PBS | Engineering + Environmental

Initial Site Assessment Report

Stevens Road Tract
ECSI #4295 & #4296
Township 18 South, Range 12 East, Section 11
Bend, Oregon

Prepared for:
Oregon Department of State Lands
Salem, Oregon

Report Date: April 2009 / Revised August, 2009
Project #: 80416.000, Task 4

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1.0 EXECUTIVE SUMMARY

Note: The report should be read in its entirety (text and attachments) before decisions are made based on the summarized findings provided below. This executive summary is intended for use within the context of the entire associated report including all appropriate tables, figures, and analytical laboratory data. It should not be used solely to make land use or development related decisions regarding the subject site.

This Initial Site Assessment (ISA) Report was prepared by PBS Engineering + Environmental (PBS) for the Oregon Department of State Lands (DSL) under contract C10602-553. The ISA report summarizes the field activities conducted at the Stevens Road Tract (Tract) to complete the Scope of Work outlined in the DSL request for proposals (ORPIN Solicitation #141-1056-08).

The objective of the ISA was to assess the subsurface conditions of the Tract that had formerly been used as a disposal site for landfill and sewage debris. The assessment utilized surface geophysical, subsurface exploration, and gas vapor monitoring techniques to characterize the nature and extent of waste debris. The work was performed under an approved Health and Safety Plan (HASP) and was coordinated with DSL and the Deschutes County Solid Waste Department, who provided labor and equipment assistance with the project.

The magnetic and seismic surveys conducted by Northwest Geophysical Associates provided a good approximation of the lateral and vertical extent of the landfill debris. This was verified with the test pit explorations which encountered debris less than one foot below ground surface (bgs) to depths greater than 17 feet bgs. The landfilled material consisted mainly of household and building debris, and lesser amounts of automotive-related and ranching-related debris. Suspect asbestos-containing material (ACM) was observed in approximately 50 percent of the test pits at depths as shallow as 2.5 feet bgs. The sewage disposal areas reportedly used at the site could not be confirmed with the exploration performed in the ISA.

Soil samples collected from above and below landfill debris detected the following Contaminants of Potential Concern (COPC): total petroleum hydrocarbons (TPH), polnuclear aromatic hydrocarbons (PAHs), trace metals, and polychlorinated biphenyls (PCBs). No volatile organic compounds (VOCs) or organochlorine pesticides (OCPs) were detected in any of the samples. Bulk samples of various types of building materials identified asbestos containing material (ACM) in sheet floor coverings, cement asbestos board (CAB), felt paper insulation, air cell insulation, thermal board liner and roofing material.

Five gas vapor probes were installed within the landfill debris area and were monitored weekly for a period of four consecutive weeks. No significant measurable accumulations of methane were detected in any of the probes or at the entrances of the four ‘caves’ within the landfill debris area.

The development of the conceptual site model included residential, occupational, and recreational land uses given the likely future development of the site. Groundwater in the vicinity of the Tract is used for drinking water, but a private community water supply is currently available to the surrounding area. The most likely current and future potential exposure pathways are direct contact (ingestion, inhalation, dermal) with contaminants.

Considering these applicable exposure pathways, very few samples contain COPCs that exceed a long-term risk level. These are likely to be mitigated by removal of the debris, use of engineering controls or conditions placed on future development.

The presence of ACM in several tests pit locations is a long-term risk if the material is disturbed or reaches the surface where it can deteriorate and respirable particulates become airborne. The material was found at a shallow depth and is considered a potential direct exposure pathway. Additional measures will be required to insure this material is not disturbed. If removed, the material will need to be managed according to the requirements contained in Oregon Administrative Rule (OAR) 340-248-0005 through 340-248-0290.

2.0 INTRODUCTION

PBS has prepared this Initial Site Assessment (ISA) Report to summarize the field activities and findings of the assessment conducted for the Oregon Department of State Lands (DSL) on property known as the Stevens Road Tract (Tract) in Bend, Oregon. The ISA was conducted under DSL contract C10602-553 and followed the Scope of Work and Sample and Analysis Plan (SAP) as provided in DSL's request for proposals (ORPIN Solicitation #141-1056-08).

The ISA was conducted following the completion of a Phase 1 Environmental Site Assessment on the Stevens Road Tract (GeoEngineers, 2007) that identified a portion of the property was historically used as a landfill and sewage disposal site.

The ISA included a Geophysical study, an assessment of soils and asbestos containing materials (ACM), installation and monitoring of landfill gas vapors, and development of a conceptual site model, including a beneficial land and water use summary.

2.1 Site Description and Background

The Stevens Road Tract consists of an entire section of land, legally described as Section 11 of Township 18 South and Range 12 East of the Willamette Meridian (see Fig.1). The Tract includes two tax lots of record: Tax Lot 1812000001700 (the SW corner of the property at approximately 40 acres), and Tax Lot 181200001800 (the remaining 583 acres). The tract is a relatively flat parcel at an elevation of approximately 3700 feet above mean sea level (MSL). The tract is generally bounded by Stevens Road to the north, SE 27th Street to the west, the eastern extension of Ferguson Road (unimproved) to the south, and the southern extension of the north-south portion of Ward Road (unimproved) to the east (see Fig.2). Currently all but 12.5 acres of the tract are located outside of Bend's Urban Growth Boundary which runs along SE 27th Street and a portion of Stevens Road. Property west of the tract is primarily zoned for residential uses. Property to the north and east of the tract are primarily zoned for rural residential uses. Deschutes County owns property south of the tract and uses it for their public works facility and the humane society. The County's active solid waste facility (Knott Landfill) is located south of their public works facility. There are several easements through the tract, including an irrigation canal in the northwest corner, and a gas transmission line that traverses the tract in a NE-SW alignment.

The property consists of typical high desert vegetation, including bunch grasses, sagebrush, bitter brush, and scattered juniper and pine trees. Annual precipitation is approximately 12 inches. There are numerous 'caves' located on the property that represent partially collapsed lava tubes. The tract has remained largely undeveloped with the exception of its past use as a landfill and sewage disposal area. These areas of the site are believed to have been used in the 1960's and early 1970's before Knott Landfill began operation. These disposal areas were located in the southwestern portion of the tract and were known as the Arnold Disposal Site and Arnold Sewage Disposal Site. DEQ has assigned ECSI # 4295 and #4296, to the landfill and sewage disposal sites, respectively.

DSL took possession of the tract in the mid-1990's from the US Bureau of Land Management as the result of a lawsuit stemming from the statehood grant to provide public land for schools. The property is managed by the State Land Board (through DSL) to support the state's Common School Fund. DSL is planning to develop the property into a mixed use development and has completed a Master Plan for the property.

2.2 Geology and Groundwater Occurrence

The Stevens Road Tract lies within the High Lava Plains Geological Province (Orr et al, 1992), approximately 15 miles east of the crest of the Cascade Mountains. The terrain of this province is characterized by numerous volcanic features (i.e. buttes, cinder cones, lava flows) of a relatively young age. The origin of the tract's volcanic features is Newberry volcano located approximately 20 miles south of the tract. Multiple lava flows, air fall tephra, and debris flows estimated at less than 1 million years old (USGS, 2004) flowed across the broad north sloping terrain between Newberry volcano and the Deschutes River to the west, and the Crooked River to the north. Individual basalt flows vary significantly in thickness, from 10 to 100 feet thick (DOGAMI, 1976). Underlying the Newberry volcanic units are Tertiary volcanic and sedimentary deposits of the Deschutes Formation, consisting of lava flows interbedded with conglomerate, sandstone, and siltstone deposits. The Deschutes Formation is up to 2000 feet thick and serves as the principal aquifer unit in the Upper Deschutes Basin.

The tract is within the Sisters Fault Zone, a series of more than 50 mapped faults extending in a northwesterly direction from several miles southeast of the property to an area northeast of the town of Sisters (USGS, 2004). Although there are no mapped faults on the tract, there is a mapped fault just to the east of the tract's property boundary. The fault is expressed by adjacent land that is approximately 30 to 40 feet higher than the land to the west.

The Stevens Road Tract lies within the Upper Deschutes River Basin and groundwater occurs in aquifers comprised of a variety of volcanic rocks and sediments. However, fractured basalt, interflow zones and coarse-grained volcaniclastic sediments are usually the most productive units. The regional groundwater flow direction is to the north-northeast in the vicinity of the tract. Based on a review of adjacent water well logs and monitoring well logs from the nearby Knott Landfill, groundwater is encountered at depths greater than 600 feet. This saturated interval is presumed to be the regional groundwater aquifer which is estimated to lie at an elevation of approximately 3000 feet above MSL (USGS, 2001).

3.0 PURPOSE AND SCOPE

The purpose of the ISA is to assess the environmental impacts from the past activities on the site. The ISA focused primarily on the areas known or suspected to have been previously used for landfill and sewage disposal. In particular, the objectives of the ISA were to assess the following:

- Nature and extent of landfill debris and sewage disposal areas
- Soil impacts in close proximity to the landfill debris and sewage for hazardous constituents
- Landfill debris for the presence of asbestos-containing materials (ACM)
- Soil gas conditions in the landfill debris area

This ISA report summarizes the findings of the assessment and provides recommendations regarding the implications of the findings on the future management and development of the property as identified in the Stevens Road Tract conceptual master plan.

The scope of work for completing the ISA included the following:

- Develop a site-specific health and safety plan (HASP) to address potential field work exposures and safety issues with field excavation, drilling, and sampling equipment.
- Complete the necessary measures to obtain clearance to conduct excavations.
- Conduct a magnetic and seismic geophysical survey of the suspected landfill and sewage disposal areas.
- Excavate exploratory test pits to assess the nature and extent of the impacts, observe for the presence of ACM, and collect representative soil and suspect ACM samples for laboratory analysis.
- Install soil gas monitoring probes and collect weekly measurements from the probes for a period one month.
- Complete a beneficial land and water use assessment and develop a conceptual site model that takes into account the current and likely future uses of the tract
- Complete a report that summarizes the findings of the ISA and provide recommendations for further action, considering the management and future development of the tract.

4.0 FIELD METHODS AND ACTIVITIES

All field activities related to the assessment of landfill debris and sewage disposal areas were subject to the PBS HASP (November 2008). All PBS and sub-contracted personnel directly involved in the field work were made aware of potential health and safety issues during an on-site briefing. Field personnel were required to acknowledge (by signature) they had reviewed the HASP and they agreed to abide by the HASP's requirements. In general, all activities required the minimum use of Level D personal protective equipment (PPE), including steel-toed boots, disposable gloves, hard hat and safety glasses. A summary of the field activities and methods used to assess the landfill debris and sewage disposal areas is described below.

4.1 Geophysical Assessment

PBS retained Northwest Geophysical Associates (NGA) to conduct a geophysical assessment of the former landfill and sewage disposal areas. The assessment included mapping the limits of the former disposal areas using magnetic (MAG) and electromagnetic (EM) surveys on 50-foot spacing, and mapping the depth to bedrock, or the thickness of the debris using eight 200-foot long seismic refraction profiles (see Appendix A Photo 1). The field work was conducted between November 17 and 21, 2008 by two geophysicists from NGA. A summary of their investigation methods is presented in Appendix B.

4.2 Test Pit Exploration

Approximately 45 test pits were excavated at 30 locations between December 1st and 8th, 2008. The test pit exploration locations were chosen based on information gathered during the geophysical assessment, the use of historical aerial photographs, and details of a historical solid waste disposal permit, dated in 1972. The test pit locations are shown on Figure 3. In addition to the landfill and sewage disposal areas, two test pits were excavated in the northeast corner of the property beneath piles of disturbed rock and concrete (see Figure 4). All test pit locations were checked for buried utilities using a private locating service. The test pits were excavated using a combination of a backhoe and an excavator. The equipment used to complete the test pit exploration was provided by the DSL, while the equipment operator was an employee of the Deschutes County Solid Waste Department.

Test pits were excavated to a maximum depth of 15 feet or refusal as per the scope of work outlined in the DSL Request for Proposals, dated June 16, 2008. Test pit TP-9 was advanced to the maximum extent of the excavator, approximately 17 feet below ground surface (bgs) in an attempt to determine the full vertical extent of the landfill waste material (see Appendix A, Photo 2). During test pit excavation activities PBS field personal (Doann Hamilton, RG and Alex Fischer, EPA AHERA Asbestos Inspector) observed, documented, and collected sufficient samples of soil and waste material for field screening and laboratory analysis. Waste material was carefully placed back into each test pit and covered with existing surface soil. Large objects (i.e. appliances, tires) were excavated and collected by Deschutes County personnel to be recycled at the Knott Landfill facility (see Appendix A, Photo 3). A field log was also prepared for each test pit in accordance with ASTM D 2488-90, documenting the sample collection depth, final total depth bgs, and a description of encountered soils/materials. The test pit logs are included in Appendix C-1.

To assess the suspected sewage disposal area, a 50-foot trench was excavated in addition to the test pits in that area. The trench was excavated to the depth of the basalt

surface (3.5 to 4 feet bgs), and aligned perpendicular to the NNW-SSE orientation of the trenches reportedly used for sewage disposal (see Appendix A, Photo 4).

Ambient air in the vicinity of each test pit was monitored during the active excavation process for presence of hydrogen sulfide (H2S), oxygen content (O2), and amount of combustibles by measuring the percentage by volume of the lower explosive level (% LEL) using a BW Technologies, Multi-Gas Detector. Ambient organic vapors were monitored using the photo ionization detector (PID). The PID was calibrated each day using 100 parts per million (ppm) isobutylene and fresh air. The multi-gas detector was calibrated using 4-gas mixture of hydrogen sulfide at 25 ppm, iso-penane at 0.35% (25% LEL), carbon monoxide at 100 ppm, oxygen at 19%, and nitrogen balance. The ambient air monitoring records for each test pit location are included in Appendix D.

All test pits and trenches were surveyed by a Professional Land Surveyor with Harper Houf Peterson Righellis, Inc. (HHPR). Control points were established and locations were surveyed using a Topcon Hiper Lite Plus GPS unit with a horizontal accuracy of less than 1 foot. The locations are provided using both the Central Oregon Coordinate System and Latitude/Longitude (NAD83), and are provided in Appendix E.

4.2.1 Subsurface Soil Assessment

The subsurface soil assessment was conducted in accordance with the scope of work and included the following:

Soil samples were generally collected from a shallow interval (0 to 3 feet bgs) and from soil immediately below the observed landfill waste materials in each test pit. In cases where there was no waste material observed and basalt was encountered less than 4 feet bgs, a shallow sample was collected.

To collect the shallow samples, an excavator or backhoe removed the material to a depth of 3 to 4 feet bgs. The exposed surfaces were documented for the following: type of soil material, the depth landfill waste was encountered, and the type of waste. A soil sample was collected to represent the soil directly above the waste at a depth of at least one foot bgs. In some locations debris was encountered at less that one foot bgs, so the shallow soil samples collected in those locations may have been interspersed with debris (see Appendix A, Photo 5). Before collecting the sample, one-inch of the surface material on the exposed walls was removed using a small hand-tool (see Appendix A, Photo 6). Two four-ounce soil jars and one eight-ounce soil jar were filled along the horizontal distance using a small hand-tool or newly gloved hand. Samples at depths greater than 4.0 bgs were collected from a freshly exposed surface using the backhoe or excavator bucket. All sample jars were placed in a cooler chilled with ice to approximately 4 degrees C., and shipped under a signed chain of custody (COC) to Test America, Inc., in Beaverton, Oregon for analysis. A summary of the test pit explorations, materials encountered and sampling analyses is presented in Table 1.

The vertical extent of the landfill waste material was greater than the limits of the excavator (15-16 feet bgs) and, therefore, could not be determined at test pit locations TP-9, TP-26, and TP-27. . At those locations, no bottom soil samples were collected using the excavator. A bottom sample was collected on December

30, 2008, near TP-9 during the vapor point probe installation. The vapor point was installed 30 feet to the northeast of TP-9 using a track-mounted push probe rig operated by Boart Longyear, Ltd. of Tualatin, Oregon. Prior to the installation, a sample was obtained using a close-pin type sampler. The sampler was pushed to the target depth of 15 feet before the pin was removed and the sampler was driven and additional 5 feet. The sampler was retrieved, the plastic liner inside the sampler was removed, and opened for visual observation and soil sampling. Two four-ounce soil jars and one eight-ounce soil jar was filled with the material inside the sleeve, placed in a cooler with ice, and shipped under COC to Test America for analysis.

4.2.2 Soil Field Screening

Field screening tests were conducted on soil samples collected from each test pit/vapor probe location, and included the following: (A) visual examination, (B) sheen tests, and (C) headspace vapor screening using a RAE systems photo-ionization detector (PID).

Sheen tests were conducted on all soil samples collected from the test pits by placing a representative amount of soil in an 8-oz soil jar. Distilled water was added to the jar and allowed to mix with the sample for 10 minutes. The jar was observed for any type of visible sheen and documented on the field logs (see Appendix C-1).

Headspace vapor screening was conducted using a Mini-Rae PID with a moisture trap filter. The PID was calibrated each day using 100 parts per million (ppm) isobutylene and fresh air. A quart-size Ziploc plastic bag was partially filled with soil representative of the soil samples submitted to the laboratory. After the sample equilibrated, the PID was inserted into the bag and a reading from the digital screen was recorded on the field logs.

4.2.3 Asbestos-Containing Material Assessment

Alex Fischer, an EPA AHERA accredited asbestos inspector (Accreditation #IR-08-6857A) carefully observed the test pit exploration activities and collected 22 samples of suspect asbestos-containing material (ACM). All samples of suspect ACM were submitted under COC to Lab/Cor in Portland, OR (NVLAP # 200741-0) and analyzed using Polarized Light Microscopy (PLM) with dispersion staining. All field observations and suspect ACM sample locations were noted in the test pit logs (see Appendix C-1). In cases where suspect ACM material was encountered, that material was carefully placed back into the excavation prior to the other debris being placed on top as adequate cover. Once the excavation was backfilled, Mr. Fischer inspected the surface to insure that no visible suspect ACM was present. A summary of the types of suspect material encountered is presented in Table 3.

4.3 Landfill Gas Monitoring

The potential to have landfill gas generated by the buried waste was assessed by installing and monitoring vapor probes, as well as monitoring ambient air inside the entrances of caves that are located within the disposal area.

4.3.1 Vapor Probe Installation

Doann Hamilton, RG observed the installation of five vapor probes using a track-mounted push probe rig operated by Boart Longyear, Ltd. between December 30 and 31, 2008. Each vapor probe location was installed approximately 25 feet from the original test pit in order to insure installation occurred in an undisturbed section of waste material (see Figure 3 and Appendix A, Photo 7). Prior to drilling, each vapor probe location was checked for underground utilities by a private utility locating service. The total depth of each vapor point probe was estimated from the results observed in the nearest test pit.

The vapor point probes were installed by advancing a 3.25-inch casing to the approximate base of the landfill debris. After knocking out the drive point, a one-inch diameter, five-foot long section of Schedule 40 PVC with 10-slot screen, was placed inside the casing. In two of the locations (VP-2 and VP-4), 10 feet of screen was used to cover the full length of the landfill debris. A threaded five-foot solid PVC riser pipe was attached to complete the vapor probe to the surface. While the PVC pipe remained in the casing, 10-20 silica sand was emplaced around the screened section. The drill casing was slowly lifted while more sand was added, assuring solid placement of sand around the screen. The sand was place approximately one foot above the screen before adding three feet of a bentonite clay seal that was hydrated in-place.

The vapor probe completion consisted of attaching a PVC slip cap with stainless steel screws to the one-inch PVC riser pipe. A brass valve assembly was attached to this slip cap with a valve and a quarter-inch barbed sample port (see Appendix A, Photo 8). A 1.3-foot long section of four-inch PVC pipe was placed over the one-inch PVC pipe with the valve attached. Concrete was added at the base of the four-inch PVC and inside to cover the slip cap attaching the valve assembly to the one-inch PVC. An expandable locking cap was fitted to the four-inch PVC to secure the valve assembly. A twelve-inch Sherwood flush mounted monument was placed over the four-inch PVC and sealed in concrete. A green metal T-post was driven into the ground adjacent to the monument to readily identify each vapor probe's location. A geotechnical report was completed for each vapor probe and a log of each vapor probe's location was recorded by the PBS geologist (See Appendix C-2).

Ambient air monitoring was conducted during the installation of the vapor probes. No vapors or potentially explosive conditions were encountered during the drilling process. The air monitoring field forms for the vapor probe installation are in Appendix D.

The vapor probes were surveyed by a Professional Land Surveyor with HHPR. Control points were established and locations were surveyed using a Trimble GPS unit with a horizontal accuracy of less than 1 foot. The locations are provided using both the Central Oregon Coordinate System and Latitude/Longitude, and are provided in Appendix E.

4.3.2 Vapor Probe Monitoring

Monitoring of the vapor probes occurred weekly for one month, beginning the week after their completion. Readings were collected on January 8, 14, 22, and 27, 2009. An attempt was made to try and measure the gas concentrations of the vapor probes when falling barometric pressure was being observed (i.e. the onset of a low pressure system). The weather was periodically observed and documented by accessing the www.weatherunderground.com website, and using one of the available nearby weather stations (the Greenmont Dr. and Shirley Ct. stations), approximately 0.5 miles west of the DSL Tract. If a falling barometric pressure condition did not occur during the week, a stable pressure condition was used. A Landtec GEM 2000 landfill gas instrument, owned by the Deschutes County Solid Waste Department (DCSWD) was used to collect the measurements of methane (CH4), carbon dioxide (CO2) and oxygen (O2). Prior to each use, one of the DCSWD's engineering technicians would calibrate the instrument.

The vapor probes were monitored by first opening up the monument, unlocking the well cap and exposing the valve assembly inside. The valve assembly was left in the closed position in between each reading. With the valve in the closed position, a magnehelic differential pressure gauge was attached to the valve using quarter-inch flexible tubing. The valve on the assembly was open and closed long enough to record any positive or negative pressure changes from the vapor probe. With the valve closed, the magnehelic gauge was removed and the flexible tubing from the GEM 2000 was attached to the valve assembly. The valve was opened and the pump on the GEM 2000 was activated. Initial readings were observed and documented if different from the final readings (see Appendix A, Photo 9). To assure the final readings reflected the gasses from the bottom of the probe, the probe was purged for three minutes. These final values were recording on the field vapor monitoring form.

After three minutes, the pump was turned off and the valve shut before removing the tubing. The well was re-secured by placing the locking cap back on and bolting down the monument. The GEM 2000 was purged between probe measurements by turning on the pump after each reading and allowing fresh air to circulate. Once ambient air conditions were being recorded, the pump was turned off.

4.3.3 Cave Vapor Monitoring

Four caves within the vicinity of the vapor probes were monitored during the same monitoring event as the vapor probes: Three Pines Cave, Garbage Cave No. 1, Garbage Cave No. 2, and Davenport Cave (See Figure 3). To monitor the ambient air within the caves, the GEM 2000 was taken inside the caves. The monitor was placed on a rock within the cave, between five and fifteen feet from the cave entrance. The placement depended on the configuration of the cave opening, in order to get a representative sample from within the cave and avoid outside air influence. Once inside the cave, the GEM 2000 was allowed to operate for five minutes or more to assure enough volume was recorded to represent the open air space from within the cave. The values were recorded on the field vapor monitoring form.

5.0 FIELD AND LABORATORY FINDINGS

5.1 Geophysical Assessment

5.1.1 Magnetic and Electromagnetic Results

NGA used two criteria to identify areas of landfill debris using the magnetic data results: the ambient background levels of the magnetic field between 52,000 and 53,500 nanotesla (nT) and the vertical magnetic gradient between the two sensors of less than 150 nT. Areas where the magnetic response was outside these ranges were interpreted as landfill debris (see Appendix B, Figure A1).

NGA determined the apparent background conductivity of the ground at the site was between 5 and 8.5 milli-siemens/meter (mS/m) using the electromagnetic data. Areas with responses outside that range were considered to indicate the presence of a metallic conductor. Responses that deviated beyond the broader range of 4 to 12 mS/m were considered a 'Strong Magnetic Anomaly' (See Appendix B, Figure A2).

Areas interpreted as landfill debris in Appendix A, Figure 2, are well defined by the MAG and EM data and correlate well with areas of grassy, less developed vegetation. NGA relied more on the EM data and the vertical magnetic gradient to identify the landfill debris limits, due to the irregular and fractured near-surface volcanic rocks that do not have a strong gradient anomaly. A summary of NGA findings are provided in Appendix B.

5.1.2 Seismic Results

The seismic refraction data was processed by NGA to identify two layers: a surficial layer including landfill debris and unconsolidated material and a deeper layer, representing the top of the basalt. Refractor velocities for the second layer ranged from 2,000 to 3,200 ft/sec., typical for consolidated soil, and highly fractured or weathered rock. These relatively slow velocities can be difficult to differentiate from the scattered seismic signal through the landfill debris.

A test pit was located at the center line of each of the eight seismic lines (SL-1, -2, and SL-4 thru SL-9) to evaluate the accuracy of the seismic data interpretation. Four of the test pits encountered vesicular basalt and four encountered semi-consolidated volcanic sediment beneath the landfill debris. There was generally good correlation between actual test pit observations and the seismic refraction results, with all but one seismic line profile indicating the rock layer at the same depth or slightly deeper than the depth encountered in the test pits. Only one seismic line (SL-9) had a shallower second layer than the depth encountered in the corresponding test pit.

The maximum thickness of the first seismic layer (landfill and unconsolidated material) was estimated at 24 feet, located at the southeast end of SL-6. NGA's interpreted seismic profile for each line is presented in Appendix B, Figures 3-10.

5.2 Soil Assessment Findings

5.2.1 Soil and Landfill Waste Characterization

A summary of the soil and landfill waste material field observations is described below:

Ground Surface Conditions

In areas where a significant amount of landfill waste was encountered (generally greater than 5 feet thick), the ground surface conditions appeared to be disturbed, These disturbed areas are identified by a lack of established vegetation and often by an unnatural ground surface. The primary surface vegetation in these areas consisted of sparsely spaced grasses. The remaining areas of the site were covered with well established sage brush, bitterbrush and grasses. Scattered juniper and pine trees were also noted beyond the disturbed areas.

Surface Soil Material

In the areas where the landfill waste was encountered, the surface material consisted of up to 2 feet of loose, slightly damp to dry, brown silty sand, with rootlets extending approximately 0.5 foot bgs. In areas without landfill debris, similar sand material extended to the total depth of the excavation.

