:  | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding:           | <input type="text"/> |       |   |
| Client Instructions: | <input type="text"/> |       |   |

19. Additional remarks:

### Item Information

| Item # | Temp °C |
|--------|---------|
| Cooler | 7.5     |
| Sample | 2.3     |



# Fremont Analytical

## Chain of Custody Record

3600 Fremont Ave N, Seattle, WA 98103

Tel: 206-352-3790 Fax: 206-352-7178

Date: 7-6-15 Laboratory Project No (Internal): 1507069

Client: PES Environmental Inc.  
Address: 1215 4th Ave. Suite 1350  
City, State, Zip: Seattle WA 98161  
Tel: (206) 539-3980 Fax: (206) 539-3985

Project Name: Bethel Junction Phase II  
Project No: 126.03402.001  
Location: Part Orchard Int  
Reports To (PM): E. O'neal/K. Burkhardt  
Email: kran.kyd@peinc.com  
Collected by: C. Weber

\*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water, SW = Stream Water

| Sample Name  | Sample Date | Sample Time | Sample Type (Matrix)* | Analytes       |         |      |                              |                                   |                                      |                     |                      |                 |                         |                           | Comments/Depth |                |
|--------------|-------------|-------------|-----------------------|----------------|---------|------|------------------------------|-----------------------------------|--------------------------------------|---------------------|----------------------|-----------------|-------------------------|---------------------------|----------------|----------------|
|              |             |             |                       | VOC (EPA 8260) | GX/BTEX | BTEX | Gasoline Range Organics (GX) | Hydrocarbon Identification (HCID) | Diesel/Heavy Oil Range Organics (GX) | SEMI VOL (EPA 8270) | PAH (EPA 8270 - SIM) | PCBs (EPA 8082) | Metals** (6020 / 200.9) | Total (T)   Dissolved (D) |                | Anions (IC)*** |
| 1 Trench-1-1 | 7-6-15      | 1200        | S                     | X              | X       | X    | X                            | X                                 | X                                    | X                   | X                    | X               | X                       | X                         | X              |                |
| 2 Trench-2-4 |             | 1230        |                       |                |         |      |                              |                                   |                                      |                     |                      |                 |                         |                           |                |                |
| 3 Trench-3-1 |             | 1710        |                       |                |         |      |                              |                                   |                                      |                     |                      |                 |                         |                           |                |                |
| 4 Trench-4-4 |             | 1720        |                       |                |         |      |                              |                                   |                                      |                     |                      |                 |                         |                           |                |                |
| 5 Trench-5-4 |             | 1730        |                       |                |         |      |                              |                                   |                                      |                     |                      |                 |                         |                           |                |                |
| 6            |             |             |                       |                |         |      |                              |                                   |                                      |                     |                      |                 |                         |                           |                |                |
| 7            |             |             |                       |                |         |      |                              |                                   |                                      |                     |                      |                 |                         |                           |                |                |
| 8            |             |             |                       |                |         |      |                              |                                   |                                      |                     |                      |                 |                         |                           |                |                |
| 9            |             |             |                       |                |         |      |                              |                                   |                                      |                     |                      |                 |                         |                           |                |                |
| 10           |             |             |                       |                |         |      |                              |                                   |                                      |                     |                      |                 |                         |                           |                |                |

\*\*Metals Analysis (Circle): MTCAs-5 RCRA-8 Priority Pollutants TRL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

\*\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite  
Turn-around times for samples received after 4:00pm will begin on the following business day.

Sample Disposal:  Return to Client  Disposal by Lab (A fee may be assessed. Samples are retained after 30 days.)  
Special Remarks: \*PE, TCE, cis/trans-DCE, VC

Reinquinshed: Date/Time 7-8-15 1400 Received: Date/Time 07/08/15 14:22  
Reinquinshed: Date/Time Received: Date/Time  
X Chris Weber X Paul Weber  
X X

TAT -> SameDay NextDay 2 Day 3 Day STD  
\*Please coordinate with the lab in advance  
www.fremontanalytical.com

## MEMORANDUM

**TO:** Project File **DATE:** August 26, 2015  
**FROM:** Jessie Compeau **PROJECT:** 1246.030.02.002  
**SUBJECT:** Bethel Junction, Soil Sample Data Review – July 6, 2015 Sampling Event  
Fremont Lab Packages 1507069

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Five (5) soil samples were collected as part of a Phase 2 Investigation at the Bethel Junction in Port Orchard, Washington, on July 6, 2015. The samples were delivered to Fremont Analytical (Fremont) of Seattle, Washington for laboratory analysis. Project samples were analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C. The results were reported in Fremont Lab Package 1507069.

The quality assurance review of the data is summarized below.

### DATA QUALIFICATIONS

Guidelines established by the USEPA for review of analytical data were used to validate the data. Fremont Analytical control limit criteria were also used to assess the quality of the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the laboratory report and USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA, 1999).

### DATA VALIDATION

#### **Sample Receipt, Preservation and Handling**

The samples were delivered to the project laboratory in coolers under standard chain-of-custody protocols. Review of Fremont's Sample Log-In Check List Form indicates that all samples were received in good condition at a cooler temperature of 7.5 degrees Centigrade (°C). Samples in the cooler were recorded at a temperature of 2.3°C within the recommended preservation temperature range of 4.0°C ± 2.0°C. The sample receipt log indicated that the samples in the coolers were received properly stored in a cooler, preserved, and cooled with ice/gel packs and in good condition at the time of laboratory receipt. No data qualifications were assigned due to temperature preservation issues.

#### **Holding Times**

*USEPA Method 8260C (VOCs):*

All samples were analyzed for VOCs within the EPA recommended holding time of 14 days from the data of sample collection. All holding time criteria were met.

### **Initial and Continuing Calibration**

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. The case narrative did not indicate any issues with calibration; therefore no qualifications were warranted.

### **Method Blank Results**

*USEPA Method 8260C (VOCs):*

Laboratory method blank for soil was included with the analytical batch per method requirement. The target analytes were not detected in the method blank for soil at or above the method reporting limits (MRLs). No qualifications of the data were made due to the results of the method blank analyses.

### **Trip Blank Results**

*USEPA Method 8260C (VOCs):*

A trip blank was not collected.

### **Field, Rinsate, or Equipment Blank Results**

*USEPA Method 8260C (VOCs):*

Field, rinsate, or equipment blanks were not collected.

### **Laboratory Duplicate Analyses**

*USEPA Method 8260C (VOCs):*

Laboratory duplicate analyses was performed on an unrelated soil sample within the analytical batch. The primary/duplicate RPDs were within the laboratory control limit of 30%. Duplicate data are acceptable.

### **Field Duplicate Analyses**

*USEPA Method 8260C (VOCs):*

Soil field duplicate samples were not collected. Refer to the laboratory duplicate result for precision data.

### **Surrogate Recoveries**

*USEPA Method 8260C (VOCs):*

The surrogate recovery results for the samples, laboratory duplicates, laboratory control samples, matrix spikes, and the method blanks were within the laboratory surrogate control limits for all of the analyses.

### **Matrix Spike/ Matrix Spike Duplicates**

*USEPA Method 8260C (VOCs):*

Matrix spike analysis was performed on an unrelated soil sample within the analytical batch.

One MS is required for each sample event (maximum of 20 samples in a group); therefore, the MS analysis meets this required frequency. The MS percent recoveries (%Rs) for all 8260C target analytes were within the laboratory control criteria.

### **Laboratory Control Samples**

*USEPA Method 8260C (VOCs):*

A laboratory control sample (LCS) sample for soil was analyzed by USEPA Method 8260C method for the VOC analysis group. The frequency of analysis of LCSs was appropriate. The LCS %Rs for the control analytes (VOCs) were within the laboratory control criteria for soil. No data qualifications were warranted.

### **Quantitation Limits**

Results of all analyses were reported based on standard laboratory MRLs. The reported MRLs are considered appropriate for this project. No data qualifiers were warranted based upon standard or dilution-elevated detection limits.

### **Completeness**

The samples were collected and analyzed as requested. The results in all cases were reported based upon standard Method Reporting Limits (MRLs). Data completeness is 100%.

### **Data Assessment**

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA, 1999)

No data were qualified. All data are judged to be acceptable for their intended use.



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F: (206) 352-7178

[info@fremontanalytical.com](mailto:info@fremontanalytical.com)

**PES Environmental, Inc.**

Brian O'Neal

1215 Fourth Avenue, Suite 1350

Seattle, WA 98161

**RE: Bethel Junction Phase II**

**Lab ID: 1507095**

July 17, 2015

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 26 sample(s) on 7/10/2015 for the analyses presented in the following report.

***Ion Chromatography by EPA Method 300.0***

***Sample Moisture (Percent Moisture)***

***Volatile Organic Compounds by EPA Method 8260***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Chelsea Ward".

Chelsea Ward  
Project Manager

**CC:**

Kelly Rankich



Date: 07/17/2015

**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II  
**Lab Order:** 1507095

## Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 1507095-001   | SB-16-0.5        | 07/09/2015 9:10 AM  | 07/10/2015 8:08 AM |
| 1507095-002   | SB-16-3          | 07/09/2015 9:15 AM  | 07/10/2015 8:08 AM |
| 1507095-003   | SB-16-6          | 07/09/2015 9:20 AM  | 07/10/2015 8:08 AM |
| 1507095-004   | SB-16-9          | 07/09/2015 9:25 AM  | 07/10/2015 8:08 AM |
| 1507095-005   | SB-16-15         | 07/09/2015 9:30 AM  | 07/10/2015 8:08 AM |
| 1507095-006   | SB-15-0.5        | 07/09/2015 10:05 AM | 07/10/2015 8:08 AM |
| 1507095-007   | SB-15-3          | 07/09/2015 10:10 AM | 07/10/2015 8:08 AM |
| 1507095-008   | SB-15-6          | 07/09/2015 10:15 AM | 07/10/2015 8:08 AM |
| 1507095-009   | SB-15-10.5D      | 07/09/2015 10:20 AM | 07/10/2015 8:08 AM |
| 1507095-010   | SB-15-10.5       | 07/09/2015 10:25 AM | 07/10/2015 8:08 AM |
| 1507095-011   | SB-15-15         | 07/09/2015 10:30 AM | 07/10/2015 8:08 AM |
| 1507095-012   | SB-17-0.5        | 07/09/2015 11:20 AM | 07/10/2015 8:08 AM |
| 1507095-013   | SB-17-3          | 07/09/2015 11:25 AM | 07/10/2015 8:08 AM |
| 1507095-014   | SB-17-6          | 07/09/2015 11:30 AM | 07/10/2015 8:08 AM |
| 1507095-015   | SB-17-9          | 07/09/2015 11:35 AM | 07/10/2015 8:08 AM |
| 1507095-016   | SB-17-14         | 07/09/2015 11:40 AM | 07/10/2015 8:08 AM |
| 1507095-017   | SB-14-0.5        | 07/09/2015 12:25 PM | 07/10/2015 8:08 AM |
| 1507095-018   | SB-14-3          | 07/09/2015 12:30 PM | 07/10/2015 8:08 AM |
| 1507095-019   | SB-14-6          | 07/09/2015 12:35 PM | 07/10/2015 8:08 AM |
| 1507095-020   | SB-14-9          | 07/09/2015 12:45 PM | 07/10/2015 8:08 AM |
| 1507095-021   | SB-14-13         | 07/09/2015 12:45 PM | 07/10/2015 8:08 AM |
| 1507095-022   | SB-15-W          | 07/09/2015 2:00 PM  | 07/10/2015 8:08 AM |
| 1507095-023   | SB-17-W          | 07/09/2015 2:45 PM  | 07/10/2015 8:08 AM |
| 1507095-024   | Drum-W           | 07/09/2015 4:00 PM  | 07/10/2015 8:08 AM |
| 1507095-025   | Trip Blank       | 07/06/2015 1:00 PM  | 07/10/2015 8:08 AM |
| 1507095-026   | Trip Blank       | 07/06/2015 1:45 PM  | 07/10/2015 8:08 AM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned



**CLIENT:** PES Environmental, Inc.

**Project:** Bethel Junction Phase II

---

**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

## Qualifiers:

- \* - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below LOQ
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit

## Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 9:10:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-001

**Matrix:** Soil

**Client Sample ID:** SB-16-0.5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                                  |        |         |  |           |   |                      |
|----------------------------------|--------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND     | 0.0680  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Chloromethane                    | ND     | 0.0680  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Vinyl chloride                   | ND     | 0.00227 |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Bromomethane                     | ND     | 0.102   |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND     | 0.0567  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Chloroethane                     | ND     | 0.0680  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 1,1-Dichloroethene               | ND     | 0.0567  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Methylene chloride               | ND     | 0.0227  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| trans-1,2-Dichloroethene         | ND     | 0.0227  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND     | 0.0567  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 1,1-Dichloroethane               | ND     | 0.0227  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 2,2-Dichloropropane              | ND     | 0.0567  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| cis-1,2-Dichloroethene           | ND     | 0.0227  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Chloroform                       | ND     | 0.0227  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND     | 0.0227  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 1,1-Dichloropropene              | ND     | 0.0227  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Carbon tetrachloride             | ND     | 0.0227  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 1,2-Dichloroethane (EDC)         | ND     | 0.0340  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Benzene                          | ND     | 0.0227  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Trichloroethene (TCE)            | ND     | 0.0227  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 1,2-Dichloropropane              | ND     | 0.0227  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Bromodichloromethane             | ND     | 0.0227  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Dibromomethane                   | ND     | 0.0453  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| cis-1,3-Dichloropropene          | ND     | 0.0227  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Toluene                          | ND     | 0.0227  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| trans-1,3-Dichloropropylene      | ND     | 0.0340  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 1,1,2-Trichloroethane            | ND     | 0.0340  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 1,3-Dichloropropane              | ND     | 0.0567  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Tetrachloroethene (PCE)          | 0.0527 | 0.0227  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Dibromochloromethane             | ND     | 0.0340  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 1,2-Dibromoethane (EDB)          | ND     | 0.00567 |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Chlorobenzene                    | ND     | 0.0227  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND     | 0.0340  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Ethylbenzene                     | ND     | 0.0340  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| m,p-Xylene                       | ND     | 0.0227  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| o-Xylene                         | ND     | 0.0227  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Styrene                          | ND     | 0.0227  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Isopropylbenzene                 | ND     | 0.0907  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Bromoform                        | ND     | 0.0227  |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 9:10:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-001

**Matrix:** Soil

**Client Sample ID:** SB-16-0.5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                               |     |          |  |           |   |                      |
|-------------------------------|-----|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND  | 0.0227   |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| n-Propylbenzene               | ND  | 0.0227   |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Bromobenzene                  | ND  | 0.0340   |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 1,3,5-Trimethylbenzene        | ND  | 0.0227   |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 2-Chlorotoluene               | ND  | 0.0227   |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 4-Chlorotoluene               | ND  | 0.0227   |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| tert-Butylbenzene             | ND  | 0.0227   |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 1,2,3-Trichloropropane        | ND  | 0.0227   |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 1,2,4-Trichlorobenzene        | ND  | 0.0567   |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| sec-Butylbenzene              | ND  | 0.0227   |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 4-Isopropyltoluene            | ND  | 0.0227   |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 1,3-Dichlorobenzene           | ND  | 0.0227   |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 1,4-Dichlorobenzene           | ND  | 0.0227   |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| n-Butylbenzene                | ND  | 0.0227   |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 1,2-Dichlorobenzene           | ND  | 0.0227   |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND  | 0.567    |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 1,2,4-Trimethylbenzene        | ND  | 0.0227   |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Hexachlorobutadiene           | ND  | 0.113    |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Naphthalene                   | ND  | 0.0340   |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| 1,2,3-Trichlorobenzene        | ND  | 0.0227   |  | mg/Kg-dry | 1 | 7/13/2015 6:45:00 PM |
| Surr: Dibromofluoromethane    | 101 | 63.7-129 |  | %REC      | 1 | 7/13/2015 6:45:00 PM |
| Surr: Toluene-d8              | 105 | 64.3-131 |  | %REC      | 1 | 7/13/2015 6:45:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 101 | 63.1-141 |  | %REC      | 1 | 7/13/2015 6:45:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23595

Analyst: SB

|                  |      |       |  |     |   |                      |
|------------------|------|-------|--|-----|---|----------------------|
| Percent Moisture | 5.61 | 0.500 |  | wt% | 1 | 7/16/2015 9:53:54 AM |
|------------------|------|-------|--|-----|---|----------------------|



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 9:15:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-002

**Matrix:** Soil

**Client Sample ID:** SB-16-3

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                                  |        |         |  |           |   |                      |
|----------------------------------|--------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND     | 0.0631  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Chloromethane                    | ND     | 0.0631  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Vinyl chloride                   | ND     | 0.00210 |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Bromomethane                     | ND     | 0.0946  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND     | 0.0526  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Chloroethane                     | ND     | 0.0631  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 1,1-Dichloroethene               | ND     | 0.0526  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Methylene chloride               | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| trans-1,2-Dichloroethene         | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND     | 0.0526  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 1,1-Dichloroethane               | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 2,2-Dichloropropane              | ND     | 0.0526  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| cis-1,2-Dichloroethene           | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Chloroform                       | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 1,1-Dichloropropene              | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Carbon tetrachloride             | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 1,2-Dichloroethane (EDC)         | ND     | 0.0315  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Benzene                          | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Trichloroethene (TCE)            | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 1,2-Dichloropropane              | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Bromodichloromethane             | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Dibromomethane                   | ND     | 0.0421  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| cis-1,3-Dichloropropene          | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Toluene                          | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| trans-1,3-Dichloropropylene      | ND     | 0.0315  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 1,1,2-Trichloroethane            | ND     | 0.0315  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 1,3-Dichloropropane              | ND     | 0.0526  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Tetrachloroethene (PCE)          | 0.0762 | 0.0210  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Dibromochloromethane             | ND     | 0.0315  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 1,2-Dibromoethane (EDB)          | ND     | 0.00526 |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Chlorobenzene                    | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND     | 0.0315  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Ethylbenzene                     | ND     | 0.0315  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| m,p-Xylene                       | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| o-Xylene                         | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Styrene                          | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Isopropylbenzene                 | ND     | 0.0841  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Bromoform                        | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 9:15:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-002

**Matrix:** Soil

**Client Sample ID:** SB-16-3

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| n-Propylbenzene               | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Bromobenzene                  | ND   | 0.0315   |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 2-Chlorotoluene               | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 4-Chlorotoluene               | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| tert-Butylbenzene             | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0526   |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| sec-Butylbenzene              | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| n-Butylbenzene                | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.526    |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Hexachlorobutadiene           | ND   | 0.105    |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Naphthalene                   | ND   | 0.0315   |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/13/2015 7:17:00 PM |
| Surr: Dibromofluoromethane    | 100  | 63.7-129 |  | %REC      | 1 | 7/13/2015 7:17:00 PM |
| Surr: Toluene-d8              | 105  | 64.3-131 |  | %REC      | 1 | 7/13/2015 7:17:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 99.4 | 63.1-141 |  | %REC      | 1 | 7/13/2015 7:17:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23595

Analyst: SB

|                  |      |       |  |     |   |                      |
|------------------|------|-------|--|-----|---|----------------------|
| Percent Moisture | 9.85 | 0.500 |  | wt% | 1 | 7/16/2015 9:53:54 AM |
|------------------|------|-------|--|-----|---|----------------------|



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 9:20:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-003

**Matrix:** Soil

**Client Sample ID:** SB-16-6

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                                  |       |         |  |           |   |                      |
|----------------------------------|-------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND    | 0.0706  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Chloromethane                    | ND    | 0.0706  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Vinyl chloride                   | ND    | 0.00235 |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Bromomethane                     | ND    | 0.106   |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND    | 0.0588  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Chloroethane                     | ND    | 0.0706  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 1,1-Dichloroethene               | ND    | 0.0588  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Methylene chloride               | ND    | 0.0235  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| trans-1,2-Dichloroethene         | ND    | 0.0235  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND    | 0.0588  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 1,1-Dichloroethane               | ND    | 0.0235  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 2,2-Dichloropropane              | ND    | 0.0588  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| cis-1,2-Dichloroethene           | ND    | 0.0235  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Chloroform                       | ND    | 0.0235  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND    | 0.0235  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 1,1-Dichloropropene              | ND    | 0.0235  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Carbon tetrachloride             | ND    | 0.0235  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 1,2-Dichloroethane (EDC)         | ND    | 0.0353  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Benzene                          | ND    | 0.0235  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Trichloroethene (TCE)            | 0.142 | 0.0235  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 1,2-Dichloropropane              | ND    | 0.0235  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Bromodichloromethane             | ND    | 0.0235  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Dibromomethane                   | ND    | 0.0471  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| cis-1,3-Dichloropropene          | ND    | 0.0235  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Toluene                          | ND    | 0.0235  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| trans-1,3-Dichloropropylene      | ND    | 0.0353  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 1,1,2-Trichloroethane            | ND    | 0.0353  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 1,3-Dichloropropane              | ND    | 0.0588  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Tetrachloroethene (PCE)          | 0.572 | 0.0235  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Dibromochloromethane             | ND    | 0.0353  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 1,2-Dibromoethane (EDB)          | ND    | 0.00588 |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Chlorobenzene                    | ND    | 0.0235  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND    | 0.0353  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Ethylbenzene                     | ND    | 0.0353  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| m,p-Xylene                       | ND    | 0.0235  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| o-Xylene                         | ND    | 0.0235  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Styrene                          | ND    | 0.0235  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Isopropylbenzene                 | ND    | 0.0941  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Bromoform                        | ND    | 0.0235  |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 9:20:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-003

**Matrix:** Soil

**Client Sample ID:** SB-16-6

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0235   |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| n-Propylbenzene               | ND   | 0.0235   |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Bromobenzene                  | ND   | 0.0353   |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0235   |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 2-Chlorotoluene               | ND   | 0.0235   |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 4-Chlorotoluene               | ND   | 0.0235   |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| tert-Butylbenzene             | ND   | 0.0235   |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0235   |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0588   |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| sec-Butylbenzene              | ND   | 0.0235   |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0235   |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0235   |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0235   |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| n-Butylbenzene                | ND   | 0.0235   |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0235   |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.588    |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0235   |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Hexachlorobutadiene           | ND   | 0.118    |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Naphthalene                   | ND   | 0.0353   |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0235   |  | mg/Kg-dry | 1 | 7/13/2015 7:49:00 PM |
| Surr: Dibromofluoromethane    | 99.8 | 63.7-129 |  | %REC      | 1 | 7/13/2015 7:49:00 PM |
| Surr: Toluene-d8              | 104  | 64.3-131 |  | %REC      | 1 | 7/13/2015 7:49:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 100  | 63.1-141 |  | %REC      | 1 | 7/13/2015 7:49:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23595

Analyst: SB

|                  |      |       |  |     |   |                      |
|------------------|------|-------|--|-----|---|----------------------|
| Percent Moisture | 10.7 | 0.500 |  | wt% | 1 | 7/16/2015 9:53:54 AM |
|------------------|------|-------|--|-----|---|----------------------|





# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 9:25:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-004

**Matrix:** Soil

**Client Sample ID:** SB-16-9

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                                  |       |         |  |           |   |                      |
|----------------------------------|-------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND    | 0.0601  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Chloromethane                    | ND    | 0.0601  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Vinyl chloride                   | ND    | 0.00200 |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Bromomethane                     | ND    | 0.0901  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND    | 0.0501  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Chloroethane                     | ND    | 0.0601  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 1,1-Dichloroethene               | ND    | 0.0501  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Methylene chloride               | ND    | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| trans-1,2-Dichloroethene         | ND    | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND    | 0.0501  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 1,1-Dichloroethane               | ND    | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 2,2-Dichloropropane              | ND    | 0.0501  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| cis-1,2-Dichloroethene           | 0.194 | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Chloroform                       | ND    | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND    | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 1,1-Dichloropropene              | ND    | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Carbon tetrachloride             | ND    | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 1,2-Dichloroethane (EDC)         | ND    | 0.0300  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Benzene                          | ND    | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Trichloroethene (TCE)            | ND    | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 1,2-Dichloropropane              | ND    | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Bromodichloromethane             | ND    | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Dibromomethane                   | ND    | 0.0401  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| cis-1,3-Dichloropropene          | ND    | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Toluene                          | ND    | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| trans-1,3-Dichloropropylene      | ND    | 0.0300  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 1,1,2-Trichloroethane            | ND    | 0.0300  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 1,3-Dichloropropane              | ND    | 0.0501  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Tetrachloroethene (PCE)          | ND    | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Dibromochloromethane             | ND    | 0.0300  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 1,2-Dibromoethane (EDB)          | ND    | 0.00501 |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Chlorobenzene                    | ND    | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND    | 0.0300  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Ethylbenzene                     | ND    | 0.0300  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| m,p-Xylene                       | ND    | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| o-Xylene                         | ND    | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Styrene                          | ND    | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Isopropylbenzene                 | ND    | 0.0801  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Bromoform                        | ND    | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 9:25:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-004

**Matrix:** Soil

**Client Sample ID:** SB-16-9

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| n-Propylbenzene               | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Bromobenzene                  | ND   | 0.0300   |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 2-Chlorotoluene               | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 4-Chlorotoluene               | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| tert-Butylbenzene             | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0501   |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| sec-Butylbenzene              | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| n-Butylbenzene                | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.501    |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Hexachlorobutadiene           | ND   | 0.100    |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Naphthalene                   | ND   | 0.0300   |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 8:21:00 PM |
| Surr: Dibromofluoromethane    | 98.2 | 63.7-129 |  | %REC      | 1 | 7/13/2015 8:21:00 PM |
| Surr: Toluene-d8              | 103  | 64.3-131 |  | %REC      | 1 | 7/13/2015 8:21:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 97.6 | 63.1-141 |  | %REC      | 1 | 7/13/2015 8:21:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23595

Analyst: SB

|                  |      |       |  |     |   |                      |
|------------------|------|-------|--|-----|---|----------------------|
| Percent Moisture | 12.8 | 0.500 |  | wt% | 1 | 7/16/2015 9:53:54 AM |
|------------------|------|-------|--|-----|---|----------------------|



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 10:05:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-006

**Matrix:** Soil

**Client Sample ID:** SB-15-0.5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                                  |       |         |  |           |   |                      |
|----------------------------------|-------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND    | 0.0866  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Chloromethane                    | ND    | 0.0866  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Vinyl chloride                   | ND    | 0.00289 |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Bromomethane                     | ND    | 0.130   |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND    | 0.0721  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Chloroethane                     | ND    | 0.0866  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 1,1-Dichloroethene               | ND    | 0.0721  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Methylene chloride               | ND    | 0.0289  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| trans-1,2-Dichloroethene         | ND    | 0.0289  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND    | 0.0721  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 1,1-Dichloroethane               | ND    | 0.0289  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 2,2-Dichloropropane              | ND    | 0.0721  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| cis-1,2-Dichloroethene           | ND    | 0.0289  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Chloroform                       | ND    | 0.0289  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND    | 0.0289  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 1,1-Dichloropropene              | ND    | 0.0289  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Carbon tetrachloride             | ND    | 0.0289  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 1,2-Dichloroethane (EDC)         | ND    | 0.0433  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Benzene                          | ND    | 0.0289  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Trichloroethene (TCE)            | ND    | 0.0289  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 1,2-Dichloropropane              | ND    | 0.0289  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Bromodichloromethane             | ND    | 0.0289  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Dibromomethane                   | ND    | 0.0577  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| cis-1,3-Dichloropropene          | ND    | 0.0289  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Toluene                          | ND    | 0.0289  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| trans-1,3-Dichloropropylene      | ND    | 0.0433  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 1,1,2-Trichloroethane            | ND    | 0.0433  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 1,3-Dichloropropane              | ND    | 0.0721  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Tetrachloroethene (PCE)          | 0.104 | 0.0289  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Dibromochloromethane             | ND    | 0.0433  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 1,2-Dibromoethane (EDB)          | ND    | 0.00721 |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Chlorobenzene                    | ND    | 0.0289  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND    | 0.0433  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Ethylbenzene                     | ND    | 0.0433  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| m,p-Xylene                       | ND    | 0.0289  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| o-Xylene                         | ND    | 0.0289  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Styrene                          | ND    | 0.0289  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Isopropylbenzene                 | ND    | 0.115   |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Bromoform                        | ND    | 0.0289  |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 10:05:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-006

**Matrix:** Soil

**Client Sample ID:** SB-15-0.5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0289   |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| n-Propylbenzene               | ND   | 0.0289   |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Bromobenzene                  | ND   | 0.0433   |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0289   |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 2-Chlorotoluene               | ND   | 0.0289   |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 4-Chlorotoluene               | ND   | 0.0289   |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| tert-Butylbenzene             | ND   | 0.0289   |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0289   |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0721   |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| sec-Butylbenzene              | ND   | 0.0289   |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0289   |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0289   |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0289   |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| n-Butylbenzene                | ND   | 0.0289   |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0289   |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.721    |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0289   |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Hexachlorobutadiene           | ND   | 0.144    |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Naphthalene                   | ND   | 0.0433   |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0289   |  | mg/Kg-dry | 1 | 7/13/2015 8:52:00 PM |
| Surr: Dibromofluoromethane    | 97.2 | 63.7-129 |  | %REC      | 1 | 7/13/2015 8:52:00 PM |
| Surr: Toluene-d8              | 104  | 64.3-131 |  | %REC      | 1 | 7/13/2015 8:52:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 98.4 | 63.1-141 |  | %REC      | 1 | 7/13/2015 8:52:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23595

Analyst: SB

|                  |      |       |  |     |   |                      |
|------------------|------|-------|--|-----|---|----------------------|
| Percent Moisture | 20.5 | 0.500 |  | wt% | 1 | 7/16/2015 9:53:54 AM |
|------------------|------|-------|--|-----|---|----------------------|



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 10:10:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-007

**Matrix:** Soil

**Client Sample ID:** SB-15-3

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                                  |        |         |  |           |   |                      |
|----------------------------------|--------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND     | 0.0599  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Chloromethane                    | ND     | 0.0599  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Vinyl chloride                   | ND     | 0.00200 |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Bromomethane                     | ND     | 0.0899  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND     | 0.0499  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Chloroethane                     | ND     | 0.0599  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 1,1-Dichloroethene               | ND     | 0.0499  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Methylene chloride               | ND     | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| trans-1,2-Dichloroethene         | ND     | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND     | 0.0499  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 1,1-Dichloroethane               | ND     | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 2,2-Dichloropropane              | ND     | 0.0499  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| cis-1,2-Dichloroethene           | 0.0584 | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Chloroform                       | ND     | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND     | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 1,1-Dichloropropene              | ND     | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Carbon tetrachloride             | ND     | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 1,2-Dichloroethane (EDC)         | ND     | 0.0300  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Benzene                          | ND     | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Trichloroethene (TCE)            | 0.126  | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 1,2-Dichloropropane              | ND     | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Bromodichloromethane             | ND     | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Dibromomethane                   | ND     | 0.0399  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| cis-1,3-Dichloropropene          | ND     | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Toluene                          | ND     | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| trans-1,3-Dichloropropylene      | ND     | 0.0300  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 1,1,2-Trichloroethane            | ND     | 0.0300  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 1,3-Dichloropropane              | ND     | 0.0499  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Tetrachloroethene (PCE)          | 0.0464 | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Dibromochloromethane             | ND     | 0.0300  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 1,2-Dibromoethane (EDB)          | ND     | 0.00499 |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Chlorobenzene                    | ND     | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND     | 0.0300  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Ethylbenzene                     | ND     | 0.0300  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| m,p-Xylene                       | ND     | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| o-Xylene                         | ND     | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Styrene                          | ND     | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Isopropylbenzene                 | ND     | 0.0799  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Bromoform                        | ND     | 0.0200  |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 10:10:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-007

**Matrix:** Soil

**Client Sample ID:** SB-15-3

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| n-Propylbenzene               | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Bromobenzene                  | ND   | 0.0300   |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 2-Chlorotoluene               | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 4-Chlorotoluene               | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| tert-Butylbenzene             | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0499   |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| sec-Butylbenzene              | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| n-Butylbenzene                | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.499    |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Hexachlorobutadiene           | ND   | 0.0998   |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Naphthalene                   | ND   | 0.0300   |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0200   |  | mg/Kg-dry | 1 | 7/13/2015 9:24:00 PM |
| Surr: Dibromofluoromethane    | 96.4 | 63.7-129 |  | %REC      | 1 | 7/13/2015 9:24:00 PM |
| Surr: Toluene-d8              | 103  | 64.3-131 |  | %REC      | 1 | 7/13/2015 9:24:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 98.6 | 63.1-141 |  | %REC      | 1 | 7/13/2015 9:24:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23595

Analyst: SB

|                  |      |       |  |     |   |                      |
|------------------|------|-------|--|-----|---|----------------------|
| Percent Moisture | 9.52 | 0.500 |  | wt% | 1 | 7/16/2015 9:53:54 AM |
|------------------|------|-------|--|-----|---|----------------------|



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 10:15:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-008

**Matrix:** Soil

**Client Sample ID:** SB-15-6

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                                  |        |         |  |           |   |                      |
|----------------------------------|--------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND     | 0.0690  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Chloromethane                    | ND     | 0.0690  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Vinyl chloride                   | ND     | 0.00230 |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Bromomethane                     | ND     | 0.103   |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND     | 0.0575  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Chloroethane                     | ND     | 0.0690  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 1,1-Dichloroethene               | ND     | 0.0575  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Methylene chloride               | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| trans-1,2-Dichloroethene         | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND     | 0.0575  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 1,1-Dichloroethane               | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 2,2-Dichloropropane              | ND     | 0.0575  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| cis-1,2-Dichloroethene           | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Chloroform                       | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 1,1-Dichloropropene              | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Carbon tetrachloride             | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 1,2-Dichloroethane (EDC)         | ND     | 0.0345  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Benzene                          | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Trichloroethene (TCE)            | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 1,2-Dichloropropane              | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Bromodichloromethane             | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Dibromomethane                   | ND     | 0.0460  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| cis-1,3-Dichloropropene          | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Toluene                          | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| trans-1,3-Dichloropropylene      | ND     | 0.0345  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 1,1,2-Trichloroethane            | ND     | 0.0345  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 1,3-Dichloropropane              | ND     | 0.0575  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Tetrachloroethene (PCE)          | 0.0437 | 0.0230  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Dibromochloromethane             | ND     | 0.0345  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 1,2-Dibromoethane (EDB)          | ND     | 0.00575 |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Chlorobenzene                    | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND     | 0.0345  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Ethylbenzene                     | ND     | 0.0345  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| m,p-Xylene                       | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| o-Xylene                         | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Styrene                          | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Isopropylbenzene                 | ND     | 0.0920  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Bromoform                        | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 10:15:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-008

**Matrix:** Soil

**Client Sample ID:** SB-15-6

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| n-Propylbenzene               | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Bromobenzene                  | ND   | 0.0345   |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 2-Chlorotoluene               | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 4-Chlorotoluene               | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| tert-Butylbenzene             | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0575   |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| sec-Butylbenzene              | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| n-Butylbenzene                | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.575    |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Hexachlorobutadiene           | ND   | 0.115    |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Naphthalene                   | ND   | 0.0345   |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/13/2015 9:55:00 PM |
| Surr: Dibromofluoromethane    | 96.0 | 63.7-129 |  | %REC      | 1 | 7/13/2015 9:55:00 PM |
| Surr: Toluene-d8              | 103  | 64.3-131 |  | %REC      | 1 | 7/13/2015 9:55:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 99.4 | 63.1-141 |  | %REC      | 1 | 7/13/2015 9:55:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23595

Analyst: SB

|                  |      |       |  |     |   |                      |
|------------------|------|-------|--|-----|---|----------------------|
| Percent Moisture | 13.0 | 0.500 |  | wt% | 1 | 7/16/2015 9:53:54 AM |
|------------------|------|-------|--|-----|---|----------------------|





# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 10:20:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-009

**Matrix:** Soil

**Client Sample ID:** SB-15-10.5D

| Analyses   | Result | RL      | Qual | Units     | DF              | Date Analyzed         |
|--|--------|---------|------|-----------|-----------------|-----------------------|
| <b>Volatile Organic Compounds by EPA Method 8260</b> |        |         |      |           |                 |                       |
|  |        |         |      |           | Batch ID: 11306 | Analyst: BC           |
| Dichlorodifluoromethane (CFC-12)                     | ND     | 0.0615  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| Chloromethane  | ND     | 0.0615  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| Vinyl chloride                                       | ND     | 0.00205 |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| Bromomethane   | ND     | 0.0922  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| Trichlorofluoromethane (CFC-11)                      | ND     | 0.0512  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| Chloroethane   | ND     | 0.0615  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| 1,1-Dichloroethene                                   | ND     | 0.0512  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| Methylene chloride                                   | ND     | 0.0205  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| trans-1,2-Dichloroethene                             | ND     | 0.0205  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| Methyl tert-butyl ether (MTBE)                       | ND     | 0.0512  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| 1,1-Dichloroethane                                   | ND     | 0.0205  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| 2,2-Dichloropropane                                  | ND     | 0.0512  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| cis-1,2-Dichloroethene                               | 0.0261 | 0.0205  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| Chloroform   | ND     | 0.0205  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| 1,1,1-Trichloroethane (TCA)                          | ND     | 0.0205  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| 1,1-Dichloropropene                                  | ND     | 0.0205  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| Carbon tetrachloride                                 | ND     | 0.0205  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| 1,2-Dichloroethane (EDC)                             | ND     | 0.0307  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| Benzene  | ND     | 0.0205  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| Trichloroethene (TCE)                                | ND     | 0.0205  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| 1,2-Dichloropropane                                  | ND     | 0.0205  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| Bromodichloromethane                                 | ND     | 0.0205  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| Dibromomethane                                       | ND     | 0.0410  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| cis-1,3-Dichloropropene                              | ND     | 0.0205  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| Toluene  | ND     | 0.0205  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| trans-1,3-Dichloropropylene                          | ND     | 0.0307  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| 1,1,2-Trichloroethane                                | ND     | 0.0307  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| 1,3-Dichloropropane                                  | ND     | 0.0512  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| Tetrachloroethene (PCE)                              | ND     | 0.0205  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| Dibromochloromethane                                 | ND     | 0.0307  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| 1,2-Dibromoethane (EDB)                              | ND     | 0.00512 |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| Chlorobenzene  | ND     | 0.0205  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| 1,1,1,2-Tetrachloroethane                            | ND     | 0.0307  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| Ethylbenzene   | ND     | 0.0307  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| m,p-Xylene   | ND     | 0.0205  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| o-Xylene   | ND     | 0.0205  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| Styrene  | ND     | 0.0205  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| Isopropylbenzene                                     | ND     | 0.0820  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |
| Bromoform  | ND     | 0.0205  |      | mg/Kg-dry | 1               | 7/13/2015 10:27:00 PM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 10:20:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-009

**Matrix:** Soil

**Client Sample ID:** SB-15-10.5D

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                               |      |          |  |           |   |                       |
|-------------------------------|------|----------|--|-----------|---|-----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0205   |  | mg/Kg-dry | 1 | 7/13/2015 10:27:00 PM |
| n-Propylbenzene               | ND   | 0.0205   |  | mg/Kg-dry | 1 | 7/13/2015 10:27:00 PM |
| Bromobenzene                  | ND   | 0.0307   |  | mg/Kg-dry | 1 | 7/13/2015 10:27:00 PM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0205   |  | mg/Kg-dry | 1 | 7/13/2015 10:27:00 PM |
| 2-Chlorotoluene               | ND   | 0.0205   |  | mg/Kg-dry | 1 | 7/13/2015 10:27:00 PM |
| 4-Chlorotoluene               | ND   | 0.0205   |  | mg/Kg-dry | 1 | 7/13/2015 10:27:00 PM |
| tert-Butylbenzene             | ND   | 0.0205   |  | mg/Kg-dry | 1 | 7/13/2015 10:27:00 PM |
| 1,2,3-Trichloropropane        | ND   | 0.0205   |  | mg/Kg-dry | 1 | 7/13/2015 10:27:00 PM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0512   |  | mg/Kg-dry | 1 | 7/13/2015 10:27:00 PM |
| sec-Butylbenzene              | ND   | 0.0205   |  | mg/Kg-dry | 1 | 7/13/2015 10:27:00 PM |
| 4-Isopropyltoluene            | ND   | 0.0205   |  | mg/Kg-dry | 1 | 7/13/2015 10:27:00 PM |
| 1,3-Dichlorobenzene           | ND   | 0.0205   |  | mg/Kg-dry | 1 | 7/13/2015 10:27:00 PM |
| 1,4-Dichlorobenzene           | ND   | 0.0205   |  | mg/Kg-dry | 1 | 7/13/2015 10:27:00 PM |
| n-Butylbenzene                | ND   | 0.0205   |  | mg/Kg-dry | 1 | 7/13/2015 10:27:00 PM |
| 1,2-Dichlorobenzene           | ND   | 0.0205   |  | mg/Kg-dry | 1 | 7/13/2015 10:27:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.512    |  | mg/Kg-dry | 1 | 7/13/2015 10:27:00 PM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0205   |  | mg/Kg-dry | 1 | 7/13/2015 10:27:00 PM |
| Hexachlorobutadiene           | ND   | 0.102    |  | mg/Kg-dry | 1 | 7/13/2015 10:27:00 PM |
| Naphthalene                   | ND   | 0.0307   |  | mg/Kg-dry | 1 | 7/13/2015 10:27:00 PM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0205   |  | mg/Kg-dry | 1 | 7/13/2015 10:27:00 PM |
| Surr: Dibromofluoromethane    | 95.8 | 63.7-129 |  | %REC      | 1 | 7/13/2015 10:27:00 PM |
| Surr: Toluene-d8              | 103  | 64.3-131 |  | %REC      | 1 | 7/13/2015 10:27:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 97.5 | 63.1-141 |  | %REC      | 1 | 7/13/2015 10:27:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23595

Analyst: SB

|                  |      |       |  |     |   |                      |
|------------------|------|-------|--|-----|---|----------------------|
| Percent Moisture | 8.96 | 0.500 |  | wt% | 1 | 7/16/2015 9:53:54 AM |
|------------------|------|-------|--|-----|---|----------------------|



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 10:25:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-010

**Matrix:** Soil

**Client Sample ID:** SB-15-10.5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                                  |    |         |  |           |   |                      |
|----------------------------------|----|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND | 0.0590  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Chloromethane                    | ND | 0.0590  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Vinyl chloride                   | ND | 0.00197 |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Bromomethane                     | ND | 0.0885  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND | 0.0492  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Chloroethane                     | ND | 0.0590  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 1,1-Dichloroethene               | ND | 0.0492  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Methylene chloride               | ND | 0.0197  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| trans-1,2-Dichloroethene         | ND | 0.0197  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND | 0.0492  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 1,1-Dichloroethane               | ND | 0.0197  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 2,2-Dichloropropane              | ND | 0.0492  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| cis-1,2-Dichloroethene           | ND | 0.0197  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Chloroform                       | ND | 0.0197  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND | 0.0197  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 1,1-Dichloropropene              | ND | 0.0197  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Carbon tetrachloride             | ND | 0.0197  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 1,2-Dichloroethane (EDC)         | ND | 0.0295  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Benzene                          | ND | 0.0197  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Trichloroethene (TCE)            | ND | 0.0197  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 1,2-Dichloropropane              | ND | 0.0197  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Bromodichloromethane             | ND | 0.0197  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Dibromomethane                   | ND | 0.0394  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| cis-1,3-Dichloropropene          | ND | 0.0197  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Toluene                          | ND | 0.0197  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| trans-1,3-Dichloropropylene      | ND | 0.0295  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 1,1,2-Trichloroethane            | ND | 0.0295  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 1,3-Dichloropropane              | ND | 0.0492  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Tetrachloroethene (PCE)          | ND | 0.0197  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Dibromochloromethane             | ND | 0.0295  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 1,2-Dibromoethane (EDB)          | ND | 0.00492 |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Chlorobenzene                    | ND | 0.0197  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND | 0.0295  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Ethylbenzene                     | ND | 0.0295  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| m,p-Xylene                       | ND | 0.0197  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| o-Xylene                         | ND | 0.0197  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Styrene                          | ND | 0.0197  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Isopropylbenzene                 | ND | 0.0787  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Bromoform                        | ND | 0.0197  |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 10:25:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-010

**Matrix:** Soil

**Client Sample ID:** SB-15-10.5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                               |     |          |  |           |   |                      |
|-------------------------------|-----|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND  | 0.0197   |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| n-Propylbenzene               | ND  | 0.0197   |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Bromobenzene                  | ND  | 0.0295   |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 1,3,5-Trimethylbenzene        | ND  | 0.0197   |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 2-Chlorotoluene               | ND  | 0.0197   |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 4-Chlorotoluene               | ND  | 0.0197   |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| tert-Butylbenzene             | ND  | 0.0197   |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 1,2,3-Trichloropropane        | ND  | 0.0197   |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 1,2,4-Trichlorobenzene        | ND  | 0.0492   |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| sec-Butylbenzene              | ND  | 0.0197   |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 4-Isopropyltoluene            | ND  | 0.0197   |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 1,3-Dichlorobenzene           | ND  | 0.0197   |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 1,4-Dichlorobenzene           | ND  | 0.0197   |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| n-Butylbenzene                | ND  | 0.0197   |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 1,2-Dichlorobenzene           | ND  | 0.0197   |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND  | 0.492    |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 1,2,4-Trimethylbenzene        | ND  | 0.0197   |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Hexachlorobutadiene           | ND  | 0.0984   |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Naphthalene                   | ND  | 0.0295   |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| 1,2,3-Trichlorobenzene        | ND  | 0.0197   |  | mg/Kg-dry | 1 | 7/13/2015 4:37:00 PM |
| Surr: Dibromofluoromethane    | 101 | 63.7-129 |  | %REC      | 1 | 7/13/2015 4:37:00 PM |
| Surr: Toluene-d8              | 105 | 64.3-131 |  | %REC      | 1 | 7/13/2015 4:37:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 100 | 63.1-141 |  | %REC      | 1 | 7/13/2015 4:37:00 PM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23595

Analyst: SB

|                  |      |       |  |     |   |                      |
|------------------|------|-------|--|-----|---|----------------------|
| Percent Moisture | 10.6 | 0.500 |  | wt% | 1 | 7/16/2015 9:53:54 AM |
|------------------|------|-------|--|-----|---|----------------------|



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 11:20:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-012

**Matrix:** Soil

**Client Sample ID:** SB-17-0.5

| Analyses   | Result | RL      | Qual | Units     | DF              | Date Analyzed         |
|--|--------|---------|------|-----------|-----------------|-----------------------|
| <b>Volatile Organic Compounds by EPA Method 8260</b> |        |         |      |           |                 |                       |
|  |        |         |      |           | Batch ID: 11306 | Analyst: BC           |
| Dichlorodifluoromethane (CFC-12)                     | ND     | 0.0911  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| Chloromethane  | ND     | 0.0911  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| Vinyl chloride                                       | ND     | 0.00304 |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| Bromomethane   | ND     | 0.137   |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| Trichlorofluoromethane (CFC-11)                      | ND     | 0.0759  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| Chloroethane   | ND     | 0.0911  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| 1,1-Dichloroethene                                   | ND     | 0.0759  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| Methylene chloride                                   | ND     | 0.0304  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| trans-1,2-Dichloroethene                             | ND     | 0.0304  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| Methyl tert-butyl ether (MTBE)                       | ND     | 0.0759  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| 1,1-Dichloroethane                                   | ND     | 0.0304  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| 2,2-Dichloropropane                                  | ND     | 0.0759  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| cis-1,2-Dichloroethene                               | ND     | 0.0304  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| Chloroform   | ND     | 0.0304  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| 1,1,1-Trichloroethane (TCA)                          | ND     | 0.0304  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| 1,1-Dichloropropene                                  | ND     | 0.0304  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| Carbon tetrachloride                                 | ND     | 0.0304  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| 1,2-Dichloroethane (EDC)                             | ND     | 0.0455  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| Benzene  | ND     | 0.0304  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| Trichloroethene (TCE)                                | ND     | 0.0304  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| 1,2-Dichloropropane                                  | ND     | 0.0304  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| Bromodichloromethane                                 | ND     | 0.0304  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| Dibromomethane                                       | ND     | 0.0607  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| cis-1,3-Dichloropropene                              | ND     | 0.0304  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| Toluene  | ND     | 0.0304  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| trans-1,3-Dichloropropylene                          | ND     | 0.0455  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| 1,1,2-Trichloroethane                                | ND     | 0.0455  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| 1,3-Dichloropropane                                  | ND     | 0.0759  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| Tetrachloroethene (PCE)                              | 0.0736 | 0.0304  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| Dibromochloromethane                                 | ND     | 0.0455  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| 1,2-Dibromoethane (EDB)                              | ND     | 0.00759 |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| Chlorobenzene  | ND     | 0.0304  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| 1,1,1,2-Tetrachloroethane                            | ND     | 0.0455  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| Ethylbenzene   | ND     | 0.0455  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| m,p-Xylene   | ND     | 0.0304  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| o-Xylene   | ND     | 0.0304  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| Styrene  | ND     | 0.0304  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| Isopropylbenzene                                     | ND     | 0.121   |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |
| Bromoform  | ND     | 0.0304  |      | mg/Kg-dry | 1               | 7/14/2015 12:32:00 AM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 11:20:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-012

**Matrix:** Soil

**Client Sample ID:** SB-17-0.5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                               |      |          |  |           |   |                       |
|-------------------------------|------|----------|--|-----------|---|-----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0304   |  | mg/Kg-dry | 1 | 7/14/2015 12:32:00 AM |
| n-Propylbenzene               | ND   | 0.0304   |  | mg/Kg-dry | 1 | 7/14/2015 12:32:00 AM |
| Bromobenzene                  | ND   | 0.0455   |  | mg/Kg-dry | 1 | 7/14/2015 12:32:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0304   |  | mg/Kg-dry | 1 | 7/14/2015 12:32:00 AM |
| 2-Chlorotoluene               | ND   | 0.0304   |  | mg/Kg-dry | 1 | 7/14/2015 12:32:00 AM |
| 4-Chlorotoluene               | ND   | 0.0304   |  | mg/Kg-dry | 1 | 7/14/2015 12:32:00 AM |
| tert-Butylbenzene             | ND   | 0.0304   |  | mg/Kg-dry | 1 | 7/14/2015 12:32:00 AM |
| 1,2,3-Trichloropropane        | ND   | 0.0304   |  | mg/Kg-dry | 1 | 7/14/2015 12:32:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0759   |  | mg/Kg-dry | 1 | 7/14/2015 12:32:00 AM |
| sec-Butylbenzene              | ND   | 0.0304   |  | mg/Kg-dry | 1 | 7/14/2015 12:32:00 AM |
| 4-Isopropyltoluene            | ND   | 0.0304   |  | mg/Kg-dry | 1 | 7/14/2015 12:32:00 AM |
| 1,3-Dichlorobenzene           | ND   | 0.0304   |  | mg/Kg-dry | 1 | 7/14/2015 12:32:00 AM |
| 1,4-Dichlorobenzene           | ND   | 0.0304   |  | mg/Kg-dry | 1 | 7/14/2015 12:32:00 AM |
| n-Butylbenzene                | ND   | 0.0304   |  | mg/Kg-dry | 1 | 7/14/2015 12:32:00 AM |
| 1,2-Dichlorobenzene           | ND   | 0.0304   |  | mg/Kg-dry | 1 | 7/14/2015 12:32:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.759    |  | mg/Kg-dry | 1 | 7/14/2015 12:32:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0304   |  | mg/Kg-dry | 1 | 7/14/2015 12:32:00 AM |
| Hexachlorobutadiene           | ND   | 0.152    |  | mg/Kg-dry | 1 | 7/14/2015 12:32:00 AM |
| Naphthalene                   | ND   | 0.0455   |  | mg/Kg-dry | 1 | 7/14/2015 12:32:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0304   |  | mg/Kg-dry | 1 | 7/14/2015 12:32:00 AM |
| Surr: Dibromofluoromethane    | 97.6 | 63.7-129 |  | %REC      | 1 | 7/14/2015 12:32:00 AM |
| Surr: Toluene-d8              | 104  | 64.3-131 |  | %REC      | 1 | 7/14/2015 12:32:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 97.7 | 63.1-141 |  | %REC      | 1 | 7/14/2015 12:32:00 AM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23595

Analyst: SB

|                  |      |       |  |     |   |                      |
|------------------|------|-------|--|-----|---|----------------------|
| Percent Moisture | 20.6 | 0.500 |  | wt% | 1 | 7/16/2015 9:53:54 AM |
|------------------|------|-------|--|-----|---|----------------------|



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 11:25:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-013

**Matrix:** Soil

**Client Sample ID:** SB-17-3

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                                  |        |         |  |           |   |                      |
|----------------------------------|--------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND     | 0.0690  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Chloromethane                    | ND     | 0.0690  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Vinyl chloride                   | ND     | 0.00230 |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Bromomethane                     | ND     | 0.103   |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Trichlorofluoromethane (CFC-11)  | ND     | 0.0575  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Chloroethane                     | ND     | 0.0690  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 1,1-Dichloroethene               | ND     | 0.0575  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Methylene chloride               | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| trans-1,2-Dichloroethene         | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Methyl tert-butyl ether (MTBE)   | ND     | 0.0575  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 1,1-Dichloroethane               | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 2,2-Dichloropropane              | ND     | 0.0575  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| cis-1,2-Dichloroethene           | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Chloroform                       | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 1,1,1-Trichloroethane (TCA)      | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 1,1-Dichloropropene              | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Carbon tetrachloride             | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 1,2-Dichloroethane (EDC)         | ND     | 0.0345  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Benzene                          | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Trichloroethene (TCE)            | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 1,2-Dichloropropane              | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Bromodichloromethane             | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Dibromomethane                   | ND     | 0.0460  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| cis-1,3-Dichloropropene          | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Toluene                          | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| trans-1,3-Dichloropropylene      | ND     | 0.0345  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 1,1,2-Trichloroethane            | ND     | 0.0345  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 1,3-Dichloropropane              | ND     | 0.0575  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Tetrachloroethene (PCE)          | 0.0828 | 0.0230  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Dibromochloromethane             | ND     | 0.0345  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 1,2-Dibromoethane (EDB)          | ND     | 0.00575 |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Chlorobenzene                    | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 1,1,1,2-Tetrachloroethane        | ND     | 0.0345  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Ethylbenzene                     | ND     | 0.0345  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| m,p-Xylene                       | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| o-Xylene                         | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Styrene                          | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Isopropylbenzene                 | ND     | 0.0920  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Bromoform                        | ND     | 0.0230  |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 11:25:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-013

**Matrix:** Soil

**Client Sample ID:** SB-17-3

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| n-Propylbenzene               | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Bromobenzene                  | ND   | 0.0345   |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 2-Chlorotoluene               | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 4-Chlorotoluene               | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| tert-Butylbenzene             | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 1,2,3-Trichloropropane        | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0575   |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| sec-Butylbenzene              | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 4-Isopropyltoluene            | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 1,3-Dichlorobenzene           | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 1,4-Dichlorobenzene           | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| n-Butylbenzene                | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 1,2-Dichlorobenzene           | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.575    |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Hexachlorobutadiene           | ND   | 0.115    |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Naphthalene                   | ND   | 0.0345   |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0230   |  | mg/Kg-dry | 1 | 7/14/2015 1:02:00 AM |
| Surr: Dibromofluoromethane    | 96.0 | 63.7-129 |  | %REC      | 1 | 7/14/2015 1:02:00 AM |
| Surr: Toluene-d8              | 105  | 64.3-131 |  | %REC      | 1 | 7/14/2015 1:02:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 98.8 | 63.1-141 |  | %REC      | 1 | 7/14/2015 1:02:00 AM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23595

Analyst: SB

|                  |      |       |  |     |   |                      |
|------------------|------|-------|--|-----|---|----------------------|
| Percent Moisture | 11.6 | 0.500 |  | wt% | 1 | 7/16/2015 9:53:54 AM |
|------------------|------|-------|--|-----|---|----------------------|





# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 11:30:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-014

**Matrix:** Soil

**Client Sample ID:** SB-17-6

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                                  |        |         |  |           |   |                      |
|----------------------------------|--------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND     | 0.0686  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Chloromethane                    | ND     | 0.0686  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Vinyl chloride                   | ND     | 0.00229 |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Bromomethane                     | ND     | 0.103   |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Trichlorofluoromethane (CFC-11)  | ND     | 0.0572  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Chloroethane                     | ND     | 0.0686  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 1,1-Dichloroethene               | ND     | 0.0572  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Methylene chloride               | ND     | 0.0229  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| trans-1,2-Dichloroethene         | ND     | 0.0229  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Methyl tert-butyl ether (MTBE)   | ND     | 0.0572  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 1,1-Dichloroethane               | ND     | 0.0229  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 2,2-Dichloropropane              | ND     | 0.0572  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| cis-1,2-Dichloroethene           | ND     | 0.0229  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Chloroform                       | ND     | 0.0229  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 1,1,1-Trichloroethane (TCA)      | ND     | 0.0229  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 1,1-Dichloropropene              | ND     | 0.0229  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Carbon tetrachloride             | ND     | 0.0229  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 1,2-Dichloroethane (EDC)         | ND     | 0.0343  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Benzene                          | ND     | 0.0229  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Trichloroethene (TCE)            | 0.0469 | 0.0229  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 1,2-Dichloropropane              | ND     | 0.0229  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Bromodichloromethane             | ND     | 0.0229  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Dibromomethane                   | ND     | 0.0457  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| cis-1,3-Dichloropropene          | ND     | 0.0229  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Toluene                          | ND     | 0.0229  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| trans-1,3-Dichloropropylene      | ND     | 0.0343  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 1,1,2-Trichloroethane            | ND     | 0.0343  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 1,3-Dichloropropane              | ND     | 0.0572  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Tetrachloroethene (PCE)          | 0.0526 | 0.0229  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Dibromochloromethane             | ND     | 0.0343  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 1,2-Dibromoethane (EDB)          | ND     | 0.00572 |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Chlorobenzene                    | ND     | 0.0229  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 1,1,1,2-Tetrachloroethane        | ND     | 0.0343  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Ethylbenzene                     | ND     | 0.0343  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| m,p-Xylene                       | ND     | 0.0229  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| o-Xylene                         | ND     | 0.0229  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Styrene                          | ND     | 0.0229  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Isopropylbenzene                 | ND     | 0.0915  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Bromoform                        | ND     | 0.0229  |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 11:30:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-014

**Matrix:** Soil

**Client Sample ID:** SB-17-6

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0229   |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| n-Propylbenzene               | ND   | 0.0229   |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Bromobenzene                  | ND   | 0.0343   |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0229   |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 2-Chlorotoluene               | ND   | 0.0229   |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 4-Chlorotoluene               | ND   | 0.0229   |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| tert-Butylbenzene             | ND   | 0.0229   |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 1,2,3-Trichloropropane        | ND   | 0.0229   |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0572   |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| sec-Butylbenzene              | ND   | 0.0229   |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 4-Isopropyltoluene            | ND   | 0.0229   |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 1,3-Dichlorobenzene           | ND   | 0.0229   |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 1,4-Dichlorobenzene           | ND   | 0.0229   |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| n-Butylbenzene                | ND   | 0.0229   |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 1,2-Dichlorobenzene           | ND   | 0.0229   |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.572    |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0229   |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Hexachlorobutadiene           | ND   | 0.114    |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Naphthalene                   | ND   | 0.0343   |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0229   |  | mg/Kg-dry | 1 | 7/14/2015 1:33:00 AM |
| Surr: Dibromofluoromethane    | 96.8 | 63.7-129 |  | %REC      | 1 | 7/14/2015 1:33:00 AM |
| Surr: Toluene-d8              | 105  | 64.3-131 |  | %REC      | 1 | 7/14/2015 1:33:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 97.2 | 63.1-141 |  | %REC      | 1 | 7/14/2015 1:33:00 AM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23595

Analyst: SB

|                  |      |       |  |     |   |                      |
|------------------|------|-------|--|-----|---|----------------------|
| Percent Moisture | 18.1 | 0.500 |  | wt% | 1 | 7/16/2015 9:53:54 AM |
|------------------|------|-------|--|-----|---|----------------------|



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 11:35:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-015