Landfill Debris

The depth of the landfill debris averaged approximately 10 feet bgs. The material was observed as shallow as ground surface and extended to depths greater than 17 feet bgs, where the full vertical extent of the debris was beyond the reach of the field sampling equipment. The debris observed was placed into four categories: general household, building-related, automotive-related, and ranch-related waste. Typical items found under each of these categories are listed below:

- Household: paper products, glass/plastic/aluminum/tin containers, washing machines (removed) and general waste;
- Building: dimensional wood, scrap metal, sheet flooring, compositional shingles, gypsum wallboard, and cement board;
- Automotive: tires (removed), metal and chrome body parts, and empty containers of automotive additives; and
- Ranch: barbed wire, metal and wooden fence post, empty veterinary medical bottles, metal tractor parts, and some large animal bones.

The materials encountered in each test pit are described in the test pit logs (see Appendix C-1 for details) and summarized in Table 1. The approximate extent of debris based on the geophysical and field exploration assessment conducted in this study is shown on Figure 3. These areas represent a total of approximately 20 acres and are bounded within a 35-acre portion of the Tract (see Figure 3).

Sewage Disposal Area

The suspected sewage disposal area southwest of the landfill debris area was not identified by the assessment activities conducted as part of the ISA. There was no evidence of trenches, non-native material or backfill material present in

the area identified in the previous documents. This area can be characterized as having an average shallow soil thickness of 3 to 4 feet (maximum of 6 feet in TP-11) before reaching bedrock, and only minor surficial debris. The debris observed at TP-12A appears to be an isolated disposal area with limited extent as confirmed with the nearby trenching.

Northeast Rock and Concrete Piles
Two test pits were excavated underneath the rock and concrete piles located in the northeast corner of the property. The test pits were excavated to basalt rock at 5 to 5.5 feet bgs. No buried debris was encountered in this area.

Underlying Material
Below the landfill debris, fractured vesicular or massive basalt was usually encountered. In some of the test pits, brown sand underlain by gray pumice was observed. Often the gray pumice was encountered prior to encountering the basalt bedrock. A summary of the material encountered at the base of each excavation is presented in Table 1.

5.2.2 Field Screening of Soil Samples and Ambient Air Monitoring

A summary of the field screening including headspace vapor, sheen tests, and ambient air monitoring is presented below:

Headspace screening for total volatile organic compounds (VOCs) using the PID resulted in seven detections out of the 58 headspace tests conducted. Detectable VOCs ranged from 0.1 to 1.7 parts per million (ppm). VOCs were detected in five samples (TP-3A-S2, -18A-S2, -20-S1, -20-S2, and -22A-S1) at the detection limit of 0.1 ppm. One sample (TP-14-S2) detected 0.3 ppm VOCs and one sample (TP-8-S2) detected 1.7 ppm. The headspace tests are summarized in Table 1.

No visible sheens were observed in any of the 58 sheen tests conducted.

Ambient air monitoring detected organic vapors in eight of the 30 test pit locations. The vapor concentrations ranged from 0.1 to 1.7 ppm in seven of the eight test pits with detections. These are considered very low levels. One test pit (TP-9) had sporadic PID measurements up to 6.3 ppm. These levels were not considered a health concern for workers, as they did not persist for one minute in the breathing zone above any action level threshold contained in the HASP. Oxygen levels remained consistent throughout all test pit locations at 20.9 percent. Hydrogen Sulfide was not detected at any of the test pit locations. The combustible gas indicator provides the lower explosive limit reading as a percentage in volume (percent of the LEL or %LEL) assuming a methane environment. Low combustible gas ranges were detected in seven test pit locations and ranged from 1%LEL to 6%LEL. These values are below the LEL action level of 10% indicated in the HASP. A summary of the air monitoring is presented in Appendix D and summarized on Table 1.

5.2.3 Soil Laboratory Analysis

At all locations where a sample was collected from soil underlying the waste material (labeled S-2), the sample was analyzed for total petroleum

hydrocarbons (TPH) and metals. Selected shallow samples (S-1 samples) were also analyzed for TPH and metals. If TPH was detected, quantification was conducted using Method Northwest TPH. Selected samples were analyzed for polynuclear aromatic hydrocarbons (PAH) if significant levels of TPH were detected in the sample or if petroleum-related items were observed in the test pit. Samples were analyzed for polychlorinated biphenyls (PCB), total organic carbon (TOC), volatile organic compounds (VOC), and organochlorine pesticides (OCP) based on the characteristics and thickness of waste material encountered in the test pit. Consideration was also given for the test pit location in an attempt to obtain data from spatially diverse areas of the waste disposal area. A summary of the analytical results is presented below by potential contaminant type and summarized in Table 2. The complete laboratory analytical reports are provided in Appendix F-1.

Total Petroleum Hydrocarbons (TPH)
Forty-three of the 58 soil samples collected were analyzed for TPH analysis using NWTPH-HCID. Nine of the 43 samples had detectable concentrations of diesel and/or heavy oil range hydrocarbons (TP-1A/S-1, TP-1A/S-2, TP-2/S-1, TP-3/S-1, TP-7A/S-1, TP-8/S-2, TP-9/S-1, TP-14/S-2, and TP20/S-2.). No gasoline-range hydrocarbons were detected.

These nine samples were further analyzed to quantify the concentrations using Method NWTPH-Dx for diesel and heavy oil-range hydrocarbons. The concentration of TPH as diesel-range hydrocarbons ranged from 13.7 mg/kg (TP-9/S-1) to 186 mg/kg (TP-14/S-2). The concentration for lube oil-range hydrocarbons (C24-C40) ranged from 45.8 mg/kg (TP-7A/S-1) to 1,090 mg/kg (TP-2/S-1).

Trace Metals
Forty-three of the 58 soil samples collected were analyzed for total trace metals using EPA Priority Pollutant Metals (13) series by EPA Method 6010B and EPA Method 7471A (for mercury). The analytes include antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc.

Five of the Priority Pollutant Metals were detected in all 43 samples:

Chromium was detected in all 43 samples above the Method of Reporting Limit (MRL) ranging from 4.57 mg/kg (TP-7A/S-2) to 30.1 mg/kg (TP-1A/S-2). Copper was detected in all 43 samples above the MRL ranging from 9.04 mg/kg (TP-7A/S-1) to 53.5 mg/kg (TP-2/S-1). Lead was detected in all 43 samples above the MRL ranging from 0.946 mg/kg (VP-2/S-2) to 74.4 mg/kg (TP-9/S-1). Nickel was detected in all 43 samples above the MRL ranging from 17.5 mg/kg (TP-6/S-2) to 78.4 mg/kg (VP-2/S-2). Zinc was detected in all 43 samples above the MRL ranging from 15.0 mg/kg (TP-7A/S-2) to 766 mg/kg (TP-1A/S-2).

Arsenic was detected in 39 of the 43 samples above the MRL ranging from 0.607 mg/kg (TP-2/S-2) to 3.22 mg/kg (TP-5/S-1).

Cadmium was detected in two samples above the MRL: TP-9/S-1 at 0.936 mg/kg and TP-14/S-2 at 1.08 mg/kg.

Mercury was detected in two samples above the MRL: TP-9/S-1 at 0.0948 mg/kg and TP-23/S-2 at 0.361 mg/kg.

Antimony was detected in one sample above the MRL, TP-9/S-1 at 1.20 mg/kg.

Four metals (beryllium, selenium, silver, and thallium) were not detected at or above the MRL in any of the 43 samples.

Polynuclear Aromatic Compounds (PAH)
Twelve samples were submitted for analysis of PAH by EPA Method 8270M-SIM. Two samples contained detectable PAH compounds:

TP-2/S-1 contained three detectable PAH compounds at the following concentrations: 0.0222 mg/kg fluoranthene, 0.0184 mg/kg phenanthrene, and 0.0163 mg/kg pyrene.

TP-20/S-2 detected 14 of 15 PAH analytes above the MRL: 0.0245 mg/kg acenaphthene, 0.0718 mg/kg anthracene, 0.139 mg/kg benzo (a) anthrancene, 0.111 mg/kg benzo (a) pyrene, 0.108 mg/kg benzo (b) flurorantene, 0.0626 mg/kg benzo (ghi) perylene, 0.106 mg/kg benzo (k) fluoranthene, 0.140 mg/kg chrysene, 0.0196 mg/kg dibenzo (a,h) anthracene, 0.348 mg/kg fluoranthene, 0.0241 mg/kg fluorene, 0.0631 mg/kg indeno (1,2,3-cd) pyrene, 0.256 mg/kg phenanthrene, and 0.240 mg/kg pyrene. Naphthalene was not detected in sample TP-20/S-2.

The remaining ten samples (TP-2/S-2, TP-3A/S-2, TP-8/S-2, VP-2/S-2, TP-12A/S2, TP-14/S-2, TP-18A/S-2, TP-21/S-2, TP-22A/S-2, and TP-24/S-2) contained no detectable PAH compounds.

Polychlorinated Biphenyls (PCB)
Ten samples were submitted for PCB analysis by EPA Method 8082 (TP-2/S-2, TP-3A/S-2, TP-8/S-2, VP-2/S-2, TP-12A/S2, TP-14/S-2, TP-18A/S-2, TP-20/S-2, TP-21/S-2, and TP-24/S-2). Only two of the seven PCB aroclors were detected above the MRL in three of the samples: Aroclor 1248 in one sample TP-8/S-2 at 0.171 mg/kg) and Aroclor 1254 in two samples (TP-14/S-2 and TP-20/S-2 at 2.710 mg/kg and 0.0536 mg/kg, respectively). The seven remaining samples contained no detectable PCB arochlors.

Total Organic Carbon (TOC)
Nine samples were submitted for TOC analysis by EPA Method 415.1 (TP-2/S-2, TP-8/S-2, VP-2/S-2, TP-12A/S2, TP-14/S-2, TP-18A/S-2, TP-20/S-2, TP-21/S-2, and TP-24/S-2). Three of these samples had detections above the MRL: TP-8/S-2 at 16,000 mg/kg, TP-14/S-2 at 18,000 mg/kg, and TP-20/S-2 at 9,900 mg/kg. The remaining six samples contained no detectable TOC.

Volatile Organic Compounds (VOC)
Eleven samples were submitted for VOC analysis by EPA Method 8260B with 65 analytes (TP-2/S-2, TP-3A/S-2, TP-8/S-2, VP-2/S-2, TP-12A/S2, TP-14/S-2, TP-18A/S-2, TP-20/S-2, TP-21/S-2, TP-22A/S-2, and TP-24/S-2). None of the samples contained any detectable concentrations of VOC analytes at or above their respective MRLs.

Organochlorine Pesticides (OCP)
Five samples were submitted for OCP analysis by EPA Method 8081A with 22 analytes (TP-2/S-2, TP-3A/S-2, TP-18A/S-2, TP-20/S-2, and TP-22A/S-2). None of the samples contained any detectable OCP compounds at or above their respective MRLs.

5.3 Asbestos Assessment Findings

Significant amounts of suspect asbestos-containing sheet floor coverings and cement asbestos board (CAB) products were identified during the test pit exploration activities. Minor amounts of asbestos-containing felt like paper/insulation, Air Cell-type pipe insulation, thermal insulation board/liner, and roofing materials were also observed. Fourteen of the 22 bulk samples contained greater than one percent asbestos, the regulatory threshold for ACM. This material is subject to the requirements contained in Oregon Administrative Rule (OAR) 340, Division 248, 0005- 0290.

Most of the ACM was encountered at depths greater than 3 feet bgs. Materials containing asbestos were found as shallow as 2.5 feet bgs. A discussion of the suspect ACM sampling analyses is presented below. A summary of the asbestos laboratory analysis is presented in Table 3 and the complete laboratory report is in Appendix F-2.

5.3.1 Asbestos Material Laboratory Analysis:

The following materials tested either positive, or, based on the experience of PBS field personnel, were not tested and should be considered asbestos-containing. Materials of a similar nature or type that were not sampled may contain asbestos and should be tested to verify asbestos content prior to handling, transportation or impact.

Sheet floor coverings sampled in TP-1A, -4A, -8, -9, and -21 tested positive for asbestos at a range of 4% to 45% chrysotile (see Appendix A, Photo 10). The sheet floor coverings were observed at approximately 6, 6.5, 5.3, 15.5, and 3.3 feet bgs, respectively. The above-mentioned asbestos-containing sheet floor coverings are all considered friable in their current condition. Similar sheet flooring materials were observed; however they were not sampled in TP-5, -6, and -19. All sheet floor coverings should be presumed to contain asbestos until further testing is conducted.

Rigid, cementitious fragments known as cement asbestos board (CAB) sampled in TP-12A, -16, -17, and -18A tested positive for asbestos at a range of 10% to 12% chrysotile (see Appendix A, Photo 11). The CAB fragments were observed at approximately 2.5, 3.3, 2.7, and 4.3 feet bgs, respectively. The above-mentioned CAB fragments have historically been used in numerous applications including interior/exterior siding, roofing, heat shields, conduit, and various other assorted uses. CAB is typically not a friable material, however, it can be

rendered friable when impacted. Similar CAB products were observed, however not sampled in TP-20 and scattered throughout the ground surface in the vicinity of TP-11, and -12A and are presumed to contain asbestos.

Grey, fibrous felt-like paper/insulation sampled in TP-9 and -17 tested positive for asbestos at a range of 50% to 55% chrysotile. The felt-like paper/insulation was observed at approximately 16.3 and 5.7 feet bgs, respectively. The felt paper/insulation was observed to be severely degraded and is considered a fully regulated friable material.

Grey, fibrous corrugated heavy paper (Air Cell-type) pipe insulation sampled in TP-17 tested positive for asbestos at 40% chrysotile (see Appendix A, Photo 12). The Air Cell was observed at approximately 6 feet bgs, appeared severely degraded, and is considered a fully regulated friable material.

Grey, compressed thermal insulating board/liner sampled in TP-18 tested positive for asbestos at 65% chrysotile. The thermal insulating board/paper was observed at approximately 3.3 feet bgs; appeared severely degraded and is considered a fully regulated friable material.

A partially burned brownish/red ridged roofing material sampled in TP-12A tested positive for asbestos at 25% chrysotile. The roofing material was observed at approximately 2.5 feet bgs; appeared severely degrade and is considered a friable material in its current condition.

A summary of the asbestos bulk samples collected and analytical results is presented in Table 3 of this report. A summary of the materials that tested positive for asbestos is presented in Table 4. The complete laboratory analysis report is presented in Appendix F-2.

5.3.2 Materials That Tested Negative for Asbestos:

The following materials tested negative for asbestos based on analysis by an NVLAP-participating laboratory: miscellaneous wall covering from TP-1A, built-up roofing from TP-3A, composition shingles from TP-8, -9, and -26, sheet floor covering from TP-9, and gypsum board from TP-18A and -9. Although no asbestos was detected in these samples, it's possible that further sampling of similar materials could indicate asbestos content. These sample materials are summarized in Table 3 and the laboratory analyses are presented in Appendix F-2.

5.4 Landfill Gas Assessment

Monitoring of Landfill Gas occurred at the five vapor probe locations and inside the entrances to the four caves that are within the landfill disposal area. Each of the locations was monitored approximately once a week for the month of January. PBS attempted to monitor the locations during time when barometric pressure (BP) was falling to create a pressure differential. There were minimal pressure changes during the monitoring periods as documented by monitoring the nearby weather stations and using gauges in the field. The BP rose by 0.03 inches of Mercury (in HG) during the first two monitoring events. The BP was steady during the third event and fell by 0.02 inches

during the fourth event. These small changes in BP are considered relatively steady conditions.

Three gases were monitored: methane, carbon dioxide, and oxygen. Methane gas was only detected during the fourth monitoring event in two vapor probes (VP-2 and VP-4) at 0.1 percent. Carbon dioxide was present in four of the five vapor probes ranging from 5.8 percent (average at VP-1) to 17.2 percent (average at VP-4). Oxygen was depleted in the same four vapor probes, ranging from 4.6 percent (at VP-2 and VP-4) to 15 percent at VP-1. Vapor probe VP-5 and the four cave entrances did not have any significant carbon dioxide and oxygen was not depleted. A summary of the vapor probe monitoring is presented in Table 5.

It would be expected that the cave entrances would be similar to ambient surface conditions. However, the monitoring at VP-5 suggests that the screened interval of this probe is connected to atmospheric conditions, likely due to artificial short-circuiting. This could be caused by large voids in the buried debris or by rodent holes in the vicinity of the vapor probe. It should be noted that during the installation of this probe a significant amount of sand was needed to fill the borehole surrounding the screened section of the casing, suggesting subsurface void spaces are present at this location.

6.0 CONCEPTUAL SITE MODEL

A Conceptual Site Model (CSM) was developed to identify potential exposure pathways between impacted media and potential receptors in the vicinity of the site. The CSM considers the current and future uses of the land and water, as well as the physical setting and properties of the contaminants of concern.

6.1 Beneficial Land Use

The City of Bend's Urban Area Zoning Map (December 2006) and the Deschutes County on-line land use application were reviewed to determine the current zoning of the Steven's Road Tract and surrounding properties. The Tract is currently zoned Exclusive Farm Use (EFU) with the exception of the northwest corner of the property (north of Stevens Road) which is within the Bend Urban Growth Boundary (UGB) and zoned for standard density residential (RS) uses. Property west of the Tract is zoned for low density residential uses within the UGB. Land south of the Tract is zoned for public facilities (Deschutes County Public Works and Human Society) and EFU land east of the public facilities land. Property east and north of the Tract consists largely of two zoning types: EFU and 10 acre-minimum multiple use agricultural (MUA). The only exception is RS zoned land north of the northwest corner of the Tract that is currently in the UGB and RS zoning designation.

The DSL has completed a conceptual master plan of the Stevens Road Tract for future uses of the property including residential, industrial, commercial, public facilities and open space. Since the Tract is adjacent to Bend's current UGB and a significant amount of the surrounding land is used for residential purposes, it is likely that the Tract's future development will include residential land use. The conceptual master plan indicates that the Tract will be developed for a multiple of uses, including various densities of residential use, occupational uses and recreational uses.

6.2 Beneficial Water Use

Water use in the vicinity of the Tract was determined by reviewing the Oregon Water Resources Department's on-line database for water supply wells. The eight one-square mile sections surrounding Section 11 were searched for well reports. A total of 43 well records were in the data base, including wells that had been altered, deepened or abandoned. Upon further review of the well log reports, several well logs were mis-located based on other information in the well report. A total of 21 wells were identified as being within the nine square miles centered on the Tract. No wells are documented on the Tract. The wells are primarily used for domestic purposes, although 3 wells are owned by Avion Water Company (Avion) for community water supply. Twenty of the 21 wells indicate static water levels ranging from 507 to 845 feet below ground surface. One well reported a static water level of 102 feet. PBS located the well in the field and determined the following: the well is adjacent to a former irrigation canal lateral; the well is currently not in use; and the residence is connected to a community water supply. This relatively shallow well is likely obtaining water from a perched water bearing zone caused by unlined irrigation canal leakage and does not represent the regional aquifer.

The majority of the wells in the area of the Tract were installed in the 1970's and 1980's; no private domestic wells have been installed in the area for the last 8 years. The Tract and the surrounding area is currently included in Avion's service area. Many of the existing wells were likely installed prior to the expansion of Avion's service area to rural residential properties in the area. Given the significant depth, and therefore cost to obtain groundwater, it is reasonably likely that residential water use will be provided by a community water supply. The beneficial use of the deep (greater than 500 feet) groundwater in the vicinity of the Tract is drinking water, however it is reasonably likely that future drinking water needs will be provided by a community water supplier.

The Central Oregon Irrigation (COI) Canal is the only surface water body in close proximity to the site. The COI Canal traverses in a northeasterly direction through the northwest corner of the Tract, within the portion of the property currently zoned RS. The water is diverted from the Deschutes River for approximately 6 months of the year for agricultural users who have water rights. Most of the users are located north-northeast of the Tract where more developed soils allow for growing crops and operating ranches. The water is not intended for drinking water without treatment.

6.3 Contaminants of Potential Concern

The laboratory analytical results presented in Section 5.2.3 of this report detected the following contaminants of potential concern (COPC): ACM, several trace metals, heavy oil and diesel-range TPH, PCB) and PAH. All of these materials and compounds are non-volatile, relatively immobile, have very low water solubility and tend to sorb strongly to the organic matter in soil.

6.4 Locality of Facility

The Locality of Facility (LOF) for a particular medium includes both the spatial extent of hazardous substances and the projected future extent, if chemicals are expected to migrate. Since the waste material appears to be stable and does not appear to have migrated since it was disposed of and buried over 30 years ago, it is reasonable to assume that the approximate area bounded by the extent of the landfill and sewage

debris would be a good approximation of the LOF. Based on the findings of the ISA, the LOF would be the area bounded by the disturbed areas as shown in Figure 3.

6.5 Current and Likely Future Receptors

Based on the current use of the property, recreational users and transients have been observed traversing the property within the LOF. These users could come into direct contact with buried waste material if it was exposed at the surface. Based on the conceptual master plan for the site, future users could include residential, occupational and construction/excavation workers. Recreational and transients tend not to spend much time in the same place so their exposure to contaminants would be considerably less than to permanent residents or occupational workers. Since there is not an approved recreational use and, therefore, no readily available recreational user receptor scenario, it was assumed that the occupational scenario (8 hrs./day, 250 days/yr., 25 years) would be a very conservative estimate of a recreational or transient user.

6.6 Exposure Assessment

Exposure to contaminants can be achieved through a number of exposure pathways. At this site, the most likely exposure pathway would be direct contact with the soil and waste material. This would include incidental ingestion, inhalation or dermal contact of the impacted media. Ingestion or inhalation of contaminated groundwater is unlikely due to the immobile nature of the COPC, the significant depth to groundwater, and the very low water solubility of the COPC. Furthermore, the condition of the waste material suggests that very little leaching or degradation of the buried material has occurred since it was buried more than 30 years ago. Inhalation of vapors from volatilization of contaminants present in the soil is also unlikely due to the nature of the COPC. It should be noted that nuisance odors may be present as the buried waste material is uncovered, however the visual observations and air monitoring of the ISA did not indicate that those odors would be hazardous. The primary exposure pathway for ACM is through inhalation of asbestos fibers made airborne by disturbing. The presence of ACM in the landfill debris at depths greater than 2.5 feet bgs could pose an inhalation hazard if those materials were friable, exposed at the surface, and/or disturbed.

6.7 Summary of Potential Exposure Pathways

The results of the evaluation of potential exposure pathways and receptor scenarios identified the following complete pathways:

- Direct contact (ingestion, inhalation, dermal) with soils with COPCs for current recreational users of the property
- Direct contact with soils for future residential and occupational receptors. These more conservative scenarios would include future construction/excavation worker scenarios.

A summary of potential exposure pathways considered by the CSM is presented below.

Pathway	Potential Receptor	Exposure Potential		Comments
		Current Use	Future Use	
Direct contact (ingestion, dermal,	Residential Occupational Recreational	No No Yes	Yes Yes Yes	Includes Construction/Excavation Worker

inhalation				
Volatilization of Soil to Outdoor Air	Residential Occupational Recreational	No	No	Non-volatile COPC detected
Vapor Intrusion to Indoor Air	Residential Occupational	No	No	Non-volatile COPC detected
Leaching of Soil to Groundwater	None	No	No	Property likely to use community water supply, depth to groundwater, immobile COPCs make leaching unlikely
Vapor Intrusion, Volatilization of Groundwater into air	None	No	No	Depth to groundwater, immobile COPCs make leaching unlikely
Ingestion, inhalation from tapwater	None	No	No	Property likely to use community water supply, depth to groundwater, immobile COPCs make leaching unlikely
Groundwater in Excavation	Excavation Worker	No	No	Depth to Groundwater

7.0 RISKED-BASED EVALUATION

A risk-based evaluation of the COPC detected in soil was conducted using the DEQ Risk-Based Concentrations for Individual Chemicals (RBCs, DEQ, 2008), derived from the DEQ Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites (September, 2003). In addition to the DEQ screening values, DEQ also utilizes the EPA Regional Screening Levels (SLs, EPA, 2008) to evaluate compounds that DEQ does not include in the RBCs. The applicable RBCs or SLs for the completed exposure pathways were utilized to compare to the laboratory analytical results. The exposure pathways were utilized to evaluate the results: DEQ RBC direct contact soil pathway for residential, urban residential and occupational scenarios; and EPA SL direct contact pathway for residential and industrial scenarios. In general, the DEQ RBC was used except in cases where there was no RBC for a particular compound.

7.1 Constituents of Potential Concern

The COPC identified during the ISA include the following:

- Diesel-range and heavy oil-range Total Petroleum Hydrocarbons (TPH)
- Trace metals
- Polynuclear aromatic hydrocarbons (PAH)
- Polychlorinated biphenyls (PCB)
- Asbestos containing materials (ACM)

7.1.1 Diesel and Heavy Oil Range TPH

The diesel-range TPH detected in nine of the 43 samples ranged up to 281 mg/kg. These detections were identified by the laboratory as being caused by biogenic interference or as overlap from the heavy oil-range TPH. All of the diesel-range detections are significantly below the DEQ direct contact soil RBC for residential and occupational scenarios. The heavy-oil range detections in the same nine samples with diesel-TPH detections ranged up to 1,090 mg/kg (see Table 3). Although there is not a generic RBC for heavy oil-range TPH, it is

anticipated that the detected concentrations would not pose an unacceptable risk due to the lack of associated constituents (i.e. no VOCs) or relatively insignificant levels of metals and PAHs (see below for further discussion of these constituents).

7.1.2 Total Trace Metals

Nine of the 13 total trace metals have associated RBC values: arsenic, beryllium, cadmium, chromium, copper, lead, mercury and silver. All of these compounds except for arsenic were detected at concentrations below the residential (most stringent) RBC or were not detected at or above the MRL (beryllium and silver) in any of the samples. All of the MRLs were below their respective RBC. Cadmium was detected in two samples (up to 1.08 mg/kg) at levels below the RBC of 39 mg/kg. Chromium was detected in all 43 samples (up to 30.1 mg/kg) at levels below the RBC of 32 and the SL of 280 mg/kg. Copper was detected in all 43 samples (up to 53.5 mg/kg) at levels below the RBC of 2,900 mg/kg. Lead was detected in all 43 samples (up to 74.4 mg/kg) at levels below the RBC of 400 mg/kg. Mercury was detected in one sample (0.36 mg/kg) below the RBC of 23 mg/kg. Nickel was detected in all 43 samples (up to 78.4 mg/kg) at levels below the RBC of 1,600 mg/kg (see Table 3).