**Matrix:** Soil

**Client Sample ID:** SB-17-9

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                                  |    |         |  |           |   |                      |
|----------------------------------|----|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND | 0.0629  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Chloromethane                    | ND | 0.0629  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Vinyl chloride                   | ND | 0.00210 |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Bromomethane                     | ND | 0.0944  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Trichlorofluoromethane (CFC-11)  | ND | 0.0524  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Chloroethane                     | ND | 0.0629  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 1,1-Dichloroethene               | ND | 0.0524  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Methylene chloride               | ND | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| trans-1,2-Dichloroethene         | ND | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Methyl tert-butyl ether (MTBE)   | ND | 0.0524  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 1,1-Dichloroethane               | ND | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 2,2-Dichloropropane              | ND | 0.0524  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| cis-1,2-Dichloroethene           | ND | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Chloroform                       | ND | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 1,1,1-Trichloroethane (TCA)      | ND | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 1,1-Dichloropropene              | ND | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Carbon tetrachloride             | ND | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 1,2-Dichloroethane (EDC)         | ND | 0.0315  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Benzene                          | ND | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Trichloroethene (TCE)            | ND | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 1,2-Dichloropropane              | ND | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Bromodichloromethane             | ND | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Dibromomethane                   | ND | 0.0420  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| cis-1,3-Dichloropropene          | ND | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Toluene                          | ND | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| trans-1,3-Dichloropropylene      | ND | 0.0315  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 1,1,2-Trichloroethane            | ND | 0.0315  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 1,3-Dichloropropane              | ND | 0.0524  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Tetrachloroethene (PCE)          | ND | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Dibromochloromethane             | ND | 0.0315  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 1,2-Dibromoethane (EDB)          | ND | 0.00524 |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Chlorobenzene                    | ND | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 1,1,1,2-Tetrachloroethane        | ND | 0.0315  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Ethylbenzene                     | ND | 0.0315  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| m,p-Xylene                       | ND | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| o-Xylene                         | ND | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Styrene                          | ND | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Isopropylbenzene                 | ND | 0.0839  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Bromoform                        | ND | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 11:35:00 AM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-015

**Matrix:** Soil

**Client Sample ID:** SB-17-9

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| n-Propylbenzene               | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Bromobenzene                  | ND   | 0.0315   |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 2-Chlorotoluene               | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 4-Chlorotoluene               | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| tert-Butylbenzene             | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 1,2,3-Trichloropropane        | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0524   |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| sec-Butylbenzene              | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 4-Isopropyltoluene            | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 1,3-Dichlorobenzene           | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 1,4-Dichlorobenzene           | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| n-Butylbenzene                | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 1,2-Dichlorobenzene           | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.524    |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Hexachlorobutadiene           | ND   | 0.105    |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Naphthalene                   | ND   | 0.0315   |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 2:04:00 AM |
| Surr: Dibromofluoromethane    | 107  | 63.7-129 |  | %REC      | 1 | 7/14/2015 2:04:00 AM |
| Surr: Toluene-d8              | 119  | 64.3-131 |  | %REC      | 1 | 7/14/2015 2:04:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 98.4 | 63.1-141 |  | %REC      | 1 | 7/14/2015 2:04:00 AM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23595

Analyst: SB

|                  |      |       |  |     |   |                      |
|------------------|------|-------|--|-----|---|----------------------|
| Percent Moisture | 12.9 | 0.500 |  | wt% | 1 | 7/16/2015 9:53:54 AM |
|------------------|------|-------|--|-----|---|----------------------|



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 12:25:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-017

**Matrix:** Soil

**Client Sample ID:** SB-14-0.5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                                  |       |         |  |           |   |                      |
|----------------------------------|-------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND    | 0.0621  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Chloromethane                    | ND    | 0.0621  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Vinyl chloride                   | ND    | 0.00207 |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Bromomethane                     | ND    | 0.0932  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Trichlorofluoromethane (CFC-11)  | ND    | 0.0518  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Chloroethane                     | ND    | 0.0621  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 1,1-Dichloroethene               | ND    | 0.0518  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Methylene chloride               | ND    | 0.0207  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| trans-1,2-Dichloroethene         | ND    | 0.0207  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Methyl tert-butyl ether (MTBE)   | ND    | 0.0518  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 1,1-Dichloroethane               | ND    | 0.0207  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 2,2-Dichloropropane              | ND    | 0.0518  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| cis-1,2-Dichloroethene           | ND    | 0.0207  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Chloroform                       | ND    | 0.0207  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 1,1,1-Trichloroethane (TCA)      | ND    | 0.0207  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 1,1-Dichloropropene              | ND    | 0.0207  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Carbon tetrachloride             | ND    | 0.0207  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 1,2-Dichloroethane (EDC)         | ND    | 0.0311  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Benzene                          | ND    | 0.0207  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Trichloroethene (TCE)            | ND    | 0.0207  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 1,2-Dichloropropane              | ND    | 0.0207  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Bromodichloromethane             | ND    | 0.0207  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Dibromomethane                   | ND    | 0.0414  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| cis-1,3-Dichloropropene          | ND    | 0.0207  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Toluene                          | ND    | 0.0207  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| trans-1,3-Dichloropropylene      | ND    | 0.0311  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 1,1,2-Trichloroethane            | ND    | 0.0311  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 1,3-Dichloropropane              | ND    | 0.0518  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Tetrachloroethene (PCE)          | 0.321 | 0.0207  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Dibromochloromethane             | ND    | 0.0311  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 1,2-Dibromoethane (EDB)          | ND    | 0.00518 |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Chlorobenzene                    | ND    | 0.0207  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 1,1,1,2-Tetrachloroethane        | ND    | 0.0311  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Ethylbenzene                     | ND    | 0.0311  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| m,p-Xylene                       | ND    | 0.0207  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| o-Xylene                         | ND    | 0.0207  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Styrene                          | ND    | 0.0207  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Isopropylbenzene                 | ND    | 0.0829  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Bromoform                        | ND    | 0.0207  |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 12:25:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-017

**Matrix:** Soil

**Client Sample ID:** SB-14-0.5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0207   |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| n-Propylbenzene               | ND   | 0.0207   |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Bromobenzene                  | ND   | 0.0311   |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0207   |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 2-Chlorotoluene               | ND   | 0.0207   |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 4-Chlorotoluene               | ND   | 0.0207   |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| tert-Butylbenzene             | ND   | 0.0207   |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 1,2,3-Trichloropropane        | ND   | 0.0207   |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0518   |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| sec-Butylbenzene              | ND   | 0.0207   |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 4-Isopropyltoluene            | ND   | 0.0207   |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 1,3-Dichlorobenzene           | ND   | 0.0207   |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 1,4-Dichlorobenzene           | ND   | 0.0207   |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| n-Butylbenzene                | ND   | 0.0207   |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 1,2-Dichlorobenzene           | ND   | 0.0207   |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.518    |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0207   |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Hexachlorobutadiene           | ND   | 0.104    |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Naphthalene                   | ND   | 0.0311   |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0207   |  | mg/Kg-dry | 1 | 7/14/2015 2:35:00 AM |
| Surr: Dibromofluoromethane    | 96.8 | 63.7-129 |  | %REC      | 1 | 7/14/2015 2:35:00 AM |
| Surr: Toluene-d8              | 106  | 64.3-131 |  | %REC      | 1 | 7/14/2015 2:35:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 97.8 | 63.1-141 |  | %REC      | 1 | 7/14/2015 2:35:00 AM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23595

Analyst: SB

|                  |      |       |  |     |   |                      |
|------------------|------|-------|--|-----|---|----------------------|
| Percent Moisture | 11.5 | 0.500 |  | wt% | 1 | 7/16/2015 9:53:54 AM |
|------------------|------|-------|--|-----|---|----------------------|



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 12:30:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-018

**Matrix:** Soil

**Client Sample ID:** SB-14-3

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                                  |        |         |  |           |   |                      |
|----------------------------------|--------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND     | 0.0630  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Chloromethane                    | ND     | 0.0630  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Vinyl chloride                   | ND     | 0.00210 |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Bromomethane                     | ND     | 0.0945  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Trichlorofluoromethane (CFC-11)  | ND     | 0.0525  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Chloroethane                     | ND     | 0.0630  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 1,1-Dichloroethene               | ND     | 0.0525  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Methylene chloride               | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| trans-1,2-Dichloroethene         | 0.0268 | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Methyl tert-butyl ether (MTBE)   | ND     | 0.0525  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 1,1-Dichloroethane               | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 2,2-Dichloropropane              | ND     | 0.0525  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| cis-1,2-Dichloroethene           | 0.0856 | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Chloroform                       | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 1,1,1-Trichloroethane (TCA)      | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 1,1-Dichloropropene              | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Carbon tetrachloride             | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 1,2-Dichloroethane (EDC)         | ND     | 0.0315  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Benzene                          | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Trichloroethene (TCE)            | 0.173  | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 1,2-Dichloropropane              | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Bromodichloromethane             | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Dibromomethane                   | ND     | 0.0420  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| cis-1,3-Dichloropropene          | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Toluene                          | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| trans-1,3-Dichloropropylene      | ND     | 0.0315  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 1,1,2-Trichloroethane            | ND     | 0.0315  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 1,3-Dichloropropane              | ND     | 0.0525  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Tetrachloroethene (PCE)          | 0.0441 | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Dibromochloromethane             | ND     | 0.0315  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 1,2-Dibromoethane (EDB)          | ND     | 0.00525 |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Chlorobenzene                    | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 1,1,1,2-Tetrachloroethane        | ND     | 0.0315  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Ethylbenzene                     | ND     | 0.0315  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| m,p-Xylene                       | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| o-Xylene                         | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Styrene                          | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Isopropylbenzene                 | ND     | 0.0840  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Bromoform                        | ND     | 0.0210  |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 12:30:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-018

**Matrix:** Soil

**Client Sample ID:** SB-14-3

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| n-Propylbenzene               | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Bromobenzene                  | ND   | 0.0315   |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 2-Chlorotoluene               | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 4-Chlorotoluene               | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| tert-Butylbenzene             | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 1,2,3-Trichloropropane        | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0525   |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| sec-Butylbenzene              | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 4-Isopropyltoluene            | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 1,3-Dichlorobenzene           | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 1,4-Dichlorobenzene           | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| n-Butylbenzene                | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 1,2-Dichlorobenzene           | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.525    |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Hexachlorobutadiene           | ND   | 0.105    |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Naphthalene                   | ND   | 0.0315   |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0210   |  | mg/Kg-dry | 1 | 7/14/2015 3:06:00 AM |
| Surr: Dibromofluoromethane    | 95.4 | 63.7-129 |  | %REC      | 1 | 7/14/2015 3:06:00 AM |
| Surr: Toluene-d8              | 104  | 64.3-131 |  | %REC      | 1 | 7/14/2015 3:06:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 109  | 63.1-141 |  | %REC      | 1 | 7/14/2015 3:06:00 AM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23595

Analyst: SB

|                  |      |       |  |     |   |                      |
|------------------|------|-------|--|-----|---|----------------------|
| Percent Moisture | 10.4 | 0.500 |  | wt% | 1 | 7/16/2015 9:53:54 AM |
|------------------|------|-------|--|-----|---|----------------------|





# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 12:35:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-019

**Matrix:** Soil

**Client Sample ID:** SB-14-6

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                                  |        |         |  |           |   |                      |
|----------------------------------|--------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND     | 0.0587  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Chloromethane                    | ND     | 0.0587  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Vinyl chloride                   | ND     | 0.00196 |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Bromomethane                     | ND     | 0.0880  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Trichlorofluoromethane (CFC-11)  | ND     | 0.0489  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Chloroethane                     | ND     | 0.0587  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 1,1-Dichloroethene               | ND     | 0.0489  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Methylene chloride               | ND     | 0.0196  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| trans-1,2-Dichloroethene         | ND     | 0.0196  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Methyl tert-butyl ether (MTBE)   | ND     | 0.0489  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 1,1-Dichloroethane               | ND     | 0.0196  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 2,2-Dichloropropane              | ND     | 0.0489  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| cis-1,2-Dichloroethene           | 0.0851 | 0.0196  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Chloroform                       | ND     | 0.0196  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 1,1,1-Trichloroethane (TCA)      | ND     | 0.0196  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 1,1-Dichloropropene              | ND     | 0.0196  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Carbon tetrachloride             | ND     | 0.0196  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 1,2-Dichloroethane (EDC)         | ND     | 0.0293  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Benzene                          | ND     | 0.0196  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Trichloroethene (TCE)            | 0.0210 | 0.0196  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 1,2-Dichloropropane              | ND     | 0.0196  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Bromodichloromethane             | ND     | 0.0196  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Dibromomethane                   | ND     | 0.0391  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| cis-1,3-Dichloropropene          | ND     | 0.0196  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Toluene                          | ND     | 0.0196  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| trans-1,3-Dichloropropylene      | ND     | 0.0293  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 1,1,2-Trichloroethane            | ND     | 0.0293  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 1,3-Dichloropropane              | ND     | 0.0489  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Tetrachloroethene (PCE)          | 0.0465 | 0.0196  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Dibromochloromethane             | ND     | 0.0293  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 1,2-Dibromoethane (EDB)          | ND     | 0.00489 |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Chlorobenzene                    | ND     | 0.0196  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 1,1,1,2-Tetrachloroethane        | ND     | 0.0293  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Ethylbenzene                     | ND     | 0.0293  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| m,p-Xylene                       | ND     | 0.0196  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| o-Xylene                         | ND     | 0.0196  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Styrene                          | ND     | 0.0196  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Isopropylbenzene                 | ND     | 0.0782  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Bromoform                        | ND     | 0.0196  |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 12:35:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-019

**Matrix:** Soil

**Client Sample ID:** SB-14-6

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0196   |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| n-Propylbenzene               | ND   | 0.0196   |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Bromobenzene                  | ND   | 0.0293   |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0196   |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 2-Chlorotoluene               | ND   | 0.0196   |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 4-Chlorotoluene               | ND   | 0.0196   |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| tert-Butylbenzene             | ND   | 0.0196   |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 1,2,3-Trichloropropane        | ND   | 0.0196   |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0489   |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| sec-Butylbenzene              | ND   | 0.0196   |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 4-Isopropyltoluene            | ND   | 0.0196   |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 1,3-Dichlorobenzene           | ND   | 0.0196   |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 1,4-Dichlorobenzene           | ND   | 0.0196   |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| n-Butylbenzene                | ND   | 0.0196   |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 1,2-Dichlorobenzene           | ND   | 0.0196   |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.489    |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0196   |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Hexachlorobutadiene           | ND   | 0.0978   |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Naphthalene                   | ND   | 0.0293   |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0196   |  | mg/Kg-dry | 1 | 7/14/2015 3:37:00 AM |
| Surr: Dibromofluoromethane    | 95.9 | 63.7-129 |  | %REC      | 1 | 7/14/2015 3:37:00 AM |
| Surr: Toluene-d8              | 109  | 64.3-131 |  | %REC      | 1 | 7/14/2015 3:37:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 98.1 | 63.1-141 |  | %REC      | 1 | 7/14/2015 3:37:00 AM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23595

Analyst: SB

|                  |      |       |  |     |   |                      |
|------------------|------|-------|--|-----|---|----------------------|
| Percent Moisture | 10.3 | 0.500 |  | wt% | 1 | 7/16/2015 9:53:54 AM |
|------------------|------|-------|--|-----|---|----------------------|



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 12:45:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-020

**Matrix:** Soil

**Client Sample ID:** SB-14-9

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                                  |       |         |  |           |   |                      |
|----------------------------------|-------|---------|--|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND    | 0.0681  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Chloromethane                    | ND    | 0.0681  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Vinyl chloride                   | ND    | 0.00227 |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Bromomethane                     | ND    | 0.102   |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Trichlorofluoromethane (CFC-11)  | ND    | 0.0567  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Chloroethane                     | ND    | 0.0681  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 1,1-Dichloroethene               | ND    | 0.0567  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Methylene chloride               | ND    | 0.0227  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| trans-1,2-Dichloroethene         | ND    | 0.0227  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Methyl tert-butyl ether (MTBE)   | ND    | 0.0567  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 1,1-Dichloroethane               | ND    | 0.0227  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 2,2-Dichloropropane              | ND    | 0.0567  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| cis-1,2-Dichloroethene           | 0.176 | 0.0227  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Chloroform                       | ND    | 0.0227  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 1,1,1-Trichloroethane (TCA)      | ND    | 0.0227  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 1,1-Dichloropropene              | ND    | 0.0227  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Carbon tetrachloride             | ND    | 0.0227  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 1,2-Dichloroethane (EDC)         | ND    | 0.0340  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Benzene                          | ND    | 0.0227  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Trichloroethene (TCE)            | ND    | 0.0227  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 1,2-Dichloropropane              | ND    | 0.0227  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Bromodichloromethane             | ND    | 0.0227  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Dibromomethane                   | ND    | 0.0454  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| cis-1,3-Dichloropropene          | ND    | 0.0227  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Toluene                          | ND    | 0.0227  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| trans-1,3-Dichloropropylene      | ND    | 0.0340  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 1,1,2-Trichloroethane            | ND    | 0.0340  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 1,3-Dichloropropane              | ND    | 0.0567  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Tetrachloroethene (PCE)          | ND    | 0.0227  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Dibromochloromethane             | ND    | 0.0340  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 1,2-Dibromoethane (EDB)          | ND    | 0.00567 |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Chlorobenzene                    | ND    | 0.0227  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 1,1,1,2-Tetrachloroethane        | ND    | 0.0340  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Ethylbenzene                     | ND    | 0.0340  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| m,p-Xylene                       | ND    | 0.0227  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| o-Xylene                         | ND    | 0.0227  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Styrene                          | ND    | 0.0227  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Isopropylbenzene                 | ND    | 0.0907  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Bromoform                        | ND    | 0.0227  |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 12:45:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-020

**Matrix:** Soil

**Client Sample ID:** SB-14-9

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                               |      |          |  |           |   |                      |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 0.0227   |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| n-Propylbenzene               | ND   | 0.0227   |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Bromobenzene                  | ND   | 0.0340   |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 0.0227   |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 2-Chlorotoluene               | ND   | 0.0227   |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 4-Chlorotoluene               | ND   | 0.0227   |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| tert-Butylbenzene             | ND   | 0.0227   |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 1,2,3-Trichloropropane        | ND   | 0.0227   |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 0.0567   |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| sec-Butylbenzene              | ND   | 0.0227   |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 4-Isopropyltoluene            | ND   | 0.0227   |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 1,3-Dichlorobenzene           | ND   | 0.0227   |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 1,4-Dichlorobenzene           | ND   | 0.0227   |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| n-Butylbenzene                | ND   | 0.0227   |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 1,2-Dichlorobenzene           | ND   | 0.0227   |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.567    |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 0.0227   |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Hexachlorobutadiene           | ND   | 0.113    |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Naphthalene                   | ND   | 0.0340   |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 0.0227   |  | mg/Kg-dry | 1 | 7/14/2015 4:08:00 AM |
| Surr: Dibromofluoromethane    | 105  | 63.7-129 |  | %REC      | 1 | 7/14/2015 4:08:00 AM |
| Surr: Toluene-d8              | 118  | 64.3-131 |  | %REC      | 1 | 7/14/2015 4:08:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 95.6 | 63.1-141 |  | %REC      | 1 | 7/14/2015 4:08:00 AM |

**Sample Moisture (Percent Moisture)**

Batch ID: R23595

Analyst: SB

|                  |      |       |  |     |   |                      |
|------------------|------|-------|--|-----|---|----------------------|
| Percent Moisture | 14.0 | 0.500 |  | wt% | 1 | 7/16/2015 9:53:54 AM |
|------------------|------|-------|--|-----|---|----------------------|



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 2:00:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-022

**Matrix:** Groundwater

**Client Sample ID:** SB-15-W

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23575

Analyst: AK

|                                  |      |        |  |      |   |                      |
|----------------------------------|------|--------|--|------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Chloromethane                    | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Vinyl chloride                   | ND   | 0.200  |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Bromomethane                     | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Trichlorofluoromethane (CFC-11)  | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Chloroethane                     | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 1,1-Dichloroethene               | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Methylene chloride               | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| trans-1,2-Dichloroethene         | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Methyl tert-butyl ether (MTBE)   | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 1,1-Dichloroethane               | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 2,2-Dichloropropane              | ND   | 2.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| cis-1,2-Dichloroethene           | 8.22 | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Chloroform                       | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 1,1,1-Trichloroethane (TCA)      | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 1,1-Dichloropropene              | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Carbon tetrachloride             | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 1,2-Dichloroethane (EDC)         | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Benzene                          | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Trichloroethene (TCE)            | ND   | 0.500  |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 1,2-Dichloropropane              | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Bromodichloromethane             | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Dibromomethane                   | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| cis-1,3-Dichloropropene          | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Toluene                          | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| trans-1,3-Dichloropropene        | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 1,1,2-Trichloroethane            | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 1,3-Dichloropropane              | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Tetrachloroethene (PCE)          | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Dibromochloromethane             | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 1,2-Dibromoethane (EDB)          | ND   | 0.0600 |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Chlorobenzene                    | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 1,1,1,2-Tetrachloroethane        | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Ethylbenzene                     | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| m,p-Xylene                       | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| o-Xylene                         | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Styrene                          | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Isopropylbenzene                 | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Bromoform                        | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 5:36:00 AM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 2:00:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-022

**Matrix:** Groundwater

**Client Sample ID:** SB-15-W

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23575      Analyst: AK

|                               |      |          |  |      |   |                      |
|-------------------------------|------|----------|--|------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| n-Propylbenzene               | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Bromobenzene                  | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 2-Chlorotoluene               | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 4-Chlorotoluene               | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| tert-Butylbenzene             | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 1,2,3-Trichloropropane        | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 2.00     |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| sec-Butylbenzene              | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 4-Isopropyltoluene            | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 1,3-Dichlorobenzene           | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 1,4-Dichlorobenzene           | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| n-Butylbenzene                | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 1,2-Dichlorobenzene           | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Hexachlorobutadiene           | ND   | 4.00     |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Naphthalene                   | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 4.00     |  | µg/L | 1 | 7/15/2015 5:36:00 AM |
| Surr: Dibromofluoromethane    | 102  | 77.4-147 |  | %REC | 1 | 7/15/2015 5:36:00 AM |
| Surr: Toluene-d8              | 105  | 40.1-139 |  | %REC | 1 | 7/15/2015 5:36:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 93.9 | 64.2-128 |  | %REC | 1 | 7/15/2015 5:36:00 AM |

**Ion Chromatography by EPA Method 300.0**

Batch ID: R23515      Analyst: KT

|          |       |       |  |      |   |                      |
|----------|-------|-------|--|------|---|----------------------|
| Fluoride | 0.126 | 0.100 |  | mg/L | 1 | 7/10/2015 3:00:00 PM |
|----------|-------|-------|--|------|---|----------------------|



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 2:45:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-023

**Matrix:** Groundwater

**Client Sample ID:** SB-17-W

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23575

Analyst: AK

|                                  |      |        |  |      |   |                      |
|----------------------------------|------|--------|--|------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Chloromethane                    | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Vinyl chloride                   | ND   | 0.200  |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Bromomethane                     | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Trichlorofluoromethane (CFC-11)  | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Chloroethane                     | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 1,1-Dichloroethene               | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Methylene chloride               | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| trans-1,2-Dichloroethene         | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Methyl tert-butyl ether (MTBE)   | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 1,1-Dichloroethane               | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 2,2-Dichloropropane              | ND   | 2.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| cis-1,2-Dichloroethene           | 10.4 | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Chloroform                       | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 1,1,1-Trichloroethane (TCA)      | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 1,1-Dichloropropene              | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Carbon tetrachloride             | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 1,2-Dichloroethane (EDC)         | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Benzene                          | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Trichloroethene (TCE)            | ND   | 0.500  |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 1,2-Dichloropropane              | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Bromodichloromethane             | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Dibromomethane                   | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| cis-1,3-Dichloropropene          | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Toluene                          | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| trans-1,3-Dichloropropene        | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 1,1,2-Trichloroethane            | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 1,3-Dichloropropane              | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Tetrachloroethene (PCE)          | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Dibromochloromethane             | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 1,2-Dibromoethane (EDB)          | ND   | 0.0600 |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Chlorobenzene                    | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 1,1,1,2-Tetrachloroethane        | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Ethylbenzene                     | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| m,p-Xylene                       | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| o-Xylene                         | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Styrene                          | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Isopropylbenzene                 | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Bromoform                        | ND   | 1.00   |  | µg/L | 1 | 7/15/2015 6:32:00 AM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 2:45:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-023

**Matrix:** Groundwater

**Client Sample ID:** SB-17-W

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23575      Analyst: AK

|                               |      |          |  |      |   |                      |
|-------------------------------|------|----------|--|------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| n-Propylbenzene               | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Bromobenzene                  | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 2-Chlorotoluene               | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 4-Chlorotoluene               | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| tert-Butylbenzene             | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 1,2,3-Trichloropropane        | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 2.00     |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| sec-Butylbenzene              | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 4-Isopropyltoluene            | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 1,3-Dichlorobenzene           | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 1,4-Dichlorobenzene           | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| n-Butylbenzene                | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 1,2-Dichlorobenzene           | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Hexachlorobutadiene           | ND   | 4.00     |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Naphthalene                   | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 4.00     |  | µg/L | 1 | 7/15/2015 6:32:00 AM |
| Surr: Dibromofluoromethane    | 99.1 | 77.4-147 |  | %REC | 1 | 7/15/2015 6:32:00 AM |
| Surr: Toluene-d8              | 104  | 40.1-139 |  | %REC | 1 | 7/15/2015 6:32:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 94.1 | 64.2-128 |  | %REC | 1 | 7/15/2015 6:32:00 AM |

**Ion Chromatography by EPA Method 300.0**

Batch ID: R23515      Analyst: KT

|          |    |       |  |      |   |                      |
|----------|----|-------|--|------|---|----------------------|
| Fluoride | ND | 0.100 |  | mg/L | 1 | 7/10/2015 3:11:00 PM |
|----------|----|-------|--|------|---|----------------------|





# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 4:00:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-024

**Matrix:** Wastewater

**Client Sample ID:** Drum-W

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23575      Analyst: AK

|                                  |    |      |   |      |    |                      |
|----------------------------------|----|------|---|------|----|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Chloromethane                    | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Vinyl chloride                   | ND | 10.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Bromomethane                     | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Trichlorofluoromethane (CFC-11)  | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Chloroethane                     | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 1,1-Dichloroethene               | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Methylene chloride               | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| trans-1,2-Dichloroethene         | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Methyl tert-butyl ether (MTBE)   | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 1,1-Dichloroethane               | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 2,2-Dichloropropane              | ND | 100  | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| cis-1,2-Dichloroethene           | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Chloroform                       | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 1,1,1-Trichloroethane (TCA)      | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 1,1-Dichloropropene              | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Carbon tetrachloride             | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 1,2-Dichloroethane (EDC)         | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Benzene                          | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Trichloroethene (TCE)            | ND | 25.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 1,2-Dichloropropane              | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Bromodichloromethane             | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Dibromomethane                   | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| cis-1,3-Dichloropropene          | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Toluene                          | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| trans-1,3-Dichloropropene        | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 1,1,2-Trichloroethane            | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 1,3-Dichloropropane              | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Tetrachloroethene (PCE)          | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Dibromochloromethane             | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 1,2-Dibromoethane (EDB)          | ND | 3.00 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Chlorobenzene                    | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 1,1,1,2-Tetrachloroethane        | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Ethylbenzene                     | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| m,p-Xylene                       | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| o-Xylene                         | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Styrene                          | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Isopropylbenzene                 | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Bromoform                        | ND | 50.0 | D | µg/L | 50 | 7/16/2015 7:34:00 AM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/9/2015 4:00:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-024

**Matrix:** Wastewater

**Client Sample ID:** Drum-W

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23575      Analyst: AK

|                               |     |          |   |      |    |                      |
|-------------------------------|-----|----------|---|------|----|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND  | 50.0     | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| n-Propylbenzene               | ND  | 50.0     | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Bromobenzene                  | ND  | 50.0     | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 1,3,5-Trimethylbenzene        | ND  | 50.0     | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 2-Chlorotoluene               | ND  | 50.0     | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 4-Chlorotoluene               | ND  | 50.0     | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| tert-Butylbenzene             | ND  | 50.0     | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 1,2,3-Trichloropropane        | ND  | 50.0     | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 1,2,4-Trichlorobenzene        | ND  | 100      | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| sec-Butylbenzene              | ND  | 50.0     | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 4-Isopropyltoluene            | ND  | 50.0     | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 1,3-Dichlorobenzene           | ND  | 50.0     | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 1,4-Dichlorobenzene           | ND  | 50.0     | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| n-Butylbenzene                | ND  | 50.0     | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 1,2-Dichlorobenzene           | ND  | 50.0     | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND  | 50.0     | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 1,2,4-Trimethylbenzene        | ND  | 50.0     | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Hexachlorobutadiene           | ND  | 200      | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Naphthalene                   | ND  | 50.0     | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| 1,2,3-Trichlorobenzene        | ND  | 200      | D | µg/L | 50 | 7/16/2015 7:34:00 AM |
| Surr: Dibromofluoromethane    | 102 | 77.4-147 | D | %REC | 50 | 7/16/2015 7:34:00 AM |
| Surr: Toluene-d8              | 104 | 40.1-139 | D | %REC | 50 | 7/16/2015 7:34:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 100 | 64.2-128 | D | %REC | 50 | 7/16/2015 7:34:00 AM |

**NOTES:**

Sample run at a dilution due to the sample matrix.



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/6/2015 1:00:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-025

**Matrix:** Water

**Client Sample ID:** Trip Blank

| Analyses   | Result | RL     | Qual | Units | DF               | Date Analyzed        |
|--|--------|--------|------|-------|------------------|----------------------|
| <b>Volatile Organic Compounds by EPA Method 8260</b> |        |        |      |       | Batch ID: R23575 | Analyst: AK          |
| Dichlorodifluoromethane (CFC-12)                     | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| Chloromethane  | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| Vinyl chloride                                       | ND     | 0.200  |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| Bromomethane   | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| Trichlorofluoromethane (CFC-11)                      | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| Chloroethane   | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| 1,1-Dichloroethene                                   | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| Methylene chloride                                   | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| trans-1,2-Dichloroethene                             | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| Methyl tert-butyl ether (MTBE)                       | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| 1,1-Dichloroethane                                   | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| 2,2-Dichloropropane                                  | ND     | 2.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| cis-1,2-Dichloroethene                               | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| Chloroform   | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| 1,1,1-Trichloroethane (TCA)                          | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| 1,1-Dichloropropene                                  | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| Carbon tetrachloride                                 | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| 1,2-Dichloroethane (EDC)                             | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| Benzene  | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| Trichloroethene (TCE)                                | ND     | 0.500  |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| 1,2-Dichloropropane                                  | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| Bromodichloromethane                                 | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| Dibromomethane                                       | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| cis-1,3-Dichloropropene                              | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| Toluene  | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| trans-1,3-Dichloropropene                            | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| 1,1,2-Trichloroethane                                | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| 1,3-Dichloropropane                                  | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| Tetrachloroethene (PCE)                              | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| Dibromochloromethane                                 | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| 1,2-Dibromoethane (EDB)                              | ND     | 0.0600 |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| Chlorobenzene  | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| 1,1,1,2-Tetrachloroethane                            | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| Ethylbenzene   | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| m,p-Xylene   | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| o-Xylene   | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| Styrene  | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| Isopropylbenzene                                     | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |
| Bromoform  | ND     | 1.00   |      | µg/L  | 1                | 7/15/2015 3:18:00 AM |



# Analytical Report

WO#: 1507095  
Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II  
**Lab ID:** 1507095-025  
**Client Sample ID:** Trip Blank

**Collection Date:** 7/6/2015 1:00:00 PM  
**Matrix:** Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23575      Analyst: AK

|                               |      |          |  |      |   |                      |
|-------------------------------|------|----------|--|------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 3:18:00 AM |
| n-Propylbenzene               | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 3:18:00 AM |
| Bromobenzene                  | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 3:18:00 AM |
| 1,3,5-Trimethylbenzene        | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 3:18:00 AM |
| 2-Chlorotoluene               | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 3:18:00 AM |
| 4-Chlorotoluene               | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 3:18:00 AM |
| tert-Butylbenzene             | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 3:18:00 AM |
| 1,2,3-Trichloropropane        | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 3:18:00 AM |
| 1,2,4-Trichlorobenzene        | ND   | 2.00     |  | µg/L | 1 | 7/15/2015 3:18:00 AM |
| sec-Butylbenzene              | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 3:18:00 AM |
| 4-Isopropyltoluene            | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 3:18:00 AM |
| 1,3-Dichlorobenzene           | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 3:18:00 AM |
| 1,4-Dichlorobenzene           | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 3:18:00 AM |
| n-Butylbenzene                | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 3:18:00 AM |
| 1,2-Dichlorobenzene           | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 3:18:00 AM |
| 1,2-Dibromo-3-chloropropane   | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 3:18:00 AM |
| 1,2,4-Trimethylbenzene        | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 3:18:00 AM |
| Hexachlorobutadiene           | ND   | 4.00     |  | µg/L | 1 | 7/15/2015 3:18:00 AM |
| Naphthalene                   | ND   | 1.00     |  | µg/L | 1 | 7/15/2015 3:18:00 AM |
| 1,2,3-Trichlorobenzene        | ND   | 4.00     |  | µg/L | 1 | 7/15/2015 3:18:00 AM |
| Surr: Dibromofluoromethane    | 96.8 | 77.4-147 |  | %REC | 1 | 7/15/2015 3:18:00 AM |
| Surr: Toluene-d8              | 101  | 40.1-139 |  | %REC | 1 | 7/15/2015 3:18:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 98.2 | 64.2-128 |  | %REC | 1 | 7/15/2015 3:18:00 AM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/6/2015 1:45:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-026

**Matrix:** Soil

**Client Sample ID:** Trip Blank

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                                  |    |         |  |       |   |                      |
|----------------------------------|----|---------|--|-------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND | 0.0600  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Chloromethane                    | ND | 0.0600  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Vinyl chloride                   | ND | 0.00200 |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Bromomethane                     | ND | 0.0900  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Trichlorofluoromethane (CFC-11)  | ND | 0.0500  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Chloroethane                     | ND | 0.0600  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 1,1-Dichloroethene               | ND | 0.0500  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Methylene chloride               | ND | 0.0200  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| trans-1,2-Dichloroethene         | ND | 0.0200  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Methyl tert-butyl ether (MTBE)   | ND | 0.0500  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 1,1-Dichloroethane               | ND | 0.0200  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 2,2-Dichloropropane              | ND | 0.0500  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| cis-1,2-Dichloroethene           | ND | 0.0200  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Chloroform                       | ND | 0.0200  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 1,1,1-Trichloroethane (TCA)      | ND | 0.0200  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 1,1-Dichloropropene              | ND | 0.0200  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Carbon tetrachloride             | ND | 0.0200  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 1,2-Dichloroethane (EDC)         | ND | 0.0300  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Benzene                          | ND | 0.0200  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Trichloroethene (TCE)            | ND | 0.0200  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 1,2-Dichloropropane              | ND | 0.0200  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Bromodichloromethane             | ND | 0.0200  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Dibromomethane                   | ND | 0.0400  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| cis-1,3-Dichloropropene          | ND | 0.0200  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Toluene                          | ND | 0.0200  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| trans-1,3-Dichloropropylene      | ND | 0.0300  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 1,1,2-Trichloroethane            | ND | 0.0300  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 1,3-Dichloropropane              | ND | 0.0500  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Tetrachloroethene (PCE)          | ND | 0.0200  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Dibromochloromethane             | ND | 0.0300  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 1,2-Dibromoethane (EDB)          | ND | 0.00500 |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Chlorobenzene                    | ND | 0.0200  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 1,1,1,2-Tetrachloroethane        | ND | 0.0300  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Ethylbenzene                     | ND | 0.0300  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| m,p-Xylene                       | ND | 0.0200  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| o-Xylene                         | ND | 0.0200  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Styrene                          | ND | 0.0200  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Isopropylbenzene                 | ND | 0.0800  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Bromoform                        | ND | 0.0200  |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |



# Analytical Report

WO#: 1507095

Date Reported: 7/17/2015

**Client:** PES Environmental, Inc.

**Collection Date:** 7/6/2015 1:45:00 PM

**Project:** Bethel Junction Phase II

**Lab ID:** 1507095-026

**Matrix:** Soil

**Client Sample ID:** Trip Blank

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11306

Analyst: BC

|                               |     |          |  |       |   |                      |
|-------------------------------|-----|----------|--|-------|---|----------------------|
| 1,1,2,2-Tetrachloroethane     | ND  | 0.0200   |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| n-Propylbenzene               | ND  | 0.0200   |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Bromobenzene                  | ND  | 0.0300   |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 1,3,5-Trimethylbenzene        | ND  | 0.0200   |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 2-Chlorotoluene               | ND  | 0.0200   |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 4-Chlorotoluene               | ND  | 0.0200   |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| tert-Butylbenzene             | ND  | 0.0200   |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 1,2,3-Trichloropropane        | ND  | 0.0200   |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 1,2,4-Trichlorobenzene        | ND  | 0.0500   |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| sec-Butylbenzene              | ND  | 0.0200   |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 4-Isopropyltoluene            | ND  | 0.0200   |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 1,3-Dichlorobenzene           | ND  | 0.0200   |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 1,4-Dichlorobenzene           | ND  | 0.0200   |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| n-Butylbenzene                | ND  | 0.0200   |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 1,2-Dichlorobenzene           | ND  | 0.0200   |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 1,2-Dibromo-3-chloropropane   | ND  | 0.500    |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 1,2,4-Trimethylbenzene        | ND  | 0.0200   |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Hexachlorobutadiene           | ND  | 0.100    |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Naphthalene                   | ND  | 0.0300   |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| 1,2,3-Trichlorobenzene        | ND  | 0.0200   |  | mg/Kg | 1 | 7/13/2015 3:02:00 PM |
| Surr: Dibromofluoromethane    | 103 | 63.7-129 |  | %REC  | 1 | 7/13/2015 3:02:00 PM |
| Surr: Toluene-d8              | 105 | 64.3-131 |  | %REC  | 1 | 7/13/2015 3:02:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 100 | 63.1-141 |  | %REC  | 1 | 7/13/2015 3:02:00 PM |



Date: 7/17/2015

**Work Order:** 1507095  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Ion Chromatography by EPA Method 300.0**

|                            |                         |                    |           |             |                                 |                      |           |             |      |          |      |
|----------------------------|-------------------------|--------------------|-----------|-------------|---------------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID <b>MB-R23515</b> | SampType: <b>MBLK</b>   | Units: <b>mg/L</b> |           |             | Prep Date: <b>7/10/2015</b>     | RunNo: <b>23515</b>  |           |             |      |          |      |
| Client ID: <b>MBLKW</b>    | Batch ID: <b>R23515</b> |                    |           |             | Analysis Date: <b>7/10/2015</b> | SeqNo: <b>445527</b> |           |             |      |          |      |
| Analyte                    | Result                  | RL                 | SPK value | SPK Ref Val | %REC                            | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Fluoride ND 0.100

|                             |                         |                    |           |             |                                 |                      |           |             |      |          |      |
|-----------------------------|-------------------------|--------------------|-----------|-------------|---------------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID <b>LCS-R23515</b> | SampType: <b>LCS</b>    | Units: <b>mg/L</b> |           |             | Prep Date: <b>7/10/2015</b>     | RunNo: <b>23515</b>  |           |             |      |          |      |
| Client ID: <b>LCSW</b>      | Batch ID: <b>R23515</b> |                    |           |             | Analysis Date: <b>7/10/2015</b> | SeqNo: <b>445528</b> |           |             |      |          |      |
| Analyte                     | Result                  | RL                 | SPK value | SPK Ref Val | %REC                            | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Fluoride 2.07 0.100 2.000 0 103 90 110

|                                  |                         |                    |           |             |                                 |                      |           |             |      |          |      |
|----------------------------------|-------------------------|--------------------|-----------|-------------|---------------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID <b>1507087-001BDUP</b> | SampType: <b>DUP</b>    | Units: <b>mg/L</b> |           |             | Prep Date: <b>7/10/2015</b>     | RunNo: <b>23515</b>  |           |             |      |          |      |
| Client ID: <b>BATCH</b>          | Batch ID: <b>R23515</b> |                    |           |             | Analysis Date: <b>7/10/2015</b> | SeqNo: <b>445530</b> |           |             |      |          |      |
| Analyte                          | Result                  | RL                 | SPK value | SPK Ref Val | %REC                            | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Fluoride 0.173 0.100 0.2177 22.9 20

|                                 |                         |                    |           |             |                                 |                      |           |             |      |          |      |
|---------------------------------|-------------------------|--------------------|-----------|-------------|---------------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID <b>1507087-001BMS</b> | SampType: <b>MS</b>     | Units: <b>mg/L</b> |           |             | Prep Date: <b>7/10/2015</b>     | RunNo: <b>23515</b>  |           |             |      |          |      |
| Client ID: <b>BATCH</b>         | Batch ID: <b>R23515</b> |                    |           |             | Analysis Date: <b>7/10/2015</b> | SeqNo: <b>445531</b> |           |             |      |          |      |
| Analyte                         | Result                  | RL                 | SPK value | SPK Ref Val | %REC                            | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Fluoride 2.06 0.100 2.000 0.2177 92.0 80 120

|                                  |                         |                    |           |             |                                 |                      |           |             |      |          |      |
|----------------------------------|-------------------------|--------------------|-----------|-------------|---------------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID <b>1507087-001BMSD</b> | SampType: <b>MSD</b>    | Units: <b>mg/L</b> |           |             | Prep Date: <b>7/10/2015</b>     | RunNo: <b>23515</b>  |           |             |      |          |      |
| Client ID: <b>BATCH</b>          | Batch ID: <b>R23515</b> |                    |           |             | Analysis Date: <b>7/10/2015</b> | SeqNo: <b>445532</b> |           |             |      |          |      |
| Analyte                          | Result                  | RL                 | SPK value | SPK Ref Val | %REC                            | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Fluoride 2.12 0.100 2.000 0.2177 95.0 80 120 2.058 2.80 20



**Work Order:** 1507095  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID <b>1507114-001BDUP</b> | SampType: <b>DUP</b>   | Units: <b>mg/Kg-dry</b> | Prep Date: <b>7/13/2015</b>     | RunNo: <b>23529</b>  |      |          |           |             |      |          |      |
|----------------------------------|------------------------|-------------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>BATCH</b>          | Batch ID: <b>11306</b> |                         | Analysis Date: <b>7/13/2015</b> | SeqNo: <b>445751</b> |      |          |           |             |      |          |      |
| Analyte                          | Result                 | RL                      | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                                  |    |         |  |  |  |  |  |   |  |    |  |
|----------------------------------|----|---------|--|--|--|--|--|---|--|----|--|
| Dichlorodifluoromethane (CFC-12) | ND | 0.0593  |  |  |  |  |  | 0 |  | 30 |  |
| Chloromethane                    | ND | 0.0593  |  |  |  |  |  | 0 |  | 30 |  |
| Vinyl chloride                   | ND | 0.00198 |  |  |  |  |  | 0 |  | 30 |  |
| Bromomethane                     | ND | 0.0889  |  |  |  |  |  | 0 |  | 30 |  |
| Trichlorofluoromethane (CFC-11)  | ND | 0.0494  |  |  |  |  |  | 0 |  | 30 |  |
| Chloroethane                     | ND | 0.0593  |  |  |  |  |  | 0 |  | 30 |  |
| 1,1-Dichloroethene               | ND | 0.0494  |  |  |  |  |  | 0 |  | 30 |  |
| Methylene chloride               | ND | 0.0198  |  |  |  |  |  | 0 |  | 30 |  |
| trans-1,2-Dichloroethene         | ND | 0.0198  |  |  |  |  |  | 0 |  | 30 |  |
| Methyl tert-butyl ether (MTBE)   | ND | 0.0494  |  |  |  |  |  | 0 |  | 30 |  |
| 1,1-Dichloroethane               | ND | 0.0198  |  |  |  |  |  | 0 |  | 30 |  |
| 2,2-Dichloropropane              | ND | 0.0494  |  |  |  |  |  | 0 |  | 30 |  |
| cis-1,2-Dichloroethene           | ND | 0.0198  |  |  |  |  |  | 0 |  | 30 |  |
| Chloroform                       | ND | 0.0198  |  |  |  |  |  | 0 |  | 30 |  |
| 1,1,1-Trichloroethane (TCA)      | ND | 0.0198  |  |  |  |  |  | 0 |  | 30 |  |
| 1,1-Dichloropropene              | ND | 0.0198  |  |  |  |  |  | 0 |  | 30 |  |
| Carbon tetrachloride             | ND | 0.0198  |  |  |  |  |  | 0 |  | 30 |  |
| 1,2-Dichloroethane (EDC)         | ND | 0.0296  |  |  |  |  |  | 0 |  | 30 |  |
| Benzene                          | ND | 0.0198  |  |  |  |  |  | 0 |  | 30 |  |
| Trichloroethene (TCE)            | ND | 0.0198  |  |  |  |  |  | 0 |  | 30 |  |
| 1,2-Dichloropropane              | ND | 0.0198  |  |  |  |  |  | 0 |  | 30 |  |
| Bromodichloromethane             | ND | 0.0198  |  |  |  |  |  | 0 |  | 30 |  |
| Dibromomethane                   | ND | 0.0395  |  |  |  |  |  | 0 |  | 30 |  |
| cis-1,3-Dichloropropene          | ND | 0.0198  |  |  |  |  |  | 0 |  | 30 |  |
| Toluene                          | ND | 0.0198  |  |  |  |  |  | 0 |  | 30 |  |
| trans-1,3-Dichloropropylene      | ND | 0.0296  |  |  |  |  |  | 0 |  | 30 |  |
| 1,1,2-Trichloroethane            | ND | 0.0296  |  |  |  |  |  | 0 |  | 30 |  |
| 1,3-Dichloropropane              | ND | 0.0494  |  |  |  |  |  | 0 |  | 30 |  |
| Tetrachloroethene (PCE)          | ND | 0.0198  |  |  |  |  |  | 0 |  | 30 |  |
| Dibromochloromethane             | ND | 0.0296  |  |  |  |  |  | 0 |  | 30 |  |
| 1,2-Dibromoethane (EDB)          | ND | 0.00494 |  |  |  |  |  | 0 |  | 30 |  |





Date: 7/17/2015

Work Order: 1507095  
 CLIENT: PES Environmental, Inc.  
 Project: Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID                     | 1507114-001BDUP | SampType: | DUP       | Units:         | mg/Kg-dry | Prep Date: | 7/13/2015 | RunNo:      | 23529 |          |      |
|-------------------------------|-----------------|-----------|-----------|----------------|-----------|------------|-----------|-------------|-------|----------|------|
| Client ID:                    | BATCH           | Batch ID: | 11306     | Analysis Date: | 7/13/2015 | SeqNo:     | 445751    |             |       |          |      |
| Analyte                       | Result          | RL        | SPK value | SPK Ref Val    | %REC      | LowLimit   | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Chlorobenzene                 | ND              | 0.0198    |           |                |           |            |           | 0           |       | 30       |      |
| 1,1,1,2-Tetrachloroethane     | ND              | 0.0296    |           |                |           |            |           | 0           |       | 30       |      |
| Ethylbenzene                  | ND              | 0.0296    |           |                |           |            |           | 0           |       | 30       |      |
| m,p-Xylene                    | 0.0617          | 0.0198    |           |                |           |            |           | 0.06174     | 0     | 30       |      |
| o-Xylene                      | 0.0459          | 0.0198    |           |                |           |            |           | 0.04445     | 3.28  | 30       |      |
| Styrene                       | ND              | 0.0198    |           |                |           |            |           | 0           |       | 30       |      |
| Isopropylbenzene              | ND              | 0.0790    |           |                |           |            |           | 0           |       | 30       |      |
| Bromoform                     | ND              | 0.0198    |           |                |           |            |           | 0           |       | 30       |      |
| 1,1,2,2-Tetrachloroethane     | ND              | 0.0198    |           |                |           |            |           | 0           |       | 30       |      |
| n-Propylbenzene               | ND              | 0.0198    |           |                |           |            |           | 0           |       | 30       |      |
| Bromobenzene                  | ND              | 0.0296    |           |                |           |            |           | 0           |       | 30       |      |
| 1,3,5-Trimethylbenzene        | ND              | 0.0198    |           |                |           |            |           | 0           |       | 30       |      |
| 2-Chlorotoluene               | ND              | 0.0198    |           |                |           |            |           | 0           |       | 30       |      |
| 4-Chlorotoluene               | ND              | 0.0198    |           |                |           |            |           | 0           |       | 30       |      |
| tert-Butylbenzene             | ND              | 0.0198    |           |                |           |            |           | 0           |       | 30       |      |
| 1,2,3-Trichloropropane        | ND              | 0.0198    |           |                |           |            |           | 0           |       | 30       |      |
| 1,2,4-Trichlorobenzene        | ND              | 0.0494    |           |                |           |            |           | 0           |       | 30       |      |
| sec-Butylbenzene              | ND              | 0.0198    |           |                |           |            |           | 0           |       | 30       |      |
| 4-Isopropyltoluene            | ND              | 0.0198    |           |                |           |            |           | 0           |       | 30       |      |
| 1,3-Dichlorobenzene           | ND              | 0.0198    |           |                |           |            |           | 0           |       | 30       |      |
| 1,4-Dichlorobenzene           | ND              | 0.0198    |           |                |           |            |           | 0           |       | 30       |      |
| n-Butylbenzene                | ND              | 0.0198    |           |                |           |            |           | 0           |       | 30       |      |
| 1,2-Dichlorobenzene           | ND              | 0.0198    |           |                |           |            |           | 0           |       | 30       |      |
| 1,2-Dibromo-3-chloropropane   | ND              | 0.494     |           |                |           |            |           | 0           |       | 30       |      |
| 1,2,4-Trimethylbenzene        | ND              | 0.0198    |           |                |           |            |           | 0           |       | 30       |      |
| Hexachlorobutadiene           | ND              | 0.0988    |           |                |           |            |           | 0           |       | 30       |      |
| Naphthalene                   | 0.0410          | 0.0296    |           |                |           |            |           | 0.04198     | 2.38  | 30       |      |
| 1,2,3-Trichlorobenzene        | ND              | 0.0198    |           |                |           |            |           | 0           |       | 30       |      |
| Surr: Dibromofluoromethane    | 1.24            |           | 1.235     |                | 100       | 63.7       | 129       |             | 0     |          |      |
| Surr: Toluene-d8              | 1.27            |           | 1.235     |                | 103       | 64.3       | 131       |             | 0     |          |      |
| Surr: 1-Bromo-4-fluorobenzene | 1.24            |           | 1.235     |                | 101       | 63.1       | 141       |             | 0     |          |      |



**Work Order:** 1507095  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

|                                  |                        |                         |                                 |                      |      |          |           |             |      |          |      |
|----------------------------------|------------------------|-------------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID <b>1507114-001BDUP</b> | SampType: <b>DUP</b>   | Units: <b>mg/Kg-dry</b> | Prep Date: <b>7/13/2015</b>     | RunNo: <b>23529</b>  |      |          |           |             |      |          |      |
| Client ID: <b>BATCH</b>          | Batch ID: <b>11306</b> |                         | Analysis Date: <b>7/13/2015</b> | SeqNo: <b>445751</b> |      |          |           |             |      |          |      |
| Analyte                          | Result                 | RL                      | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                            |                        |                     |                                 |                      |      |          |           |             |      |          |      |
|----------------------------|------------------------|---------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID <b>LCS-11306</b> | SampType: <b>LCS</b>   | Units: <b>mg/Kg</b> | Prep Date: <b>7/13/2015</b>     | RunNo: <b>23529</b>  |      |          |           |             |      |          |      |
| Client ID: <b>LCSS</b>     | Batch ID: <b>11306</b> |                     | Analysis Date: <b>7/13/2015</b> | SeqNo: <b>445753</b> |      |          |           |             |      |          |      |
| Analyte                    | Result                 | RL                  | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                                  |       |         |       |   |      |      |     |  |  |  |  |
|----------------------------------|-------|---------|-------|---|------|------|-----|--|--|--|--|
| Dichlorodifluoromethane (CFC-12) | 1.13  | 0.0600  | 1.000 | 0 | 113  | 37.2 | 139 |  |  |  |  |
| Chloromethane                    | 1.07  | 0.0600  | 1.000 | 0 | 107  | 38.8 | 132 |  |  |  |  |
| Vinyl chloride                   | 0.937 | 0.00200 | 1.000 | 0 | 93.6 | 56.1 | 130 |  |  |  |  |
| Bromomethane                     | 0.924 | 0.0900  | 1.000 | 0 | 92.4 | 41.3 | 148 |  |  |  |  |
| Trichlorofluoromethane (CFC-11)  | 0.736 | 0.0500  | 1.000 | 0 | 73.6 | 42.9 | 147 |  |  |  |  |
| Chloroethane                     | 0.874 | 0.0600  | 1.000 | 0 | 87.4 | 37.1 | 144 |  |  |  |  |
| 1,1-Dichloroethene               | 0.784 | 0.0500  | 1.000 | 0 | 78.4 | 49.7 | 142 |  |  |  |  |
| Methylene chloride               | 0.852 | 0.0200  | 1.000 | 0 | 85.2 | 46.3 | 140 |  |  |  |  |
| trans-1,2-Dichloroethene         | 0.861 | 0.0200  | 1.000 | 0 | 86.1 | 68   | 130 |  |  |  |  |
| Methyl tert-butyl ether (MTBE)   | 0.843 | 0.0500  | 1.000 | 0 | 84.3 | 59.1 | 138 |  |  |  |  |
| 1,1-Dichloroethane               | 0.895 | 0.0200  | 1.000 | 0 | 89.4 | 65.5 | 132 |  |  |  |  |
| 2,2-Dichloropropane              | 1.01  | 0.0500  | 1.000 | 0 | 101  | 28.1 | 149 |  |  |  |  |
| cis-1,2-Dichloroethene           | 0.905 | 0.0200  | 1.000 | 0 | 90.5 | 71.3 | 135 |  |  |  |  |
| Chloroform                       | 0.898 | 0.0200  | 1.000 | 0 | 89.8 | 67.5 | 129 |  |  |  |  |
| 1,1,1-Trichloroethane (TCA)      | 0.948 | 0.0200  | 1.000 | 0 | 94.8 | 69   | 132 |  |  |  |  |
| 1,1-Dichloropropene              | 0.883 | 0.0200  | 1.000 | 0 | 88.3 | 72.7 | 131 |  |  |  |  |
| Carbon tetrachloride             | 0.956 | 0.0200  | 1.000 | 0 | 95.6 | 63.4 | 137 |  |  |  |  |
| 1,2-Dichloroethane (EDC)         | 0.888 | 0.0300  | 1.000 | 0 | 88.8 | 61.9 | 136 |  |  |  |  |
| Benzene                          | 0.885 | 0.0200  | 1.000 | 0 | 88.4 | 64.3 | 133 |  |  |  |  |
| Trichloroethene (TCE)            | 0.890 | 0.0200  | 1.000 | 0 | 89.0 | 65.5 | 137 |  |  |  |  |
| 1,2-Dichloropropane              | 0.910 | 0.0200  | 1.000 | 0 | 91.0 | 63.2 | 142 |  |  |  |  |
| Bromodichloromethane             | 1.05  | 0.0200  | 1.000 | 0 | 105  | 73.2 | 131 |  |  |  |  |
| Dibromomethane                   | 0.942 | 0.0400  | 1.000 | 0 | 94.2 | 70   | 130 |  |  |  |  |
| cis-1,3-Dichloropropene          | 1.06  | 0.0200  | 1.000 | 0 | 106  | 59.1 | 143 |  |  |  |  |
| Toluene                          | 0.886 | 0.0200  | 1.000 | 0 | 88.6 | 67.3 | 138 |  |  |  |  |
| trans-1,3-Dichloropropylene      | 1.09  | 0.0300  | 1.000 | 0 | 109  | 49.2 | 149 |  |  |  |  |



**Work Order:** 1507095  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

|                            |                        |                     |                                 |                      |
|----------------------------|------------------------|---------------------|---------------------------------|----------------------|
| Sample ID <b>LCS-11306</b> | SampType: <b>LCS</b>   | Units: <b>mg/Kg</b> | Prep Date: <b>7/13/2015</b>     | RunNo: <b>23529</b>  |
| Client ID: <b>LCSS</b>     | Batch ID: <b>11306</b> |                     | Analysis Date: <b>7/13/2015</b> | SeqNo: <b>445753</b> |

| Analyte                     | Result | RL      | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------------|--------|---------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| 1,1,2-Trichloroethane       | 0.937  | 0.0300  | 1.000     | 0           | 93.6 | 74.5     | 129       |             |      |          |      |
| 1,3-Dichloropropane         | 0.919  | 0.0500  | 1.000     | 0           | 91.9 | 70       | 130       |             |      |          |      |
| Tetrachloroethene (PCE)     | 0.864  | 0.0200  | 1.000     | 0           | 86.4 | 52.7     | 150       |             |      |          |      |
| Dibromochloromethane        | 1.19   | 0.0300  | 1.000     | 0           | 119  | 70.6     | 144       |             |      |          |      |
| 1,2-Dibromoethane (EDB)     | 0.996  | 0.00500 | 1.000     | 0           | 99.6 | 70       | 130       |             |      |          |      |
| Chlorobenzene               | 0.864  | 0.0200  | 1.000     | 0           | 86.4 | 76.1     | 123       |             |      |          |      |
| 1,1,1,2-Tetrachloroethane   | 1.07   | 0.0300  | 1.000     | 0           | 107  | 74.8     | 131       |             |      |          |      |
| Ethylbenzene                | 0.880  | 0.0300  | 1.000     | 0           | 88.0 | 74       | 129       |             |      |          |      |
| m,p-Xylene                  | 1.76   | 0.0200  | 2.000     | 0           | 88.2 | 79.8     | 128       |             |      |          |      |
| o-Xylene                    | 0.886  | 0.0200  | 1.000     | 0           | 88.6 | 72.7     | 124       |             |      |          |      |
| Styrene                     | 0.911  | 0.0200  | 1.000     | 0           | 91.1 | 76.8     | 130       |             |      |          |      |
| Isopropylbenzene            | 0.886  | 0.0800  | 1.000     | 0           | 88.6 | 70       | 130       |             |      |          |      |
| Bromoform                   | 1.08   | 0.0200  | 1.000     | 0           | 108  | 67       | 154       |             |      |          |      |
| 1,1,1,2,2-Tetrachloroethane | 0.966  | 0.0200  | 1.000     | 0           | 96.6 | 60       | 130       |             |      |          |      |
| n-Propylbenzene             | 0.908  | 0.0200  | 1.000     | 0           | 90.8 | 74.8     | 125       |             |      |          |      |
| Bromobenzene                | 0.871  | 0.0300  | 1.000     | 0           | 87.1 | 49.2     | 144       |             |      |          |      |
| 1,3,5-Trimethylbenzene      | 0.894  | 0.0200  | 1.000     | 0           | 89.4 | 74.6     | 123       |             |      |          |      |
| 2-Chlorotoluene             | 0.881  | 0.0200  | 1.000     | 0           | 88.1 | 76.7     | 129       |             |      |          |      |
| 4-Chlorotoluene             | 0.888  | 0.0200  | 1.000     | 0           | 88.8 | 77.5     | 125       |             |      |          |      |
| tert-Butylbenzene           | 0.990  | 0.0200  | 1.000     | 0           | 99.0 | 66.2     | 130       |             |      |          |      |
| 1,2,3-Trichloropropane      | 0.950  | 0.0200  | 1.000     | 0           | 95.0 | 67.9     | 136       |             |      |          |      |
| 1,2,4-Trichlorobenzene      | 0.904  | 0.0500  | 1.000     | 0           | 90.4 | 65.6     | 137       |             |      |          |      |
| sec-Butylbenzene            | 1.01   | 0.0200  | 1.000     | 0           | 101  | 75.6     | 133       |             |      |          |      |
| 4-Isopropyltoluene          | 1.02   | 0.0200  | 1.000     | 0           | 102  | 76.8     | 131       |             |      |          |      |
| 1,3-Dichlorobenzene         | 0.839  | 0.0200  | 1.000     | 0           | 83.9 | 72.8     | 128       |             |      |          |      |
| 1,4-Dichlorobenzene         | 0.836  | 0.0200  | 1.000     | 0           | 83.6 | 72.6     | 126       |             |      |          |      |
| n-Butylbenzene              | 0.921  | 0.0200  | 1.000     | 0           | 92.1 | 65.3     | 136       |             |      |          |      |
| 1,2-Dichlorobenzene         | 0.850  | 0.0200  | 1.000     | 0           | 85.0 | 72.8     | 126       |             |      |          |      |
| 1,2-Dibromo-3-chloropropane | 1.17   | 0.500   | 1.000     | 0           | 117  | 61.2     | 139       |             |      |          |      |
| 1,2,4-Trimethylbenzene      | 1.01   | 0.0200  | 1.000     | 0           | 101  | 77.5     | 129       |             |      |          |      |
| Hexachlorobutadiene         | 0.920  | 0.100   | 1.000     | 0           | 92.0 | 42       | 151       |             |      |          |      |