Arsenic levels ranged from less than 0.55 mg/kg to 3.22 mg/kg, with 36 of the samples containing less arsenic than the occupational RBC (1.7 mg/kg). Seventeen samples have concentrations below the urban residential RBC (1.0 mg/kg). Arsenic has a relatively low RBC for a trace metal due to its toxicity. However, arsenic occurs naturally in volcaniclastic material and soils. As such, it can be detected in its naturally occurring state in “nonimpacted” soil at concentrations above the RBC. All of the detected concentrations are below the generic default background concentration for arsenic of 7 mg/kg for soils in Oregon (DEQ, 2002).

The four remaining trace metals (antimony, selenium, thallium and zinc) were compared to the EPA SL. Selenium and thallium were not detected in any of the samples and the MRLs were well below the residential (most stringent) SL. Antimony was detected in one sample (1.2 mg/kg) below the residential SL of 31 mg/kg. Zinc was detected in all samples up to 766 mg/kg which is significantly below the residential SL of 23,000 mg/kg (see Table 3).

7.1.3 PAH

Two of the twelve samples analyzed for the 15 PAH compounds had detections greater than the MRLs. Only sample (TP-20/S-2) contained concentrations of PAH exceeding the RBC for two of the individual PAH compounds. Benzo (a) pyrene (BaP) was detected at 0.111 mg/kg which is above the urban residential RBC (0.031 mg/kg) and less than the occupational RBC (2.7 mg/kg). Dibenzo (a,h) anthracene was detected at 0.0196 mg/kg, slightly greater than the residential RBC of (0.015 mg/kg) but less than the urban residential RBC of (0.031 mg/kg).

A PAH toxic equivalency quotient (TEQ) was calculated using the results from sample TP-20/S-2 to evaluate the total risk posed by all eight of the carcinogenic PAH compounds. The TEQ compares the relative potency of each carcinogenic

PAH compound to BaP using a weighted average of toxic equivalency factors (TEF) recommended by DEQ. The TEQ for TP-20/S-2 was 0.162 mg/kg. The TEQ considers the risk from multiple compounds and the acceptable risk value for multiple carcinogens is 10 times the individual risk of one in a million. Therefore, the TEQ is slightly above the residential RBC for BaP for multiple compounds of 0.15 mg/kg and below the urban residential RBC of 0.31 mg/kg (see Table 3).

7.1.4 PCB

Three of the ten samples analyzed for the 7 common PCB congeners contained concentrations greater than the MRLs. Each of the three samples detected only one PCB congener; two samples detected Aroclor 1254 and one sample detected Aroclor 1248. Only sample TP-14/S-2 contained a PCB congener (Aroclor 1254 at 2.71 mg/kg) that exceeded the residential RBC of 0.22 mg/kg. This sample also exceeds the rural residential RBC (0.6 mg/kg) and the occupational RBC (0.98 mg/kg).

7.1.5 Asbestos Containing Material (ACM)

Fourteen of the 22 samples of suspected ACM contained chrysotile asbestos in excess of 1 percent. The material was found at depths of 2.5 feet bgs or greater. Although asbestos is not specifically addressed by the DEQ RBCs or EPA SLs, the presence of ACM disposed of and buried in this manner poses long-term risks to the inhalation exposure scenarios considered for the other hazardous substances at the site. Inhalation of any friable asbestos fibers can pose a significant risk to human health. Any surface exposure or disturbance of ACM could expose workers, residents or visitors to the site to unacceptable long-term cancer risk.

7.1.6 Miscellaneous Solid Waste

Although general municipal solid waste does not present a quantifiable risk, there are potential physical hazards and nuisance issues with buried waste. Within the approximate extent of debris boundary (Figure 3), the physical hazards include buried sharp objects (i.e. metal, glass), and uneven surfaces which can cause slip, trip and fall injuries. The buried waste can produce nuisance odors which can be considered offensive. It is also possible that buried solid waste can create methane gas which is considered a hazardous substance in Oregon. Methane was not detected in the gas vapor probes during the initial monitoring period.

8.0 CONCLUSIONS

PBS completed the ISA of the Stevens Road Tract (Tract) for the Oregon DSL to assess the subsurface conditions of the Tract that had formerly been used as a disposal site for landfill and sewage debris. The ISA included a geophysical assessment, test pit explorations to assess the nature of the buried waste, and the installation of vapor probes to assess whether the buried material is generating landfill gas. The ISA also included developing a CSM for the Tract, including providing beneficial land and water use determinations, and evaluating potential receptors and exposure pathways. The CSM was then used to evaluate the soil analytical results with risk-based screening levels developed by DEQ and EPA for the potentially applicable exposure pathways.

The following conclusions can be made based on the ISA:

The results of the geophysical assessment techniques used by NGA to identify the lateral extent of buried debris were very consistent with the findings of the test pit explorations; the electromagnetic data provided slightly more reliable results. The seismic refraction profiles also correlated well with the test pit data, with only one of the eight profiles not corresponding with the test pit data.

Approximately 45 test pits were excavated at 30 locations to characterize the buried debris and confirm the lateral and vertical estimates provided by the geophysical assessment techniques. The debris consisted mainly of household and building debris, with lesser amounts of automotive-related and ranching-related debris extending to various depths of up to (at least) 17 feet bgs. There was little evidence of industrial waste in the tests pits. Suspect ACM was observed in approximately 50 percent of the test pits at depths as a shallow as 2.5 feet. Field screening of soils and ambient air monitoring during the excavations did not detect any significant off-gassing vapors.

The suspected sewage disposal area southwest of the landfill debris area could not be confirmed with the assessment activities conducted as part of the ISA.

Soil samples collected from above and below landfill debris detected the following COPC: TPH, PAH, trace metals, and PCB. No VOC or OCP analytes were detected in any of the samples. Bulk samples of various types of building materials identified ACM in sheet floor coverings, CAB, felt paper insulation, air cell insulation, thermal board liner and roofing material.

Five gas vapor probes were installed within the landfill debris area and were monitored weekly for four consecutive weeks. No significant levels of methane were detected in any of the probes or at the entrances of the four ‘caves’ that are within the landfill debris area. Reducing conditions were present in four of the five vapor probes as indicated by low oxygen levels.

The development of the CSM for the site included assumptions that residential, occupational, and recreational land uses were likely in the future. Groundwater in the vicinity of the Tract is used for drinking water, but there is a private community domestic water supply available to the Tract and surrounding properties. The significant depth to groundwater (with associated high well costs) and the available alternate public supply suggests it is unlikely that individuals in the area will obtain drinking water from private wells. Furthermore, the condition of the waste material suggests that very little leaching or degradation of the buried material has occurred since it was buried more than 30 years ago. Therefore, the most likely current and future

potential exposure pathways are direct contact (ingestion, inhalation, dermal) with contaminants in soil.

Considering the potentially applicable exposure pathway of direct contact (ingestion, inhalation, dermal) with soils with COPCs for future residential and occupational receptors, the only COPC that exceeded long-term risk levels were arsenic, one sample containing one PCB Aroclor, and one sample containing a PAH compound. Arsenic levels detected at the site exceed long-term risk levels but may be within background concentrations due to a naturally occurring source. Some of the elevated arsenic levels may be related to the waste debris or imported fill soil placed at the site. The PCB and PAH exceedances were found in samples collected at the base of the debris in contact with basalt rock and may not be representative of soil beneath the debris. In addition, the depths where these two samples were collected preclude direct exposure scenarios. Removal of waste debris could mitigate the potential risk associated with these exceedances.

The presence of ACM in several tests pit locations is a long-term risk if the material is disturbed or reaches the surface where it can deteriorate and become airborne. The material was found at a depth which is considered a potential direct exposure pathway. The presence of solid waste buried at shallow depths on the Tract has the potential to create physical hazards.

9.0 RECOMMENDATIONS

The findings of the ISA confirmed that a portion of the Tract was formerly used as a landfill site. The affected area is approximately shown on Figure 3. Assuming the current conditions of the Tract, the following recommendations regarding this material and future use of the site should be considered:

- Buried debris was encountered in certain locations at depths of less than one foot below ground surface. If this material is to remain in place, additional soil cover material is warranted to maintain a minimum cover over the material. This would include locations near TP-1A, TP-6, TP-16, and TP-17.
- Periodic monitoring of the landfill debris area for visible ACM is recommended to verify no potential surface exposures of this material are present. The monitoring should consist of annual visual inspections following spring thaw using an AHERA accredited inspector and a licensed abatement contractor to collect and properly dispose of ACM.
- Additional monitoring of the vapor probes during periods of significant decreasing barometric pressure is recommended to verify the vapor probe monitoring results of the ISA. The monitoring should initially be conducted on a quarterly basis to assess the potential of seasonal variability and to verify the preliminary results of this report.
- Restricting access to caves in the landfill area to minimize direct contact with debris and potential physical safety issues is recommended using a physical barrier (i.e. gate, large boulders, etc.). A barrier would minimize disturbance to the steeply sloped cave entrances that contain debris.

Considering the conceptual master plan (CMP) for the site, it appears that a portion of the landfill debris lies beneath areas of the CMP being considered for development. If those areas are planned to be used for development, removal of the waste is a likely option. In that case the following steps should be taken:

- Develop and implement a removal action plan which would include the methods and procedures to remove and dispose of landfill debris. This document should include a sampling and analysis plan and a health and safety plan. This plan will likely require DEQ concurrence.
- The Removal Plan should assume that ACM may be present in the debris and will need to be managed as ACM pursuant to the requirements contained in OAR 340, Division 248, 0005- 0290. This will require the use of a licensed asbestos abatement contractor, unless further sampling or inspection is performed by an AHERA-certified inspector during the removal process.
- There may likely be other hazardous substances encountered in the debris that require special management and sampling conducted under the supervision of workers trained under OSHA training 29CFR 1910.120 (HAZWOPER). Use of Personnel trained in assessing sites with the potential to encounter hazardous constituents is recommended.

A significant portion of the landfill debris lies within the area identified as part of the CMP that DSL plans to keep as open space for recreational purposes. Currently, existing roads and paths are primarily adjacent to the areas with landfill debris. If the landfill debris is left in place on a more permanent basis, it is likely that the following additional measures would need to be considered or taken:

- Obtain concurrence from the DEQ Cleanup Program that the residual impacts from the landfill debris do not pose an unacceptable long term risk to human health or the environment.
- Adjust the master plan so that as much of the open space area coincides with where the landfill debris is located.
- Based on the likely future use(s), determine the appropriate compaction criteria for the landfill debris and the engineered fill and cap design specifications.
- Collaborate with the DEQ Solid Waste Program to determine an adequate cap thickness to minimize direct exposure concerns.
- Obtain either a Solid Waste Letter Agreement (SWLA) from the DEQ Solid Waste Program <u>or</u> an approved remedy decision from the Cleanup Program to implement the agreed upon engineering (i.e. cap design) and institutional (i.e. land use restrictions) controls to maintain protective conditions over this portion of the Tract.
- Survey the landfill area boundary and create a separate tax lot for purposes of restricting future uses.

As DSL evaluates its short and long-term development plans for the Tract, and more specifically for the area where the landfill debris is located, a cost evaluation of debris removal and backfilling (if necessary) compared with the cost of designing, implementing and monitoring an engineered cap should be performed. Such an evaluation should include both the initial implementation cost and the long-term operation/maintenance costs of each remedy.

10.0 LIMITATIONS

PBS has prepared this report for use by the client. This report is not intended for reliance or other use by others without the written consent of PBS. Our interpretation of subsurface conditions in this study is based on field observations from the indicated explorations conducted by PBS. Other regulated substances may exist in portions of the subject property that were not explored or analyzed. This report should not be used for purposes other than those for which it was intended.

11.0 REFERENCES

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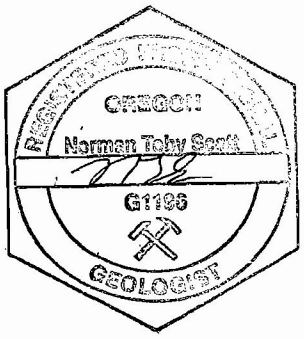
12.0 PROJECT SIGNATURES



N. Toby Scott, RG
Senior Hydrogeologist

4/28/09
Date

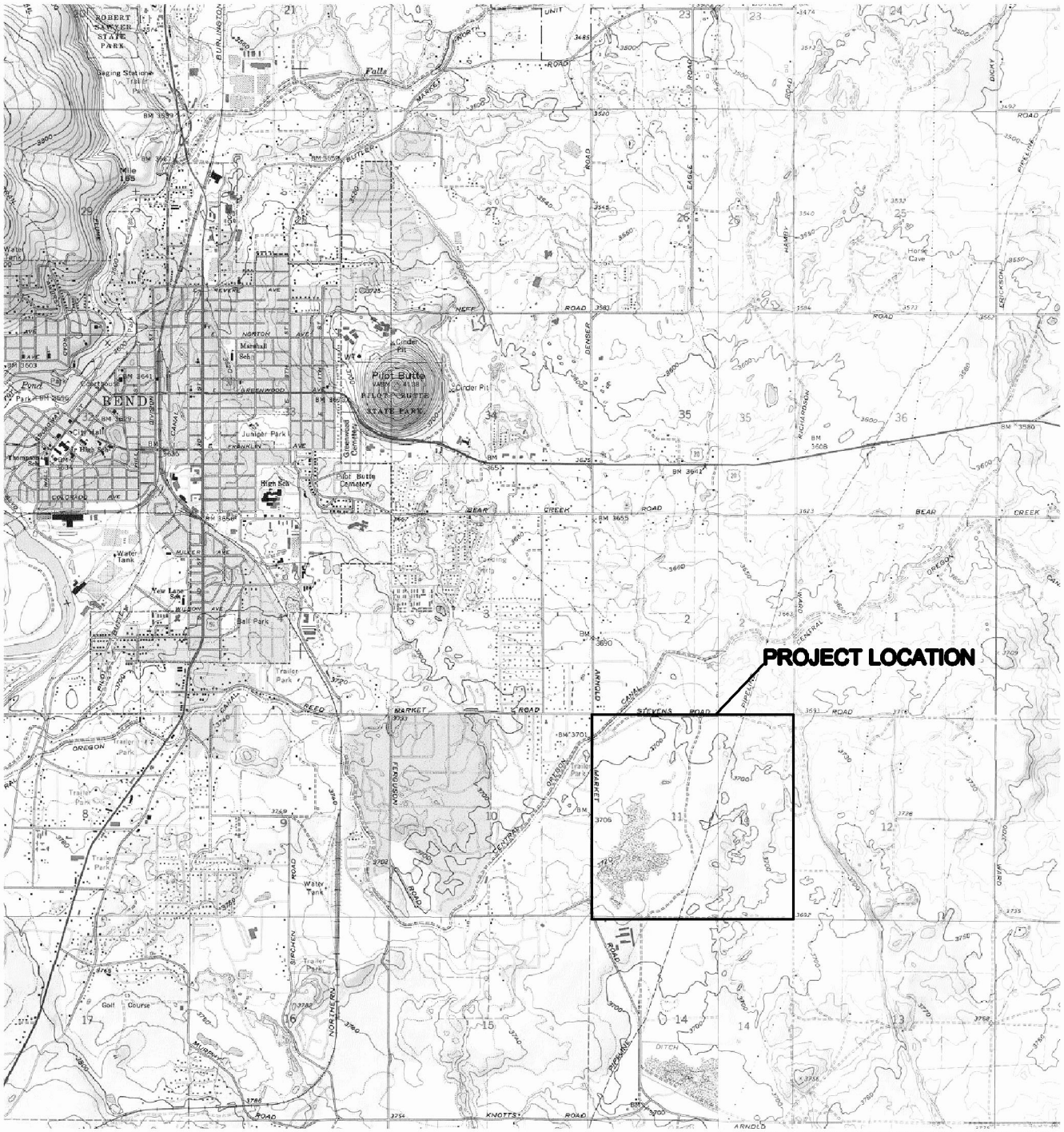
Reviewed By:

Ulysses Cooley

Ulysses Cooley, Jr. RG
Senior Hydrogeologist

4/28/09
Date

FIGURES



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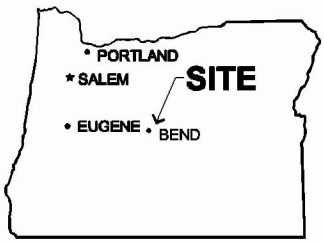
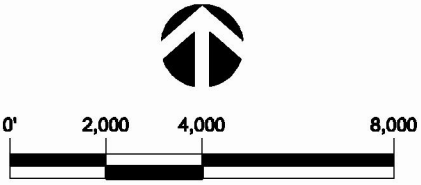


OREGON



SCALE: 1" = 4,000

PBS

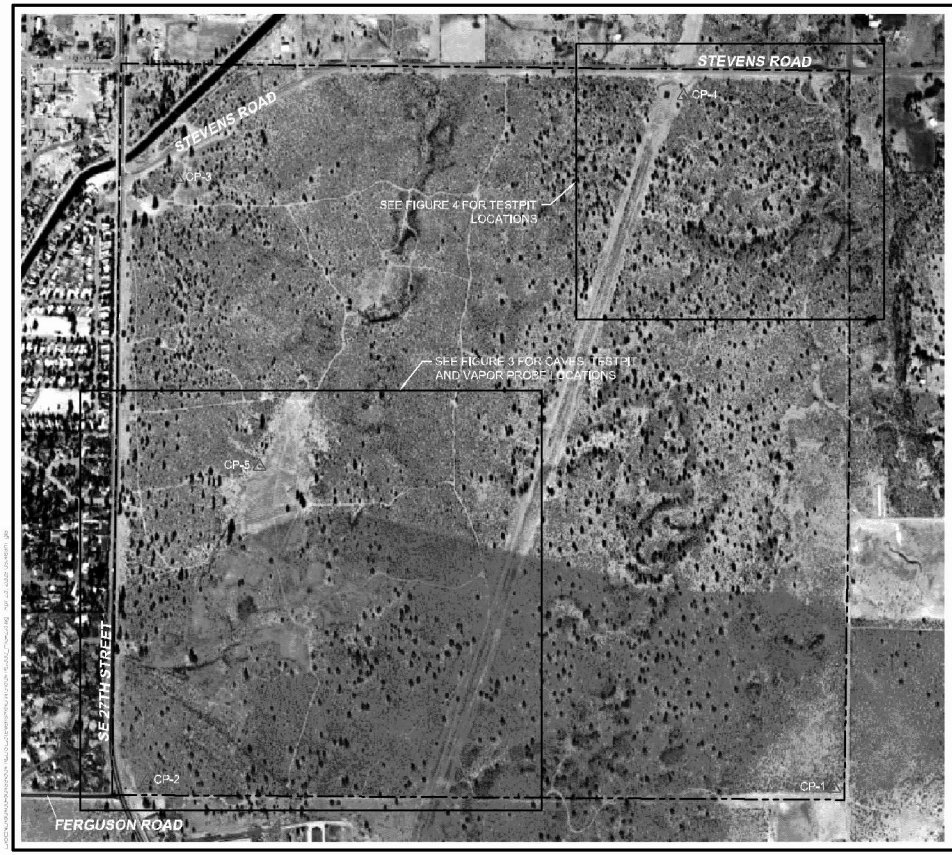
PROJECT #	DATE
80416.000	APR. 2009

SITE VICINITY MAP

STEVENS ROAD TRACT
BEND, OREGON

FIGURE
1

..\BEND\80400-80499\80416.DSL_StevensRd\DWG\80416SITEVICINITYMAP.FIG 1.dwg Apr 28, 2009 09:41am



LEGEND

△ CP-1	CONTROL POINT
- - - -	APPROX. PROPERTY BOUNDARY

SURVEYED BY HHPR 12/08

0 300' 600' 1200'

APPROXIMATE SCALE

PREPARED FOR: OREGON DSL

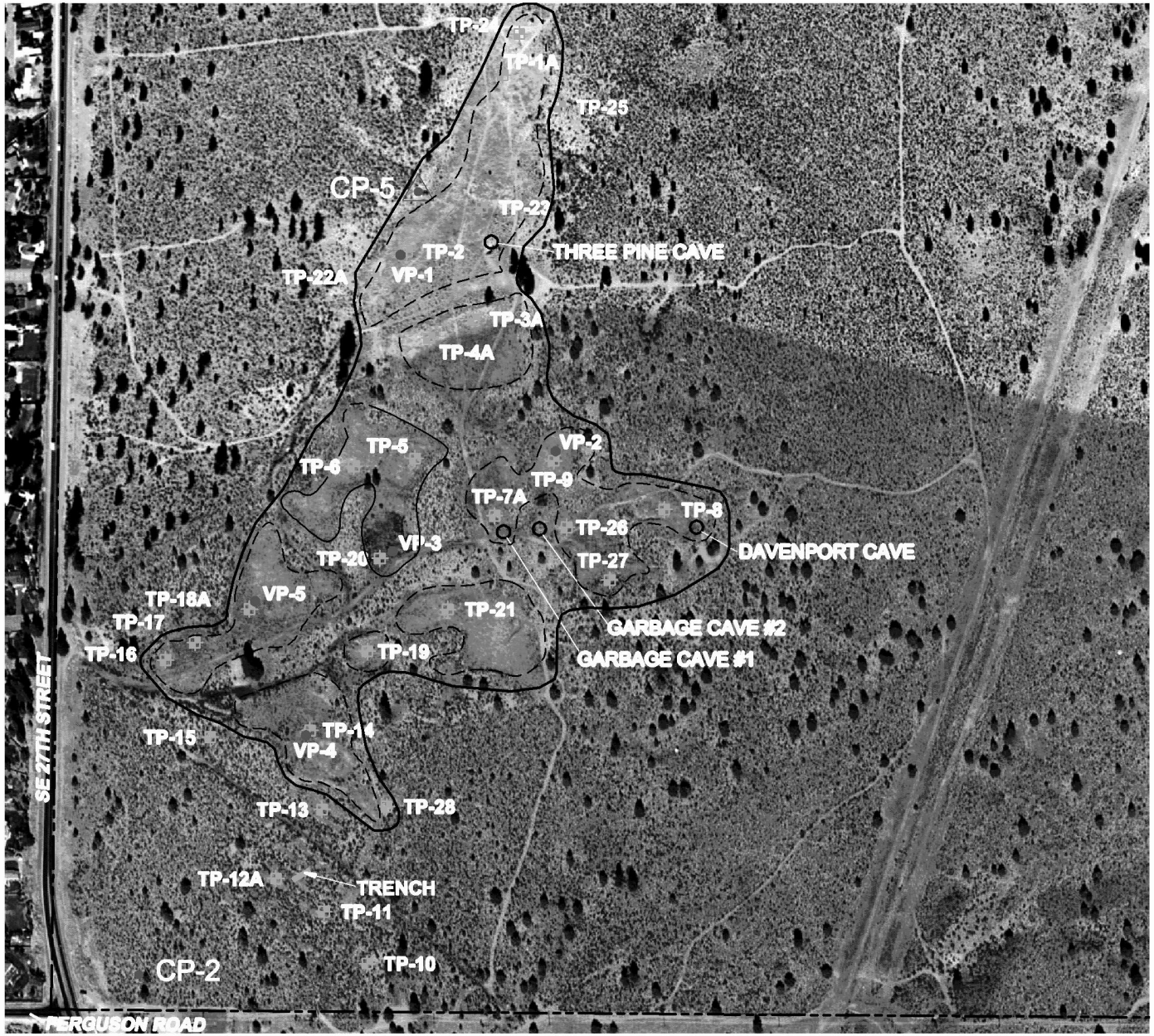
PBS
Engineering + Environmental
390 NE Emerson Avenue
Suite C
Bend, OR 97701
541.388.9290 Main
541.382.5116 Fax
www.pbsenv.com

STEVENS ROAD TRACT
SITE LOCATION MAP

BEND, OREGON

SITE PLAN

PROJECT:	80416.000
DATE:	APRIL 2009
FIGURE:	2



LEGEND

TP-1	TEST PIT NUMBER AND LOCATION
S-1	VAPOR PROBE NUMBER AND LOCATION
CP-1	CONTROL POINT
	CAVE LOCATION
	PROPERTY BOUNDARY
	APPROXIMATE EXTENT OF DEBRIS BASED ON PBS FIELD OBSERVATIONS AND NGA GEOPHYSICAL ASSESSMENT
	APPROX. LOCALITY OF FACILITY

SURVEYED BY HHPR, 12/08

0' 150' 300' 600'

APPROXIMATE SCALE

PREPARED FOR: OREGON DSL

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STEVENS ROAD TRACT
SW TEST PIT AND VAPOR PROBE LOCATIONS
BEND, OREGON

SITE PLAN

PROJECT: 80416.000

DATE: APRIL 2009

FIGURE: 3

LEGEND

TP-1	TEST PIT NUMBER AND LOCATION
CP-4	CONTROL POINT
— - - —	APPROX. PROPERTY BOUNDARY

SURVEYED BY HHPR 12/08

0' 100' 200' 400'

APPROXIMATE SCALE

PREPARED FOR: OREGON DSL

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390 NE Emerson Aven
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STEVENS ROAD TRACT
NE TEST PIT LOCATIONS

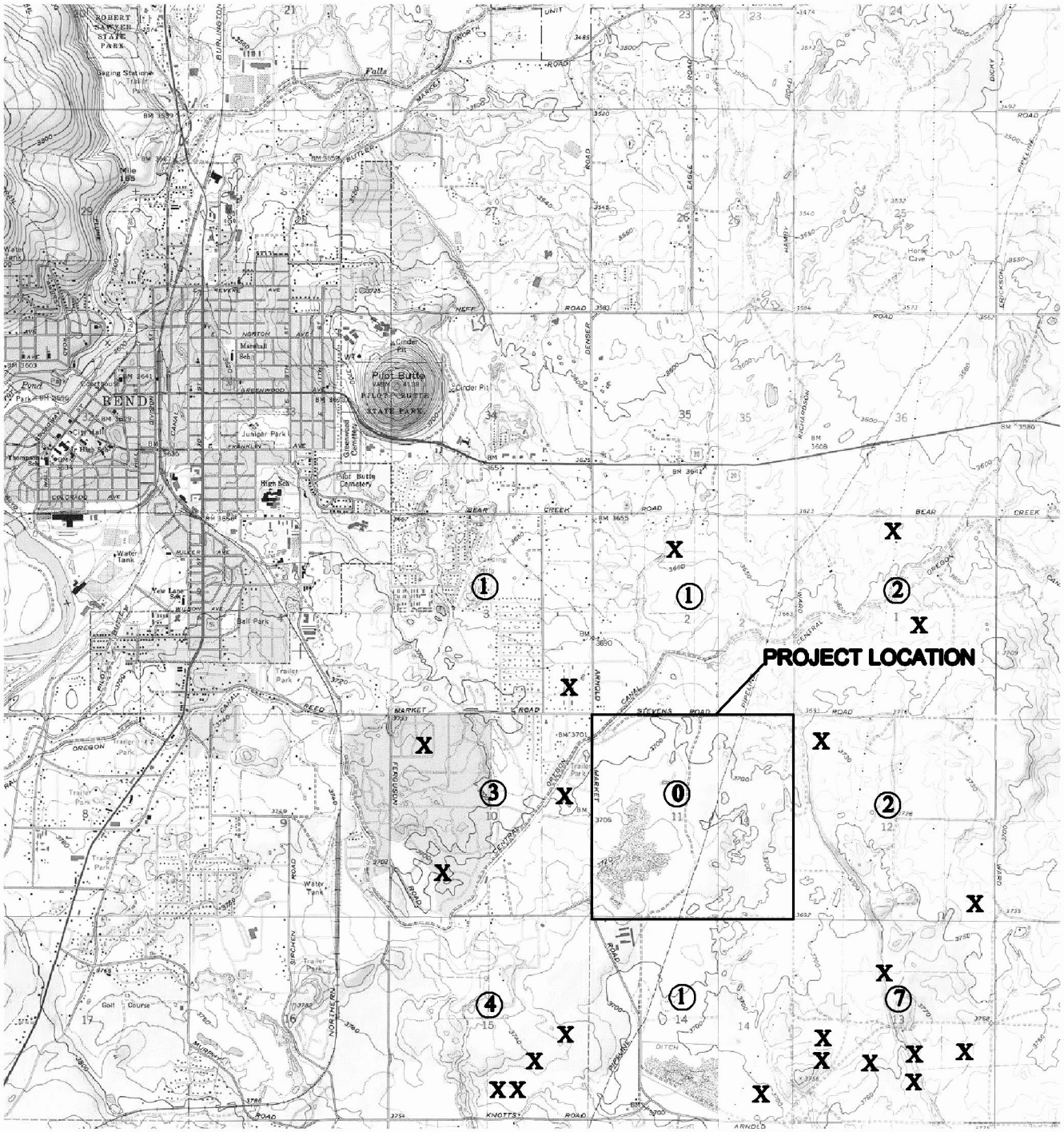
BEND, OREGON

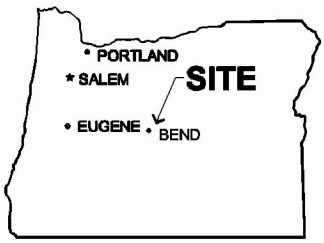
SITE PLAN

PROJECT: 80416.

DATE: APRIL 2

FIGURE: 4





OREGON

Legend

(1) Number of wells in Section

X Approximate well location based on Water Well Report

0' 2,000 4,000 8,000

SCALE: 1" = 4,000

PBS

PROJECT #	DATE
80416.000	APR. 2009

WATER WELL LOCATION MAP

STEVENS ROAD TRACT
BEND, OREGON

FIGURE

5

-:\BEND\80400-80499\80416.DSL_StevensRd\DWG\Water Well Location Map.Fig5.dwg Apr 28, 2009 09:52am

TABLES

Table 1
Test Pit Exploration and Soil Sampling Summary
Department of State Lands, Bend, Oregon

PBS Project #: 80416.000, Task 4
Report Date: April 2009 / Revised August, 2009

Test Pit	Top of Debris (FT)	Base of Debris (FT)	Total Depth (FT)	Material at Base of Excavation	Suspect Material found in Test Pit	Sample No.	Depth (FT)	PID (ppm)	Sheen Test	NWTPH-HCID	NWTPH-DX	Total Trace Metals	Polynuclear Aromatic Hydrocarbons	Volatile Organic Compounds	Polychlorinated Biphenyls	Total Organic Carbon	Organochlorine Pesticides
TP-1[1]	ne	na	4.6	Basalt Rock	None												
TP-1A[1]	0.7	10.0	10.0	Brown Sand	Glass/plastic/aluminum containers, documents dated 1968, scrap metal, dimensional wood, fiberglass, sheet	S-1	2.2	0	None	X	X	X					
					flooring, wall covering, barbed wire, tires	S-2	10.0	0	None	X	X	X					
TP-2[1]	1.0	9.3	9.3	Vesicular Basalt	Glass/plastic/aluminum/tin containers, documents dated 1969-1972, aerosol cans, scrap metal, dimensional	S-1	1.3	0	None	X	X	X	X				
					wood, agricultural/medical bottle, tires, empty motor oil containers.	S-2	9.0	0	None	X		X	X	X	X	X	X
TP-3[1]	2.0	>6.5	6.5	Debris	Glass/plastic/aluminum containers, cleaning products, scrap metal, fire extinguisher, tires	S-1	2.3	0	None	X	X	X					
TP-3A	2.0	10.0	13.5	Brown and Grey pumice sand	Glass/plastic/aluminum containers, hot water heater, agricultural/medical containers, documents dated 1972	S-2	13.0	0.1	None	X		X	X	X	X		X
TP-4[1]	1.0	>6.5	6.5	Debris	Glass/plastic/aluminum/tin containers, empty antifreeze jugs, washing machine	S-1	1.3	0	None								
TP-4A[1]	1.5	8.5	8.5	Vesicular Basalt	Glass/plastic/aluminum/tin containers, empty tubes of battery addivitives, C-batteries, sheet flooring, tires	S-2	8.5	0	None	X		X					
TP-5	1.0	10.0	13.0	Brown Sand no debris	Glass/plastic/aluminum containers, carpet, dimensional wood, remnant flooring, fiberglass, tires, metal auto-bod	S-1	1.5	0	None	X		X					
					parts.	S-2	12.5	0	None	X		X					
TP-6	0	9.5	11.5	Grey pumice sand	Glass/plastic containers, documents dated 1971, aerosol cans, scrap metal, dimensional wood, sheet flooring,	S-1	1.3	0	None								
					tires, oil filters, washing machine.	S-2	11.0	0	None	X		X					
TP-7[1]	1.5	>9.0	9.0	Debris	Glass/aluminum/tin containers, scrap metal, bedsprings.												
TP-7A	1.0	11.0	11.0	Vesicular Basalt	Glass/aluminum/tin containers, scrap metals, dimensional wood, barbed wire, large animal bones, old oil filters,	S-1	1.3	0	None	X	X	X					
					tires, automotive batteries	S-2	11.0	0	None	X		X					
TP-8	1.5	12.0	12.0	Vesicular Basalt	Glass/plastic/aluminum/tin containers, carpeting, documents dated 1971, scrap metal, dimensional wood, wall	S-1	1.0	0	None	X		X					
					covering ,sheet flooring, composition shingles, animal syringe, tractor parts, tires, washing machine.	S-2	11.5	1.7	None	X	X	X	X	X	X	X	
TP-9[2]	1.5	>17	17.0	Debris	Glass/plastic/aluminum/tin containers, documents dated 1969-1970, sheet flooring, composition shingles, tires,	S-1	1.3	0	None	X	X	X					
					aerosol spray paint cans, scrap metal, gypsum wall board, metal fencing, metal auto-body parts.												
	na	15.0	20.0	Vesicular Basalt	No debris collected in the `15-20' sample. Moved 5' east to collect a sample 10-15' to identify landfill debris.	VP-2/S-2	15-20	0	None	X		X	X	X	X	X	
TP-10	ne	na	3.0	Basalt Rock	None	S-1	2.0	0	None	X		X					
TP-10A	ne	na	0.5	Basalt Rock	None												
TP-11	ne	na	6.0	Basalt Rock	None	S-1	2.0	0	None								
TP-11A	1.0	4.5	4.5	Basalt Rock	Scattered glass bottles	S-2	4.5	0	None	X		X					
TP-12	ne	na	2.5	Basalt Rock	None												
TP-12A	1.5	4.0	4.0	Basalt Rock	Trench 25' long: scattered glass/tin containers, burnt ridged roofing, cement board, empty tin bucket of brake	S-1	1.3	0	None								
					fluid, minor amounts of animal bones.	S-2	4.0	0	None	X		X	X	X	X	X	
Trench[3]	1.5	4.0	4.0	Basalt Rock	Trench 50' long: scattered glass/tin containers, cement board, ridged roofing material.												
TP-13	ne	na	4.5	Basalt Rock	None	S-1	2.0	0	None	X		X					
TP-14	1.5	14.0	16.0	Vesicular Basalt	Glass/plastic containers, batteries, washing machine, metal, documents dated 1968, scrap metal, dimensional	S-1	1.3	0	None	X		X					
					wood, fiberglass, tires, empty containers of antifreeze,	S-2	15.0	0.3	None	X	X	X	X	X	X	X	
TP-15	ne	na	4.0	Basalt Rock	None	S-1	2.0	0	None	X		X					
TP-16	0.7	4.0	4.0	Basalt Rock	Glass/tin containers, burnt dimensional wood, cement board, minor amounts of bones	S-1	1.2	0	None								
						S-2	3.5	0	None	X		X					
TP-17	0.7	7.5	10.0	Brown Sand no debris	Glass/tin containers, melted materials, ceramics, cement board, pipe insulation, felt paper, metal auto-body	S-1	2.0	0	None	X		X					
					parts.	S-2	9.0	0	None	X		X					
TP-18	1.0	>4.5	4.5	Concrete and boulders	Glass/plastic/aluminum/tin containers, some melted material												
TP-18A	1.0	10.5	12.0	Brown Sand no debris	Glass/plastic/aluminum/tin containers, washing machine, scrap metal, dimensional wood, gypsum board,	S-1	1.5	0	None								
					cement roofing, metal auto-body parts.	S-2	11.5	0.1	None	X		X	X	X	X	X	X
TP-19	1.5	10.0	13.0	Basalt Rock	Glass/plastic/aluminum containers, documents dated 1968, rug, scrap metal, dimensional wood, wall covering,	S-1	1.3	0	None	X		X					
					sheet flooring, particle board, wood shingles, oil filters, metal auto-body pars, tires.	S-2	12.0	0	None	X		X					
TP-20	1.3	9.0	10.0	Vesicular Basalt	Glass/plastic containers, possible electric stereo box, scrap metal, dimensional wood, cement board, remnant	S-1	1.0	0.1	None	X		X					
					roofing, cleaning products, metal auto-body parts.	S-2	9.0	0.1	None	X	X	X	X	X	X	X	X
TP-21	1.0	8.0	10.0	Brown sand no debris	Glass containers, carpet, corroded electrical component, scrap metal, dimensional wood, chain link fence, sheet	S-1	0.7	0	None	X		X					
					flooring, barbed wire, tires, radiator, battery cables.	S-2	9.0	0	None	X		X	X	X	X	X	
TP-22	ne	na	1.0	Basalt Rock	None												
TP-22A	1.5	7.5	7.5	Basalt Rock	Glass/plastic/aluminum containers, cleaning products, oil filter, scrap dimensional wood, laminated paneling,	S-1	1.3	0.1	None								
					metal auto-body parts.	S-2	7.5	0	None	X		X	X	X			X
TP-23	1.5	10.0	10.0	Basalt Rock	Glass/plastic/aluminum containers, documents dated 1972, medical syringe, carpet, scrap metal, dimensional	S-1	1.2	0	None								
					wood, tires, empty container of WD-40.	S-2	10.0	0	None	X		X					
TP-24	1.5	11.0	12.0	Basalt Rock	Glass/plastic/aluminum containers, household cleaning products, scrap metal, dimensional wood, metal auto-	S-1	2.0	0	None	X		X					
					body parts, tires, empty container of oil supplement	S-2	12.0	0	None	X		X	X	X	X	X	
TP-24A	ne	ne	1.5	Basalt Rock	None												
TP-24B	1.5	>3.0	3.0	Debris	Define Northern boundary of debris 55' north of TP-24												
TP-25	ne	na	3.3	Basalt Rock	None	S-1	2.0	0	None	X		X					
TP-25A	ne	na	2.5	Basalt Rock	None												
TP-25B	ne	na	1.5	Basalt Rock	None												
TP-25C	2.0	>3.0	3.0	Debris	Define Eastern boundary of debris 55' west of TP-25												
TP-26	2.0	>16.0	16.0	Debris	Glass/plastic/aluminum containers, documents dated 1970, washing machine, empty 5gl can of lacquer, scrap	S-1	1.5	0	None	X		X					
					metal, roofing material, metal auto-body parts, oil filters, empty motor oil containers, tires.												
TP-27	2.0	>15.0	15.0	Debris	Glass/plastic/aluminum containers, documents dated 1970, scrap metal, dimensional wood, oil filters, empty	S-1	1.5	0	None	X		X					
					containers of antifreeze, tires.												
TP-27A	ne	na	1.5	Basalt Rock	Define Southern boundary of debris 15' SE of TP-27												
TP-28	ne	na	4.0	Basalt Rock	None	S-1	2.0	0	None								
						S-2	4.0	0	None	X		X					
TP-29	ne	na	5.0	Basalt Rock	None	S-1	2.0	0	None	X		X					
						S-2	5.0	0	None								
TP-30	ne	na	5.5	Basalt Boulders	None	S-1	2.0	0	None	X		X					
						S-2	5.5	0	None								

Notes:
See Appendix C-1 for test pit logs. See Appendix C-2 for vapor probe logs.
ne = not encountered
na = not applicable
1 = Backhoe with 10-foot reach was used to excavate test pit.
2 = A vapor probe (VP-2) was installed by TP-9. A push probe soil sample was collected near the bottom of VP-2 prior to the installation of the vapor probe.
3 = Trench 50' long located 30' NE of TP-12A. An attempt to inspect a trench perpendicular to the previous described seepage trenches.

Table 2
Soil Laboratory Analysis Summary
Department of State Lands, Bend, Oregon

PBS Project #: 80416.000, Task 4
Report Date: April 2009

Sample Location	Sample Number	Sample Depth	TOC by EPA 415.1 (mg/kg)	NWTPH HCID (mg/kg)			NWTPH-DX (mg/kg - dry)		Total Trace Metals by EPA 6010B (mg/kg)													Organochlorine Pesticides by EPA 8081A	PCB by EPA 8082 (mg/kg)		VOC by EPA 8260B	PAH by EPA 8270M-SIM (mg/kg)														
				TPH as Gasoline	TPH as Diesel	TPH as Lube Oil	TPH as Diesel	Lube Oil Range (C24-C40)	Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury (EPA 7471A)	Nickel	Selenium	Silver	Thallium	Zinc		Aroclor 1248	Aroclor 1254		Acenaphthene	Anthracene	Benzo (a) anthrancene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (ghi) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
TP-1	TP-1A/S-1	2.2	------	<21.4	<53.4	det	25.5[1]	95.2	<0.534	<0.534	<0.534	<0.534	9.04	14.1	2.58	<0.0845	36.5	<0.534	<0.534	<0.534	36.9	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
	TP-1A/S-2	10.0	------	<27.7	det	det	70.0[2]	167	<3.46	**2.22**	<3.46	<3.46	30.1	43.6	41.7	<0.115	63.3	<0.692	<0.692	<3.46	766	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
TP-2	TP-2/S-1	1.3	------	<23.9	det	det	281[1]	1,090	<0.606	**2.02**	<0.606	<0.606	28.6	53.5	14.5	<0.105	61.4	<0.606	<0.606	<0.606	101	------	------	------	------	<0.0163	<0.0163	<0.0163	<0.0163	<0.0163	<0.0163	<0.0163	<0.0163	<0.0163	0.0222	<0.0163	<0.0163	<0.0163	0.0184	0.0163
	TP-2/S-2	9.0	<2,000	<21.6	<54.0	<108	------	------	<0.533	**0.607**	<0.533	<0.533	10.5	12.8	1.67	<0.0881	37.5	<0.533	<0.533	<0.533	18.9	nd	<0.0370	<0.0370	nd	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148
TP-3	TP-3/S-1	2.3	------	<20.6	<51.4	det	14.3[1]	78.6	<0.503	**2.32**	<0.503	<0.503	14.9	28.6	37.4	<0.0610	35.2	<0.503	<0.503	<0.503	104	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
	TP-3A/S-2	13	------	<22.7	<56.8	<114	------	------	<0.554	<0.554	<0.554	<0.554	6.09	13.0	1.32	<0.0979	19.5	<0.554	<0.554	<0.554	17.1	nd	<0.0387	<0.0387	nd	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155
TP-4	TP-4A/S-2	8.5	------	<21.9	<54.9	<110	------	------	<0.547	**1.41**	<0.547	<0.547	20.0	26.0	6.33	<0.0946	53.4	<0.547	<0.547	<0.547	50.5	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
TP-5	TP-5/S-1	1.5	------	<20.7	<51.8	<104	------	------	<0.517	**3.22**	<0.517	<0.517	18.7	30.5	15.4	<0.0847	49.5	<0.517	<0.517	<0.517	66.7	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
	TP-5/S-2	12.5	------	<22.2	<55.5	<111	------	------	<0.551	**1.04**	<0.551	<0.551	12.4	21.1	2.70	<0.0913	42.5	<0.551	<0.551	<0.551	28.1	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
TP-6	TP-6/S-2	11	------	<22.7	<56.8	<114	------	------	<0.591	<0.591	<0.591	<0.591	5.35	11.1	1.81	<0.0992	17.5	<0.591	<0.591	<0.591	24.6	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
TP-7	TP-7A/S-1	1.3	------	<20.7	<51.8	det	17.1[1]	45.8	<0.527	**1.24**	<1.05	<0.527	12.2	17.7	20.3	<0.0968	49.1	<0.527	<0.527	<0.527	624	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
	TP-7A/S-2	11.0	------	<21.6	<53.9	<108	------	------	<0.559	<0.559	<0.559	<0.559	4.57	9.04	1.33	<0.108	18.5	<0.559	<0.559	<0.559	15.0	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
TP-8	TP-8/S-1	1.0	------	<20.4	<51.0	<102	------	------	<0.495	**1.02**	<0.989	<0.495	12.4	15.8	3.07	<0.0968	29.4	<0.495	<0.495	<0.495	30.7	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
	TP-8/S-2	11.5	16,000	<22.4	<55.9	det	165[1]	617	<0.555	**1.55**	<0.555	<0.555	19.4	25.8	38.0	<0.0972	46.9	<0.555	<0.555	<0.555	184	------	0.171	<0.0381	nd	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155
TP-9	TP-9/S-1	1.3	------	<20.6	<51.5	det	13.7[1]	69.3	1.20	**1.96**	<0.501	0.936	18.7	33.4	74.4	0.0948	36.3	<0.501	<0.501	<0.501	270	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
	VP-2/S-2	15-20	<2,000	<22.5	<56.3	<113	------	------	<0.547	<0.547	<0.547	<0.547	24.6	31.3	0.946	<0.0921	78.4	<0.547	<0.547	<0.547	32.4	------	0.0374	0.0374	nd	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151
TP-10	TP-10/S-1	2.0	------	<20.9	<52.4	<105	------	------	<0.509	**0.922**	<0.509	<0.509	12.4	15.9	2.85	<0.0981	29.3	<0.509	<0.509	<0.509	23.6	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
TP-11	TP-11A/S-2	4.5	------	<21.4	<53.4	<107	------	------	<0.520	**1.10**	<0.520	<0.520	15.1	19.0	2.78	<0.0918	37.7	<0.520	<0.520	<0.520	26.0	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
TP-12	TP-12A/S-2	4.0	<2,000	<20.6	<51.4	<103	------	------	<0.528	**1.09**	<0.528	<0.528	15.6	19.9	2.55	<0.0888	38.9	<0.528	<0.528	<0.528	27.9	------	<0.0357	<0.0357	nd	<0.0144	<0.0144	<0.0144	<0.0144	<0.0144	<0.0144	<0.0144	<0.0144	<0.0144	<0.0144	<0.0144	<0.0144	<0.0144	<0.0144	<0.0144	<0.0144
TP-13	TP-13/S-1	2.0	------	<21.4	<53.4	<107	------	------	<0.516	**0.862**	<0.516	<0.516	12.3	14.5	2.21	<0.103	32.3	<0.516	<0.516	<0.516	23.0	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
TP-14	TP-14/S-1	1.3	------	<20.3	<50.9	<102	------	------	<0.510	**0.836**	<0.510	<0.510	12.0	15.4	2.00	<0.0894	31.5	<0.510	<0.510	<0.510	27.0	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
	TP-14/S-2	15.0	18,000	<22.4	det	det	186[2]	233	<0.559	**1.96**	<0.559	1.08	18.9	32.4	55.6	<0.0818	51.5	<0.559	<0.559	<0.559	254	------	<0.375	**2.710**	nd	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151	<0.0151
TP-15	TP-15/S-1	2.0	------	<20.5	<51.3	<103	------	------	<0.512	**1.16**	<0.512	<0.512	17.8	19.2	2.59	<0.0844	39.7	<0.512	<0.512	<0.512	28.7	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
TP-16	TP-16/S-2	3.5	------	<21.0	<52.4	<105	------	------	<0.538	**1.28**	<0.538	<0.538	11.5	17.9	23.6	<0.0851	18.5	<0.538	<0.538	<0.538	87.9	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
TP-17	TP-17/S-1	2.0	------	<20.0	<49.9	<99.9	------	------	<0.526	**1.25**	<0.526	<0.526	15.7	15.9	19.4	<0.0801	19.4	<0.526	<0.526	<0.526	35.4	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
	TP-17/S-2	9.0	------	<20.9	<52.2	<104	------	------	<0.549	**1.02**	<0.549	<0.549	11.7	18.2	9.28	<0.0955	35.1	<0.549	<0.549	<0.549	60.5	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
TP-18	TP-18A/S-2	11.5	<2,000	<21.6	<53.9	<108	------	------	<0.554	**0.897**	<0.554	<0.554	12.6	16.3	8.08	<0.0947	35.9	<0.554	<0.554	<0.554	53.7	nd	<0.0364	<0.0364	nd	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148	<0.0148
TP-19	TP-19/S-1	1.3	------	<19.6	<49.0	<97.9	------	------	<0.492	**1.02**	<0.492	<0.492	12.8	17.3	2.56	<0.0891	34.1	<0.492	<0.492	<0.492	30.4	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
	TP-19/S-2	12.0	------	<20.9	<52.3	<105	------	------	<0.536	**1.68**	<0.536	<0.536	17.1	41.7	2.44	<0.0816	70.0	<0.536	<0.536	<0.536	56.8	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
TP-20	TP-20/S-1	1.0	------	<20.0	<49.9	<99.9	------	------	<0.500	**1.10**	<0.500	<0.500	12.9	19.3	2.79	<0.0943	36.2	<0.500	<0.500	<0.500	32.5	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
	TP-20/S-2	9.0	9,900	<22.3	<55.7	det	76.6[2]	268	<0.553	**1.90**	<0.553	<0.553	17.7	28.3	26.0	<0.109	39.6	<0.553	<0.553	<0.553	95.3	nd	<0.0375	0.0536	nd	0.0245	0.0718	0.139	**0.111**	0.108	0.0626	0.106	0.140	**0.0196**	0.348	0.0241	0.0631	<0.015	0.256	0.240
TP-21	TP-21/S-1	0.7	------	<18.6	<46.6	<93.2	------	------	<0.491	**1.00**	<0.491	<0.491	12.4	20.5	2.66	<0.0798	35.8	<0.491	<0.491	<0.491	36.9	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
	TP-21/S-2	9.0	<2,000	<20.9	<52.3	<105	------	------	<0.523	**0.988**	<0.523	<0.523	12.9	18.2	2.82	<0.0991	42.8	<0.523	<0.523	<0.523	37.0	------	<0.0365	<0.0365	nd	<0.0147	<0.0147	<0.0147	<0.0147	<0.0147	<0.0147	<0.0147	<0.0147	<0.0147	<0.0147	<0.0147	<0.0147	<0.0147	<0.0147	<0.0147	<0.0147
TP-22	TP-22A/S-2	7.5	------	<21.9	<54.8	<110	------	------	<0.550	**1.69**	<0.550	<0.550	16.8	28.2	3.94	<0.107	37.3	<0.550	<0.550	<0.550	38.7	nd	------	------	nd	<0.0153	<0.0153	<0.0153	<0.0153	<0.0153	<0.0153	<0.0153	<0.0153	<0.0153	<0.0153	<0.0153	<0.0153	<0.0153	<0.0153	<0.0153	<0.0153
TP-23	TP-23/S-2	10.0	------	<24.7	<61.8	<124	------	------	<0.607	**1.23**	<0.607	<0.607	23.7	31.8	50.1	0.361	35.0	<0.607	<0.607	<0.607	161	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
TP-24	TP-24/S-1	2.0	------	<21.4	<53.5	<107	------	------	<0.520	**0.988**	<0.520	<0.520	12.0	15.4	2.83	<0.0931	33.0	<0.520	<0.520	<0.520	27.4	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
	TP-24/S-2	12.0	<2,000	<20.6	<51.5	<103	------	------	<0.522	**0.767**	<0.522	<0.522	12.3	18.9	6.23	<0.0952	48.3	<0.522	<0.522	<0.522	34.3	------	<0.0364	<0.0364	nd	<0.0146	<0.0146	<0.0146	<0.0146	<0.0146	<0.0146	<0.0146	<0.0146	<0.0146	<0.0146	<0.0146	<0.0146	<0.0146	<0.0146	<0.0146	<0.0146
TP-25	TP-25/S-1	2.0	------	<20.8	<52.0	<104	------	------	<0.512	**0.886**	<0.512	<0.512	11.8	14.4	1.64	<0.104	39.0	<0.512	<0.512	<0.512	24.8	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
TP-26	TP-26/S-1	1.5	------	<20.8	<52.0	<104	------	------	<0.510	**1.09**	<0.510	<0.510	14.1	17.9	2.80	<0.0973	36.3	<0.510	<0.510	<0.510	30.7	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
TP-27	TP-27/S-1	1.5	------	<20.6	<51.4	<103	------	------	<0.526	**1.05**	<0.526	<0.526	15.9	19.3	2.62	<0.0926	50.2	<0.526	<0.526	<0.526	34.5	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
TP-28	TP-28/S-2	4.0	------	<21.7	<54.2	<108	------	------	<0.535	**0.921**	<0.535	<0.535	13.0	17.0	2.10	<0.0894	41.6	<0.535	<0.535	<0.535	24.1	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
TP-29	TP-29/S-1	2.0	------	<20.8	<51.9	<104	------	------	<0.508	**0.829**	<0.508	<0.508	10.4	13.6	2.00	<0.0722	25.8	<0.508	<0.508	<0.508	24.2	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
TP-30	TP-30/S-1	2.0	------	<21.2	<52.9	<106	------	------	<0.514	**0.960**	<0.514	<0.514	13.3	14.9	2.25	<0.0811	36.9	<0.514	<0.514	<0.514	28.6	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Oregon DEQ Risk-Based Cleanup Concentrations (October 3, 2008)																																									
Residential Soil Ingestion, Dermal Contact, Inhalation (mg/kg)							3,900	na	na	0.39	150[3]	39[3]	32[5]	2,900	400	23	1,600	na	390	na	na	various	0.22	0.22	various	2,900[8]	21,000[8]	0.15	0.015	0.15	na	1.5	15[8]	0.015	2,300[8]	2,600[8]	0.15	3.8	na	1,700[8]
Urban Residential Soil Ingestion, Dermal Contact, Inhalation (mg/kg)							8,300	na	na	1.0	310[3]	78[3]	140[5]	5,800	400	47	3,100	na	780	na	na	various	0.60	0.60	various	5,900[8]	41,000[8]	0.31	0.031	0.31	na	3.1	31[8]	0.031	4,600[8]	5,200[8]	0.31	16	na	3,400[8]
Occupational Soil Ingestion, Dermal Contact, Inhalation (mg/kg)							70,000	na	na	1.7	2,000[3]	510[3]	180[5]	38,000	800	310	20,000	na	5,100	na	na	various	0.98	0.98	various	41,000[8]	>Max	2.7	0.27	2.7	na	27[8]	270[8]	0.27	29,000[8]	35,000[8]	2.7[8]	22	na	21,000[8]
EPA Regional Screening Levels (September 12, 2008)																																									
Residential Soil (mg/kg)							na	na	31[3]	0.39[4]	160[3]	70[3]	280[6,7]	3,100[3]	400[3]	23[3]	1,600[3]	390[3]	390[3]	5.1[3]	23,000[3]	various	0.22[7]	0.22[10]	various	3,400[3]	17,000[3]	0.15[7]	0.015[7]	0.15[7]	na	1.5[7]	15[7]	0.015[7]	2,300[3]	2,300[3]	0.15[7]	3.9[4]	na	1,700[3]
Industrial Soil (mg/kg)							na	na	410[3]	1.6[7]	2,000[3]	810[3]	1,400[6,7]	41,000[3]	800[3]	310[3]	20,000[3]	5,100[3]	5,100[3]	61[3]	310,000[3,9]	various	0.74[7]	0.74[4]	various	33,000[3]	170,000[3,9]	2.1[7]	0.21[7]	21[7]	na	21[7]	210[7]	0.21[7]	24,000[3]	24,000[3]	2.1[7]	20[4]	na	17,000[3]

Notes:
See Appendix E for Laboratory Analytical Report
BOLD print indicates concentration exceeding applicable RBC or SL concentrations
Det = detected; ND= all analytes in test method were not detected. See Appendix F-1 for details.
--- = not analyzed for that specific compound; NA = not available
>Csat = This soil RBC exceeds the limit of three-phase equilibrium partitioning.
>Max The constituent RBC is greater than 1000,000 mg/kg.