**Work Order:** 1507095  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID <b>LCS-11306</b>    | SampType: <b>LCS</b>   | Units: <b>mg/Kg</b> |           |             |      | Prep Date: <b>7/13/2015</b>     | RunNo: <b>23529</b>  |             |      |          |      |
|-------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|----------------------|-------------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>11306</b> |                     |           |             |      | Analysis Date: <b>7/13/2015</b> | SeqNo: <b>445753</b> |             |      |          |      |
| Analyte                       | Result                 | RL                  | SPK value | SPK Ref Val | %REC | LowLimit                        | HighLimit            | RPD Ref Val | %RPD | RPDLimit | Qual |
| Naphthalene                   | 0.953                  | 0.0300              | 1.000     | 0           | 95.3 | 62.3                            | 134                  |             |      |          |      |
| 1,2,3-Trichlorobenzene        | 0.906                  | 0.0200              | 1.000     | 0           | 90.7 | 62.1                            | 140                  |             |      |          |      |
| Surr: Dibromofluoromethane    | 1.32                   |                     | 1.250     |             | 106  | 63.7                            | 129                  |             |      |          |      |
| Surr: Toluene-d8              | 1.28                   |                     | 1.250     |             | 102  | 64.3                            | 131                  |             |      |          |      |
| Surr: 1-Bromo-4-fluorobenzene | 1.25                   |                     | 1.250     |             | 99.9 | 63.1                            | 141                  |             |      |          |      |

| Sample ID <b>MB-11306</b>        | SampType: <b>MBLK</b>  | Units: <b>mg/Kg</b> |           |             |      | Prep Date: <b>7/13/2015</b>     | RunNo: <b>23529</b>  |             |      |          |      |
|----------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|----------------------|-------------|------|----------|------|
| Client ID: <b>MBLKS</b>          | Batch ID: <b>11306</b> |                     |           |             |      | Analysis Date: <b>7/13/2015</b> | SeqNo: <b>445754</b> |             |      |          |      |
| Analyte                          | Result                 | RL                  | SPK value | SPK Ref Val | %REC | LowLimit                        | HighLimit            | RPD Ref Val | %RPD | RPDLimit | Qual |
| Dichlorodifluoromethane (CFC-12) | ND                     | 0.0600              |           |             |      |                                 |                      |             |      |          |      |
| Chloromethane                    | ND                     | 0.0600              |           |             |      |                                 |                      |             |      |          |      |
| Vinyl chloride                   | ND                     | 0.00200             |           |             |      |                                 |                      |             |      |          |      |
| Bromomethane                     | ND                     | 0.0900              |           |             |      |                                 |                      |             |      |          |      |
| Trichlorofluoromethane (CFC-11)  | ND                     | 0.0500              |           |             |      |                                 |                      |             |      |          |      |
| Chloroethane                     | ND                     | 0.0600              |           |             |      |                                 |                      |             |      |          |      |
| 1,1-Dichloroethene               | ND                     | 0.0500              |           |             |      |                                 |                      |             |      |          |      |
| Methylene chloride               | ND                     | 0.0200              |           |             |      |                                 |                      |             |      |          |      |
| trans-1,2-Dichloroethene         | ND                     | 0.0200              |           |             |      |                                 |                      |             |      |          |      |
| Methyl tert-butyl ether (MTBE)   | ND                     | 0.0500              |           |             |      |                                 |                      |             |      |          |      |
| 1,1-Dichloroethane               | ND                     | 0.0200              |           |             |      |                                 |                      |             |      |          |      |
| 2,2-Dichloropropane              | ND                     | 0.0500              |           |             |      |                                 |                      |             |      |          |      |
| cis-1,2-Dichloroethene           | ND                     | 0.0200              |           |             |      |                                 |                      |             |      |          |      |
| Chloroform                       | ND                     | 0.0200              |           |             |      |                                 |                      |             |      |          |      |
| 1,1,1-Trichloroethane (TCA)      | ND                     | 0.0200              |           |             |      |                                 |                      |             |      |          |      |
| 1,1-Dichloropropene              | ND                     | 0.0200              |           |             |      |                                 |                      |             |      |          |      |
| Carbon tetrachloride             | ND                     | 0.0200              |           |             |      |                                 |                      |             |      |          |      |
| 1,2-Dichloroethane (EDC)         | ND                     | 0.0300              |           |             |      |                                 |                      |             |      |          |      |
| Benzene                          | ND                     | 0.0200              |           |             |      |                                 |                      |             |      |          |      |
| Trichloroethene (TCE)            | ND                     | 0.0200              |           |             |      |                                 |                      |             |      |          |      |
| 1,2-Dichloropropane              | ND                     | 0.0200              |           |             |      |                                 |                      |             |      |          |      |



**Work Order:** 1507095  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID <b>MB-11306</b> | SampType: <b>MBLK</b>  | Units: <b>mg/Kg</b> | Prep Date: <b>7/13/2015</b>     | RunNo: <b>23529</b>  |      |          |           |             |      |          |      |
|---------------------------|------------------------|---------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>MBLKS</b>   | Batch ID: <b>11306</b> |                     | Analysis Date: <b>7/13/2015</b> | SeqNo: <b>445754</b> |      |          |           |             |      |          |      |
| Analyte                   | Result                 | RL                  | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| Analyte                     | Result | RL      | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------------|--------|---------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| Bromodichloromethane        | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| Dibromomethane              | ND     | 0.0400  |           |             |      |          |           |             |      |          |      |
| cis-1,3-Dichloropropene     | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| Toluene                     | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| trans-1,3-Dichloropropylene | ND     | 0.0300  |           |             |      |          |           |             |      |          |      |
| 1,1,2-Trichloroethane       | ND     | 0.0300  |           |             |      |          |           |             |      |          |      |
| 1,3-Dichloropropane         | ND     | 0.0500  |           |             |      |          |           |             |      |          |      |
| Tetrachloroethene (PCE)     | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| Dibromochloromethane        | ND     | 0.0300  |           |             |      |          |           |             |      |          |      |
| 1,2-Dibromoethane (EDB)     | ND     | 0.00500 |           |             |      |          |           |             |      |          |      |
| Chlorobenzene               | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.0300  |           |             |      |          |           |             |      |          |      |
| Ethylbenzene                | ND     | 0.0300  |           |             |      |          |           |             |      |          |      |
| m,p-Xylene                  | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| o-Xylene                    | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| Styrene                     | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| Isopropylbenzene            | ND     | 0.0800  |           |             |      |          |           |             |      |          |      |
| Bromoform                   | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 1,1,1,2,2-Tetrachloroethane | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| n-Propylbenzene             | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| Bromobenzene                | ND     | 0.0300  |           |             |      |          |           |             |      |          |      |
| 1,3,5-Trimethylbenzene      | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 2-Chlorotoluene             | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 4-Chlorotoluene             | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| tert-Butylbenzene           | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 1,2,3-Trichloropropane      | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 1,2,4-Trichlorobenzene      | ND     | 0.0500  |           |             |      |          |           |             |      |          |      |
| sec-Butylbenzene            | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 4-Isopropyltoluene          | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 1,3-Dichlorobenzene         | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |
| 1,4-Dichlorobenzene         | ND     | 0.0200  |           |             |      |          |           |             |      |          |      |

**Work Order:** 1507095  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID <b>MB-11306</b> | SampType: <b>MBLK</b>  | Units: <b>mg/Kg</b> | Prep Date: <b>7/13/2015</b>     | RunNo: <b>23529</b>  |      |          |           |             |      |          |      |
|---------------------------|------------------------|---------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>MBLKS</b>   | Batch ID: <b>11306</b> |                     | Analysis Date: <b>7/13/2015</b> | SeqNo: <b>445754</b> |      |          |           |             |      |          |      |
| Analyte                   | Result                 | RL                  | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                               |      |        |       |  |     |      |     |  |  |  |  |
|-------------------------------|------|--------|-------|--|-----|------|-----|--|--|--|--|
| n-Butylbenzene                | ND   | 0.0200 |       |  |     |      |     |  |  |  |  |
| 1,2-Dichlorobenzene           | ND   | 0.0200 |       |  |     |      |     |  |  |  |  |
| 1,2-Dibromo-3-chloropropane   | ND   | 0.500  |       |  |     |      |     |  |  |  |  |
| 1,2,4-Trimethylbenzene        | ND   | 0.0200 |       |  |     |      |     |  |  |  |  |
| Hexachlorobutadiene           | ND   | 0.100  |       |  |     |      |     |  |  |  |  |
| Naphthalene                   | ND   | 0.0300 |       |  |     |      |     |  |  |  |  |
| 1,2,3-Trichlorobenzene        | ND   | 0.0200 |       |  |     |      |     |  |  |  |  |
| Surr: Dibromofluoromethane    | 1.38 |        | 1.250 |  | 110 | 63.7 | 129 |  |  |  |  |
| Surr: Toluene-d8              | 1.41 |        | 1.250 |  | 113 | 64.3 | 131 |  |  |  |  |
| Surr: 1-Bromo-4-fluorobenzene | 1.26 |        | 1.250 |  | 101 | 63.1 | 141 |  |  |  |  |

| Sample ID <b>1507095-010AMS</b> | SampType: <b>MS</b>    | Units: <b>mg/Kg-dry</b> | Prep Date: <b>7/13/2015</b>     | RunNo: <b>23529</b>  |      |          |           |             |      |          |      |
|---------------------------------|------------------------|-------------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>SB-15-10.5</b>    | Batch ID: <b>11306</b> |                         | Analysis Date: <b>7/13/2015</b> | SeqNo: <b>445806</b> |      |          |           |             |      |          |      |
| Analyte                         | Result                 | RL                      | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                                  |       |         |        |   |      |      |     |  |  |  |  |
|----------------------------------|-------|---------|--------|---|------|------|-----|--|--|--|--|
| Dichlorodifluoromethane (CFC-12) | 1.17  | 0.0590  | 0.9838 | 0 | 118  | 43.5 | 121 |  |  |  |  |
| Chloromethane                    | 1.15  | 0.0590  | 0.9838 | 0 | 117  | 45   | 130 |  |  |  |  |
| Vinyl chloride                   | 1.05  | 0.00197 | 0.9838 | 0 | 107  | 51.2 | 146 |  |  |  |  |
| Bromomethane                     | 1.02  | 0.0885  | 0.9838 | 0 | 104  | 21.3 | 120 |  |  |  |  |
| Trichlorofluoromethane (CFC-11)  | 0.844 | 0.0492  | 0.9838 | 0 | 85.8 | 35   | 131 |  |  |  |  |
| Chloroethane                     | 1.00  | 0.0590  | 0.9838 | 0 | 102  | 43.8 | 117 |  |  |  |  |
| 1,1-Dichloroethene               | 0.806 | 0.0492  | 0.9838 | 0 | 81.9 | 61.9 | 141 |  |  |  |  |
| Methylene chloride               | 0.918 | 0.0197  | 0.9838 | 0 | 93.4 | 54.7 | 142 |  |  |  |  |
| trans-1,2-Dichloroethene         | 0.885 | 0.0197  | 0.9838 | 0 | 90.0 | 52   | 136 |  |  |  |  |
| Methyl tert-butyl ether (MTBE)   | 0.983 | 0.0492  | 0.9838 | 0 | 100  | 54.4 | 132 |  |  |  |  |
| 1,1-Dichloroethane               | 0.918 | 0.0197  | 0.9838 | 0 | 93.3 | 51.8 | 141 |  |  |  |  |
| 2,2-Dichloropropane              | 0.889 | 0.0492  | 0.9838 | 0 | 90.4 | 36   | 123 |  |  |  |  |
| cis-1,2-Dichloroethene           | 0.963 | 0.0197  | 0.9838 | 0 | 97.9 | 58.6 | 136 |  |  |  |  |
| Chloroform                       | 0.928 | 0.0197  | 0.9838 | 0 | 94.4 | 53.2 | 129 |  |  |  |  |
| 1,1,1-Trichloroethane (TCA)      | 0.962 | 0.0197  | 0.9838 | 0 | 97.8 | 58.3 | 145 |  |  |  |  |
| 1,1-Dichloropropene              | 0.918 | 0.0197  | 0.9838 | 0 | 93.3 | 55.1 | 138 |  |  |  |  |



Work Order: 1507095  
 CLIENT: PES Environmental, Inc.  
 Project: Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID <b>1507095-010AMS</b> | SampType: <b>MS</b>    | Units: <b>mg/Kg-dry</b> | Prep Date: <b>7/13/2015</b>     | RunNo: <b>23529</b>  |      |          |           |             |      |          |      |
|---------------------------------|------------------------|-------------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>SB-15-10.5</b>    | Batch ID: <b>11306</b> |                         | Analysis Date: <b>7/13/2015</b> | SeqNo: <b>445806</b> |      |          |           |             |      |          |      |
| Analyte                         | Result                 | RL                      | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                             |       |         |        |   |      |      |     |  |  |  |  |
|-----------------------------|-------|---------|--------|---|------|------|-----|--|--|--|--|
| Carbon tetrachloride        | 0.945 | 0.0197  | 0.9838 | 0 | 96.1 | 53.3 | 144 |  |  |  |  |
| 1,2-Dichloroethane (EDC)    | 0.976 | 0.0295  | 0.9838 | 0 | 99.2 | 51.3 | 139 |  |  |  |  |
| Benzene                     | 0.926 | 0.0197  | 0.9838 | 0 | 94.1 | 63.5 | 133 |  |  |  |  |
| Trichloroethene (TCE)       | 0.928 | 0.0197  | 0.9838 | 0 | 94.3 | 68.6 | 132 |  |  |  |  |
| 1,2-Dichloropropane         | 0.964 | 0.0197  | 0.9838 | 0 | 98.0 | 59   | 136 |  |  |  |  |
| Bromodichloromethane        | 1.10  | 0.0197  | 0.9838 | 0 | 112  | 50.7 | 141 |  |  |  |  |
| Dibromomethane              | 1.07  | 0.0394  | 0.9838 | 0 | 108  | 50.6 | 137 |  |  |  |  |
| cis-1,3-Dichloropropene     | 1.10  | 0.0197  | 0.9838 | 0 | 112  | 50.4 | 138 |  |  |  |  |
| Toluene                     | 0.929 | 0.0197  | 0.9838 | 0 | 94.5 | 63.4 | 132 |  |  |  |  |
| trans-1,3-Dichloropropylene | 1.13  | 0.0295  | 0.9838 | 0 | 115  | 44.1 | 147 |  |  |  |  |
| 1,1,2-Trichloroethane       | 1.07  | 0.0295  | 0.9838 | 0 | 108  | 51.6 | 137 |  |  |  |  |
| 1,3-Dichloropropane         | 1.03  | 0.0492  | 0.9838 | 0 | 105  | 53.1 | 134 |  |  |  |  |
| Tetrachloroethene (PCE)     | 0.910 | 0.0197  | 0.9838 | 0 | 92.5 | 35.6 | 158 |  |  |  |  |
| Dibromochloromethane        | 1.23  | 0.0295  | 0.9838 | 0 | 125  | 55.3 | 140 |  |  |  |  |
| 1,2-Dibromoethane (EDB)     | 1.13  | 0.00492 | 0.9838 | 0 | 115  | 50.4 | 136 |  |  |  |  |
| Chlorobenzene               | 0.895 | 0.0197  | 0.9838 | 0 | 91.0 | 60   | 133 |  |  |  |  |
| 1,1,1,2-Tetrachloroethane   | 1.07  | 0.0295  | 0.9838 | 0 | 109  | 53.1 | 142 |  |  |  |  |
| Ethylbenzene                | 0.886 | 0.0295  | 0.9838 | 0 | 90.1 | 54.5 | 134 |  |  |  |  |
| m,p-Xylene                  | 1.77  | 0.0197  | 1.968  | 0 | 90.2 | 53.1 | 132 |  |  |  |  |
| o-Xylene                    | 0.895 | 0.0197  | 0.9838 | 0 | 91.0 | 53.3 | 139 |  |  |  |  |
| Styrene                     | 0.941 | 0.0197  | 0.9838 | 0 | 95.6 | 51.1 | 132 |  |  |  |  |
| Isopropylbenzene            | 0.909 | 0.0787  | 0.9838 | 0 | 92.4 | 58.9 | 138 |  |  |  |  |
| Bromoform                   | 1.13  | 0.0197  | 0.9838 | 0 | 114  | 57.9 | 130 |  |  |  |  |
| 1,1,1,2,2-Tetrachloroethane | 1.14  | 0.0197  | 0.9838 | 0 | 116  | 51.9 | 131 |  |  |  |  |
| n-Propylbenzene             | 0.917 | 0.0197  | 0.9838 | 0 | 93.2 | 53.6 | 140 |  |  |  |  |
| Bromobenzene                | 0.925 | 0.0295  | 0.9838 | 0 | 94.0 | 54.2 | 140 |  |  |  |  |
| 1,3,5-Trimethylbenzene      | 0.917 | 0.0197  | 0.9838 | 0 | 93.3 | 51.8 | 136 |  |  |  |  |
| 2-Chlorotoluene             | 0.901 | 0.0197  | 0.9838 | 0 | 91.6 | 51.6 | 136 |  |  |  |  |
| 4-Chlorotoluene             | 0.900 | 0.0197  | 0.9838 | 0 | 91.5 | 50.1 | 139 |  |  |  |  |
| tert-Butylbenzene           | 1.03  | 0.0197  | 0.9838 | 0 | 105  | 50.5 | 135 |  |  |  |  |
| 1,2,3-Trichloropropane      | 1.11  | 0.0197  | 0.9838 | 0 | 113  | 50.5 | 131 |  |  |  |  |



**Work Order:** 1507095  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID <b>1507095-010AMS</b> | SampType: <b>MS</b>    | Units: <b>mg/Kg-dry</b> | Prep Date: <b>7/13/2015</b>     | RunNo: <b>23529</b>  |      |          |           |             |      |          |      |
|---------------------------------|------------------------|-------------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>SB-15-10.5</b>    | Batch ID: <b>11306</b> |                         | Analysis Date: <b>7/13/2015</b> | SeqNo: <b>445806</b> |      |          |           |             |      |          |      |
| Analyte                         | Result                 | RL                      | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                               |       |        |        |   |      |      |     |  |  |  |   |
|-------------------------------|-------|--------|--------|---|------|------|-----|--|--|--|---|
| 1,2,4-Trichlorobenzene        | 0.995 | 0.0492 | 0.9838 | 0 | 101  | 50.8 | 130 |  |  |  |   |
| sec-Butylbenzene              | 1.05  | 0.0197 | 0.9838 | 0 | 107  | 52.6 | 141 |  |  |  |   |
| 4-Isopropyltoluene            | 1.06  | 0.0197 | 0.9838 | 0 | 107  | 52.9 | 134 |  |  |  |   |
| 1,3-Dichlorobenzene           | 0.862 | 0.0197 | 0.9838 | 0 | 87.6 | 52.6 | 131 |  |  |  |   |
| 1,4-Dichlorobenzene           | 0.868 | 0.0197 | 0.9838 | 0 | 88.2 | 52.9 | 129 |  |  |  |   |
| n-Butylbenzene                | 0.944 | 0.0197 | 0.9838 | 0 | 96.0 | 52.6 | 130 |  |  |  |   |
| 1,2-Dichlorobenzene           | 0.925 | 0.0197 | 0.9838 | 0 | 94.0 | 55.8 | 129 |  |  |  |   |
| 1,2-Dibromo-3-chloropropane   | 1.43  | 0.492  | 0.9838 | 0 | 145  | 40.5 | 131 |  |  |  | S |
| 1,2,4-Trimethylbenzene        | 1.05  | 0.0197 | 0.9838 | 0 | 106  | 50.6 | 137 |  |  |  |   |
| Hexachlorobutadiene           | 0.959 | 0.0984 | 0.9838 | 0 | 97.5 | 40.6 | 158 |  |  |  |   |
| Naphthalene                   | 1.12  | 0.0295 | 0.9838 | 0 | 113  | 52.3 | 124 |  |  |  |   |
| 1,2,3-Trichlorobenzene        | 1.04  | 0.0197 | 0.9838 | 0 | 106  | 54.4 | 124 |  |  |  |   |
| Surr: Dibromofluoromethane    | 1.32  |        | 1.230  |   | 108  | 63.7 | 129 |  |  |  |   |
| Surr: Toluene-d8              | 1.27  |        | 1.230  |   | 103  | 64.3 | 131 |  |  |  |   |
| Surr: 1-Bromo-4-fluorobenzene | 1.26  |        | 1.230  |   | 102  | 63.1 | 141 |  |  |  |   |

**NOTES:**

S - Outlying QC recoveries were observed. The method is in control as indicated by the LCS.





**Work Order:** 1507095  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID                        | 1507095-022ADUP | SampType: | DUP       | Units:         | µg/L      | Prep Date: | 7/15/2015 | RunNo:      | 23575 |          |      |
|----------------------------------|-----------------|-----------|-----------|----------------|-----------|------------|-----------|-------------|-------|----------|------|
| Client ID:                       | SB-15-W         | Batch ID: | R23575    | Analysis Date: | 7/15/2015 | SeqNo:     | 446633    |             |       |          |      |
| Analyte                          | Result          | RL        | SPK value | SPK Ref Val    | %REC      | LowLimit   | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Dichlorodifluoromethane (CFC-12) | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Chloromethane                    | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Vinyl chloride                   | ND              | 0.200     |           |                |           |            |           | 0           |       | 30       |      |
| Bromomethane                     | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Trichlorofluoromethane (CFC-11)  | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Chloroethane                     | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,1-Dichloroethene               | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Methylene chloride               | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| trans-1,2-Dichloroethene         | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Methyl tert-butyl ether (MTBE)   | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,1-Dichloroethane               | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 2,2-Dichloropropane              | ND              | 2.00      |           |                |           |            |           | 0           |       | 30       |      |
| cis-1,2-Dichloroethene           | 7.67            | 1.00      |           |                |           |            |           | 8.220       | 6.92  | 30       |      |
| Chloroform                       | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,1,1-Trichloroethane (TCA)      | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,1-Dichloropropene              | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Carbon tetrachloride             | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,2-Dichloroethane (EDC)         | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Benzene                          | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Trichloroethene (TCE)            | ND              | 0.500     |           |                |           |            |           | 0           |       | 30       |      |
| 1,2-Dichloropropane              | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Bromodichloromethane             | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Dibromomethane                   | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| cis-1,3-Dichloropropene          | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Toluene                          | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| trans-1,3-Dichloropropene        | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,1,2-Trichloroethane            | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,3-Dichloropropane              | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Tetrachloroethene (PCE)          | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Dibromochloromethane             | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,2-Dibromoethane (EDB)          | ND              | 0.0600    |           |                |           |            |           | 0           |       | 30       |      |



Date: 7/17/2015

Work Order: 1507095  
 CLIENT: PES Environmental, Inc.  
 Project: Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID                     | 1507095-022ADUP | SampType: | DUP       | Units:         | µg/L      | Prep Date: | 7/15/2015 | RunNo:      | 23575 |          |      |
|-------------------------------|-----------------|-----------|-----------|----------------|-----------|------------|-----------|-------------|-------|----------|------|
| Client ID:                    | SB-15-W         | Batch ID: | R23575    | Analysis Date: | 7/15/2015 | SeqNo:     | 446633    |             |       |          |      |
| Analyte                       | Result          | RL        | SPK value | SPK Ref Val    | %REC      | LowLimit   | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Chlorobenzene                 | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,1,1,2-Tetrachloroethane     | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Ethylbenzene                  | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| m,p-Xylene                    | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| o-Xylene                      | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Styrene                       | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Isopropylbenzene              | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Bromoform                     | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,1,2,2-Tetrachloroethane     | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| n-Propylbenzene               | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Bromobenzene                  | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,3,5-Trimethylbenzene        | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 2-Chlorotoluene               | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 4-Chlorotoluene               | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| tert-Butylbenzene             | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,2,3-Trichloropropane        | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,2,4-Trichlorobenzene        | ND              | 2.00      |           |                |           |            |           | 0           |       | 30       |      |
| sec-Butylbenzene              | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 4-Isopropyltoluene            | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,3-Dichlorobenzene           | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,4-Dichlorobenzene           | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| n-Butylbenzene                | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,2-Dichlorobenzene           | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,2-Dibromo-3-chloropropane   | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,2,4-Trimethylbenzene        | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| Hexachlorobutadiene           | ND              | 4.00      |           |                |           |            |           | 0           |       | 30       |      |
| Naphthalene                   | ND              | 1.00      |           |                |           |            |           | 0           |       | 30       |      |
| 1,2,3-Trichlorobenzene        | ND              | 4.00      |           |                |           |            |           | 0           |       | 30       |      |
| Surr: Dibromofluoromethane    | 24.0            |           | 25.00     |                | 96.1      | 77.4       | 147       |             | 0     |          |      |
| Surr: Toluene-d8              | 25.2            |           | 25.00     |                | 101       | 40.1       | 139       |             | 0     |          |      |
| Surr: 1-Bromo-4-fluorobenzene | 25.0            |           | 25.00     |                | 99.9      | 64.2       | 128       |             | 0     |          |      |

**Work Order:** 1507095  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

|                                  |                         |                                 |                             |                     |      |          |           |             |      |          |      |
|----------------------------------|-------------------------|---------------------------------|-----------------------------|---------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID <b>1507095-022ADUP</b> | SampType: <b>DUP</b>    | Units: <b>µg/L</b>              | Prep Date: <b>7/15/2015</b> | RunNo: <b>23575</b> |      |          |           |             |      |          |      |
| Client ID: <b>SB-15-W</b>        | Batch ID: <b>R23575</b> | Analysis Date: <b>7/15/2015</b> | SeqNo: <b>446638</b>        |                     |      |          |           |             |      |          |      |
| Analyte                          | Result                  | RL                              | SPK value                   | SPK Ref Val         | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                                 |                         |                                 |                             |                     |      |          |           |             |      |          |      |
|---------------------------------|-------------------------|---------------------------------|-----------------------------|---------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID <b>1507122-001AMS</b> | SampType: <b>MS</b>     | Units: <b>µg/L</b>              | Prep Date: <b>7/15/2015</b> | RunNo: <b>23575</b> |      |          |           |             |      |          |      |
| Client ID: <b>BATCH</b>         | Batch ID: <b>R23575</b> | Analysis Date: <b>7/15/2015</b> | SeqNo: <b>446638</b>        |                     |      |          |           |             |      |          |      |
| Analyte                         | Result                  | RL                              | SPK value                   | SPK Ref Val         | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                                  |      |       |       |   |      |      |     |  |  |  |  |
|----------------------------------|------|-------|-------|---|------|------|-----|--|--|--|--|
| Dichlorodifluoromethane (CFC-12) | 13.7 | 1.00  | 20.00 | 0 | 68.4 | 33.3 | 122 |  |  |  |  |
| Chloromethane                    | 16.7 | 1.00  | 20.00 | 0 | 83.7 | 48.2 | 145 |  |  |  |  |
| Vinyl chloride                   | 16.5 | 0.200 | 20.00 | 0 | 82.5 | 58.1 | 158 |  |  |  |  |
| Bromomethane                     | 22.0 | 1.00  | 20.00 | 0 | 110  | 31.5 | 135 |  |  |  |  |
| Trichlorofluoromethane (CFC-11)  | 19.8 | 1.00  | 20.00 | 0 | 99.2 | 54.7 | 138 |  |  |  |  |
| Chloroethane                     | 16.6 | 1.00  | 20.00 | 0 | 83.2 | 49.9 | 143 |  |  |  |  |
| 1,1-Dichloroethene               | 18.5 | 1.00  | 20.00 | 0 | 92.3 | 63   | 141 |  |  |  |  |
| Methylene chloride               | 15.5 | 1.00  | 20.00 | 0 | 77.4 | 61.6 | 135 |  |  |  |  |
| trans-1,2-Dichloroethene         | 18.0 | 1.00  | 20.00 | 0 | 90.2 | 63.5 | 138 |  |  |  |  |
| Methyl tert-butyl ether (MTBE)   | 12.9 | 1.00  | 20.00 | 0 | 64.4 | 60.9 | 132 |  |  |  |  |
| 1,1-Dichloroethane               | 17.7 | 1.00  | 20.00 | 0 | 88.5 | 67.8 | 136 |  |  |  |  |
| 2,2-Dichloropropane              | 16.2 | 2.00  | 20.00 | 0 | 81.0 | 31.5 | 121 |  |  |  |  |
| cis-1,2-Dichloroethene           | 15.3 | 1.00  | 20.00 | 0 | 76.5 | 67.1 | 123 |  |  |  |  |
| Chloroform                       | 17.1 | 1.00  | 20.00 | 0 | 85.3 | 66.7 | 136 |  |  |  |  |
| 1,1,1-Trichloroethane (TCA)      | 19.4 | 1.00  | 20.00 | 0 | 97.0 | 64.2 | 146 |  |  |  |  |
| 1,1-Dichloropropene              | 18.2 | 1.00  | 20.00 | 0 | 90.9 | 73.8 | 136 |  |  |  |  |
| Carbon tetrachloride             | 17.9 | 1.00  | 20.00 | 0 | 89.7 | 62.7 | 146 |  |  |  |  |
| 1,2-Dichloroethane (EDC)         | 15.5 | 1.00  | 20.00 | 0 | 77.6 | 63.4 | 137 |  |  |  |  |
| Benzene                          | 18.4 | 1.00  | 20.00 | 0 | 92.2 | 65.4 | 138 |  |  |  |  |
| Trichloroethene (TCE)            | 17.9 | 0.500 | 20.00 | 0 | 89.7 | 60.4 | 134 |  |  |  |  |
| 1,2-Dichloropropane              | 16.4 | 1.00  | 20.00 | 0 | 81.8 | 62.6 | 138 |  |  |  |  |
| Bromodichloromethane             | 16.6 | 1.00  | 20.00 | 0 | 83.1 | 59.4 | 139 |  |  |  |  |
| Dibromomethane                   | 14.3 | 1.00  | 20.00 | 0 | 71.5 | 63.6 | 139 |  |  |  |  |
| cis-1,3-Dichloropropene          | 13.0 | 1.00  | 20.00 | 0 | 64.9 | 63.8 | 132 |  |  |  |  |
| Toluene                          | 18.0 | 1.00  | 20.00 | 0 | 90.2 | 64   | 139 |  |  |  |  |
| trans-1,3-Dichloropropene        | 13.0 | 1.00  | 20.00 | 0 | 64.9 | 57.7 | 125 |  |  |  |  |