(1) Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
(2) Detected hydrocarbons do not have pattern and range consistent with typical petroleum products and may be due to biogenic interference.
(3) Non carcinogenic
(4) Carcinogenic, where non-cancer SL <100X cancer SL.
(5) Assume total Cr is all Cr VI
(6) Assume Cr VI / Cr III is 1/6 ratio
(7) Carcinogenic
(8) Concentration may exceed the equilibrium of three phase soil partitioning.
(9) Concentrations may exceed ceiling limit
(10) Carcinogenic, where non-cancer SL < 10x cancer SL

Table 3
Individual Bulk Asbestos Sampling & Analysis Summary — **PBS Project #: 80416.000, Task 4**
Department of State Lands, Stevens Road Tract, Bend, Oregon — **Report Date: April 2009**

Sample Number	Test Pit	Approximate Sample Collection Depth (FT)	Material Type	Laboratory Result
A001	TP-1A	6.0	Grey sheet floor covering/tan fibrous backing	45% Chrysotile
A002	TP-1A	7.3	Miscellaneous wall covering	NAD
A003	TP-3A	7.7	Built-up roofing	NAD
A004	TP-4A	6.5	Grey sheet floor covering/grey fibrous backing	45% Chrysotile
A005	TP-8	5.3	Grey sheet floor covering/tan fibrous backing	4% / 45% Chrysotile
A006	TP-8	5.5	Composition shingles with green granules	NAD
A007	TP-9	6.3	Beige sheet floor covering/grey fibrous backing	NAD
A008	TP-9	15.3	Multiple layers of composition shingles	NAD
A009	TP-9	15.5	Black sheet floor covering/grey fibrous backing	45% Chrysotile
A010	TP-12A	2.3	Grey cement asbestos board	12% Chrysotile
A011	TP-12A	2.5	Reddish/brown remnant roofing	25% Chrysotile
A012	TP-16	3.3	Grey cement asbestos board	10% Chrysotile
A013	TP-17	2.7	Grey cement asbestos board	10% Chrysotile
A014	TP-17	5.7	Grey fibrous felt-like paper/insulation	50% Chrysotile
A015	TP-17	6.0	Grey air Cell-type pipe insulation	40% Chrysotile
A016	TP-18	3.3	Grey compressed thermal insulating board/paper	65% Chrysotile
A017	TP-18A	1.0	Gypsum board	NAD
A018	TP-18A	1.3	Gypsum board	NAD
A019	TP-18A	4.3	Green cement asbestos board	10% Chrysotile
A020	TP-21	3.3	Tan sheet floor covering	7% Chrysotile
A021	TP-9	16.3	Grey fibrous felt like paper/insulation	55% Chrysotile
A022	TP-9	16.5	Gypsum board	NAD

Notes:
NAD = No Asbestos Detected
See Appendix F-2 for Laboratory Report for Bulk Asbestos Analyses

Table 4
Positive Asbestos-Containing Material Summary **PBS Project #: 80416.000, Task 4**
Department of State Lands, Stevens Road Tract, Bend, Oregon **Report Date: April 2009**

Test Pits	Sample Numbers	Asbestos-Containing Materials	Laboratory Results	Comments
TP-1A, -4A, -8, -9, and -21	A001, A004, A005, A009, A020	Sheet Floor Coverings	4% to 45% Chrysotile	Similar flooring materials were observed in TP-5, -6, and -19, however these materials were not sampled. These materials should be considered as asbestos-containing without further testing.
TP-12A, -16, -17, 18A	A010, A012, A013, A019	Cement Asbestos Board (CAB)	10% to 12% Chrysotile	Similar CAB products were observed in TP-20 and scattered throughout the ground surface in the vicinity of TP-11 and -12A. These materials should be considered as asbestos-containing without further testing.
TP-9 and -17	A021 and A014	Felt-like paper/insulation	50% to 55% Chrysotile	This material was observed to be severely degraded and is considered a fully regulated friable material.
TP-17	A015	Air Cell-type pipe insulation	40% Chrysotile	This material was observed to be severely degraded and is considered a fully regulated friable material.
TP-18	A016	Thermal insulating board/liner	65% Chrysotile	This material was observed to be severely degraded and is considered a fully regulated friable material.
TP-12A	A011	Roofing material	25% Chrysotile	This material was observed to be severely degraded and is considered a friable material in its current condition.

Notes:
NAD = No Asbestos Detected
See Appendix F-2 for Laboratory Report for Bulk Asbestos Analyses

Table 5
Vapor Probe Field Monitoring Data Summary — **PBS Project #: 80416.00, Task 4**
Department of State Lands, Stevens Road Tract, Bend, Oregon — **Report Date: April 2009**

Sample Location	Date	Methane Gas - CH_4 (%)	Carbon Dioxide - CO_2 (%)	Oxygen - O_2 (%)	Differential Pressure (inches of H_2O)	Barometric Pressure[1]	Comments
VP-1	1/8/2009	0.0	5.5	15.0	0	29.88	
	1/14/2009	0.0	5.4	15.1	0	30.30	
	1/22/2009	0.0	5.6	14.8	0	29.97	
	1/27/2009	0.0	6.7	15.0	0	30.21	
	Average	*0.0*	*5.8*	*15.0*			
VP-2	1/8/2009	0.0	13.4	7.6	0	29.91	At the start of the reading methane read 0.1%
	1/14/2009	0.0	15.4	4.1	0	30.33	Green stake pulled out, put back in
	1/22/2009	0.0	18.7	2.0	0	29.97	
	1/27/2009	0.1	16.8	4.6	0	30.21	
	Average	*0.0*	*16.1*	*4.6*			
VP-3	1/8/2009	0.0	13.6	8.0	0	29.91	
	1/14/2009	0.0	13.2	8.5	0	30.30	
	1/22/2009	0.0	13.9	8.1	0	29.97	
	1/27/2009	0.0	16.1	7.3	0	30.21	
	Average	*0.0*	*14.2*	*8.0*			
VP-4	1/8/2009	0.0	13.4	7.8	0	29.91	
	1/14/2009	0.0	17.6	4.1	0	30.30	Green stake removed completely
	1/22/2009	0.0	18.9	3.1	0	29.97	
	1/27/2009	0.1	19.0	3.4	0	30.21	
	Average	*0.0*	*17.2*	*4.6*			
VP-5	1/8/2009	0.0	0.1	20.2	0	29.88	
	1/14/2009	0.0	0.0	20.2	0	30.33	Green stake removed completely
	1/22/2009	0.0	0.1	20.0	0	29.97	
	1/27/2009	0.0	0.1	20.4	0	30.18	
	Average	*0.0*	*0.1*	*20.2*			
Three Pines Cave	1/8/2009	0.0	0.0	20.4	0	29.88	Smoke smell inside the cave.
	1/14/2009	0.0	0.0	20.1	0	30.30	Smoke smell inside the cave.
	1/22/2009	0.0	0.0	19.8	0	29.97	Smoke smell inside the cave.
	1/27/2009	0.0	0.0	21.1	0	30.21	
	Average	*0.0*	*0.0*	*20.4*			
Garbage Cave No. 1	1/8/2009	0.0	0.1	20.3	0	29.91	Skunk like odor inside the cave.
	1/14/2009	0.0	0.0	20.2	0	30.30	
	1/22/2009	0.0	0.1	19.9	0	29.97	
	1/27/2009	0.0	0.0	21.3	0	30.21	
	Average	*0.0*	*0.1*	*20.4*			
Garbage Cave No. 2	1/8/2009	0.0	0.0	20.5	0	29.88	
	1/14/2009	0.0	0.1	20.1	0	30.33	
	1/22/2009	0.0	0.1	20.2	0	29.97	
	1/27/2009	0.0	0.0	20.3	0	30.21	
	Average	*0.0*	*0.1*	*20.3*			
Davenport Cave	1/8/2009	0.0	0.0	20.6	0	29.88	
	1/14/2009	0.0	0.0	20.1	0	30.33	
	1/22/2009	0.0	0.0	20.3	0	29.97	
	1/27/2009	0.0	0.0	20.5	0	30.18	
	Average	*0.0*	*0.0*	*20.4*			

Notes
1 - Barometric Pressure (BP) in inches of Mercury from the Greenmont Dr. weather station.
BP Range during Monitoring Period 1/8/09: slight rise (29.88 - 29.91); 1/14/09: slight rise (30.30 - 30.33);
1/22/09: steady (29.97); 1/27/09: slight fall (29.75 - 29.73)

APPENDIX A

Site Photos

PHOTO 1: View of Seismic Line 2 facing south-southeast orientation. Note geophones (attached to black cable) and recording equipment (orange box).

PHOTO 2: View of excavated debris from TP-9.

PHOTO 3: View of tires and scrap metal extracted from TP-9 and staged for recycling.

PHOTO 4: View of excavated trench in sewage disposal area looking northeasterly.

PHOTO 5: View of excavated TP-23. Note debris begins at approximately one foot below the ground surface.

PHOTO 6: View of shallow soil sample collection from TP-29 facing southeasterly.

PHOTO 7: View of the track mounted push probe rig installing VP-4 approximately 25 feet south west of TP-14 (wooden stake) facing north.

PHOTO 8: Close up view of a vapor probe header completion.

PHOTO 9: Landfill gas monitoring at VP-5.

PHOTO 10: View of asbestos-containing sheet floor covering and non asbestos-containing composition roofing shingle.

PHOTO 11: Close-up view of cement asbestos board paneling.

PHOTO 12: Close up view of asbestos-containing Air Cell-type pipe insulation.

APPENDIX B

Geophysical Assessment Report – Northwest Geophysical Associates

Northwest
Geophysical
Associates, Inc.
1600 SW Western Boulevard, Suite 200
PO Box 1063, Corvallis, OR 97339-1063
Phone: (541) 757-7231 FAX: (541) 757-7331
www.nga.com info@nga.com

January 2, 2009
NGA Ref. 689

N. Toby Scott, RG
PBS Engineering & Environmental
390 NE Emerson Ave., Suite C
Bend, OR 97701

Re: ***Geophysical Site Investigation***
Stevens Road Tract
Bend, Oregon

Dear Mr. Scott;

Northwest Geophysical Associates, Inc. (NGA) conducted a geophysical site investigation at the Stevens Road Tract, in Bend, Oregon. The Tract includes the location of the former Arnold Landfill. The site is east of E. 27th St. and south of Stevens Road in Bend (Figure 1). NGA performed this investigation for PBS Engineering & Environmental (PBS) and the Oregon Department of State Lands (DSL).

The geophysical investigation included two tasks: 1) map the lateral limits of the former disposal areas using magnetics (MAG) and electromagnetics (EM), and 2) map the depth to bedrock, or thickness of debris, along eight 200-foot profiles using seismic refraction. The site map, Figure 2, shows the area surveyed, approximately 80 acres, within the Stevens Road Tract. Figure 2 also shows the interpreted results of the MAG and EM. Figures 3 through 10 show interpreted seismic profiles.

1 FIELD SURVEY

Geophysical field work was carried out November 17 through 21, 2008, by two geophysicists from NGA.

1.1 Task 1 – Mapping Lateral Limits of Debris

Task 1 included both an electromagnetic (EM) survey utilizing the Geonics EM31 terrain conductivity meter and a magnetic (MAG) survey utilizing a Geometrics G858G

magnetometer/gradiometer. Both sets of data were acquired on a 50-foot line spacing in order to map the debris limits without locating every small isolated pocket of debris.

1.1.1 Magnetic Data Acquisition

The MAG survey was conducted using a Geometrics G858G cesium magnetometer/gradiometer. This instrument was run in the "continuous" sampling mode, recording the magnetic field at 0.1 second intervals (approximately 0.5 feet). Two magnetic sensors spaced 0.5 meters apart, one above the other, were used to obtain the vertical magnetic gradient. Nominal line spacing for the MAG survey was 50 feet. Magnetic survey lines are shown in Figure 2 and the magnetometer data plots are presented in Appendix A.

1.1.2 EM Data Acquisition

EM data were acquired using a Geonics EM31 terrain conductivity meter. Both quadrature-phase (conductivity) and in-phase data were recorded. Nominal line spacing for the EM survey was also 50 feet. Data were recorded at a 0.1 second sample rate corresponding to about 0.5 feet at a normal walking pace.

A cellular communications antenna at the southern boundary of the site interfered strongly with the EM31 signal within 500 feet of the tower.

1.2 GPS Survey Control

Location data were acquired simultaneously with the magnetic and EM31 data acquisition using a Trimble AG132 GPS system. That system provides visual feedback to the operator to assure that he is "on line" and that the survey area is covered uniformly. This system is a real time differential global positioning system (DGPS) using the Omnistar satellite subscription service for the differential correction. The DGPS system has "sub-meter" accuracy; hence positions are generally good to ±1-2 feet, but may be off by 2-3 feet.

Map coordinates given on the Figures and Appendices are Central Oregon Coordinate System, 1983 North American Datum (NAD83), with distances in international feet. Projection parameters were obtained from the Deschutes County web site and are given below in Table 1.

Table 1: Central Oregon Coordinate System

Projection	Transverse Mercator
Units	3.280839895 (international feet)
Datum	NAD83
Spheroid	GRS80
Scale Factor at Central Meridian	1.0001600
Longitude of Central Meridian	W 121° 17' 00.00"
Latitude of Origin	N 43° 00' 00.00"
False Easting	3,300,000.00 feet
False Northing	0
source: http://road.deschutes.org/cogrid/default.aspx	

1.3 Task 2 – Mapping Vertical Extent of Debris

Seismic refraction data were acquired following the EM and MAG survey. A Geometrics 24 channel Geode system with 14 Hz geophones was used with geophone spacing of 10 feet. Shot spacing was generally 40 feet, with a nominal 9 shots per spread. Off end shots were adjusted to fit site. A 30 pound sleeve hammer was used as the energy source, generally stacking from 3 to 8 hammer blows per shot record.

Eight seismic profiles were acquired, Lines 1, 2 and 4 to 9. Seismic data were processed using SeisImager software from Geometrics and the OYO Corporation. Two layer interpretations are presented in Figures 4 through 11.

2 RESULTS AND INTERPRETATION

Magnetic (MAG) and electromagnetic (EM) data were processed using the Geosoft OASISmontaj™ Data Processing and Analysis software system. A 'landfill' filter was devised to identify MAG and EM readings which differed substantially from ambient, background levels. The resulting areas showing a response indicative of landfill debris are included in the Appendix, shown in Figures A1 and A2. Because of the broad line spacing (50 feet) and the chaotic nature of the instrument response in landfill debris, the data were not gridded.

2.1 Magnetic Data Results

Two criteria were used to identify areas of landfill debris:

1) For the total magnetic field, the ambient background level was between 52000 nanotesla (nT) and 53500 nT (52000 <TOP<53500). This corresponds to approximately the 10th and 90th percentile points in the data. The International Geomagnetic Reference Field (IGRF) at the time and location of the survey was 52907 nT. The IGRF is the ambient geomagnetic field strength which may be perturbed by local geology.

2) For the magnetic gradient data, the ambient background level was identified as areas with the vertical magnetic gradient with an absolute value less than 150 nanotesla (nT) (-150nT<VGRAD<+150nT). The vertical magnetic gradient is measured by taking the difference in the magnetic field as measured by the two sensors spaced 0.5 meters apart, one above the other. Anomalies will have both high and low values associated with them.

Total magnetic field anomalies may be due to deeper, or broader features while having a small vertical gradient. Hence, an irregular surface on near-surface volcanics will have a magnetic response not unlike landfill debris. However, these geologic variations normally do not have a strong gradient anomaly. For the interpretation or the landfill limits, we have relied more heavily on the vertical magnetic gradient and the EM response.

Areas where the magnetic response was outside these ranges are identified on Figures A1 and are interpreted as landfill debris. Some interpretation is involved in drawing the anomaly outlines as the limits using the two criteria are not coincident.

2.2 Electromagnetic Data Results

The ambient background ground apparent conductivity at the site was identified as 5 to 8.5 millisiemen/meter (mS/m). Any deviation, positive or negative, from that background (5<Q<8.5) indicates the presence of a metallic conductor or anomalous ground. We have also defined a broader limit (4<Q<12) which is also shown on Figure A2 as"Strong Magnetic Anomaly." Areas where the EM31 response was outside that range are identified on Figures 2 and A2. Those areas are interpreted as landfill debris.

As noted above, a cellular communications antenna at the southern boundary of the site interfered strongly with the EM31 signal within 500 feet of the tower. That interference manifests itself as an oscillating quadrature and in-phase response with a period on 1 to 5 seconds. Amplitude of the oscillations increases approaching the cell tower, but is

approximately ±2-3 mS/m at 300 feet. Hence, EM31 data was not used to interpret landfill limits within 500 feet of the tower.

2.3 Seismic Refraction Results

Seismic data were processed using SeisImager software from Geometrics and the OYO Corporation. Two layer interpretations are presented in Figures 3 through 10.

Refractor (layer 2) velocities are very slow for the basaltic bedrock. Refractor velocities ranged from 2,000 ft/sec to 3,200 ft/sec which is indicative of compacted soils or highly fractured and/or weathered bedrock.

Landfills are typically a difficult environment for seismic data acquisition. Unconsolidated or poorly consolidated materials tend to attenuate the seismic signal rapidly. The heterogeneous, chaotic nature of the fill tends to scatter the energy and introduces small scale velocity variations which cannot readily be resolved. This landfill was no exception to the norm. However, other geophysical methods are similarly affected by the chaotic nature of the fill, and refraction remains one of the preferred techniques to estimate thickness of landfill debris.

The interpretation of seismic Line 9 in particular is in disagreement with the test pit data. Data on that line were highly attenuated with a low signal-to-noise ratio. On Line 9 there is a hint of a higher velocity refractor at greater depth which cannot be resolved with the current dataset.

3 SUMMARY

Areas interpreted as landfill debris, shown on Figure 2, are well defined by the MAG and EM. Those areas correlate strongly with the areas of grassy, younger vegetation. However, in a few instances, the limits or the grassy areas were somewhat larger than the limits of the debris. Outside those fill areas there were occasional occurrences of scattered debris, as evidenced by isolated anomalies in the MAG and/or EM data.

The seismic sections indicate a range of thickness of fill from a few feet to almost 30 feet. The refractor velocities, from 2,100 ft/sec to 3,200 ft/sec, are indicative of highly weathered and fractured bedrock or well-compacted soils.

4 CLOSURE

Geophysical surveys performed as part of this survey may or may not successfully detect or delineate any or all subsurface objects or features present. Locations, depths and scale of buried objects or subsurface features mapped as a result of this survey are a result of

geophysical interpretation only, and should be considered as confirmed, actual, or accurate only where recovered by excavation or drilling.

Northwest Geophysical Associates, Inc. has performed this work in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practicing under similar conditions. No warranty, express or implied, beyond exercise of reasonable care and professional diligence, is made. This report is intended for use only in accordance with the purposes of the study described within.

Thank you for the opportunity to work with PBS and DSL on this project. Should you have questions or need additional information please call at your convenience.

Yours truly,

Northwest Geophysical Associates, Inc.

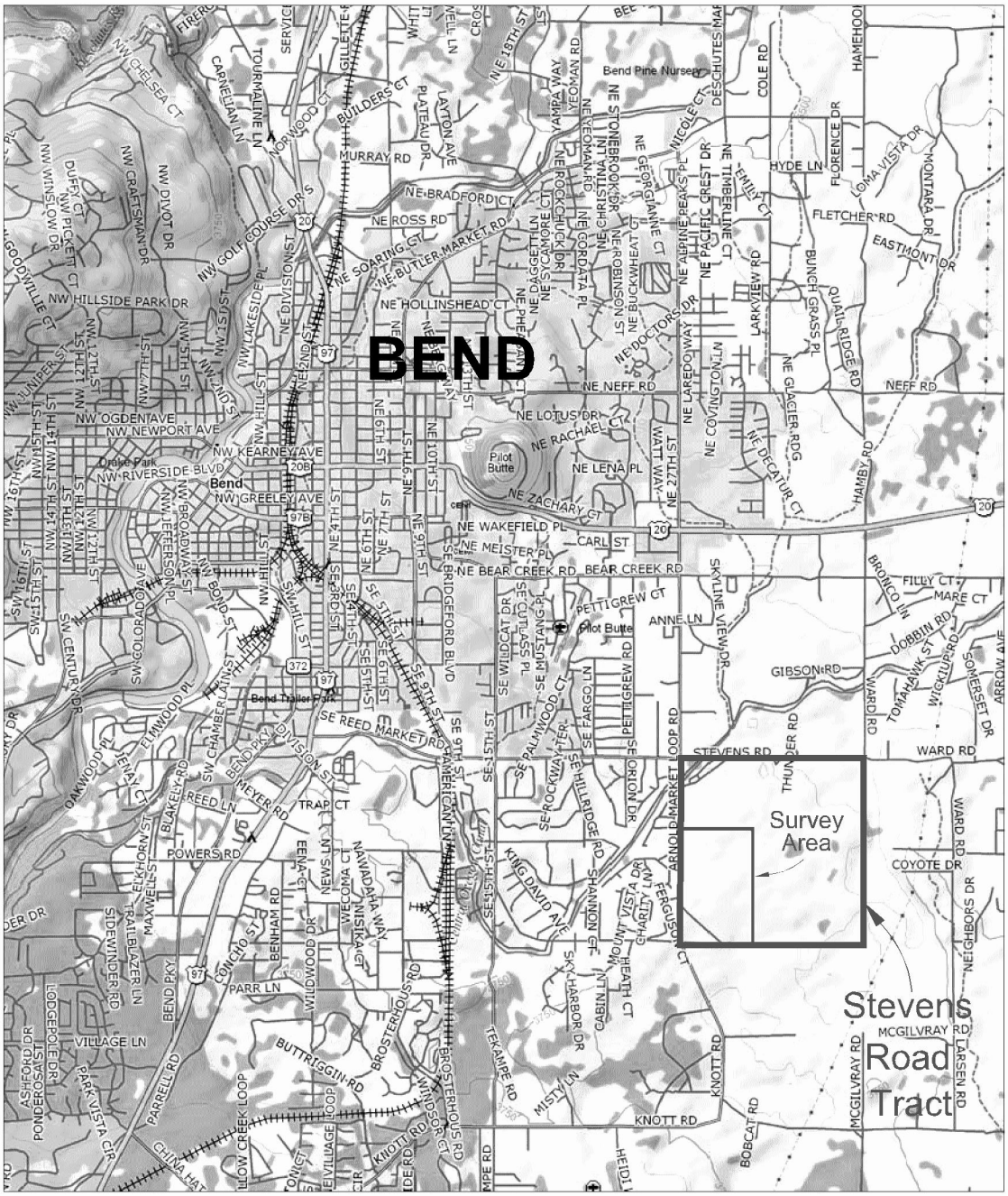
Rowland B. French, R.G.
President

Attachments:

Figure 1	Site Location
Figure 2	Geophysical Interpretation Summary
Figures 3-10	Interpreted Seismic Profiles, Lines 1-2, 4-9
Appendix A -	MAG and EM Data Plots

FILE: NGA Stevens Tract Report.rev02.doc
PROJECT: 689

NGA Project #: 689 FILE: STEVENS_TRACT_SITE.DWG DATE: NOVEMBER_2008 REVISION: C-30-DEC-08



from: DeLorme 3-D Topoquads

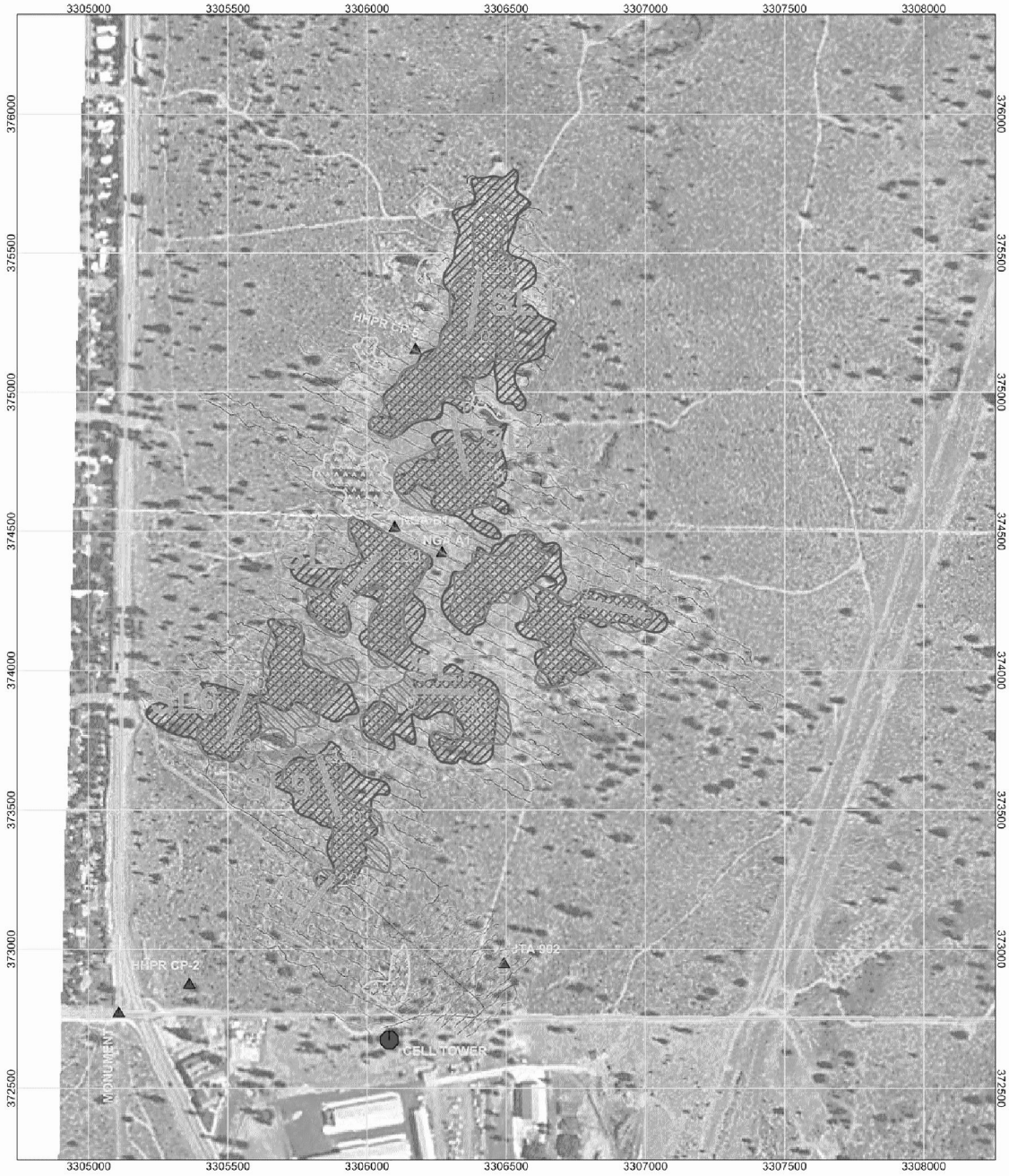
0 0.5 1
SCALE (miles)

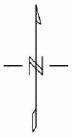
FIGURE 1

Site Location

Geophysical Investigation
Stevens Road Tract
Bend, Oregon

Prepared by:
Northwest Geophysical Associates, Inc.
P.O. Box 1063, Corvallis, Oregon 97339





LEGEND

- EM31 DATA PATH
- EM31 ANOMALOUS AREA (LANDFILL DEBRIS)
- MAGNETICS DATA PATH
- MAG ANOMALOUS AREA (LANDFILL DEBRIS)
- MAG ANOMALOUS AREA (SHALLOW VOLCANICS)
- SL3 — SEISMIC LINE LOCATION
- NGA B2 ▲ — DGPS MAPPED REFERENCE POINT

250 0 250 500
(feet)
NAD83 / *Central Oregon

FIGURE 2

GEOPHYSICAL INTERPRETATION SUMMARY

Geophysical Investigation
Stevens Road Tract
Bend, Oregon

Prepared by:

Northwest Geophysical Associates, Inc.

NGA Project #: 689 FILE: SL-01-Seis_Line_Frame.grf REVISION: D-29-DEC-2008

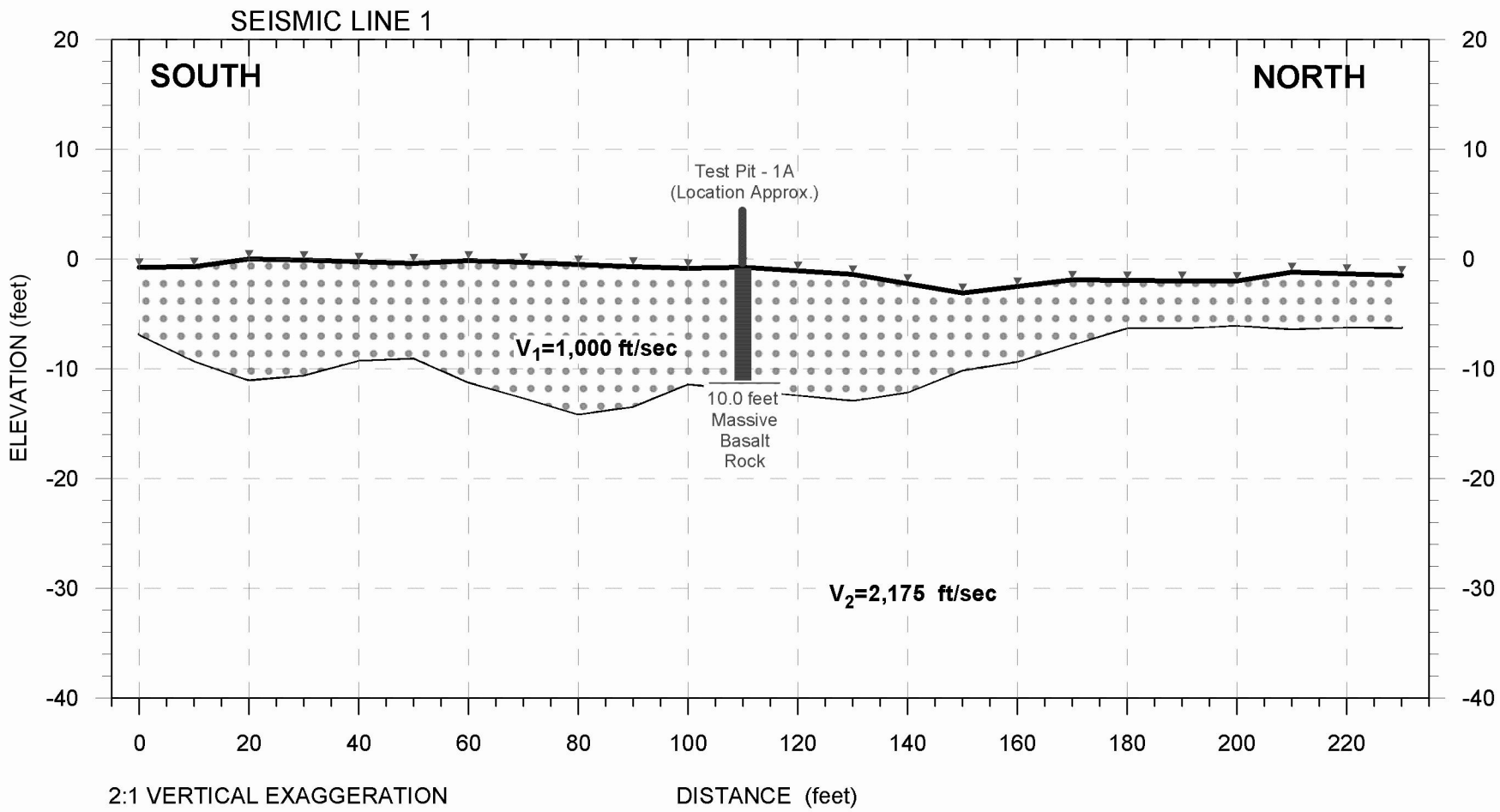


FIGURE 3

LINE 1
INTERPRETED SEISMIC PROFILE

Geophysical Investigation
Stevens Road Tract
Bend, Oregon

LEGEND

- GEOPHONES
- GROUND SURFACE
- LAYER 2

Prepared by:

Northwest Geophysical Associates, Inc.

NGA Project #: 689 FILE: SL-02-Seis_Line_Frame.grf REVISION: D-29-DEC-2008

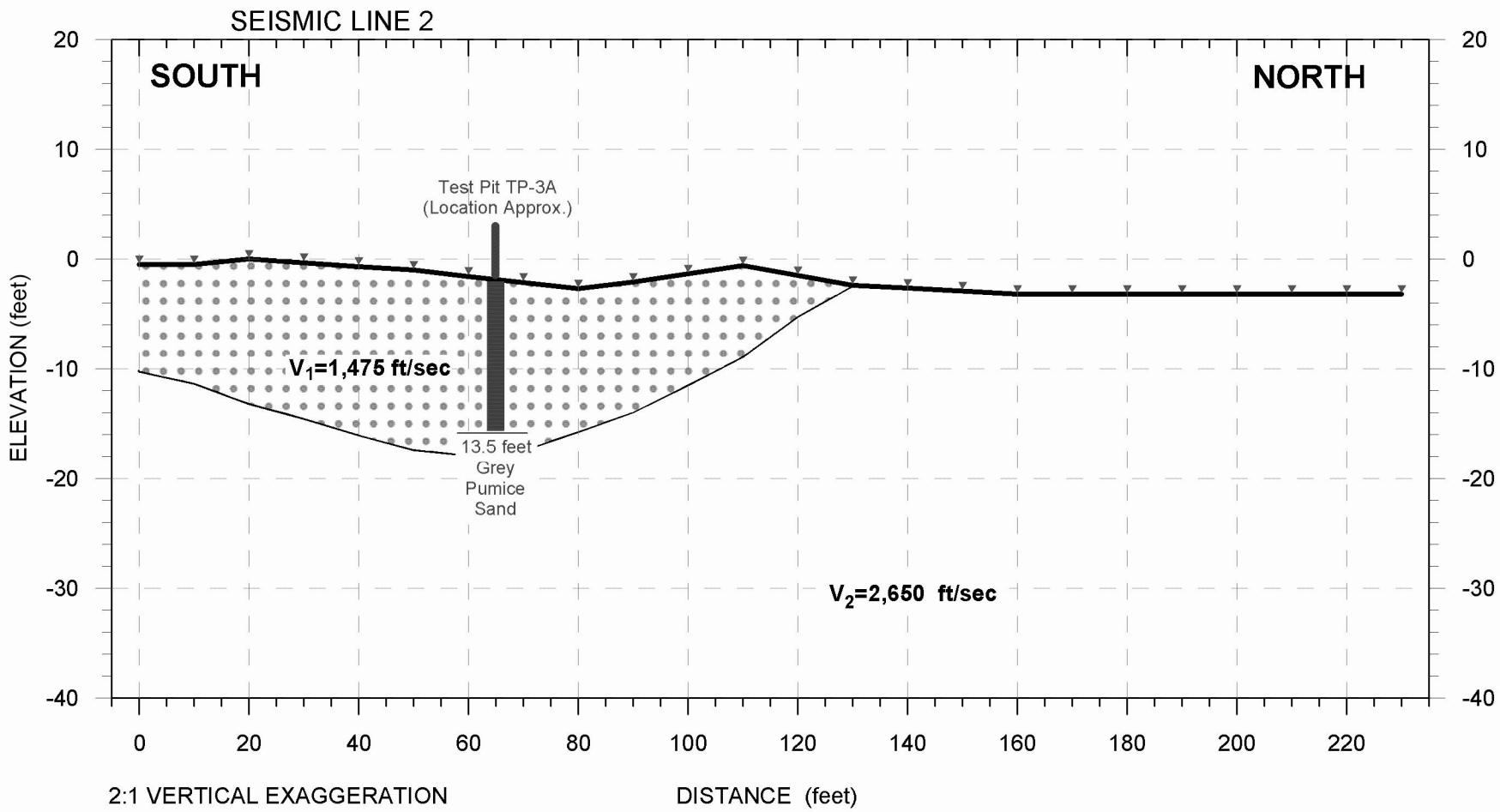


FIGURE 4

LINE 2
INTERPRETED SEISMIC PROFILE

Geophysical Investigation
Stevens Road Tract
Bend, Oregon

LEGEND
GEOPHONES
GROUND SURFACE
LAYER 2

Prepared by:
Northwest Geophysical Associates, Inc.

NGA Project #: 689 FILE: SL-04-Seis_Line_Frame.grf REVISION: D-29-DEC-2008

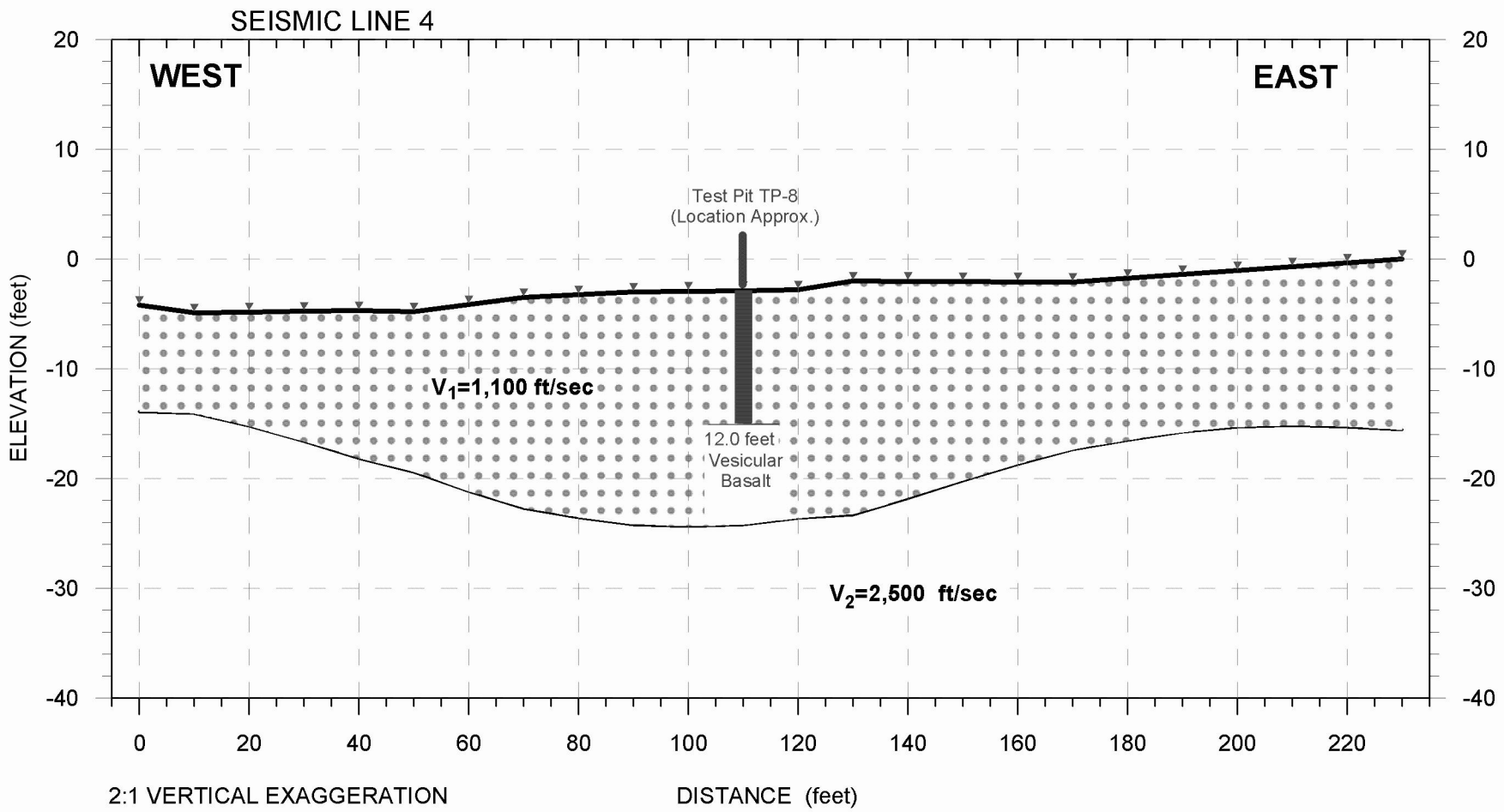


FIGURE 5

LINE 4
INTERPRETED SEISMIC PROFILE

Geophysical Investigation
Stevens Road Tract
Bend, Oregon

LEGEND
GEOPHONES
GROUND SURFACE
LAYER 2

Prepared by:
Northwest Geophysical Associates, Inc.

NGA Project #: 689 FILE: SL-05-Seis_Line_Frame.grf REVISION: D-29-DEC-2008

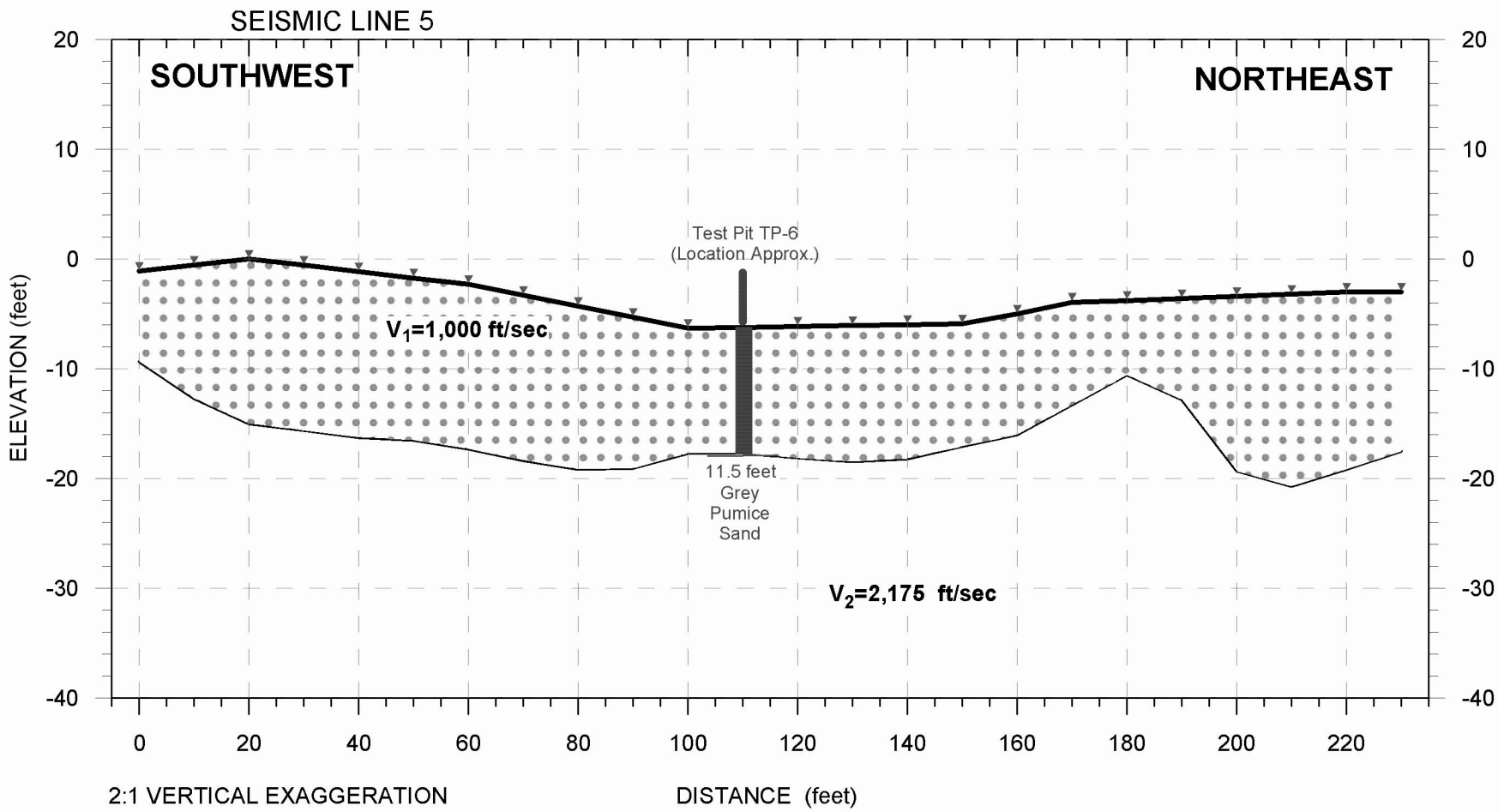


FIGURE 6

LINE 5
INTERPRETED SEISMIC PROFILE

Geophysical Investigation
Stevens Road Tract
Bend, Oregon

LEGEND
GEOPHONES
GROUND SURFACE
LAYER 2

Prepared by:
Northwest Geophysical Associates, Inc.

NGA Project #: 689 FILE: SL-06-Seis_Line_Frame.grf REVISION: D-29-DEC-2008

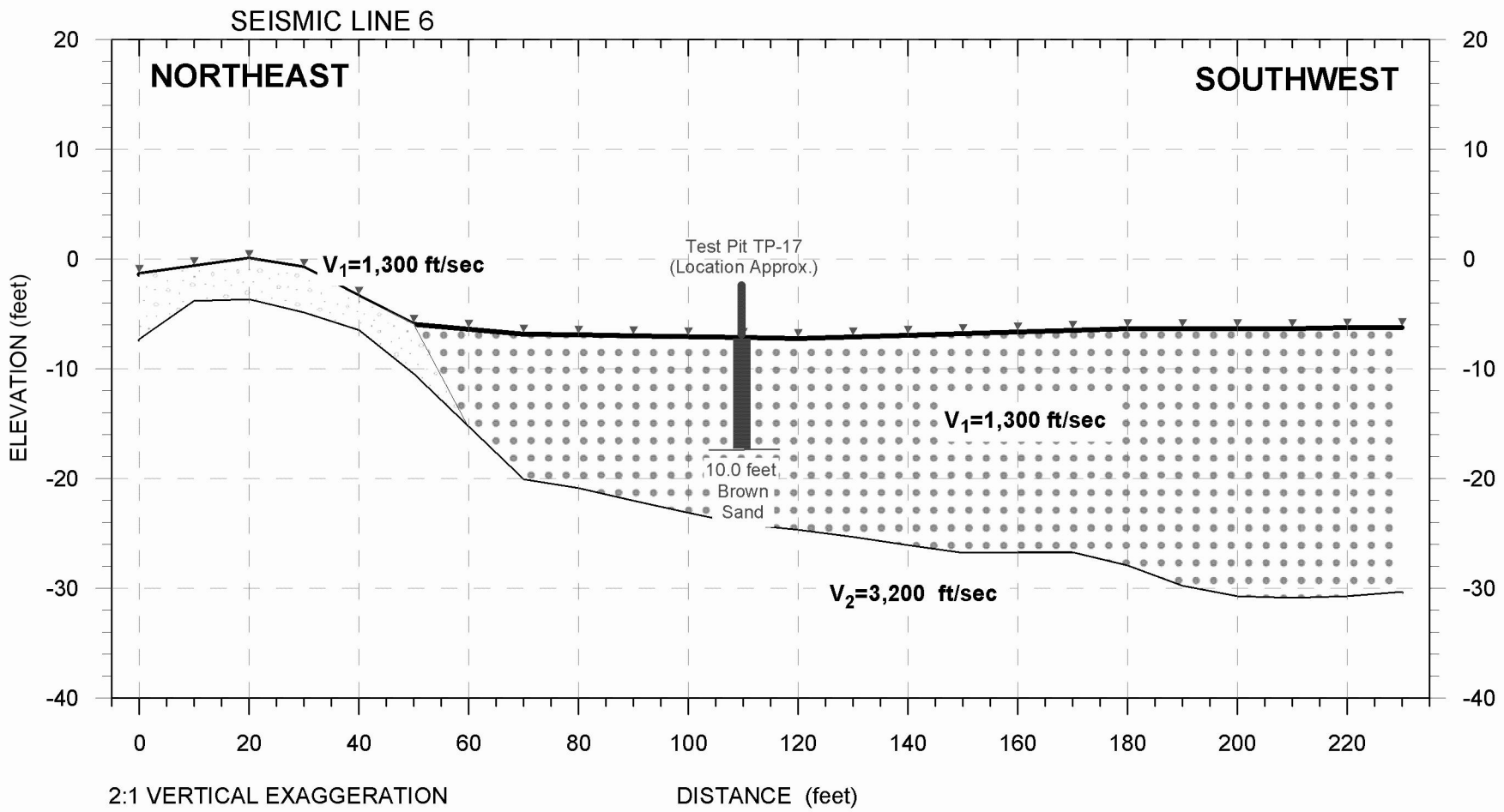


FIGURE 7

LINE 6
INTERPRETED SEISMIC PROFILE

Geophysical Investigation
Stevens Road Tract
Bend, Oregon

LEGEND

- GEOPHONES
- GROUND SURFACE
- LAYER 2
- Line/Scatter Plot 9

Prepared by:

Northwest Geophysical Associates, Inc.