Date: 7/17/2015

**Work Order:** 1507095  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID <b>1507122-001AMS</b> | SampType: <b>MS</b>     | Units: <b>µg/L</b> | Prep Date: <b>7/15/2015</b>     | RunNo: <b>23575</b>  |      |          |           |             |      |          |      |
|---------------------------------|-------------------------|--------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>BATCH</b>         | Batch ID: <b>R23575</b> |                    | Analysis Date: <b>7/15/2015</b> | SeqNo: <b>446638</b> |      |          |           |             |      |          |      |
| Analyte                         | Result                  | RL                 | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| Analyte                     | Result | RL     | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------------|--------|--------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| 1,1,2-Trichloroethane       | 15.7   | 1.00   | 20.00     | 0           | 78.5 | 59.4     | 127       |             |      |          |      |
| 1,3-Dichloropropane         | 14.1   | 1.00   | 20.00     | 0           | 70.6 | 64.3     | 135       |             |      |          |      |
| Tetrachloroethene (PCE)     | 18.5   | 1.00   | 20.00     | 0           | 92.6 | 50.3     | 133       |             |      |          |      |
| Dibromochloromethane        | 14.6   | 1.00   | 20.00     | 0           | 73.2 | 61.6     | 139       |             |      |          |      |
| 1,2-Dibromoethane (EDB)     | 13.9   | 0.0600 | 20.00     | 0           | 69.4 | 63.2     | 134       |             |      |          |      |
| Chlorobenzene               | 17.6   | 1.00   | 20.00     | 0           | 87.8 | 65.8     | 134       |             |      |          |      |
| 1,1,1,2-Tetrachloroethane   | 14.8   | 1.00   | 20.00     | 0.2000      | 72.8 | 65.4     | 135       |             |      |          |      |
| Ethylbenzene                | 19.0   | 1.00   | 20.00     | 0           | 95.2 | 64.5     | 136       |             |      |          |      |
| m,p-Xylene                  | 39.3   | 1.00   | 40.00     | 0           | 98.2 | 63.3     | 135       |             |      |          |      |
| o-Xylene                    | 18.9   | 1.00   | 20.00     | 0           | 94.6 | 65.4     | 134       |             |      |          |      |
| Styrene                     | 18.8   | 1.00   | 20.00     | 0           | 93.8 | 59.1     | 134       |             |      |          |      |
| Isopropylbenzene            | 18.7   | 1.00   | 20.00     | 0           | 93.5 | 56       | 147       |             |      |          |      |
| Bromoform                   | 13.5   | 1.00   | 20.00     | 0           | 67.4 | 57.7     | 139       |             |      |          |      |
| 1,1,1,2-Tetrachloroethane   | 14.5   | 1.00   | 20.00     | 0           | 72.4 | 59.8     | 146       |             |      |          |      |
| n-Propylbenzene             | 18.5   | 1.00   | 20.00     | 0           | 92.7 | 57.6     | 142       |             |      |          |      |
| Bromobenzene                | 17.3   | 1.00   | 20.00     | 0           | 86.7 | 63.6     | 130       |             |      |          |      |
| 1,3,5-Trimethylbenzene      | 18.9   | 1.00   | 20.00     | 0           | 94.6 | 59.9     | 136       |             |      |          |      |
| 2-Chlorotoluene             | 18.4   | 1.00   | 20.00     | 0           | 91.8 | 61.7     | 134       |             |      |          |      |
| 4-Chlorotoluene             | 17.6   | 1.00   | 20.00     | 0           | 88.2 | 58.4     | 134       |             |      |          |      |
| tert-Butylbenzene           | 17.8   | 1.00   | 20.00     | 0           | 89.0 | 66.8     | 141       |             |      |          |      |
| 1,2,3-Trichloropropane      | 15.0   | 1.00   | 20.00     | 0           | 74.9 | 62.4     | 129       |             |      |          |      |
| 1,2,4-Trichlorobenzene      | 11.1   | 2.00   | 20.00     | 0           | 55.6 | 50.9     | 133       |             |      |          |      |
| sec-Butylbenzene            | 18.5   | 1.00   | 20.00     | 0           | 92.5 | 56       | 146       |             |      |          |      |
| 4-Isopropyltoluene          | 17.2   | 1.00   | 20.00     | 0           | 86.2 | 56.4     | 136       |             |      |          |      |
| 1,3-Dichlorobenzene         | 16.4   | 1.00   | 20.00     | 0           | 81.9 | 58.2     | 128       |             |      |          |      |
| 1,4-Dichlorobenzene         | 17.1   | 1.00   | 20.00     | 0           | 85.6 | 60.1     | 123       |             |      |          |      |
| n-Butylbenzene              | 18.3   | 1.00   | 20.00     | 0           | 91.4 | 54.6     | 135       |             |      |          |      |
| 1,2-Dichlorobenzene         | 17.1   | 1.00   | 20.00     | 0           | 85.7 | 65.4     | 133       |             |      |          |      |
| 1,2-Dibromo-3-chloropropane | 11.2   | 1.00   | 20.00     | 0           | 56.2 | 51.8     | 142       |             |      |          |      |
| 1,2,4-Trimethylbenzene      | 17.7   | 1.00   | 20.00     | 0           | 88.6 | 63.7     | 132       |             |      |          |      |
| Hexachlorobutadiene         | 16.7   | 4.00   | 20.00     | 0           | 83.4 | 58.1     | 130       |             |      |          |      |



Date: 7/17/2015

**Work Order:** 1507095  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID <b>1507122-001AMS</b> | SampType: <b>MS</b>     | Units: <b>µg/L</b> |           |             |      | Prep Date: <b>7/15/2015</b>     | RunNo: <b>23575</b>  |             |      |          |      |
|---------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|----------------------|-------------|------|----------|------|
| Client ID: <b>BATCH</b>         | Batch ID: <b>R23575</b> |                    |           |             |      | Analysis Date: <b>7/15/2015</b> | SeqNo: <b>446638</b> |             |      |          |      |
| Analyte                         | Result                  | RL                 | SPK value | SPK Ref Val | %REC | LowLimit                        | HighLimit            | RPD Ref Val | %RPD | RPDLimit | Qual |
| Naphthalene                     | 7.13                    | 1.00               | 20.00     | 0.2300      | 34.5 | 54.5                            | 132                  |             |      |          | S    |
| 1,2,3-Trichlorobenzene          | 6.93                    | 4.00               | 20.00     | 0.1500      | 33.9 | 57                              | 131                  |             |      |          | S    |
| Surr: Dibromofluoromethane      | 24.4                    |                    | 25.00     |             | 97.6 | 77.4                            | 147                  |             |      |          |      |
| Surr: Toluene-d8                | 25.5                    |                    | 25.00     |             | 102  | 40.1                            | 139                  |             |      |          |      |
| Surr: 1-Bromo-4-fluorobenzene   | 24.8                    |                    | 25.00     |             | 99.3 | 64.2                            | 128                  |             |      |          |      |

**NOTES:**

S - Outlying QC recoveries were observed. The method is in control as indicated by the LCS.

| Sample ID <b>LCS-R23575</b>      | SampType: <b>LCS</b>    | Units: <b>µg/L</b> |           |             |      | Prep Date: <b>7/15/2015</b>     | RunNo: <b>23575</b>  |             |      |          |      |
|----------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|----------------------|-------------|------|----------|------|
| Client ID: <b>LCSW</b>           | Batch ID: <b>R23575</b> |                    |           |             |      | Analysis Date: <b>7/15/2015</b> | SeqNo: <b>446652</b> |             |      |          |      |
| Analyte                          | Result                  | RL                 | SPK value | SPK Ref Val | %REC | LowLimit                        | HighLimit            | RPD Ref Val | %RPD | RPDLimit | Qual |
| Dichlorodifluoromethane (CFC-12) | 14.8                    | 1.00               | 20.00     | 0           | 74.0 | 43                              | 136                  |             |      |          |      |
| Chloromethane                    | 19.0                    | 1.00               | 20.00     | 0           | 95.1 | 43.9                            | 139                  |             |      |          |      |
| Vinyl chloride                   | 18.4                    | 0.200              | 20.00     | 0           | 92.0 | 53.6                            | 139                  |             |      |          |      |
| Bromomethane                     | 25.9                    | 1.00               | 20.00     | 0           | 129  | 42.5                            | 152                  |             |      |          |      |
| Trichlorofluoromethane (CFC-11)  | 21.0                    | 1.00               | 20.00     | 0           | 105  | 63.7                            | 133                  |             |      |          |      |
| Chloroethane                     | 17.7                    | 1.00               | 20.00     | 0           | 88.3 | 53                              | 141                  |             |      |          |      |
| 1,1-Dichloroethene               | 20.3                    | 1.00               | 20.00     | 0           | 102  | 65.6                            | 136                  |             |      |          |      |
| Methylene chloride               | 18.0                    | 1.00               | 20.00     | 0           | 90.2 | 67.1                            | 131                  |             |      |          |      |
| trans-1,2-Dichloroethene         | 19.9                    | 1.00               | 20.00     | 0           | 99.7 | 71.7                            | 129                  |             |      |          |      |
| Methyl tert-butyl ether (MTBE)   | 16.6                    | 1.00               | 20.00     | 0           | 82.8 | 67.7                            | 131                  |             |      |          |      |
| 1,1-Dichloroethane               | 19.2                    | 1.00               | 20.00     | 0           | 96.2 | 67.9                            | 134                  |             |      |          |      |
| 2,2-Dichloropropane              | 17.3                    | 2.00               | 20.00     | 0           | 86.5 | 33.7                            | 152                  |             |      |          |      |
| cis-1,2-Dichloroethene           | 17.0                    | 1.00               | 20.00     | 0           | 85.2 | 71.1                            | 130                  |             |      |          |      |
| Chloroform                       | 18.8                    | 1.00               | 20.00     | 0           | 94.0 | 66.3                            | 131                  |             |      |          |      |
| 1,1,1-Trichloroethane (TCA)      | 20.3                    | 1.00               | 20.00     | 0           | 102  | 71                              | 131                  |             |      |          |      |
| 1,1-Dichloropropene              | 19.3                    | 1.00               | 20.00     | 0           | 96.4 | 74.5                            | 126                  |             |      |          |      |
| Carbon tetrachloride             | 19.2                    | 1.00               | 20.00     | 0           | 95.8 | 66.2                            | 134                  |             |      |          |      |
| 1,2-Dichloroethane (EDC)         | 18.4                    | 1.00               | 20.00     | 0           | 91.9 | 70                              | 129                  |             |      |          |      |
| Benzene                          | 19.5                    | 1.00               | 20.00     | 0           | 97.7 | 69.3                            | 132                  |             |      |          |      |
| Trichloroethene (TCE)            | 19.8                    | 0.500              | 20.00     | 0           | 99.2 | 65.2                            | 136                  |             |      |          |      |



Work Order: 1507095  
 CLIENT: PES Environmental, Inc.  
 Project: Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID                   | LCS-R23575 | SampType: | LCS       | Units:         | µg/L      | Prep Date: | 7/15/2015 | RunNo:      | 23575 |          |      |
|-----------------------------|------------|-----------|-----------|----------------|-----------|------------|-----------|-------------|-------|----------|------|
| Client ID:                  | LCSW       | Batch ID: | R23575    | Analysis Date: | 7/15/2015 | SeqNo:     | 446652    |             |       |          |      |
| Analyte                     | Result     | RL        | SPK value | SPK Ref Val    | %REC      | LowLimit   | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| 1,2-Dichloropropane         | 19.1       | 1.00      | 20.00     | 0              | 95.4      | 70.5       | 130       |             |       |          |      |
| Bromodichloromethane        | 19.2       | 1.00      | 20.00     | 0              | 96.0      | 67.2       | 137       |             |       |          |      |
| Dibromomethane              | 17.7       | 1.00      | 20.00     | 0              | 88.5      | 75.5       | 126       |             |       |          |      |
| cis-1,3-Dichloropropene     | 17.2       | 1.00      | 20.00     | 0              | 86.2      | 62.6       | 137       |             |       |          |      |
| Toluene                     | 19.6       | 1.00      | 20.00     | 0              | 98.1      | 61.3       | 145       |             |       |          |      |
| trans-1,3-Dichloropropene   | 17.2       | 1.00      | 20.00     | 0              | 86.2      | 58.5       | 142       |             |       |          |      |
| 1,1,2-Trichloroethane       | 19.0       | 1.00      | 20.00     | 0              | 95.1      | 71.7       | 131       |             |       |          |      |
| 1,3-Dichloropropane         | 17.3       | 1.00      | 20.00     | 0              | 86.4      | 73.5       | 127       |             |       |          |      |
| Tetrachloroethene (PCE)     | 21.7       | 1.00      | 20.00     | 0              | 108       | 47.5       | 147       |             |       |          |      |
| Dibromochloromethane        | 19.3       | 1.00      | 20.00     | 0              | 96.3      | 67.2       | 134       |             |       |          |      |
| 1,2-Dibromoethane (EDB)     | 18.2       | 0.0600    | 20.00     | 0              | 90.8      | 73.6       | 125       |             |       |          |      |
| Chlorobenzene               | 19.7       | 1.00      | 20.00     | 0              | 98.4      | 73.9       | 126       |             |       |          |      |
| 1,1,1,2-Tetrachloroethane   | 18.0       | 1.00      | 20.00     | 0              | 90.0      | 76.8       | 124       |             |       |          |      |
| Ethylbenzene                | 20.7       | 1.00      | 20.00     | 0              | 104       | 72         | 130       |             |       |          |      |
| m,p-Xylene                  | 42.6       | 1.00      | 40.00     | 0              | 107       | 70.3       | 134       |             |       |          |      |
| o-Xylene                    | 20.3       | 1.00      | 20.00     | 0              | 102       | 72.1       | 131       |             |       |          |      |
| Styrene                     | 20.8       | 1.00      | 20.00     | 0              | 104       | 64.3       | 140       |             |       |          |      |
| Isopropylbenzene            | 21.1       | 1.00      | 20.00     | 0              | 106       | 73.9       | 128       |             |       |          |      |
| Bromoform                   | 17.6       | 1.00      | 20.00     | 0              | 87.9      | 63.8       | 135       |             |       |          |      |
| 1,1,1,2,2-Tetrachloroethane | 18.8       | 1.00      | 20.00     | 0              | 94.2      | 62.9       | 132       |             |       |          |      |
| n-Propylbenzene             | 21.0       | 1.00      | 20.00     | 0              | 105       | 74.5       | 127       |             |       |          |      |
| Bromobenzene                | 19.2       | 1.00      | 20.00     | 0              | 95.8      | 71         | 131       |             |       |          |      |
| 1,3,5-Trimethylbenzene      | 20.6       | 1.00      | 20.00     | 0              | 103       | 73.1       | 128       |             |       |          |      |
| 2-Chlorotoluene             | 20.2       | 1.00      | 20.00     | 0              | 101       | 70.8       | 130       |             |       |          |      |
| 4-Chlorotoluene             | 19.7       | 1.00      | 20.00     | 0              | 98.4      | 70.1       | 131       |             |       |          |      |
| tert-Butylbenzene           | 20.6       | 1.00      | 20.00     | 0              | 103       | 68.2       | 131       |             |       |          |      |
| 1,2,3-Trichloropropane      | 20.2       | 1.00      | 20.00     | 0              | 101       | 67.7       | 131       |             |       |          |      |
| 1,2,4-Trichlorobenzene      | 21.1       | 2.00      | 20.00     | 0              | 105       | 67.6       | 129       |             |       |          |      |
| sec-Butylbenzene            | 21.4       | 1.00      | 20.00     | 0              | 107       | 72         | 129       |             |       |          |      |
| 4-Isopropyltoluene          | 20.4       | 1.00      | 20.00     | 0              | 102       | 69.2       | 130       |             |       |          |      |
| 1,3-Dichlorobenzene         | 19.2       | 1.00      | 20.00     | 0              | 96.2      | 72.4       | 129       |             |       |          |      |

**Work Order:** 1507095  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Analyte                       | Result | RL   | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------------------|--------|------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| 1,4-Dichlorobenzene           | 20.6   | 1.00 | 20.00     | 0           | 103  | 70.6     | 128       |             |      |          |      |
| n-Butylbenzene                | 20.9   | 1.00 | 20.00     | 0           | 105  | 73.8     | 127       |             |      |          |      |
| 1,2-Dichlorobenzene           | 20.8   | 1.00 | 20.00     | 0           | 104  | 74.2     | 129       |             |      |          |      |
| 1,2-Dibromo-3-chloropropane   | 17.5   | 1.00 | 20.00     | 0           | 87.6 | 63.1     | 136       |             |      |          |      |
| 1,2,4-Trimethylbenzene        | 20.9   | 1.00 | 20.00     | 0           | 104  | 73.4     | 127       |             |      |          |      |
| Hexachlorobutadiene           | 21.8   | 4.00 | 20.00     | 0           | 109  | 58.6     | 138       |             |      |          |      |
| Naphthalene                   | 18.8   | 1.00 | 20.00     | 0           | 93.8 | 45.2     | 144       |             |      |          |      |
| 1,2,3-Trichlorobenzene        | 21.4   | 4.00 | 20.00     | 0           | 107  | 50.2     | 139       |             |      |          |      |
| Surr: Dibromofluoromethane    | 24.9   |      | 25.00     |             | 99.6 | 77.4     | 147       |             |      |          |      |
| Surr: Toluene-d8              | 24.8   |      | 25.00     |             | 99.4 | 40.1     | 139       |             |      |          |      |
| Surr: 1-Bromo-4-fluorobenzene | 24.4   |      | 25.00     |             | 97.8 | 64.2     | 128       |             |      |          |      |

| Analyte                          | Result | RL    | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|----------------------------------|--------|-------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| Dichlorodifluoromethane (CFC-12) | ND     | 1.00  |           |             |      |          |           |             |      |          |      |
| Chloromethane                    | ND     | 1.00  |           |             |      |          |           |             |      |          |      |
| Vinyl chloride                   | ND     | 0.200 |           |             |      |          |           |             |      |          |      |
| Bromomethane                     | ND     | 1.00  |           |             |      |          |           |             |      |          |      |
| Trichlorofluoromethane (CFC-11)  | ND     | 1.00  |           |             |      |          |           |             |      |          |      |
| Chloroethane                     | ND     | 1.00  |           |             |      |          |           |             |      |          |      |
| 1,1-Dichloroethene               | ND     | 1.00  |           |             |      |          |           |             |      |          |      |
| Methylene chloride               | ND     | 1.00  |           |             |      |          |           |             |      |          |      |
| trans-1,2-Dichloroethene         | ND     | 1.00  |           |             |      |          |           |             |      |          |      |
| Methyl tert-butyl ether (MTBE)   | ND     | 1.00  |           |             |      |          |           |             |      |          |      |
| 1,1-Dichloroethane               | ND     | 1.00  |           |             |      |          |           |             |      |          |      |
| 2,2-Dichloropropane              | ND     | 2.00  |           |             |      |          |           |             |      |          |      |
| cis-1,2-Dichloroethene           | ND     | 1.00  |           |             |      |          |           |             |      |          |      |
| Chloroform                       | ND     | 1.00  |           |             |      |          |           |             |      |          |      |
| 1,1,1-Trichloroethane (TCA)      | ND     | 1.00  |           |             |      |          |           |             |      |          |      |



**Work Order:** 1507095  
**CLIENT:** PES Environmental, Inc.  
**Project:** Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID <b>MB-R23575</b> | SampType: <b>MBLK</b>   | Units: <b>µg/L</b> | Prep Date: <b>7/15/2015</b>     | RunNo: <b>23575</b>  |      |          |           |             |      |          |      |
|----------------------------|-------------------------|--------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>MBLKW</b>    | Batch ID: <b>R23575</b> |                    | Analysis Date: <b>7/15/2015</b> | SeqNo: <b>446654</b> |      |          |           |             |      |          |      |
| Analyte                    | Result                  | RL                 | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| Analyte                     | Result | RL     | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------------|--------|--------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| 1,1-Dichloropropene         | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Carbon tetrachloride        | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,2-Dichloroethane (EDC)    | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Benzene                     | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Trichloroethene (TCE)       | ND     | 0.500  |           |             |      |          |           |             |      |          |      |
| 1,2-Dichloropropane         | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Bromodichloromethane        | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Dibromomethane              | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| cis-1,3-Dichloropropene     | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Toluene                     | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| trans-1,3-Dichloropropene   | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,1,2-Trichloroethane       | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,3-Dichloropropane         | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Tetrachloroethene (PCE)     | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Dibromochloromethane        | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,2-Dibromoethane (EDB)     | ND     | 0.0600 |           |             |      |          |           |             |      |          |      |
| Chlorobenzene               | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,1,1,2-Tetrachloroethane   | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Ethylbenzene                | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| m,p-Xylene                  | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| o-Xylene                    | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Styrene                     | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Isopropylbenzene            | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Bromoform                   | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,1,1,2,2-Tetrachloroethane | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| n-Propylbenzene             | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| Bromobenzene                | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 1,3,5-Trimethylbenzene      | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 2-Chlorotoluene             | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| 4-Chlorotoluene             | ND     | 1.00   |           |             |      |          |           |             |      |          |      |
| tert-Butylbenzene           | ND     | 1.00   |           |             |      |          |           |             |      |          |      |





Date: 7/17/2015

Work Order: 1507095  
 CLIENT: PES Environmental, Inc.  
 Project: Bethel Junction Phase II

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

| Sample ID <b>MB-R23575</b> | SampType: <b>MBLK</b>   | Units: <b>µg/L</b> | Prep Date: <b>7/15/2015</b>     | RunNo: <b>23575</b>  |      |          |           |             |      |          |      |
|----------------------------|-------------------------|--------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>MBLKW</b>    | Batch ID: <b>R23575</b> |                    | Analysis Date: <b>7/15/2015</b> | SeqNo: <b>446654</b> |      |          |           |             |      |          |      |
| Analyte                    | Result                  | RL                 | SPK value                       | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                               |      |      |       |  |      |      |     |  |  |  |  |
|-------------------------------|------|------|-------|--|------|------|-----|--|--|--|--|
| 1,2,3-Trichloropropane        | ND   | 1.00 |       |  |      |      |     |  |  |  |  |
| 1,2,4-Trichlorobenzene        | ND   | 2.00 |       |  |      |      |     |  |  |  |  |
| sec-Butylbenzene              | ND   | 1.00 |       |  |      |      |     |  |  |  |  |
| 4-Isopropyltoluene            | ND   | 1.00 |       |  |      |      |     |  |  |  |  |
| 1,3-Dichlorobenzene           | ND   | 1.00 |       |  |      |      |     |  |  |  |  |
| 1,4-Dichlorobenzene           | ND   | 1.00 |       |  |      |      |     |  |  |  |  |
| n-Butylbenzene                | ND   | 1.00 |       |  |      |      |     |  |  |  |  |
| 1,2-Dichlorobenzene           | ND   | 1.00 |       |  |      |      |     |  |  |  |  |
| 1,2-Dibromo-3-chloropropane   | ND   | 1.00 |       |  |      |      |     |  |  |  |  |
| 1,2,4-Trimethylbenzene        | ND   | 1.00 |       |  |      |      |     |  |  |  |  |
| Hexachlorobutadiene           | ND   | 4.00 |       |  |      |      |     |  |  |  |  |
| Naphthalene                   | ND   | 1.00 |       |  |      |      |     |  |  |  |  |
| 1,2,3-Trichlorobenzene        | ND   | 4.00 |       |  |      |      |     |  |  |  |  |
| Surr: Dibromofluoromethane    | 24.3 |      | 25.00 |  | 97.1 | 77.4 | 147 |  |  |  |  |
| Surr: Toluene-d8              | 24.9 |      | 25.00 |  | 99.7 | 40.1 | 139 |  |  |  |  |
| Surr: 1-Bromo-4-fluorobenzene | 24.0 |      | 25.00 |  | 96.2 | 64.2 | 128 |  |  |  |  |

Client Name: **PES**  
 Logged by: **Erica Silva**

 Work Order Number: **1507095**  
 Date Received: **7/10/2015 8:08:00 AM**

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes  No  NA
4. Shipping container/cooler in good condition? Yes  No
5. Custody Seals present on shipping container/cooler?  
(Refer to comments for Custody Seals not intact) Yes  No  Not Required
6. Was an attempt made to cool the samples? Yes  No  NA
7. Were all items received at a temperature of >0°C to 10.0°C \* Yes  No  NA
8. Sample(s) in proper container(s)? Yes  No
9. Sufficient sample volume for indicated test(s)? Yes  No
10. Are samples properly preserved? Yes  No
11. Was preservative added to bottles? Yes  No  NA
12. Is there headspace in the VOA vials? Yes  No  NA
13. Did all samples containers arrive in good condition(unbroken)? Yes  No
14. Does paperwork match bottle labels? Yes  No
15. Are matrices correctly identified on Chain of Custody? Yes  No
16. Is it clear what analyses were requested? Yes  No
17. Were all holding times able to be met? Yes  No

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes  No  NA

|                      |                      |      |   |
|----------------------|----------------------|------|---|
| Person Notified:     | <input type="text"/> | Date | <input type="text"/>  |
| By Whom:             | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding:           | <input type="text"/> |      |   |
| Client Instructions: | <input type="text"/> |      |   |

19. Additional remarks:  
 Water sample dates/times taken from bottle labels.

### Item Information

| Item # | Temp °C |
|--------|---------|
| Cooler | 1.0     |
| Sample | 4.1     |

\* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C





# Fremont

Laboratory Project No (Internal):

**1507095**

## Chain of Custody Record

3600 Fremont Ave N.  
Seattle, WA 98103

Tel: 206-352-3790  
Fax: 206-352-7178

Date: **7-10-15**

Page: **2** of **3**

Client: **RES Environmental, Inc.**  
Address: **see page 1**  
City, State, Zip: \_\_\_\_\_

Project Name: **Bethel Junction Phasette**  
Project No: **see page 1**  
Location: \_\_\_\_\_  
Reports To (PM): \_\_\_\_\_

Tel: **(206) 529-3280**

Fax: \_\_\_\_\_

Email: **Krankich@resenv.com**

\*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water, SW = Storm Water

| Sample Name | Sample Date | Sample Time | Sample Type (Matrix)* | VOC (EPA 8260) | GX/BTEX | BTEX | Gasoline Range Organics (GX) | Hydrocarbon Identification (HCID) | Diesel/heavy Oil Range Organics (DX) | SEMI VOL (EPA 8270) | PAH (EPA 8270 - SIM) | PCBs (EPA 8082) | Metals** (5020 / 200.9) | Total (T) / Dissolved (D) | Anions (IC)*** | EDR (8011) | Comments/Depth |
|-------------|-------------|-------------|-----------------------|----------------|---------|------|------------------------------|-----------------------------------|--------------------------------------|---------------------|----------------------|-----------------|-------------------------|---------------------------|----------------|------------|----------------|
| 1 SB-15-15  | 7/9/15      | 1030        | S                     | X              |         |      |                              |                                   |                                      |                     |                      |                 |                         |                           |                |            | Hold           |
| 2 SB-17-0.5 |             | 1120        |                       | X              |         |      |                              |                                   |                                      |                     |                      |                 |                         |                           |                |            |                |
| 3 SB-17-3   |             | 1125        |                       | X              |         |      |                              |                                   |                                      |                     |                      |                 |                         |                           |                |            |                |
| 4 SB-17-6   |             | 1130        |                       | X              |         |      |                              |                                   |                                      |                     |                      |                 |                         |                           |                |            |                |
| 5 SB-17-9   |             | 1135        |                       | X              |         |      |                              |                                   |                                      |                     |                      |                 |                         |                           |                |            |                |
| 6 SB-17-14  |             | 1140        |                       | X              |         |      |                              |                                   |                                      |                     |                      |                 |                         |                           |                |            |                |
| 7 SB-14-0.5 |             | 1205        |                       | X              |         |      |                              |                                   |                                      |                     |                      |                 |                         |                           |                |            |                |
| 8 SB-14-3   |             | 1230        |                       | X              |         |      |                              |                                   |                                      |                     |                      |                 |                         |                           |                |            |                |
| 9 SB-14-6   |             | 1235        |                       | X              |         |      |                              |                                   |                                      |                     |                      |                 |                         |                           |                |            |                |
| 10 SB-14-9  |             | 1245        |                       | X              |         |      |                              |                                   |                                      |                     |                      |                 |                         |                           |                |            |                |

\*\*Metals Analysis (Circle): MTCA-5 RCRA-8 Priority Pollutants: TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

\*\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Sample Disposal:  Return to Client  Disposal by Lab (A fee may be assessed if samples are retained after 30 days.)

Turn-around times for samples received after 4:00pm will begin on the following business day.

Relinquished **Chris Nelson 7/10/15 8:08** Date/Time

Received **Paula Garcia 07/10/15 8:08** Date/Time

Relinquished \_\_\_\_\_ Date/Time

Received \_\_\_\_\_ Date/Time

TAT -> SameDay^ NextDay^ 2 Day 3 Day STD

\*Please coordinate with the lab in advance



## MEMORANDUM

**TO:** Project File **DATE:** August 26, 2015  
**FROM:** Jessie Compeau **PROJECT:** 1246.030.02.002  
**SUBJECT:** Bethel Junction, Soil and Groundwater Sample Data Review – July 9, 2015  
Sampling Event  
Fremont Lab Package 1507095

---

Twenty-one (21) soil samples (including a field duplicate), two (2) groundwater samples, one (1) wastewater sample and two (2) trip blank samples were collected as part of a Phase 2 Investigation at the Bethel Junction in Port Orchard, Washington, on July 9, 2015. The samples were delivered to Fremont Analytical (Fremont) of Seattle, Washington for laboratory analysis. Four soil samples were placed on hold by the client and remaining project samples were analyzed for selected analytical parameters as follows: volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C, and a general chemistry parameter (fluoride) by USEPA 300.0.

The results were reported in Fremont Lab Package 1507095. The quality assurance review of the data is summarized below.

### **DATA QUALIFICATIONS**

Guidelines established by the USEPA for review of analytical data were used to validate the data. Fremont Analytical control limit criteria were also used to assess the quality of the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the laboratory report and USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA, 1999) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (EPA 2004).

### **DATA VALIDATION**

#### **Sample Receipt, Preservation and Handling**

The samples were delivered to the project laboratory in coolers under standard chain-of-custody protocols. Review of Fremont's Sample Log-In Check List Form indicates that all samples were received in good condition at a cooler temperature of 1.0 Centigrade (°C) and sample temperature at 4.1°C within the recommended preservation temperature range of 4.0°C ± 2.0°C. The sample receipt log indicated that the samples in the coolers were received properly stored in a cooler, preserved, and cooled with ice/gel packs and in good condition at the time of laboratory receipt. No data qualifications were assigned due to temperature preservation issues.

## **Holding Times**

### *USEPA Method 8260C (VOCs):*

All samples were analyzed for VOCs within the EPA recommended holding time of 14 days (soils and preserved waters) from the date of sample collection. All holding time criteria were met.

### *General Chemistry Methods:*

The samples (groundwater) were prepared and analyzed within the EPA recommended holding period for fluoride within 28 days from the date of sample collection.

## **Initial and Continuing Calibration**

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. These data were not provided nor requested for this project. The case narrative did not indicate any other issues with calibration; therefore no other qualifications were warranted.

## **Method Blank Results**

### *USEPA Method 8260C (VOCs):*

Laboratory method blanks (soils and preserved waters) were included with the analytical batch per method requirement. Target analytes were not detected in the method blanks at or above the method reporting limits (MRLs). No qualifications of the data were made due to the results of the method blank analyses.

### *General Chemistry Methods:*

Laboratory method blank was prepared and analyzed for fluoride. The target analytes were not detected in the method blank at or above the method reporting limit (MRL). No qualifications of the data were made due to the results of the method blank analysis.

## **Trip Blank Results**

### *USEPA Method 8260C (VOCs):*

Trip blanks associated with the soil and water samples were collected and analyzed. Target analytes were not detected in the trip blanks at or above the MRLs. No qualifications of the data were made due to the results of the trip blank analyses.

## **Field, Rinsate, or Equipment Blank Results**

### *All Analytical Parameters:*

Field, rinsate, or equipment blanks were not collected.

## **Laboratory Duplicate Analyses**

### *USEPA Method 8260C (VOCs):*

A laboratory duplicate was performed on an unrelated soil sample within the analytical batch. A laboratory duplicate was performed on client water sample SB-15-W. The primary/duplicate

relative percent differences (RPDs) for soil and water VOC analysis were within the laboratory control limit of 30%. Duplicate data are acceptable.

*General Chemistry Methods:*

Laboratory duplicate analysis was performed on an unrelated sample within the analytical batch for fluoride. The primary/duplicate RPDs were within the laboratory control limit of 30%. Duplicate data are acceptable.

**Field Duplicate Analyses**

*USEPA Method 8260C (VOCs):*

Field duplicate samples (SB-15-10.5 and SB-15-10.5D) were collected and analyzed for VOCs. VOC results are comparable and within 30% RPD.

*General Chemistry Methods:*

Field duplicates were not collected. Refer to laboratory duplicate results for precision data.

**Surrogate Recoveries**

*USEPA Method 8260C (VOCs):*

The surrogate recovery results for the samples, laboratory duplicates, LCSs, matrix spikes and the method blanks were within the laboratory surrogate control limits for all soil and water analyses. No qualifications of the data were warranted.

**Matrix Spike/ Matrix Spike Duplicates**

*USEPA Method 8260C (VOCs):*

A matrix spike (MS) analysis was performed on an unrelated soil samples associated with each analytical batch. The MS analysis was performed on unrelated water sample within the analytical batch. The MS percent recoveries (%Rs) for all 8260C target analytes were within the laboratory control criteria for soil and water samples with the following exceptions:

Soil matrix spike recovery for 1,2-Dibromo-3-chloropropane was high and above Fremont laboratory control limits criteria. No action was taken since the spike was performed on an unrelated sample within the analytical batch. Refer to laboratory control sample (LCS) results for accuracy data.

Water matrix spike recoveries for naphthalene and 1,2,3-trichlorobenzene were low and below Fremont laboratory control limit criteria. No action was taken since the spike was performed on an unrelated sample within the analytical batch. Refer to LCS results for accuracy data.

*General Chemistry Methods:*

MS/MSD analyses were performed on an unrelated sample within the analytical batch. The MS/MSD percent recoveries (%Rs) and RPD for fluoride were within the laboratory control criteria.



## **Laboratory Control Samples**

### *USEPA Method 8260C (VOCs):*

Laboratory control samples (LCS) were analyzed along with the analytical batches for water and soil samples. The LCS %Rs for the control analytes (VOCs) were within the laboratory control criteria for water and the soil sample.

### *General Chemistry Methods:*

LCS sample was analyzed along with analytical batch for fluoride. The LCS %R for fluoride was within the laboratory control criteria for water. No data qualifications were warranted.

## **Quantitation Limits**

Results of all analyses were reported based on standard laboratory MRLs. MRLs on one sample (Drum-1) were raised due to method-required dilutions. The reported MRLs are considered appropriate for this project. No data qualifiers were warranted based upon standard or dilution-elevated detection limits.

## **Completeness**

The samples were collected and analyzed as requested. MRLs on selected samples were raised due to method-required dilutions. The results in all cases were reported based upon standard Method Reporting Limits (MRLs). Data completeness is 100%.

## **Data Assessment**

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA, 1999)
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (EPA 2004).

No data were qualified. All data are judged to be acceptable for their intended use.

**ATTACHMENT E**

**GEOTECHNICAL LABORATORY REPORTS AND  
HYDRAULIC CONDUCTIVITY CALCULATIONS**



**Analytical Resources, Incorporated**  
Analytical Chemists and Consultants

2 July 2015

Kelly Rankich  
PES Environmental, Inc.  
1215 Fourth Avenue, Suite 1350  
Seattle, WA 98161

**RE: Project: Bethel Junction, 1246.030.02**  
**ARI Job No: AHX6**

Dear Kelly:

Please find enclosed the original chain of custody record and the final results for the samples from the project referenced above. Two soil samples were received on June 16, 2015.

The samples were analyzed for Grain Size as requested. These analyses were sub-contracted to MTC in Tukwila, WA.

An electronic copy of these reports will be kept on file with ARI. Should you have any questions regarding these results, please feel free to contact me at any time.

Sincerely,

ANALYTICAL RESOURCES, INC.

  
Mark D. Harris  
Project Manager  
206/695-6210  
markh@arilabs.com

Enclosures

cc: file AHX6

MDH/mdh





# Cooler Receipt Form

ARI Client: PES Environmental  
 COC No(s): \_\_\_\_\_ NA  
 Assigned ARI Job No: \_\_\_\_\_ AH X 6

Project Name: gettel Junction  
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: \_\_\_\_\_  
 Tracking No: \_\_\_\_\_ NA

**Preliminary Examination Phase:**

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES  NO   
 Were custody papers included with the cooler? ..... YES  NO   
 Were custody papers properly filled out (ink, signed, etc.) ..... YES  NO   
 Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) \_\_\_\_\_ 23.3  
 Time: 1610 \_\_\_\_\_  
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90077952

Cooler Accepted by: CA Date: 6/16/15 Time: 1610

*Complete custody forms and attach all shipping documents*

**Log-In Phase:**

Was a temperature blank included in the cooler? ..... YES  NO   
 What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: \_\_\_\_\_  
 Was sufficient ice used (if appropriate)? ..... NA YES  NO   
 Were all bottles sealed in individual plastic bags? ..... YES  NO   
 Did all bottles arrive in good condition (unbroken)? ..... YES  NO   
 Were all bottle labels complete and legible? ..... YES  NO   
 Did the number of containers listed on COC match with the number of containers received? ..... YES  NO   
 Did all bottle labels and tags agree with custody papers? ..... YES  NO   
 Were all bottles used correct for the requested analyses? ..... YES  NO   
 Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA  YES  NO   
 Were all VOC vials free of air bubbles? ..... NA  YES  NO   
 Was sufficient amount of sample sent in each bottle? ..... YES  NO   
 Date VOC Trip Blank was made at ARI..... NA   
 Was Sample Split by ARI :  NA YES Date/Time: \_\_\_\_\_ Equipment: \_\_\_\_\_ Split by: \_\_\_\_\_

Samples Logged by: TS Date: 6-17-15 Time: 754

**\*\* Notify Project Manager of discrepancies or concerns \*\***

| Sample ID on Bottle | Sample ID on COC | Sample ID on Bottle | Sample ID on COC |
|---------------------|------------------|---------------------|------------------|
| <u>SB-7-12</u>      | <u>SB-7-13</u>   |                     |                  |
|                     |                  |                     |                  |
|                     |                  |                     |                  |

**Additional Notes, Discrepancies, & Resolutions:**

By: TS Date: 6-17-15

|  |  |  |                                 |
|--|--|--|---------------------------------|
|  |  |  | Small → "sm" (< 2 mm)           |
|  |  |  | Peabubbles → "pb" (2 to < 4 mm) |
|  |  |  | Large → "lg" (4 to < 6 mm)      |
|  |  |  | Headspace → "hs" (> 6 mm)       |



# Cooler Temperature Compliance Form

| Cooler#:                                      | Temperature(°C): |             |
|---|------------------|-------------|
| Sample ID                                     | Bottle Count     | Bottle Type |
| <i>All samples<br/>received above<br/>6°C</i> |                  |             |
|   |                  |             |
|   |                  |             |
|   |                  |             |
|   |                  |             |
|   |                  |             |

| Cooler#:  | Temperature(°C): |             |
|-----------|------------------|-------------|
| Sample ID | Bottle Count     | Bottle Type |
|           |                  |             |
|           |                  |             |
|           |                  |             |
|           |                  |             |
|           |                  |             |
|           |                  |             |
|           |                  |             |
|           |                  |             |

| Cooler#:  | Temperature(°C): |             |
|-----------|------------------|-------------|
| Sample ID | Bottle Count     | Bottle Type |
|           |                  |             |
|           |                  |             |
|           |                  |             |
|           |                  |             |
|           |                  |             |
|           |                  |             |
|           |                  |             |
|           |                  |             |
|           |                  |             |

| Cooler#:  | Temperature(°C): |             |
|-----------|------------------|-------------|
| Sample ID | Bottle Count     | Bottle Type |
|           |                  |             |
|           |                  |             |
|           |                  |             |
|           |                  |             |
|           |                  |             |
|           |                  |             |
|           |                  |             |
|           |                  |             |
|           |                  |             |

Completed by:   *A*   Date:   *8/16/15*   Time:   *1605*

# Sample ID Cross Reference Report



ARI Job No: AHX6  
Client: PES Environmental, Inc.  
Project Event: 1246.030.02  
Project Name: Bethel Junction

| Sample ID  | ARI Lab ID | ARI LIMS ID | Matrix | Sample Date/Time | VTSR           |
|------------|------------|-------------|--------|------------------|----------------|
| 1. SB-7-10 | AHX6A      | 15-11338    | Soil   | 06/12/15 10:30   | 06/16/15 16:10 |
| 2. SB-7-13 | AHX6B      | 15-11339    | Soil   | 06/12/15 15:40   | 06/16/15 16:10 |

# Materials Testing & Consulting, Inc.

Geotechnical Engineering • Special Inspection • Materials Testing • Environmental Consulting




**Project:** Bethel Junction  
**Project #:** AHX6  
**Client:** Analytical Resources, Inc.  
**Source:** SB-7-10, SB-7-13  
**MTC Sample#:** T15-0983, T15-0984

**Date Received:** June 17, 2015  
**Sampled By:** Others  
**Date Tested:** June 29, 2015  
**Tested By:** A. Urban

## CASE NARRATIVE

1. Two samples were submitted for grain size distribution according to ASTM D422. The samples were prepared according to ASTM D421.
2. An assumed specific gravity of 2.65 was used in the hydrometer calculations.
3. A standard milkshake mixer type device was used to disperse the fine fraction sample for one minute.
4. One sample from this job was chosen for triplicate analysis.
5. The data is provided in summary tables and plots.
6. There were no noted anomalies in this project.

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Reviewed by: 

Corporate ~ 777 Chrysler Drive • Burlington, WA 98233 • Phone (360) 755-1990 • Fax (360) 755-1980  
Regional Offices: Olympia ~ 360.534.9777 Bellingham ~ 360.647.6111 Silverdale ~ 360.698.6787 Tukwila ~ 206.241.1974  
Visit our website: [www.mtc-inc.net](http://www.mtc-inc.net)



# Materials Testing & Consulting, Inc.

Geotechnical Engineering • Special Inspection • Materials Testing • Environmental Consulting



Project: Bethel Junction  
 Project #: AHXG  
 Date Received: June 17, 2015  
 Date Tested: June 29, 2015

Client: Analytical Resources, Inc.

Sampled by: Others  
 Tested by: A. Urhan

Percent Finer (Passing) Than the Indicated Size

| Sieve Size (microns) | 3"    | 2"    | 1 1/2" | 1"    | 3/4"  | 1/2"  | 3/8"  | #4<br>(4750) | #10<br>(2000) | #20<br>(850) | #40<br>(425) | #60<br>(250) | #100<br>(150) | #200<br>(75) | 32   | 22   | 13   | 9    | 7    | 3.2 | 1.3 |
|----------------------|-------|-------|--------|-------|-------|-------|-------|--------------|---------------|--------------|--------------|--------------|---------------|--------------|------|------|------|------|------|-----|-----|
| SB-7-13              | 100.0 | 100.0 | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 97.8         | 95.4          | 92.8         | 87.4         | 74.7         | 58.8          | 41.6         | 22.9 | 18.3 | 15.2 | 12.2 | 12.2 | 7.6 | 4.6 |
| SB-7-10              | 100.0 | 100.0 | 100.0  | 100.0 | 100.0 | 98.8  | 98.1  | 96.9         | 94.6          | 92.9         | 87.5         | 74.5         | 58.4          | 41.2         | 23.9 | 19.4 | 14.9 | 11.9 | 10.4 | 7.5 | 4.5 |
|                      | 100.0 | 100.0 | 100.0  | 100.0 | 100.0 | 100.0 | 98.9  | 97.3         | 95.7          | 93.9         | 89.8         | 79.0         | 62.7          | 49.5         | 22.3 | 15.9 | 14.3 | 11.2 | 11.2 | 8.0 | 4.8 |

Testing performed according to ASTM D421/D422  
 Organics were not removed prior to analysis. The grain size distribution reported is the "apparent grain size distribution".

Reviewed by: 

Corporate ~ 777 Chrysler Drive • Burlington, WA 98233 • Phone (360) 755-1990 • Fax (360) 755-1980  
 Regional Offices: Olympia ~ 360.534.9777 Bellingham ~ 360.647.6111 Silverdale ~ 360.698.6787 Tukwila ~ 206.241.1974  
 Visit our website: www.mtc-inc.net

# Materials Testing & Consulting, Inc.

Geotechnical Engineering • Special Inspection • Materials Testing • Environmental Consulting

Client: Analytical Resources, Inc.

Project: Bethel Junction

Project #: AHEX6

Date Received: June 17, 2015

Date Tested: June 29, 2015

Sampled by: Others

Tested by: A. Urban



Relative Standard Deviation, By Size

| Sample ID | 75000 | 50000 | 37500 | 25000 | 19000 | 12500 | 9500  | 4750 | 2000 | 850  | 425  | 250  | 150  | 75   | 32   | 22   | 13   | 9    | 7    | 3.2 | 1.3 |
|-----------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
|           | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 97.8 | 95.4 | 92.8 | 87.4 | 74.7 | 58.8 | 41.6 | 22.9 | 18.3 | 15.2 | 12.2 | 12.2 | 7.6 | 4.6 |
| SB-7-13   | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.4  | 96.4  | 95.8 | 93.5 | 91.0 | 85.7 | 73.5 | 58.1 | 45.2 | 22.6 | 18.1 | 15.1 | 12.1 | 12.1 | 7.5 | 4.5 |
| AVE       | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.8  | 96.9  | 96.9 | 94.5 | 92.9 | 87.5 | 74.5 | 58.4 | 41.2 | 23.9 | 19.4 | 14.9 | 11.9 | 10.4 | 7.5 | 4.5 |
| STDEV     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.5   | 1.5   | 0.8  | 0.8  | 0.9  | 0.9  | 0.6  | 0.3  | 1.8  | 0.6  | 0.6  | 0.1  | 0.1  | 0.1  | 0.8 | 0.1 |
| %RSD      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.5   | 1.5   | 0.9  | 0.8  | 1.0  | 1.0  | 0.7  | 0.5  | 4.2  | 2.4  | 3.1  | 0.9  | 0.9  | 6.8  | 0.9 | 0.9 |

This Triplicate applies to the Batch Containing the Following Samples

| Sample ID | Date Sampled | Date Set Up | Date Started | Date Complete | Data Qualifiers |
|-----------|--------------|-------------|--------------|---------------|-----------------|
| SB-7-10   | 6/12/2015    | 6/18/2015   | 6/22/2015    | 6/29/2015     |                 |
|           | 6/12/2015    | 6/18/2015   | 6/22/2015    | 6/29/2015     |                 |
| SB-7-10   | 6/12/2015    | 6/18/2015   | 6/22/2015    | 6/29/2015     |                 |
|           | 6/12/2015    | 6/18/2015   | 6/22/2015    | 6/29/2015     |                 |

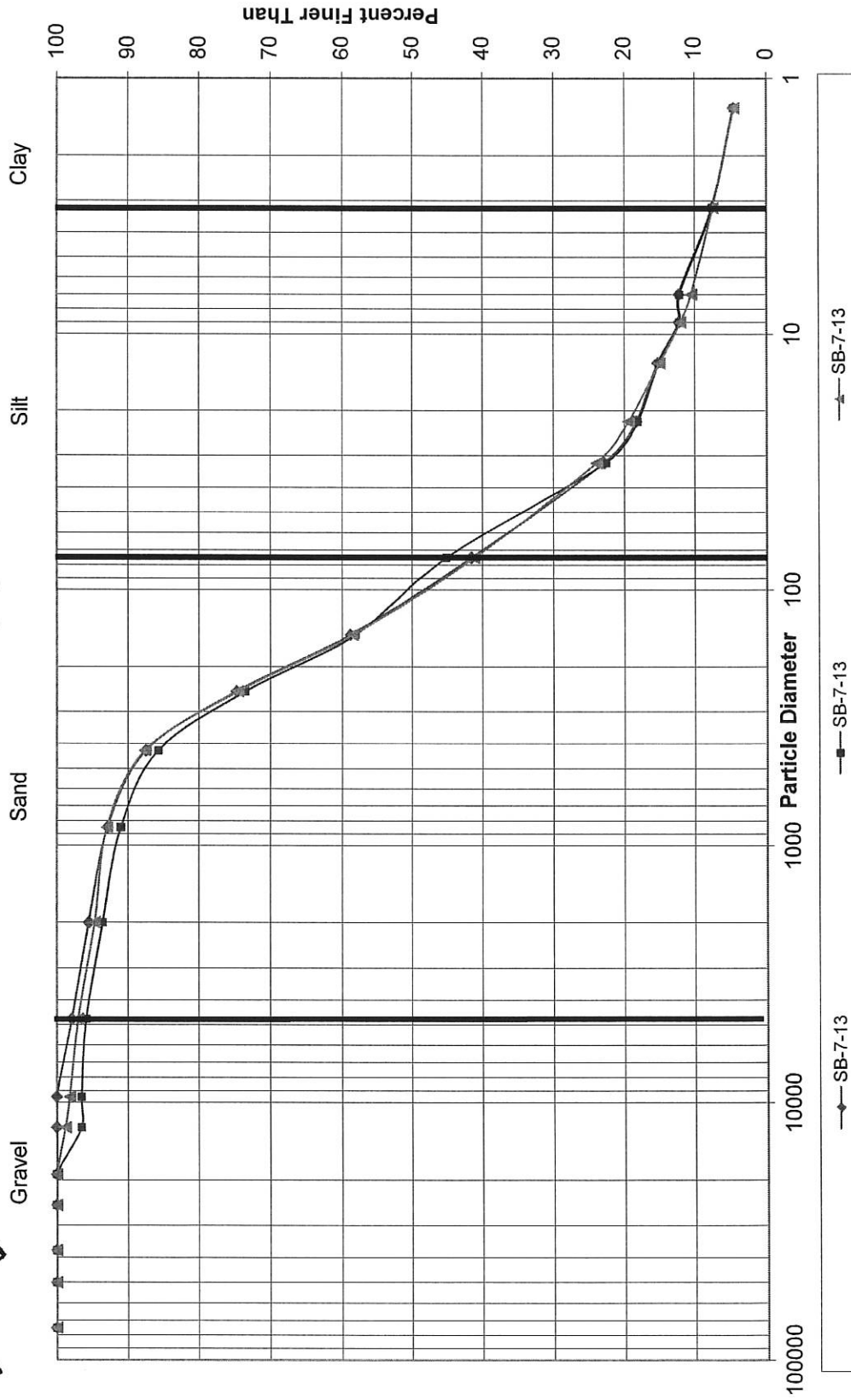
Testing performed according to ASTM D421/D422  
Organics were not removed prior to analysis. The grain size distribution reported is the "apparent grain size distribution".

Reviewed by: 

Corporate ~ 777 Chrysler Drive • Burlington, WA 98333 • Phone (360) 755-1990 • Fax (360) 755-1980  
Regional Offices: Olympia ~ 360.534.9777 Bellingham ~ 360.647.6111 Silverdale ~ 360.698.6787 Tukwila ~ 206.241.1974  
Visit our website: www.mtc-inc.net

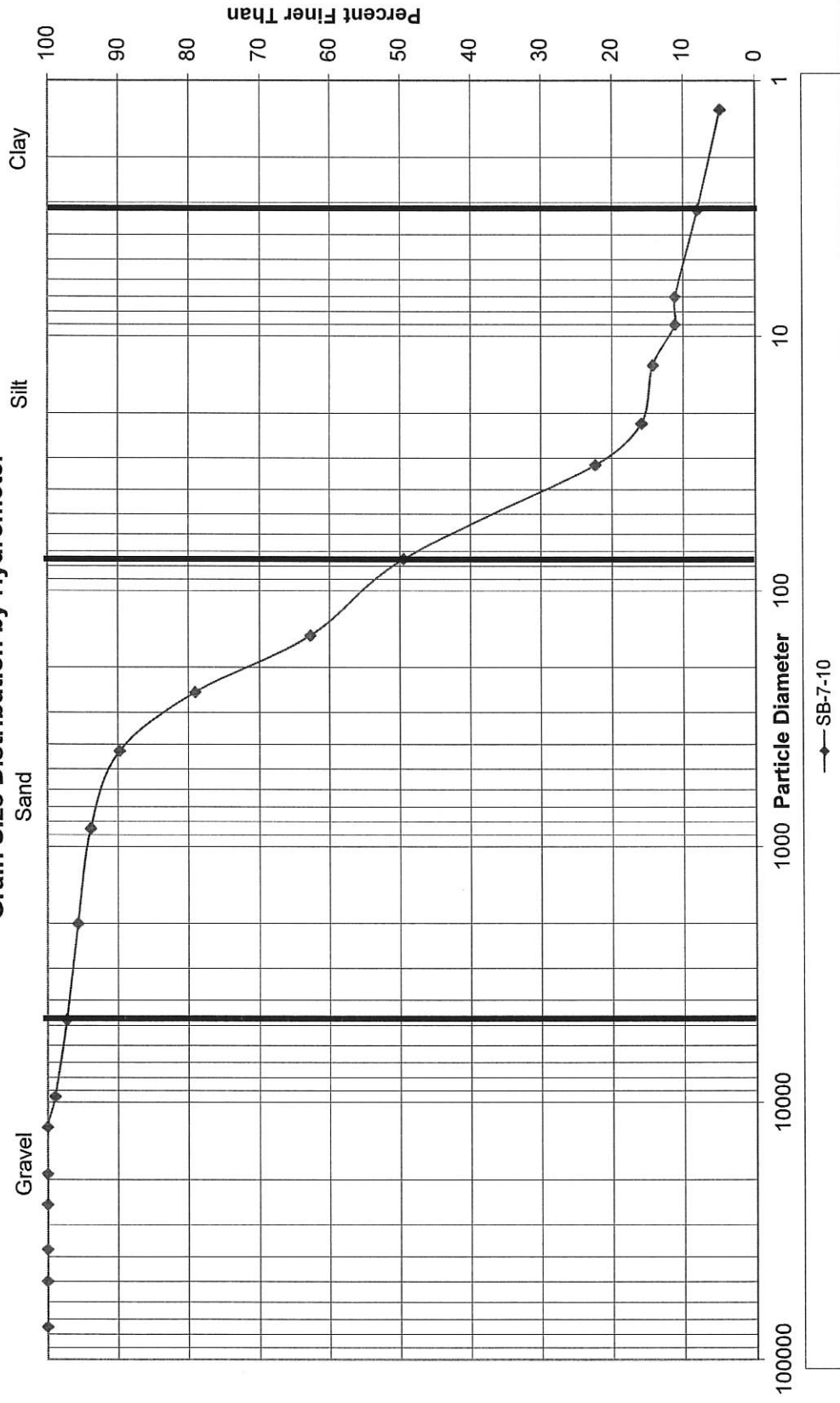


### Grain Size Distribution by Hydrometer





### Grain Size Distribution by Hydrometer





**Analytical Resources, Incorporated**  
Analytical Chemists and Consultants

6 July 2015

Kelly Rankich  
PES Environmental, Inc.  
1215 Fourth Avenue, Suite 1350  
Seattle, WA 98161

**RE: Project: Bethel Junction, 1246.030.02**  
**ARI Job No: AIL4**

Dear Kelly:

Please find enclosed the original chain of custody record and the final results for the samples from the project referenced above. Four soil samples were received on June 29, 2015.

The samples were analyzed for Grain Size as requested. These analyses were sub-contracted to MTC in Tukwila, WA.

An electronic copy of these reports will be kept on file with ARI. Should you have any questions regarding these results, please feel free to contact me at any time.

Sincerely,

ANALYTICAL RESOURCES, INC.

A handwritten signature in blue ink that reads "Mark D. Harris".

Mark D. Harris  
Project Manager  
206/695-6210  
markh@arilabs.com

Enclosures

cc: file AIL4

MDH/mdh





# Cooler Receipt Form

ARI Client: PESE

Project Name: Bethel Tutor

COC No(s): \_\_\_\_\_ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: \_\_\_\_\_

Assigned ARI Job No: ATL4

Tracking No: \_\_\_\_\_ NA

**Preliminary Examination Phase:**

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES  NO

Were custody papers included with the cooler? ..... YES  NO

Were custody papers properly filled out (ink, signed, etc.) ..... YES  NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) \_\_\_\_\_

Time: 0850 \_\_\_\_\_ 23.2 \_\_\_\_\_

If cooler temperature is out of compliance fill out form 00070F \_\_\_\_\_ Temp Gun ID#: D009565

Cooler Accepted by: CA Date: 6/29/15 Time: 0850

*Complete custody forms and attach all shipping documents*

**Log-In Phase:**

Was a temperature blank included in the cooler? ..... YES  NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: \_\_\_\_\_

Was sufficient ice used (if appropriate)? ..... NA YES  NO

Were all bottles sealed in individual plastic bags? ..... YES  NO

Did all bottles arrive in good condition (unbroken)? ..... YES  NO

Were all bottle labels complete and legible? ..... YES  NO

Did the number of containers listed on COC match with the number of containers received? ..... YES  NO

Did all bottle labels and tags agree with custody papers? ..... YES  NO

Were all bottles used correct for the requested analyses? ..... YES  NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES  NO

Were all VOC vials free of air bubbles? ..... NA YES  NO

Was sufficient amount of sample sent in each bottle? ..... YES  NO

Date VOC Trip Blank was made at ARI..... NA \_\_\_\_\_

Was Sample Split by ARI :  NA YES Date/Time: \_\_\_\_\_ Equipment: \_\_\_\_\_ Split by: \_\_\_\_\_

Samples Logged by: CA Date: 6/29/15 Time: 1128

**\*\* Notify Project Manager of discrepancies or concerns \*\***

| Sample ID on Bottle | Sample ID on COC | Sample ID on Bottle | Sample ID on COC |
|---------------------|------------------|---------------------|------------------|
|                     |                  |                     |                  |
|                     |                  |                     |                  |
|                     |                  |                     |                  |

**Additional Notes, Discrepancies, & Resolutions:**

By: \_\_\_\_\_ Date: \_\_\_\_\_

|  |  |  |                                 |
|--|--|--|---------------------------------|
|  |  |  | Small → "sm" (< 2 mm)           |
|  |  |  | Peabubbles → "pb" (2 to < 4 mm) |
|  |  |  | Large → "lg" (4 to < 6 mm)      |
|  |  |  | Headspace → "hs" (> 6 mm)       |



Laboratory: Materials Testing & Consulting, InARI Client: PES Environmental, Inc.  
 Lab Contact: Harold Benny Project ID: Bethel Interior  
 Lab Address: 4611 S. 134th Pl ARI PM: Mark Harris  
 Tukwila, WA 98168 Phone: 206-695-6210  
 Phone: 360-255-9802 Fax: 206-695-6201  
 Fax: Email: subdata@arilabs.com

Analytical Protocol: In-house Requested Turn Around: **07/14/15**  
 Special Instructions: Email Results (Y/N): **Yes**

**Limits of Liability.** Subcontractor is expected to perform all requested services in accordance with appropriate methodology following Standard Operating Procedures that meet standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the negotiated amount for said services. The agreement by the Subcontractor to perform services requested by ARI releases ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Subcontractor.

| ARI ID                     | Client ID/<br>Add'l ID | Sampled           | Matrix | Bottles | Analyses            |
|----------------------------|------------------------|-------------------|--------|---------|---------------------|
| 15-11867-AIL4A             | SB-11-2                | 06/25/15<br>09:50 | Soil   | 1       | GS BY Sieve & Hydro |
| Special Instructions: None |                        |                   |        |         |                     |
| 15-11868-AIL4B             | SB-10-3                | 06/25/15<br>10:50 | Soil   | 1       | GS By Sieve & Hydro |
| Special Instructions: None |                        |                   |        |         |                     |
| 15-11869-AIL4C             | SB-12-3                | 06/25/15<br>11:55 | Soil   | 1       | GS By Sieve & Hydro |
| Special Instructions: None |                        |                   |        |         |                     |
| 15-11870-AIL4D             | SB-13-3                | 06/25/15<br>13:35 | Soil   | 1       | GS By Sieve & Hydro |
| Special Instructions: None |                        |                   |        |         |                     |

|                 |         |         |      |      |  |
|-----------------|---------|---------|------|------|--|
| Carrier         |         | Airbill |      | Date |  |
| Relinquished by | Company | Date    | Time |      |  |
|                 | ARM     | 6/29/15 | 1208 |      |  |
| Received by     | Company | Date    | Time |      |  |
|                 | MTC     | 6.29.15 | 1208 |      |  |



# Sample ID Cross Reference Report



ARI Job No: AIL4  
Client: PES Environmental, Inc.  
Project Event: 1246.030.02  
Project Name: Bethel Interior

| Sample ID  | ARI Lab ID | ARI LIMS ID | Matrix | Sample Date/Time | VTSR           |
|------------|------------|-------------|--------|------------------|----------------|
| 1. SB-11-2 | AIL4A      | 15-11867    | Soil   | 06/25/15 09:50   | 06/29/15 08:50 |
| 2. SB-10-3 | AIL4B      | 15-11868    | Soil   | 06/25/15 10:50   | 06/29/15 08:50 |
| 3. SB-12-3 | AIL4C      | 15-11869    | Soil   | 06/25/15 11:55   | 06/29/15 08:50 |
| 4. SB-13-3 | AIL4D      | 15-11870    | Soil   | 06/25/15 13:35   | 06/29/15 08:50 |

# Materials Testing & Consulting, Inc.

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**Project:** Bethel Interior \_\_\_\_\_  
**Project #:** AIL4 \_\_\_\_\_  
**Client:** Analytical Resources, Inc. \_\_\_\_\_  
**Source:** Multiple \_\_\_\_\_  
**MTC Sample#:** T15-1049 - T15-1052 \_\_\_\_\_

**Date Received:** June 29, 2015 \_\_\_\_\_  
**Sampled By:** Others \_\_\_\_\_  
**Date Tested:** July 6, 2015 \_\_\_\_\_  
**Tested By:** A. Urban \_\_\_\_\_

## CASE NARRATIVE

1. Four samples were submitted for grain size distribution according to ASTM D422. The samples were prepared according to ASTM D421.
2. An assumed specific gravity of 2.65 was used in the hydrometer calculations.
3. A standard milkshake mixer type device was used to disperse the fine fraction sample for one minute.
4. One sample from this job was chosen for triplicate analysis.
5. The data is provided in summary tables and plots.
6. There were no noted anomalies in this project.