NGA Project #: 689 FILE: SL-07-Seis_Line_Frame.grf REVISION: D-29-DEC-2008

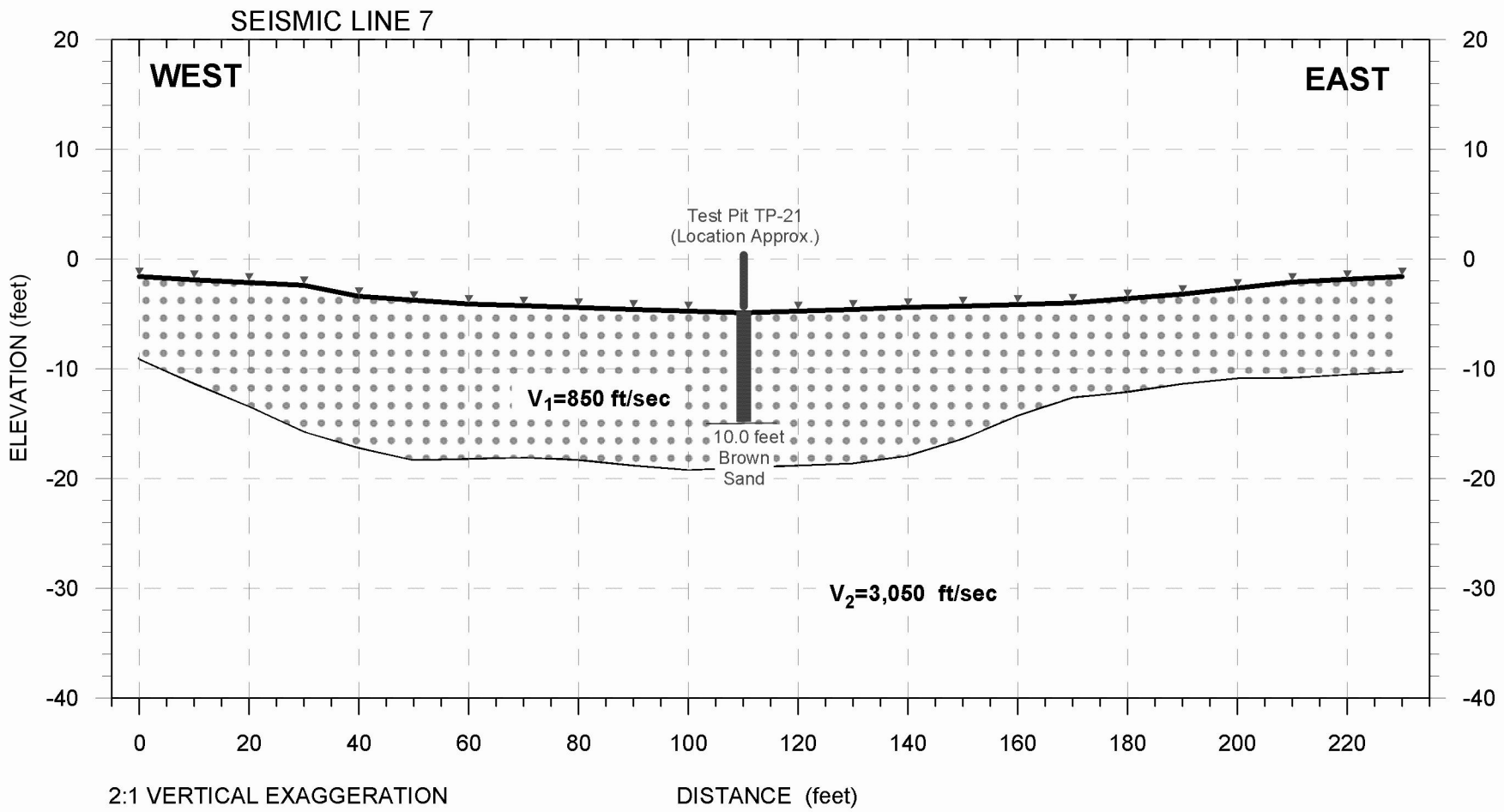


FIGURE 8

LINE 7
INTERPRETED SEISMIC PROFILE

Geophysical Investigation
Stevens Road Tract
Bend, Oregon

LEGEND
GEOPHONES
GROUND SURFACE
LAYER 2

Prepared by:
Northwest Geophysical Associates, Inc.

NGA Project #: 689 FILE: SL-08-Seis_Line_Frame.grf REVISION: D-29-DEC-2008

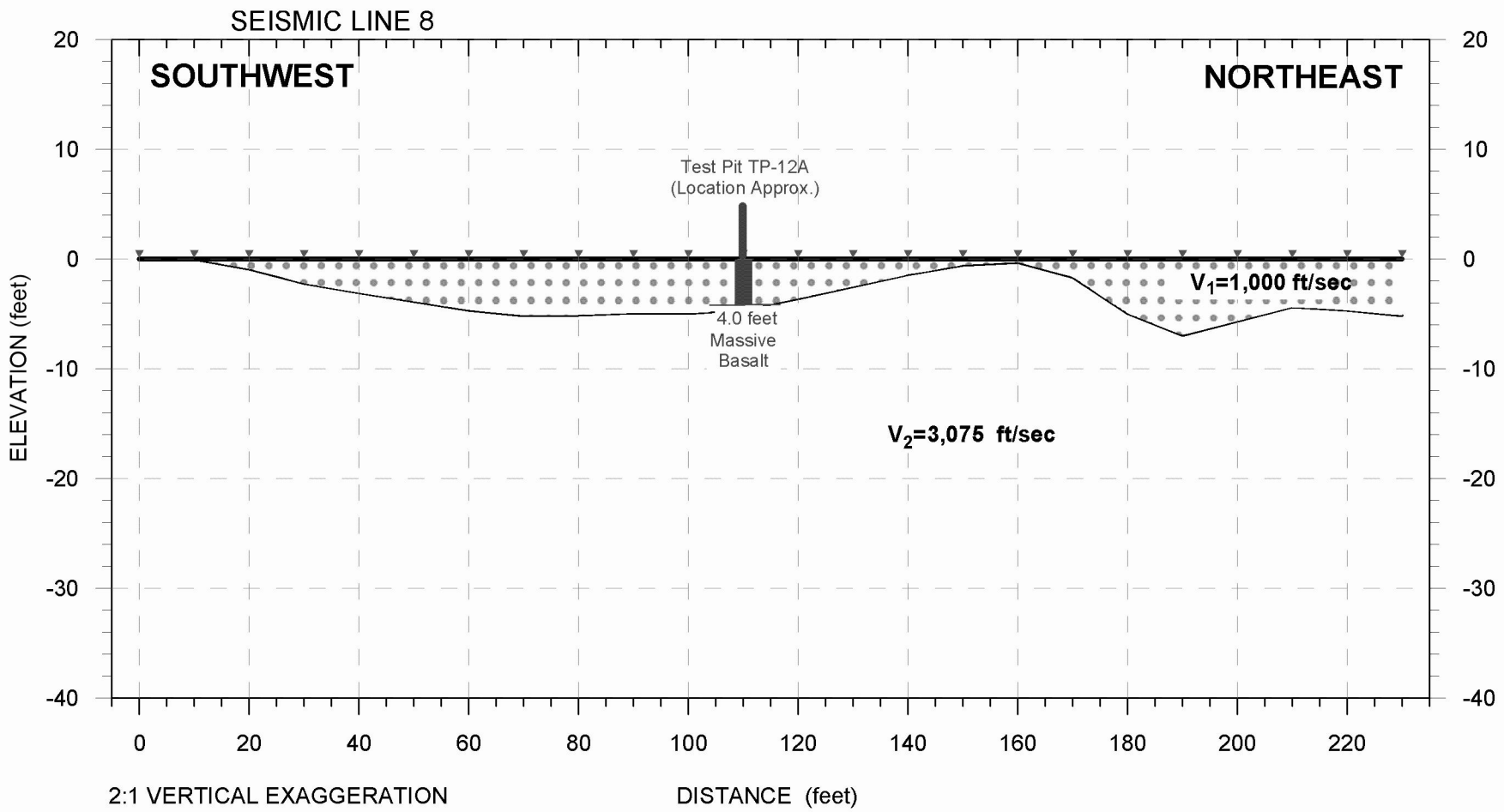


FIGURE 9

LEGEND

GEOPHONES

GROUND SURFACE

LAYER 2

LINE 8

INTERPRETED SEISMIC PROFILE

Geophysical Investigation
Stevens Road Tract
Bend, Oregon

Prepared by:

Northwest Geophysical Associates, Inc.

NGA Project #: 689 FILE: SL-09-Seis_Line_Frame.grf REVISION: D-29-DEC-2008

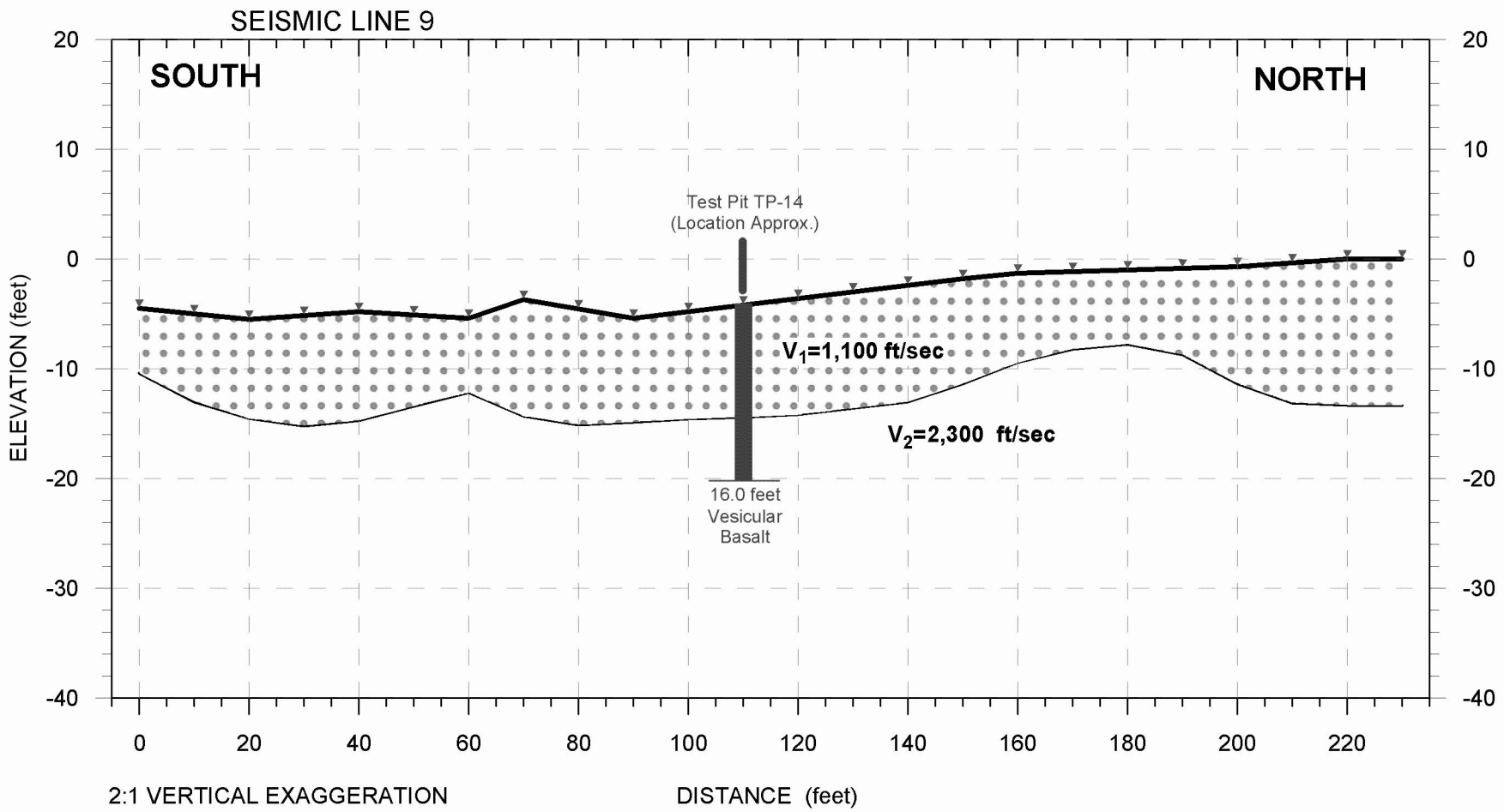


FIGURE 10

LINE 9
INTERPRETED SEISMIC PROFILE

Geophysical Investigation
Stevens Road Tract
Bend, Oregon

LEGEND

- GEOPHONES
- GROUND SURFACE
- LAYER 2

Prepared by:

Northwest Geophysical Associates, Inc.

Geophysical Site Investigation

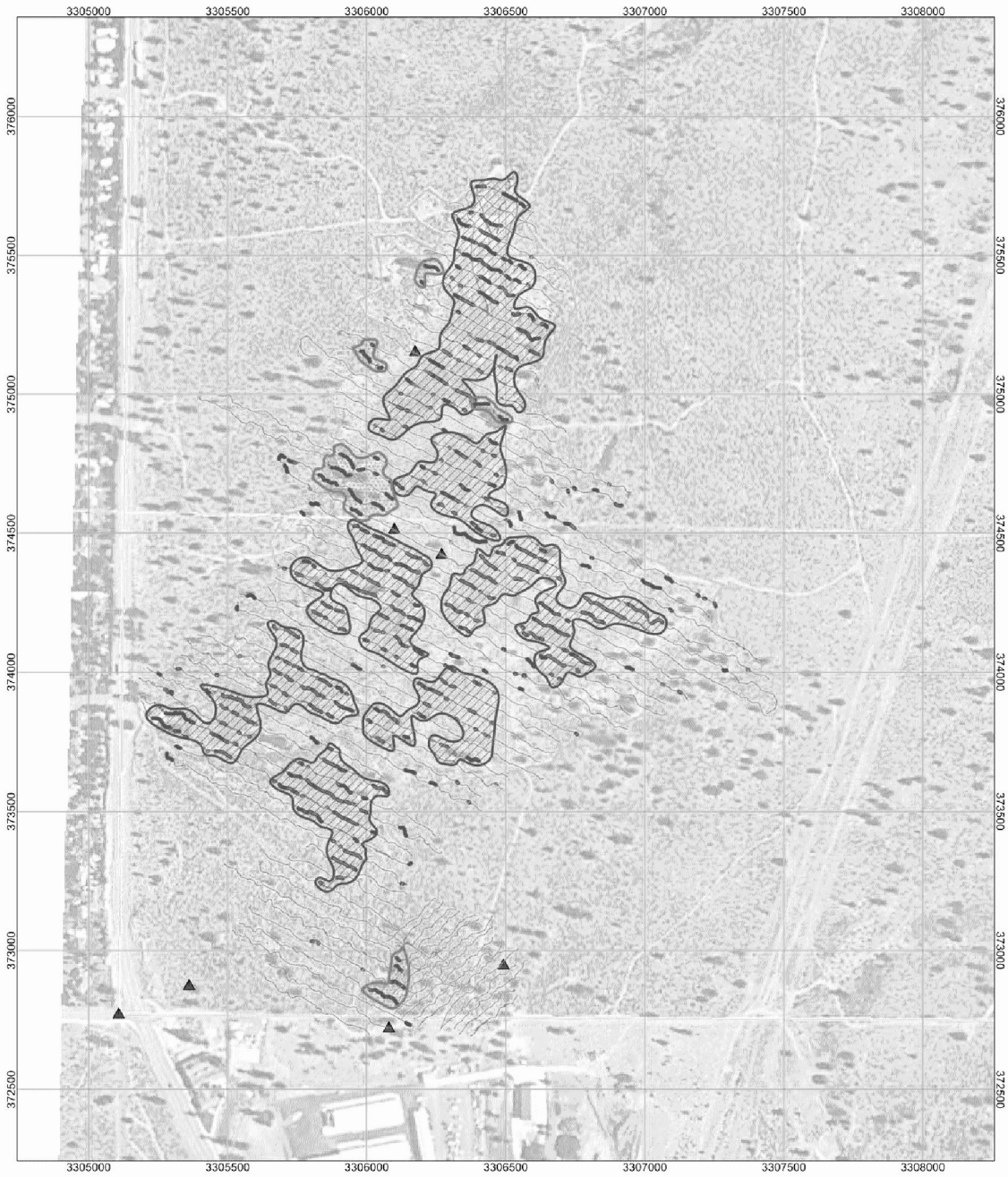
Stevens Road Tract

Bend, Oregon

APPENDIX A

Geophysical Data Plots

Figure A1	Magnetic Data Plot
Figure A2	EM31 Data Plot



LEGEND

- MAGNETICS DATA PATH
- TOTAL MAG FIELD ANOMALY (LANDFILL DEBRIS)
- VERTICAL GRADIENT MAG ANOMALY (LANDFILL DEBRIS)
- MAG ANOMALOUS AREA (LANDFILL DEBRIS)
- MAG ANOMALOUS AREA (SHALLOW VOLCANICS)
- NGA B2 ▲ DGPS MAPPED REFERENCE POINT

250 0 250 500
(feet)
NAD83 / *Central Oregon

FIGURE A1

Prepared by:

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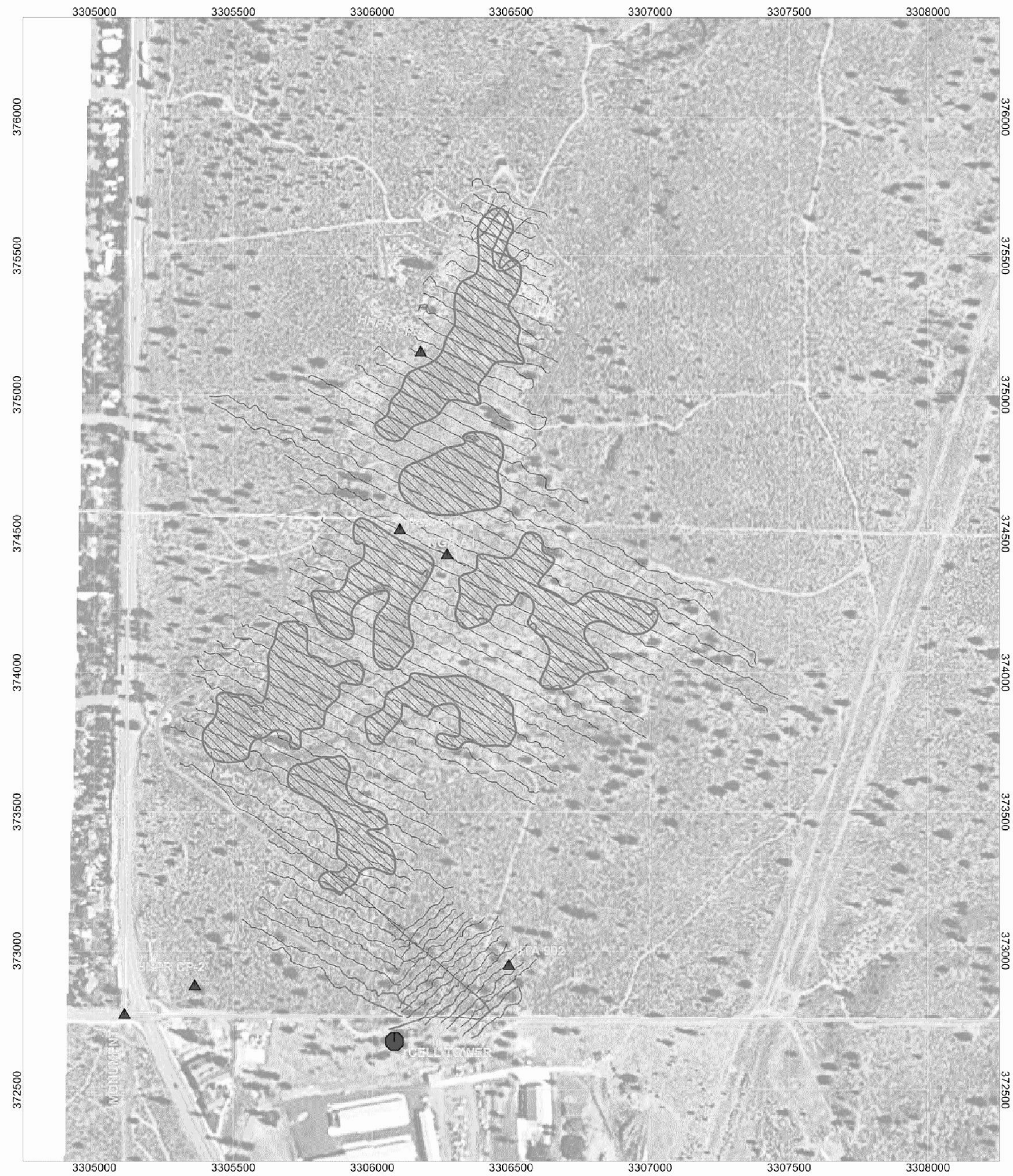
MAGNETIC DATA PLOT
Geophysical Investigation
Stevens Road Tract
Bend, Oregon



250 0 250 500

(feet)

*NAD83 / *Central Oregon*

LEGEND

EM31 DATA PATH

MODERATE EM31 ANOMALY (POSSIBLE LANDFILL DEBRIS)

STRONG EM31 ANOMALY (LANDFILL DEBRIS)

EM31 ANOMALOUS AREA (LANDFILL DEBRIS)

NGA B2 DGPS MAPPED REFERENCE POINT

FIGURE A2

Prepared by:

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EM31 DATA PLOT

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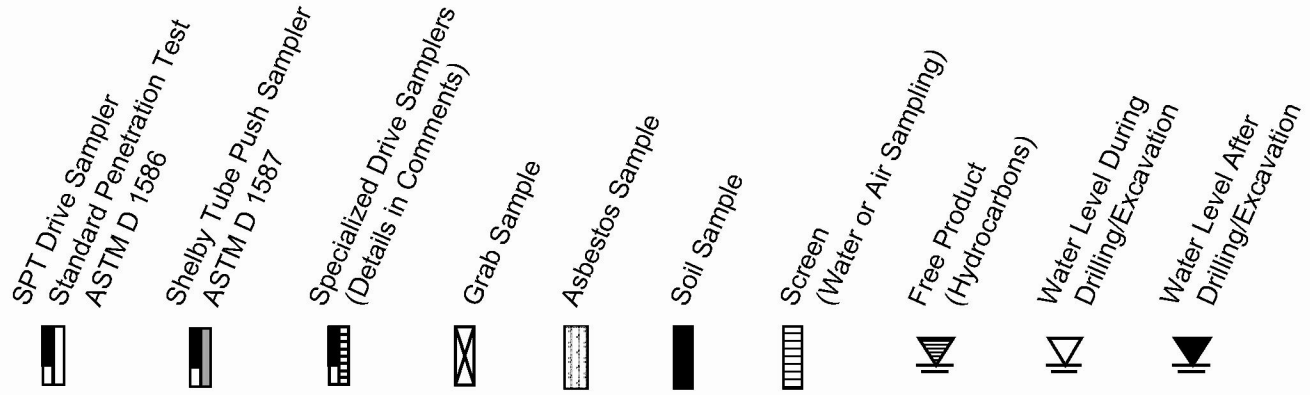
Stevens Road Tract
Bend, Oregon

APPENDIX C

Test Pit Soil Logs **C-1**
Vapor Probe Logs **C-2**

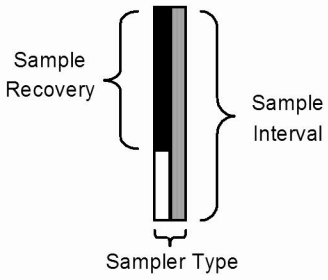
Key To Test Pit and Boring Log Symbols

SAMPLING DESCRIPTIONS[1]

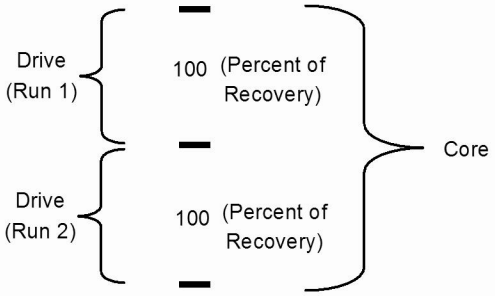


LOG GRAPHICS

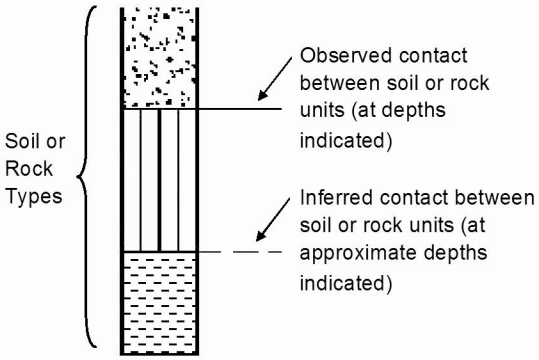
Sampling Symbols



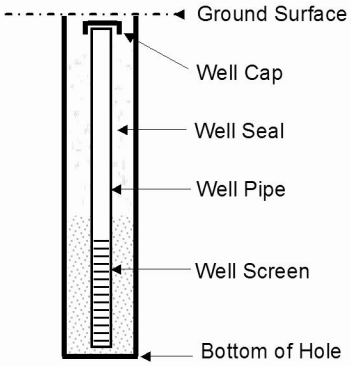
Direct Push, Geoprobe®, Sonic Drilling



Soil and Rock



Well Detail



ENVIRONMENTAL TESTING EXPLANATIONS

ATD	At Time of Drilling
BGS	Below Ground Surface
MW	Monitoring Well (Water Sampling)
NWTPH-Gx	Gasoline-Range Petroleum Hydrocarbon Testing
OD	Outside Diameter
PID	Photoionization Detector Headspace Analysis
PPM	Parts Per Million
VOC	Volatile Organic Compounds
ND	Not Detected
NS	No Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	High Sheen

[1]Note: Details of soil and rock classification systems are available on request.

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DEPARTMENT OF STATE LANDS
STEVENS ROAD TRACT
BEND, OREGON

PBS PROJECT NUMBER:
80416.000 Task 2

TEST PIT TP-1A

TEST PIT TP-1A LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
		Surface Conditions: Sparse grass					
0.0		Loose, tan, fine SAND with some silt and trace gravels; dry, gravel is fine and rounded, rootlets to 0.25 foot bgs					Moderate caving observed to the depth explored
		LANDFILL DEBRIS: wood, plastic sheeting					
2.0		Loose, white medium SAND mixed with brown, silty SAND; dry		0	S-1		NS
		LANDFILL DEBRIS: <u>Household material:</u> glass/plastic/aluminum containers, newspaper (1968), general waste <u>Building material:</u> scrap metal and dimensional wood, fiberglass, chain link fence, carpeting, sheet flooring (A001), wall covering (A002) <u>Ranch material:</u> wood fence post, barbed wire, metal tub <u>Automotive:</u> tires (removed)					
4.0							
6.0					A001		
					A002		
8.0							
				0	S-2		NS
10.0		LANDFILL DEBRIS mixed with loose, brown, silty fine sand; damp					No groundwater seepage observed to the depth explored
		Final depth 10.0 feet bgs; test pit backfilled with excavated material and compacted					
12.0							
14.0							
16.0							
18.0							
20.0							

EXCAVATION METHOD: Backhoe
EXCAVATION BY: Deschutes County
COMPLETED: 12/01/08
LOGGED BY: D. Hamilton/A. Fischer

<u>NOTE:</u> 1st attempt (TP-1) located 20' SW of TP-1A with refusal at 4.6' bgs. No debris encountered.