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Reviewed by: *E. J. H. H. H.*

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Geotechnical Engineering • Special Inspection • Materials Testing • Environmental Consulting



Project: Bethel Interior  
 Project #: ALL4  
 Date Received: June 29, 2015  
 Date Tested: July 6, 2015

Client: Analytical Resources, Inc.

Sampled by: Others  
 Tested by: A. Urban

Percent Finer (Passing) Than the Indicated Size

| Sieve Size (microns) | 3"    | 2"    | 1 1/2" | 1"    | 3/4"  | 1/2"  | 3/8" | #4<br>(4750) | #10<br>(2000) | #20<br>(850) | #40<br>(425) | #60<br>(250) | #100<br>(150) | #200<br>(75) | 32   | 22   | 13   | 9    | 7    | 3.2 | 1.3 |
|----------------------|-------|-------|--------|-------|-------|-------|------|--------------|---------------|--------------|--------------|--------------|---------------|--------------|------|------|------|------|------|-----|-----|
| SB-11-2              | 100.0 | 100.0 | 100.0  | 100.0 | 100.0 | 100.0 | 97.1 | 95.3         | 93.1          | 90.9         | 86.6         | 76.5         | 56.8          | 35.5         | 20.6 | 17.3 | 14.0 | 12.4 | 9.9  | 7.4 | 4.9 |
|                      | 100.0 | 100.0 | 100.0  | 100.0 | 100.0 | 100.0 | 98.9 | 97.7         | 95.5          | 92.8         | 88.1         | 77.7         | 58.2          | 37.3         | 21.9 | 17.7 | 14.3 | 12.6 | 10.1 | 7.6 | 5.0 |
|                      | 100.0 | 100.0 | 100.0  | 100.0 | 100.0 | 97.6  | 96.9 | 95.3         | 92.6          | 90.1         | 85.6         | 75.2         | 54.9          | 33.9         | 21.2 | 17.1 | 13.8 | 12.2 | 9.8  | 6.5 | 4.9 |
| SB-10-3              | 100.0 | 100.0 | 100.0  | 100.0 | 100.0 | 100.0 | 98.5 | 97.0         | 93.9          | 90.8         | 85.4         | 73.7         | 57.7          | 40.0         | 22.5 | 18.3 | 14.2 | 11.7 | 9.2  | 6.7 | 4.2 |
| SB-12-3              | 100.0 | 100.0 | 100.0  | 100.0 | 94.4  | 92.0  | 90.2 | 87.2         | 83.5          | 79.5         | 73.1         | 61.5         | 47.1          | 31.2         | 18.2 | 14.6 | 10.9 | 8.8  | 7.3  | 4.4 | 2.9 |
| SB-13-3              | 100.0 | 100.0 | 100.0  | 100.0 | 100.0 | 99.1  | 97.5 | 95.2         | 91.5          | 88.2         | 81.8         | 68.8         | 52.9          | 36.3         | 20.0 | 16.0 | 12.0 | 10.4 | 8.8  | 5.6 | 3.2 |

Testing performed according to ASTM D421/D422  
 Organics were not removed prior to analysis. The grain size distribution reported is the "apparent grain size distribution".

Reviewed by: *[Signature]*

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# Materials Testing & Consulting, Inc.

Geotechnical Engineering • Special Inspection • Materials Testing • Environmental Consulting

Project: Bethel Interior  
 Project #: AIL4  
 Date Received: June 29, 2015  
 Date Tested: July 6, 2015

Client: Analytical Resources, Inc.

Sampled by: Others  
 Tested by: A. Urban

### Percent Retained in Each Size Fraction

| Description | % Coarse Gravel |          |           |        |          | % Gravel |           |          | % Coarse Sand<br>4750-2000 | % Medium Sand |         |         | % Fine Sand |       |       | % Very Coarse Silt | % Coarse Silt | % Medium Silt | % Fine Silt | % Fine Silt | % Very Fine Silt | % Clay |
|-------------|-----------------|----------|-----------|--------|----------|----------|-----------|----------|----------------------------|---------------|---------|---------|-------------|-------|-------|--------------------|---------------|---------------|-------------|-------------|------------------|--------|
|             | 3-2"            | 2-1 1/2" | 1 1/2"-1" | 1-3/4" | 3/4-1/2" | 1/2-3/8" | 3/8"-4750 | 2000-850 |                            | 850-425       | 425-250 | 250-150 | 150-75      | 75-32 | 32-22 |                    |               |               |             |             |                  |        |
| SB-11-2     | 0.0             | 0.0      | 0.0       | 0.0    | 0.0      | 2.9      | 1.7       | 2.2      | 2.2                        | 4.3           | 10.1    | 19.7    | 21.3        | 14.9  | 3.3   | 1.6                | 2.5           | 2.5           | 2.5         | 2.5         | 4.9              |        |
| SB-10-3     | 0.0             | 0.0      | 0.0       | 0.0    | 2.4      | 0.7      | 1.7       | 2.7      | 2.5                        | 4.5           | 10.4    | 20.3    | 21.0        | 12.8  | 4.1   | 1.6                | 2.4           | 3.3           | 3.3         | 1.6         | 4.9              |        |
| SB-12-3     | 0.0             | 0.0      | 0.0       | 0.0    | 0.0      | 1.5      | 1.5       | 3.1      | 3.1                        | 5.4           | 11.7    | 16.0    | 17.7        | 17.5  | 4.2   | 2.5                | 2.5           | 2.5           | 2.5         | 2.5         | 4.2              |        |
| SB-13-3     | 0.0             | 0.0      | 0.0       | 0.0    | 5.6      | 2.4      | 1.7       | 3.7      | 4.0                        | 6.4           | 11.6    | 14.4    | 15.9        | 13.0  | 3.6   | 2.2                | 1.5           | 2.9           | 1.5         | 2.9         | 2.9              |        |
|             | 0.0             | 0.0      | 0.0       | 0.0    | 0.9      | 1.6      | 2.3       | 3.7      | 3.3                        | 6.4           | 13.0    | 15.9    | 16.7        | 16.2  | 4.0   | 1.6                | 1.6           | 3.2           | 3.2         | 2.4         | 3.2              |        |

Testing performed according to ASTM D421/D422  
 Organics were not removed prior to analysis. The grain size distribution reported is the "apparent grain size distribution".

Reviewed by: EJ...

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Project: Bethel Interior  
 Project #: AIL4  
 Date Received: June 29, 2015  
 Date Tested: July 6, 2015  
 Client: Analytical Resources, Inc.  
 Sampled by: Olhars  
 Tested by: A. Urban

| Sample ID | Relative Standard Deviation, By Size |       |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
|-----------|--------------------------------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
|           | 75000                                | 50000 | 37500 | 25000 | 19000 | 12500 | 9500 | 4750 | 2000 | 850  | 425  | 250  | 150  | 75   | 32   | 22   | 13   | 9    | 7   | 3.2 | 1.3 |     |
| SB-11-2   | 100.0                                | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 97.1 | 95.3 | 93.1 | 90.9 | 86.6 | 76.5 | 56.8 | 35.5 | 20.6 | 17.3 | 14.0 | 12.4 | 9.9 | 7.4 | 4.9 | 4.9 |
| AVE       | 100.0                                | 100.0 | 100.0 | 100.0 | 100.0 | 97.6  | 96.9 | 95.3 | 92.6 | 90.1 | 85.6 | 75.2 | 54.9 | 33.9 | 21.2 | 17.1 | 13.8 | 12.2 | 9.8 | 6.5 | 4.9 | 4.9 |
| STDEV     | 0.0                                  | 0.0   | 0.0   | 0.0   | 0.0   | 1.1   | 0.9  | 1.1  | 1.3  | 1.1  | 1.0  | 1.0  | 1.3  | 1.4  | 0.5  | 0.2  | 0.2  | 0.2  | 0.1 | 0.5 | 0.1 | 0.1 |
| %RSD      | 0.0                                  | 0.0   | 0.0   | 0.0   | 0.0   | 1.1   | 0.9  | 1.2  | 1.3  | 1.2  | 1.2  | 1.4  | 2.4  | 3.8  | 2.4  | 1.4  | 1.4  | 1.4  | 1.4 | 6.6 | 1.4 | 1.4 |

This Triplicate applies to the Batch Containing the Following Samples

| Sample ID | Date Sampled | Date Set Up | Date Started | Date Complete | Data Qualifiers |
|-----------|--------------|-------------|--------------|---------------|-----------------|
| SB-11-2   | 6/25/2015    | 6/29/2015   | 7/1/2015     | 7/6/2015      |                 |
|           | 6/25/2015    | 6/29/2015   | 7/1/2015     | 7/6/2015      |                 |
|           | 6/25/2015    | 6/29/2015   | 7/1/2015     | 7/6/2015      |                 |
| SB-10-3   | 6/25/2015    | 6/29/2015   | 7/1/2015     | 7/6/2015      |                 |
|           | 6/25/2015    | 6/29/2015   | 7/1/2015     | 7/6/2015      |                 |
|           | 6/25/2015    | 6/29/2015   | 7/1/2015     | 7/6/2015      |                 |
| SB-13-3   | 6/25/2015    | 6/29/2015   | 7/1/2015     | 7/6/2015      |                 |
|           | 6/25/2015    | 6/29/2015   | 7/1/2015     | 7/6/2015      |                 |
|           | 6/25/2015    | 6/29/2015   | 7/1/2015     | 7/6/2015      |                 |

Testing performed according to ASTM D421/D422  
 Organics were not removed prior to analysis. The grain size distribution reported is the "apparent grain size distribution".

Reviewed by:

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**Table E-1**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Phase II Subsurface Investigation  
Bethel Junction Shopping Center, Port Orchard, Washington**

| Particle Type                | Screen Size (microns) | Screen Size (cm) | SB-7-10       |  | SB-7-13       |  | SB-7-13 (duplicate) |  |
|------------------------------|-----------------------|------------------|---------------|--|---------------|--|---------------------|--|
|                              |                       |                  | Frac Retained | $f_i / (d_{li}^{0.404} \times d_{si}^{0.595})$ | Frac Retained | $f_i / (d_{li}^{0.404} \times d_{si}^{0.595})$ | Frac Retained       | $f_i / (d_{li}^{0.404} \times d_{si}^{0.595})$ |
| Coarse Gravel                | 2"                    | 5.08             | 0.000         | —  | 0.000         | —  | 0.000               | —  |
|                              | 1½"                   | 3.81             | 0.000         | 0.00000  | 0.000         | 0.00000  | 0.000               | 0.00000  |
|                              | 1"                    | 2.54             | 0.000         | 0.00000  | 0.000         | 0.00000  | 0.000               | 0.00000  |
|                              | ¾"                    | 1.905            | 0.000         | 0.00000  | 0.000         | 0.00000  | 0.000               | 0.00000  |
| Fine Gravel                  | ½"                    | 1.27             | 0.000         | 0.00000  | 0.000         | 0.00000  | 0.036               | 0.02407  |
|                              | ⅜"                    | 0.9525           | 0.011         | 0.01028  | 0.000         | 0.00000  | 0.000               | 0.00000  |
|                              | 4,750 (No. 4)         | 0.4750           | 0.016         | 0.02541  | 0.022         | 0.03494  | 0.006               | 0.00953  |
| Coarse Sand                  | 2,000 (No. 10)        | 0.2000           | 0.016         | 0.05631  | 0.024         | 0.08447  | 0.023               | 0.08095  |
| Medium Sand                  | 850 (No. 20)          | 0.0850           | 0.018         | 0.14950  | 0.026         | 0.21595  | 0.025               | 0.20764  |
|                              | 425 (No. 40)          | 0.0425           | 0.041         | 0.72679  | 0.054         | 0.95723  | 0.053               | 0.93951  |
| Fine Sand                    | 250 (No. 60)          | 0.0250           | 0.108         | 3.47360  | 0.127         | 4.08470  | 0.122               | 3.92389  |
|                              | 150 (No. 100)         | 0.0150           | 0.163         | 8.80330  | 0.159         | 8.58727  | 0.154               | 8.31723  |
|                              | 75 (No. 200)          | 0.0075           | 0.132         | 13.23645                                       | 0.172         | 17.24750                                       | 0.129               | 12.93562                                       |
| Silt and Clay                | 32                    | 0.0032           | 0.272         | 59.90732                                       | 0.187         | 41.18628                                       | 0.226               | 49.77594                                       |
|                              | 22                    | 0.0022           | 0.064         | 24.85180                                       | 0.046         | 17.86223                                       | 0.045               | 17.47392                                       |
|                              | 13                    | 0.0013           | 0.016         | 9.88519  | 0.031         | 19.15255                                       | 0.030               | 18.53473                                       |
|                              | 9                     | 0.0009           | 0.031         | 29.48182                                       | 0.030         | 28.53079                                       | 0.030               | 28.53079                                       |
|                              | 7                     | 0.0007           | 0.000         | 0.00000  | 0.000         | 0.00000  | 0.000               | 0.00000  |
|                              | 3.2                   | 0.00032          | 0.032         | 72.30463                                       | 0.046         | 103.93791                                      | 0.046               | 103.93791                                      |
|                              | 1.3                   | 0.00013          | 0.080         | 423.85089                                      | 0.076         | 402.65835                                      | 0.075               | 397.36021                                      |
| Sum                          |                       |                  | 1.00          | 646.763  | 1.00          | 644.540  | 1.00                | 642.052  |
| Estimated Maximum k (cm/sec) |                       |                  |               | 2.27E-04                                       |               | 2.29E-04                                       |                     | 2.31E-04                                       |
| Estimated Median k (cm/sec)  |                       |                  |               | 9.75E-05                                       |               | 9.82E-05                                       |                     | 9.89E-05                                       |
| Estimated Minimum k (cm/sec) |                       |                  |               | 3.23E-05                                       |               | 3.25E-05                                       |                     | 3.27E-05                                       |
| % Gravel                     |                       |                  | 2.7           |  | 2.2           |  | 4.2                 |  |
| % Sand                       |                       |                  | 47.8          |  | 56.2          |  | 50.6                |  |
| % Silt and Clay              |                       |                  | 49.5          |  | 41.6          |  | 45.2                |  |

Notes:

1. Kozeny-Carman Equation:  

$$k = [\Theta^3 / (1 - \Theta)^2] * (1.99 \times 10^4) / \{ (\sum [f_i / (d_{li}^{0.404} \times d_{si}^{0.595})])^2 * SF^2 \}$$
 where  $\Theta$  = total porosity  
 $1.99 \times 10^4$  = constant incorporating unit weight and viscosity of water and the empirical Kozeny-Carmon coefficient (1/cm-sec)  
 $f_i$  = fraction of particles retained on the smaller sieve of adjacent sieve pairs (dimensionless)  
 $d_{li}$  = diameter of larger sieve in pair (cm)  
 $d_{si}$  = diameter of smaller sieve in pair (cm)  
 SF = grain shape factor (dimensionless)
2. Frac retained = fraction (by weight) retained on screen
3. Estimated shape factors:
 

|         |      |
|---------|------|
| Rounded | 6.1  |
| Median  | 6.25 |
| Worn    | 6.4  |
4. Estimated porosities:
 

|         |      |
|---------|------|
| Maximum | 0.40 |
| Median  | 0.33 |
| Minimum | 0.25 |



**Table E-1**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Phase II Subsurface Investigation  
Bethel Junction Shopping Center, Port Orchard, Washington**

| Particle Type     | Screen Size (microns) | SB-7-13 (triplicate)   |  | SB-10-3       |  | SB-11-2       |  |         |     |        |      |      |     |         |      |        |      |         |      |
|-------------------|-----------------------|--|--|---------------|--|---------------|--|---------|-----|--------|------|------|-----|---------|------|--------|------|---------|------|
|                   |                       | Frac Retained  | $f_i / (d_{li}^{0.404} \times d_{si}^{0.595})$ | Frac Retained | $f_i / (d_{li}^{0.404} \times d_{si}^{0.595})$ | Frac Retained | $f_i / (d_{li}^{0.404} \times d_{si}^{0.595})$ |         |     |        |      |      |     |         |      |        |      |         |      |
| Coarse Gravel     | 2"                    | 0.000  | —  | 0.000         | —  | 0.000         | —  |         |     |        |      |      |     |         |      |        |      |         |      |
|                   | 1½"                   | 0.000  | 0.00000  | 0.000         | 0.00000  | 0.000         | 0.00000  |         |     |        |      |      |     |         |      |        |      |         |      |
|                   | 1"                    | 0.000  | 0.00000  | 0.000         | 0.00000  | 0.000         | 0.00000  |         |     |        |      |      |     |         |      |        |      |         |      |
|                   | ¾"                    | 0.000  | 0.00000  | 0.000         | 0.00000  | 0.000         | 0.00000  |         |     |        |      |      |     |         |      |        |      |         |      |
| Fine Gravel       | ½"                    | 0.012  | 0.00802  | 0.000         | 0.00000  | 0.000         | 0.00000  |         |     |        |      |      |     |         |      |        |      |         |      |
|                   | ⅜"                    | 0.007  | 0.00654  | 0.015         | 0.01402  | 0.029         | 0.02710  |         |     |        |      |      |     |         |      |        |      |         |      |
|                   | 4,750 (No. 4)         | 0.012  | 0.01906  | 0.015         | 0.02382  | 0.017         | 0.02700  |         |     |        |      |      |     |         |      |        |      |         |      |
| Coarse Sand       | 2,000 (No. 10)        | 0.023  | 0.08095  | 0.031         | 0.10911  | 0.022         | 0.07743  |         |     |        |      |      |     |         |      |        |      |         |      |
| Medium Sand       | 850 (No. 20)          | 0.017  | 0.14120  | 0.031         | 0.25748  | 0.022         | 0.18273  |         |     |        |      |      |     |         |      |        |      |         |      |
|                   | 425 (No. 40)          | 0.054  | 0.95723  | 0.054         | 0.95723  | 0.043         | 0.76224  |         |     |        |      |      |     |         |      |        |      |         |      |
| Fine Sand         | 250 (No. 60)          | 0.130  | 4.18119  | 0.117         | 3.76307  | 0.101         | 3.24846  |         |     |        |      |      |     |         |      |        |      |         |      |
|                   | 150 (No. 100)         | 0.161  | 8.69528  | 0.160         | 8.64128  | 0.197         | 10.63957                                       |         |     |        |      |      |     |         |      |        |      |         |      |
|                   | 75 (No. 200)          | 0.172  | 17.24750                                       | 0.177         | 17.74888                                       | 0.213         | 21.35882                                       |         |     |        |      |      |     |         |      |        |      |         |      |
| Silt and Clay     | 32                    | 0.173  | 38.10282                                       | 0.175         | 38.54331                                       | 0.149         | 32.81688                                       |         |     |        |      |      |     |         |      |        |      |         |      |
|                   | 22                    | 0.045  | 17.47392                                       | 0.042         | 16.30900                                       | 0.033         | 12.81421                                       |         |     |        |      |      |     |         |      |        |      |         |      |
|                   | 13                    | 0.045  | 27.80209                                       | 0.042         | 25.94862                                       | 0.033         | 20.38820                                       |         |     |        |      |      |     |         |      |        |      |         |      |
|                   | 9                     | 0.030  | 28.53079                                       | 0.025         | 23.77566                                       | 0.016         | 15.21642                                       |         |     |        |      |      |     |         |      |        |      |         |      |
|                   | 7                     | 0.015  | 19.21958                                       | 0.025         | 32.03264                                       | 0.025         | 32.03264                                       |         |     |        |      |      |     |         |      |        |      |         |      |
|                   | 3.2                   | 0.029  | 65.52607                                       | 0.025         | 56.48800                                       | 0.025         | 56.48800                                       |         |     |        |      |      |     |         |      |        |      |         |      |
|                   | 1.3                   | 0.075  | 397.36021                                      | 0.067         | 354.97512                                      | 0.074         | 392.06207                                      |         |     |        |      |      |     |         |      |        |      |         |      |
| Estimated Maximum |                       | 1.00   | 625.352  | 1.00          | 579.587  | 1.00          | 598.142  |         |     |        |      |      |     |         |      |        |      |         |      |
| Estimated Median  |                       |  | 2.43E-04                                       |               | 2.83E-04                                       |               | 2.66E-04                                       |         |     |        |      |      |     |         |      |        |      |         |      |
| Estimated Minimum |                       |  | 1.04E-04                                       |               | 1.21E-04                                       |               | 1.14E-04                                       |         |     |        |      |      |     |         |      |        |      |         |      |
|                   |                       | 3.1  | 3.45E-05                                       | 4.02E-05      |  | 3.77E-05      |  |         |     |        |      |      |     |         |      |        |      |         |      |
|                   |                       | 55.7   |  |               |  |               |  |         |     |        |      |      |     |         |      |        |      |         |      |
|                   | % Si                  | 41.2   |  |               |  |               |  |         |     |        |      |      |     |         |      |        |      |         |      |
| Notes:            |                       | <p>1. Kozeny-Carman Equation:<br/> <math display="block">k = [\Theta^3 / (1-\Theta)^2] * (1.99 \times 10^4) / \{ (\sum [f_i / (d_{li}^{0.404} \times d_{si}^{0.595})])^2 * SF^2 \}</math>                     where <math>\Theta</math> = total porosity<br/> <math>1.99 \times 10^4</math> = constant incorporating unit weight and viscosity of water and the empirical Kozeny-Carmon coefficient (1/cm-sec)<br/> <math>f_i</math> = fraction of particles retained on the smaller sieve of adjacent sieve pairs (dimensionless)<br/> <math>d_{li}</math> = diameter of larger sieve in pair (cm)<br/> <math>d_{si}</math> = diameter of smaller sieve in pair (cm)<br/>                     SF = grain shape factor (dimensionless)</p> <p>2. Frac retained = fraction (by weight) retained on screen</p> <p>3. Estimated shape factors:</p> <table border="0"> <tr> <td>Rounded</td> <td>6.1</td> </tr> <tr> <td>Median</td> <td>6.25</td> </tr> <tr> <td>Worn</td> <td>6.4</td> </tr> </table> <p>4. Estimated porosities:</p> <table border="0"> <tr> <td>Maximum</td> <td>0.40</td> </tr> <tr> <td>Median</td> <td>0.33</td> </tr> <tr> <td>Minimum</td> <td>0.25</td> </tr> </table> |  |               |  |               |  | Rounded | 6.1 | Median | 6.25 | Worn | 6.4 | Maximum | 0.40 | Median | 0.33 | Minimum | 0.25 |
| Rounded           | 6.1                   |  |  |               |  |               |  |         |     |        |      |      |     |         |      |        |      |         |      |
| Median            | 6.25                  |  |  |               |  |               |  |         |     |        |      |      |     |         |      |        |      |         |      |
| Worn              | 6.4                   |  |  |               |  |               |  |         |     |        |      |      |     |         |      |        |      |         |      |
| Maximum           | 0.40                  |  |  |               |  |               |  |         |     |        |      |      |     |         |      |        |      |         |      |
| Median            | 0.33                  |  |  |               |  |               |  |         |     |        |      |      |     |         |      |        |      |         |      |
| Minimum           | 0.25                  |  |  |               |  |               |  |         |     |        |      |      |     |         |      |        |      |         |      |

**Table E-1**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Phase II Subsurface Investigation  
Bethel Junction Shopping Center, Port Orchard, Washington**

| Particle Type     | Screen Size (microns) | SB-11-2 (duplicate) |  | SB-11-2 (triplicate) |  | SB-12-3       |  |
|-------------------|-----------------------|---------------------|--|----------------------|--|---------------|--|
|                   |                       | Frac Retained       | $f_i / (d_{li}^{0.404} \times d_{si}^{0.595})$ | Frac Retained        | $f_i / (d_{li}^{0.404} \times d_{si}^{0.595})$ | Frac Retained | $f_i / (d_{li}^{0.404} \times d_{si}^{0.595})$ |
| Coarse Gravel     | 2"                    | 0.000               | —  | 0.000                | —  | 0.000         | —  |
|                   | 1½"                   | 0.000               | 0.00000  | 0.000                | 0.00000  | 0.000         | 0.00000  |
|                   | 1"                    | 0.000               | 0.00000  | 0.000                | 0.00000  | 0.000         | 0.00000  |
|                   | ¾"                    | 0.000               | 0.00000  | 0.000                | 0.00000  | 0.056         | 0.02619  |
| Fine Gravel       | ½"                    | 0.000               | 0.00000  | 0.024                | 0.01605  | 0.024         | 0.01605  |
|                   | ⅜"                    | 0.011               | 0.01028  | 0.007                | 0.00654  | 0.017         | 0.01589  |
|                   | 4,750 (No. 4)         | 0.012               | 0.01906  | 0.017                | 0.02700  | 0.031         | 0.04923  |
| Coarse Sand       | 2,000 (No. 10)        | 0.022               | 0.07743  | 0.027                | 0.09503  | 0.037         | 0.13023  |
| Medium Sand       | 850 (No. 20)          | 0.027               | 0.22426  | 0.025                | 0.20764  | 0.040         | 0.33223  |
|                   | 425 (No. 40)          | 0.047               | 0.83315  | 0.045                | 0.79769  | 0.064         | 1.13450  |
| Fine Sand         | 250 (No. 60)          | 0.103               | 3.31279  | 0.104                | 3.34495  | 0.116         | 3.73091  |
|                   | 150 (No. 100)         | 0.195               | 10.53156                                       | 0.203                | 10.96362                                       | 0.144         | 7.77715  |
|                   | 75 (No. 200)          | 0.209               | 20.95772                                       | 0.210                | 21.05799                                       | 0.159         | 15.94391                                       |
| Silt and Clay     | 32                    | 0.154               | 33.91812                                       | 0.128                | 28.19168                                       | 0.130         | 28.63218                                       |
|                   | 22                    | 0.042               | 16.30900                                       | 0.041                | 15.92069                                       | 0.036         | 13.97914                                       |
|                   | 13                    | 0.034               | 21.00602                                       | 0.033                | 20.38820                                       | 0.036         | 22.24167                                       |
|                   | 9                     | 0.017               | 16.16745                                       | 0.016                | 15.21642                                       | 0.022         | 20.92258                                       |
|                   | 7                     | 0.025               | 32.03264                                       | 0.024                | 30.75133                                       | 0.015         | 19.21958                                       |
|                   | 3.2                   | 0.025               | 56.48800                                       | 0.033                | 74.56415                                       | 0.029         | 65.52607                                       |
|                   | 1.3                   | 0.075               | 397.36021                                      | 0.065                | 344.37885                                      | 0.044         | 233.11799                                      |
| Estimated Maximum |                       | 1.00                | 609.248  | 1.00                 | 565.928  | 1.00          | 432.795  |
| Estimated Median  |                       |                     | 2.56E-04                                       |                      | 2.97E-04                                       |               | 5.08E-04                                       |
| Estimated Minimum |                       |                     | 1.10E-04                                       |                      | 1.27E-04                                       |               | 2.18E-04                                       |
|                   |                       | 2.3                 | 3.64E-05                                       | 4.8                  | 4.21E-05                                       | 12.8          | 7.20E-05                                       |
|                   |                       | 60.3                |  | 61.4                 |  | 56.0          |  |
|                   | % Si                  | 37.2                |  | 34.0                 |  | 31.2          |  |

Notes:

1. Kozeny-Carman Equation:  

$$k = [\Theta^3 / (1-\Theta)^2] * (1.99 \times 10^4) / \{ (\sum [f_i / (d_{li}^{0.404} \times d_{si}^{0.595})])^2 * SF^2 \}$$
 where  $\Theta$  = total porosity  
 $1.99 \times 10^4$  = constant incorporating unit weight and viscosity of water and the empirical Kozeny-Carman coefficient (1/cm-sec)  
 $f_i$  = fraction of particles retained on the smaller sieve of adjacent sieve pairs (dimensionless)  
 $d_{li}$  = diameter of larger sieve in pair (cm)  
 $d_{si}$  = diameter of smaller sieve in pair (cm)  
 SF = grain shape factor (dimensionless)
2. Frac retained = fraction (by weight) retained on screen
3. Estimated shape factors:
 

|         |      |
|---------|------|
| Rounded | 6.1  |
| Median  | 6.25 |
| Worn    | 6.4  |
4. Estimated porosities:
 

|         |      |
|---------|------|
| Maximum | 0.40 |
| Median  | 0.33 |
| Minimum | 0.25 |

**Table E-1**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Phase II Subsurface Investigation  
Bethel Junction Shopping Center, Port Orchard, Washington**

| Particle Type     | Screen Size (microns) | SB-13-3       |  |
|-------------------|-----------------------|---------------|--|
|                   |                       | Frac Retained | $f_i / (d_{li}^{0.404} \times d_{si}^{0.595})$ |
| Coarse Gravel     | 2"                    | 0.000         | —  |
|                   | 1½"                   | 0.000         | 0.00000  |
|                   | 1"                    | 0.000         | 0.00000  |
|                   | ¾"                    | 0.000         | 0.00000  |
| Fine Gravel       | ½"                    | 0.009         | 0.00602  |
|                   | ⅜"                    | 0.016         | 0.01495  |
|                   | 4,750 (No. 4)         | 0.023         | 0.03653  |
| Coarse Sand       | 2,000 (No. 10)        | 0.037         | 0.13023  |
| Medium Sand       | 850 (No. 20)          | 0.033         | 0.27409  |
|                   | 425 (No. 40)          | 0.064         | 1.13450  |
| Fine Sand         | 250 (No. 60)          | 0.130         | 4.18119  |
|                   | 150 (No. 100)         | 0.159         | 8.58727  |
|                   | 75 (No. 200)          | 0.167         | 16.74612                                       |
| Silt and Clay     | 32                    | 0.162         | 35.68010                                       |
|                   | 22                    | 0.040         | 15.53238                                       |
|                   | 13                    | 0.040         | 24.71297                                       |
|                   | 9                     | 0.016         | 15.21642                                       |
|                   | 7                     | 0.016         | 20.50089                                       |
|                   | 3.2                   | 0.032         | 72.30463                                       |
|                   | 1.3                   | 0.056         | 296.69562                                      |
| Estimated Maximum |                       | 1.00          | 511.754  |
| Estimated Median  |                       |               | 3.63E-04                                       |
| Estimated Minimum |                       |               | 1.56E-04                                       |
|                   |                       | 4.8           | 5.15E-05                                       |
|                   |                       | 59.0          |  |
|                   | % Si                  | 36.2          |  |