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TEST PIT TP-2

TEST PIT TP-2 LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Sparse grass & pea gravel	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Coarse SAND; rounded, sparse grass					Moderate caving observed to the depth explored
		Loose, brown, silty fine SAND with some fine gravels; dry, gravel is subrounded, rootlets to 0.4 foot bgs		0	S-1	■	NS
2.0		LANDFILL DEBRIS Household material: glass/plastic/aluminum/tin containers, paper products, aerosol cans, cloth, styrofoam, newspaper and documents (1969-1972), general waste Building material: scrap metal and dimensional wood, wall paneling, PVC piping Ranch material: veterinary medical bottle Automotive: tires (removed), license plate, empty motor oil containers					
4.0							
6.0							
8.0		LANDFILL DEBRIS mixed with loose, brown, fine to medium SAND with some silt; damp		0	S-2	■	NS
		Vesicular BASALT					
10.0		Final depth 9.3 feet bgs due to refusal on vesicular basalt; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored
12.0							
14.0							
16.0							
18.0							
20.0							

EXCAVATION METHOD: Backhoe
EXCAVATION BY: Deschutes County
COMPLETED: 12/01/08
LOGGED BY: D. Hamilton/A. Fischer

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TEST PIT TP-3A

TEST PIT TP-3A LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Dense, tan, silty fine SAND; dry, rootlets to 1.0 foot bgs					Moderate caving observed to the depth explored
		LANDFILL DEBRIS: Household material: glass/plastic/aluminum containers, hot water heater (removed), fire extinguisher, garden hose, shoes/boots, rug, wash tub, paint rollers, newspaper (1972), plastic sheeting Building material: scrap metal and dimensional wood, roofing (A003) Ranch material: scrap metal, tractor parts, veterinary medical bottle, fencing, barbed wire Automotive: metal and chrome body parts, tires (removed)					
2.0				0	S-1		NS (12/01/08)
4.0							
6.0							
8.0					A003		
10.0		Loose, brown, medium to coarse SAND with some silt; damp, pumiceous					
12.0							
				0.1	S-2		NS (12/04/08)
14.0		Final depth 13.5 feet bgs; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County

COMPLETED: 12/04/08
LOGGED BY: D. Hamilton/A. Fischer

NOTE: 1) Test Pit was originally excavated with backhoe. Excavator was used to deepen to total depth. 2) 1st attempt (TP-3) located 20' N of TP-3A, refusal on debris at 6.5' bgs. 3) Sample S-1 collected from TP-3.

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TEST PIT TP-4A

TEST PIT TP-4A LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Medium dense, tan, medium to coarse SAND; dry, subrounded, rootlets to 1.0 foot bgs					Moderate caving observed to the depth explored
		grades to loose, silty fine SAND		0	S-1		NS
2.0		LANDFILL DEBRIS: Household material: glass/plastic/aluminum/tin containers, plastic sheeting, washing machine (removed), "C" batteries, carpet, garden hose, general waste Building material: sheet flooring (A004) Automotive: tubes of battery additives, tires (removed), antifreeze containers					
4.0							
6.0					A004		
		LANDFILL DEBRIS mixed with loose, brown, fine to medium SAND with some silt; damp		0	S-2		NS
8.0		Vesicular BASALT					
		Final depth 8.5 feet bgs due to refusal on vesicular basalt; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored
10.0							
12.0							
14.0							
16.0							
18.0							
20.0							

EXCAVATION METHOD: Backhoe
EXCAVATION BY: Deschutes County
COMPLETED: 12/01/08
LOGGED BY: D. Hamilton/A. Fischer

NOTE: 1) 1st attempt (TP-4) located 20' SW of TP-4A. Refusal on debris at 6.5' bgs. 2) Sample S-1 collected from TP-4.

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TEST PIT TP-5

TEST PIT TP-5 LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Loose, brown, medium to coarse SAND with some silt; dry, subrounded, rootlets to 0.5 foot bgs					Moderate caving observed to the depth explored
2.0		LANDFILL DEBRIS: Household material: glass/plastic/aluminum containers, plastic sheeting, carpet, general waste Building material: scrap dimensional wood, remnant flooring, fiberglass Automotive: tires (removed), metal body parts, tube (removed)		0	S-1	■	NS (12/01/08)
4.0							
6.0							
8.0							
10.0		Loose, brown, silty fine SAND; damp					
12.0				0	S-2	■	NS (12/4/08)
14.0		Final depth 13.0 feet bgs; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/04/08
LOGGED BY: D. Hamilton/A. Fischer

NOTE: Test pit was originally excavated with a backhoe. Excavator was used to deepen to total depth.

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TEST PIT TP-6

TEST PIT TP-6 LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		LANDFILL DEBRIS: (rootlets to 0.25 foot bgs) Household material: glass/plastic containers, washing machine (removed), aerosol cans, garden hose, paper products, newspaper (1971), carpet, plastic pool, styrofoam, cloth material, shoes/boots, plastic sheeting, general waste Building material: scrap metal and dimensional wood, sheet flooring Automotive: tires (removed), oil filter		0	S-1	■	Moderate caving observed to the depth explored NS (12/01/08)
2.0							
4.0							
6.0							
8.0							
10.0		Loose, gray, medium to coarse SAND with some silt; damp, pumiceous		0	S-2	■	NS (12/04/08)
12.0		Final depth 11.5 feet bgs; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored
14.0							
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/04/08
LOGGED BY: D. Hamilton/A. Fischer

NOTE: Test pit was originally excavated with backhoe. Excavator was used to deepen to total depth.

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TEST PIT TP-7A

TEST PIT TP-7A LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Loose, tan, medium to coarse SAND with some silt; dry, subrounded, rootlets					Severe caving observed to the depth explored
		LANDFILL DEBRIS: Household material: glass/tin/aluminum containers, charred/burned waste, plastic sheeting, bed springs Building material: concrete rubble, scrap metal and dimensional wood, boulders Ranch material: metal fence post, large animal bones, barbed wire Automotive: oil filter, inner-tubes and tires (removed), automotive batteries		0	S-1	■	NS
2.0							
4.0							
6.0							
8.0		LANDFILL DEBRIS mixed with loose, gray, medium sand; damp, pumiceous					
10.0				0	S-2	■	NS
		Vesicular BASALT					
12.0		Final depth 11.0 feet bgs due to refusal on vesicular basalt; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored
14.0							
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/04/08
LOGGED BY: D. Hamilton/A. Fischer

NOTE: 1st attempt (TP-7) located 25' N of TP-7A. Backhoe maximum extent at 9.0'. Still in debris. Excavator used at TP-7A to reach total depth.

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TEST PIT TP-8

TEST PIT TP-8 LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Medium dense, tan, silty fine SAND; dry, rootlets to 0.25 foot bgs		0	S-1		Moderate caving observed to the depth explored NS (12/02/08)
2.0		LANDFILL DEBRIS: Household material: glass/plastic/tin/aluminum containers, washing machine (removed), shoes/boots, carpeting, styrofoam, cloth, billfold, newspaper (1971), plastic sheeting, bed spring, general waste Building material: scrap metal and dimensional wood, fiberglass, wall covering, sheet floor covering (A005), composition shingles (A006) Ranch material: animal syringe, metal fencing, metal tractor parts Automotive: inner tubes and tires (removed)			A005 A006		
4.0							
6.0							
8.0							
10.0							
12.0		LANDFILL DEBRIS mixed with loose, brown, fine to medium SAND with some silt; damp Vesicular BASALT		1.7	S-2		NS (12/02/08)
14.0		Final depth 12.0 feet bgs due to refusal on vesicular basalt; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/04/08
LOGGED BY: D. Hamilton/A. Fischer

NOTE: Test pit was originally excavated with backhoe. Excavator was used to deepen to total depth.

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TEST PIT TP-9

TEST PIT TP-9 LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Loose, tan, silty fine SAND; dry, rootlets to 0.25 foot bgs					Moderate caving observed to the depth explored
				0	S-1		NS (12/02/08)
2.0		LANDFILL DEBRIS: Household material: glass/plastic/aluminum/tin containers, cloth, shoes/boots, garden hose, printed material (1969-1970), paper products, playing cards, metal chair frame, plastic sheeting, aerosol spray paint cans, lawn mower-metal & tire parts (removed), pillow, carpet, general waste					
4.0		Building material: scrap metal and dimensional wood, sheet flooring (A007, A009), composition shingles (A008), paper insulation (A021) gypsum wallboard (A022), wood singles, wall paper, wood at 8.0 feet bgs					
6.0		Ranch material: metal fencing, woven rope, straw, steel cable, tree branches, and yard debris Automotive: metal body parts and tires (removed)			A007		
8.0							
10.0							
12.0							
14.0							
					A008 A009		
16.0					A021 A022		
		Final depth 17.0 feet bgs due to excavator maximum extent; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/04/08
LOGGED BY: D. Hamilton/A. Fischer

NOTE: Test pit was originally excavated with backhoe. Excavator was used to deepen to total depth.

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TEST PIT TP-10

TEST PIT TP-10 LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass & shrubs	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Loose to medium dense, tan, fine SAND with some silt; dry, rootlets to 1.5 feet bgs					
2.0				0	S-1	■	NS
		Massive BASALT					
4.0		Final depth 3.0 feet bgs due to refusal on massive basalt; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored No caving observed to the depth explored
6.0							
8.0							
10.0							
12.0							
14.0							
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/02/08
LOGGED BY: D. Hamilton/A. Fischer

NOTE: 2nd attempt (TP-10A) located 75' NNW of TP-10; refusal at 0.5' bgs. No debris encountered.

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TEST PIT TP-11

TEST PIT TP-11 LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass & shrubs	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Loose, tan, silty fine SAND; dry, rootlets to 1.5 feet bgs					
2.0				0	S-1	■	NS
4.0				0	S-2	■	NS
6.0		Massive BASALT					
		Final depth 6.0 feet bgs due to refusal on massive basalt; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored No caving observed to the depth explored
8.0							
10.0							
12.0							
14.0							
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/02/08
LOGGED BY: D. Hamilton/A. Fischer

NOTE: 2nd attempt (TP-11A) located 75' NE of TP-11. Refusal at 4.5' bgs with minor debris at 1.0' bgs. Encountered one clear and one brown glass container. Sample S-2 collected from TP-11A

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TEST PIT TP-12A

TEST PIT TP-12A LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
		Surface Conditions: Grass & shrubs					
0.0		Loose, tan, silty fine SAND; dry, rootlets to 0.25 foot bgs					
				0	S-1		NS
2.0		LANDFILL DEBRIS: Household material: glass/tin containers, tin bucket Building material: burned ridged roofing (A011), cement board (A010) Ranch material: minor amounts of animal bone Automotive: empty tin can container of brake fluid			A010 A011		
4.0		LANDFILL DEBRIS mixed with loose, brown, fine to medium SAND with some silt; damp		0	S-2		NS
		Massive BASALT					No groundwater seepage observed to the depth explored No caving observed to the depth explored
		Final depth 4.0 feet bgs due to refusal on massive basalt; test pit backfilled with excavated material and compacted					
6.0							
8.0							
10.0							
12.0							
14.0							
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/02/08
LOGGED BY: D. Hamilton/A. Fischer

NOTE: 1) TP12A was extended into 25' E to W trench. 2) 1st attempt (TP-12) located 25' ENE of TP-12A. Refusal at 3.0' bgs. No debris encountered.

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TEST PIT TP-13

TEST PIT TP-13 LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass & shrubs	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Loose to medium dense, tan, silty fine SAND; dry, rootlets to 0.5 foot bgs					
2.0				0	S-1	■	NS
4.0							
		Massive BASALT					
		Final depth 4.5 feet bgs due to refusal on massive basalt; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored No caving observed to the depth explored
6.0							
8.0							
10.0							
12.0							
14.0							
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/02/08
LOGGED BY: D. Hamilton/A. Fischer

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TEST PIT TP-14

TEST PIT TP-14 LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Dense, tan, silty fine SAND with trace gravels; dry, rootlets to 0.25 foot bgs		0	S-1	■	Moderate caving observed to the depth explored NS
2.0		LANDFILL DEBRIS: Household material: glass/plastic containers, batteries, washing machine (removed), paper products, newspaper (1968), credit card Building material: burned scrap metal and dimensional wood, fiberglass Automotive: tires (removed) empty containers of antifreeze					
4.0							
6.0							
8.0							
10.0							
12.0							
14.0		Loose, brown, fine to medium SAND with some silt; damp		0.3	S-2	■	NS
		Vesicular BASALT					
16.0		Final depth 16.0 feet bgs due to refusal on vesicular basalt; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/02/08
LOGGED BY: D. Hamilton/A. Fischer

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TEST PIT TP-15

TEST PIT TP-15 LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass & shrubs	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Medium dense, tan, silty fine SAND; dry, rootlets to 0.25 foot bgs					
2.0				0	S-1	■	NS
4.0		Massive BASALT					
		Final depth 4.5 feet bgs due to refusal on massive basalt; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored No caving observed to the depth explored
6.0							
8.0							
10.0							
12.0							
14.0							
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/02/08
LOGGED BY: D. Hamilton/A. Fischer

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TEST PIT TP-16

TEST PIT TP-16 LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass & shrubs	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Medium dense, tan, silty fine SAND; dry, rootlets to 0.25 foot bgs					
		LANDFILL DEBRIS: Household material: glass/tin containers, lather shaving brush, meter springs Building material: remnant metal, cement board (A012), burned dimensional wood Ranch material: minor animal bones		0	S-1		NS
2.0					A012		
		LANDFILL DEBRIS mixed with loose, brown, fine to medium SAND with some silt; damp		0	S-2		NS
4.0		Massive BASALT					
		Final depth 4.5 feet bgs due to refusal on massive basalt; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored No caving observed to the depth explored
6.0							
8.0							
10.0							
12.0							
14.0							
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County

COMPLETED: 12/03/08
LOGGED BY: D. Hamilton/A. Fischer

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TEST PIT TP-17

TEST PIT TP-17 LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass & shrubs	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Loose, tan, silty fine SAND; dry, rootlets to 0.25 foot bgs					Moderate caving observed to the depth explored
		LANDFILL DEBRIS: Household material: glass/tin containers some melted at 1.0 to 2.5 feet bgs and 3.0 to 3.5 feet bgs, ceramic fragments, garden hose, salt and pepper shakers, light bulbs, paper products, faucet Building material: slightly burned metal and dimensional wood, cement board (A013), pipe insulation (A015), felt paper (A014) Automotive: license plate, metal body parts		0	S-1 A013		NS
2.0							
4.0							
6.0					A014 A015		
8.0		Loose, brown, fine to medium SAND with some silt; damp		0	S-2		NS
10.0		Final depth 10.0 feet bgs; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored
12.0							
14.0							
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/03/08
LOGGED BY: D. Hamilton/A. Fischer

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TEST PIT TP-18A

TEST PIT TP-18A LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Loose, tan, silty fine SAND; dry, rootlets to 0.1 foot bgs		0	S-1 A017 A018		NS Moderate caving observed to the depth explored
2.0		LANDFILL DEBRIS: Household material: small amount of glass/plastic/tin/aluminum containers (some melted), C-clamp, porcelain, washing machine (removed) Building material: scrap metal and dimensional wood, gypsum board (A017, A018), cement roofing material (A019), fiberglass, brick, concrete, duct insulation (A016, TP-18)					
					A016		
4.0		Automotive: metal body parts			A019		
6.0							
8.0							
10.0		contains rust-colored, residual debris					
		Loose, brown, fine to medium SAND with some silt; damp		0.1	S-2		NS
12.0		Final depth 12.0 feet bgs; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored
14.0							
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/03/08
LOGGED BY: D. Hamilton/A. Fischer

NOTE: 1st attempt (TP-18) located 30' ENE of TP-18A. Refusal on concrete and boulders at 4.5' bgs.

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TEST PIT TP-19

TEST PIT TP-19 LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Medium dense, tan, silty fine SAND; dry					Moderate caving observed to the depth explored
				0	S-1	■	NS
2.0		LANDFILL DEBRIS: Household material: glass/plastic/aluminum containers, clothes, garden hose, styrofoam, hand drill, paper products, newspaper (1968), plastic sheeting, rug, general waste Building material: scrap metal and dimensional wood, wall covering, fiberglass, wire, sheet flooring, particle board wood shingles, black PVC pipe Ranch material: one large animal bone, yard debris Automotive: oil filters, metal body parts, tires (removed), air filter					
4.0							
6.0							
8.0		LANDFILL DEBRIS mixed with some tan and brown, coarse sand; pumiceous					
10.0		Loose, brown, fine to medium SAND with trace silt; damp					
12.0				0	S-2	■	NS
		Massive BASALT					
14.0		Final depth 13.0 feet bgs due to refusal on massive basalt; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/03/08
LOGGED BY: D. Hamilton/A. Fischer

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TEST PIT TP-20

TEST PIT TP-20 LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Medium dense, tan, silty fine SAND; dry, rootlets to 0.1 foot bgs		0.1	S-1	■	Moderate caving observed to the depth explored NS
2.0		LANDFILL DEBRIS: Household material: glass/plastic containers, possible electric stereo box, styrofoam, billfold Building material: scrap metal and dimensional wood, cement board, remnant roofing, concrete and wood layer from 5.0 to 8.0 feet bgs Automotive: empty windshield cleaner container, metal body parts, car stereo					
4.0							
6.0							
8.0		LANDFILL DEBRIS mixed with loose, brown, fine to medium sand with some silt; damp		0.1	S-2	■	NS
10.0		Massive BASALT					
		Final depth 10.0 feet bgs due to refusal on massive basalt; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored
12.0							
14.0							
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County

COMPLETED: 12/03/08
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TEST PIT TP-21

TEST PIT TP-21 LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Loose, tan, silty fine SAND; dry, rootlets to 0.25 feet bgs		0	S-1	■	Moderate caving observed to the depth explored NS
2.0		LANDFILL DEBRIS: Household material: glass containers, carpet, garden hose, corroded electrical component (0.75 foot x 1.0 foot), shuttle cock, shoes/boots, general waste Building material: scrap metal and dimensional wood some burned at 4.0 feet bgs, PVC pipe, chain link fence, sheet flooring (A020), concrete, electrical wiring at 2.0 feet bgs (2-inch), red brick at 6.0 feet bgs Ranch material: barbed wire Automotive: tires and radiator (removed), battery cable, empty container of Seal-It for tubeless tires			A020		
4.0							
6.0							
8.0		Loose, brown, fine to medium SAND with some silt; damp		0	S-2	■	NS
10.0		Final depth 10.0 feet bgs; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored
12.0							
14.0							
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/03/08
LOGGED BY: D. Hamilton/A. Fischer

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TEST PIT TP-22A

TEST PIT TP-22A LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
		Surface Conditions: Grass & shrubs					
0.0		Medium dense, tan, medium to coarse SAND with some silt; dry, rounded, rootlets to 0.5 foot bgs					Moderate caving observed to the depth explored
		LANDFILL DEBRIS: Household materials: glass/plastic/aluminum containers, furniture polish container and other cleaning products, styrofoam, plastic sheeting, garden hose; Building materials: scrap dimensional wood, laminated paneling, electrical wiring, particle board; Automotive: metal body parts, inner-tube (removed), oil filter, empty container windshield cleaner, broken windshield-glass		0.1	S-1	■	NS
2.0							
4.0							
6.0		LANDFILL DEBRIS mixed with loose, brown, silty fine sand; damp		0	S-2	■	NS
		Massive BASALT					
8.0		Final depth 7.5 feet bgs due to refusal on massive basalt; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored
10.0							
12.0							
14.0							
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/04/08
LOGGED BY: D. Hamilton/A. Fischer

NOTE: 1st attempt (TP-22) located 25' W of TP-22A. Refusal at 1.0' bgs. No debris encountered.

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TEST PIT TP-23

TEST PIT TP-23 LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
		Surface Conditions: Sparse grass					
0.0		Medium dense, tan, medium to coarse SAND with some silt; damp, subrounded, rootlets to 0.5 foot bgs		0	S-1	■	Moderate caving observed to the depth explored NS
2.0		LANDFILL DEBRIS: Household material: glass/plastic/aluminum containers, cloth, garden hose, styrofoam, paper products, newspaper (1972), medical syringe, carpet, plastic sheeting Building Material: scrap metal, glass, dimensional wood Automotive: inner tube and tires (removed), empty container WD-40					
4.0							
6.0							
8.0		LANDFILL DEBRIS with loose, brown, silty fine SAND; damp			S-2	■	NS
10.0		Massive BASALT		0			
		Final depth 10.5 feet bgs due to refusal on massive basalt; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored
12.0							
14.0							
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County

COMPLETED: 12/04/08
LOGGED BY: D. Hamilton/A. Fischer

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TEST PIT TP-24

TEST PIT TP-24 LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Sparse grass	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Loose, tan, silty fine SAND; dry, rootlets to 1.25 feet bgs					Moderate caving observed to the depth explored
2.0		LANDFILL DEBRIS: Household material: glass/plastic/aluminum containers, foam packing material, plastic sheeting, containers of household cleaning products, 5 gallon metal bucket Building material: scrap metal and dimensional wood, electrical wiring Automotive: metal body parts, license plate, tires (removed), empty container of oil supplement		0	S-1	■	NS
4.0							
6.0							
8.0							
10.0							
		Loose, brown and gray, medium SAND with some silt; damp, pumiceous			S-2	■	NS
12.0		Massive BASALT		0			
		Final depth 12.0 feet bgs due to refusal on massive basalt; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored
14.0							
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/08/08
LOGGED BY: D. Hamilton/A. Fischer

NOTE: 1) 2nd attempt (TP-24A) located 70' N of TP-24. Refusal at 1.5'. No debris. 2) 3rd attempt (TP-24B) located between TP-24 and TP-24A. Documented northern extent of debris 55' N of TP-24 starting at 1.5' bgs.

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TEST PIT TP-25

TEST PIT TP-25 LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass & shrubs	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Loose, brown, silty fine SAND; dry, rootlets to 0.5 foot bgs					
2.0				0	S-1	■	NS
		Massive BASALT					
4.0		Final depth 3.3 feet bgs due to refusal on massive basalt; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored No caving observed to the depth explored
6.0							
8.0							
10.0							
12.0							
14.0							
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County

COMPLETED: 12/08/08
LOGGED BY: D. Hamilton/A. Fischer

NOTE: 1) 2nd attempt (TP-25A) located 15' NNW of TP-25. Refusal at 2.5' bgs. No debris. 2) 3rd attempt (TP-25-B) located 25' W of TP-25A. Refusal at 1.5' bgs. No debris. 3) 4th attempt (TP-25C) located 25' W of TP-25B. Debris at 2.0' bgs.

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TEST PIT TP-26

TEST PIT TP-26 LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Loose, brown, silty fine SAND; dry, rootlets to 0.5 foot bgs		0	S-1	■	Moderate caving observed to the depth explored NS
2.0		LANDFILL DEBRIS: Household material: glass/plastic/aluminum containers, styrofoam, cloth, carpet/backing, shoe/boot, bed spring, electric stove element, paper products, newspaper (1970), washing machine (removed), garden hose, plastic sheeting, 5 gallon can of lacquer, fire extinguisher top, aerosol cans, general waste Building material: scrap metal and dimensional wood, brick, roofing material, fiberglass, concrete Organics: yard debris Ranch material: barbed wire, wooden fence post, nylon rope, metal chain Automotive: metal body parts, oil filters, empty motor oil containers, tires (removed)					
4.0							
6.0							
8.0							
10.0							
12.0							
14.0							
16.0		Final depth 16.0 feet bgs; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/08/08
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TEST PIT TP-27

TEST PIT TP-27 LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Loose, tan, silty fine SAND; dry, rootlets to 0.5 foot bgs		0	S-1	■	Moderate caving observed to the depth explored NS
2.0		LANDFILL DEBRIS: Household material: glass/plastic/aluminum containers, carpet, containers of cleaning product, paper products, newspaper (1970), camera flash cube, plastic sheeting, bed spring, billfold, garden hose, shoe/boot, general waste Building material: scrap metal and dimensional wood, plywood Ranch material: metal bucket, wooden fence post Automotive: oil filters, empty containers of anti-freeze, tires (removed)					
4.0							
6.0							
8.0							
10.0							
12.0							
14.0							
		Final depth 15.0 feet bgs; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/08/08
LOGGED BY: D. Hamilton/A. Fischer

NOTE: 1) 2nd attempt (TP-27A) located 30' S of TP-27. Refusal at 1.5' bgs. No debris. 2) 3rd attempt (TP-27B) located between TP-27 and TP-27A. Refusal at 1.5' bgs. No debris encountered.

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TEST PIT TP-28

TEST PIT TP-28 LOCATION:
See Figure 3

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Grass & shrubs with debris	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Medium dense, brown, silty fine SAND; dry, rootlets to 0.5 foot bgs					
2.0				0	S-1	■	NS
				0			NS
4.0		Massive BASALT			S-2	■	
		Final depth 4.0 feet bgs due to refusal on massive basalt; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored No caving observed to the depth explored
6.0							
8.0							
10.0							
12.0							
14.0							
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/08/08
LOGGED BY: D. Hamilton/A. Fischer

NOTE: Debris of rusted tin cans, tires, and glass bottles on surface.

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TEST PIT TP-29

TEST PIT TP-29 LOCATION:
See Figure 4

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Shrubs & bare soil	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Loose, tan, silty fine SAND; dry, roots (1-inch diameter) at 2.0 feet bgs, rootlets to 3.5 feet bgs					
2.0				0	S-1	■	NS
4.0		grades to medium dense, tan, medium to coarse SAND with some silt; dry, subrounded		0			NS
		Massive BASALT			S-2	■	
6.0		Final depth 5.5 feet bgs due to refusal on massive basalt; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored No caving observed to the depth explored
8.0							
10.0							
12.0							
14.0							
16.0							
18.0							
20.0							

EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/08/08
LOGGED BY: D. Hamilton/A. Fischer

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DEPARTMENT OF STATE LANDS
STEVENS ROAD TRACT
BEND, OREGON

PBS PROJECT NUMBER:
80416.000 Task 2

TEST PIT TP-30

TEST PIT TP-30 LOCATION:
See Figure 4

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION Surface Conditions: Sparse grass & debris	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	COMMENTS
0.0		Medium dense, tan, silty fine SAND; dry, root mass to 1.0 foot bgs, rootlets to 3.0 feet bgs					
2.0				0	S-1	■	NS
4.0		BASALT BOULDERS					
				0	S-2	■	NS
6.0		Final depth 5.5 feet bgs due to refusal on basalt boulders; test pit backfilled with excavated material and compacted					No groundwater seepage observed to the depth explored No caving observed to the depth explored
8.0							
10.0							
12.0							
14.0							
16.0							
18.0							
20.0							

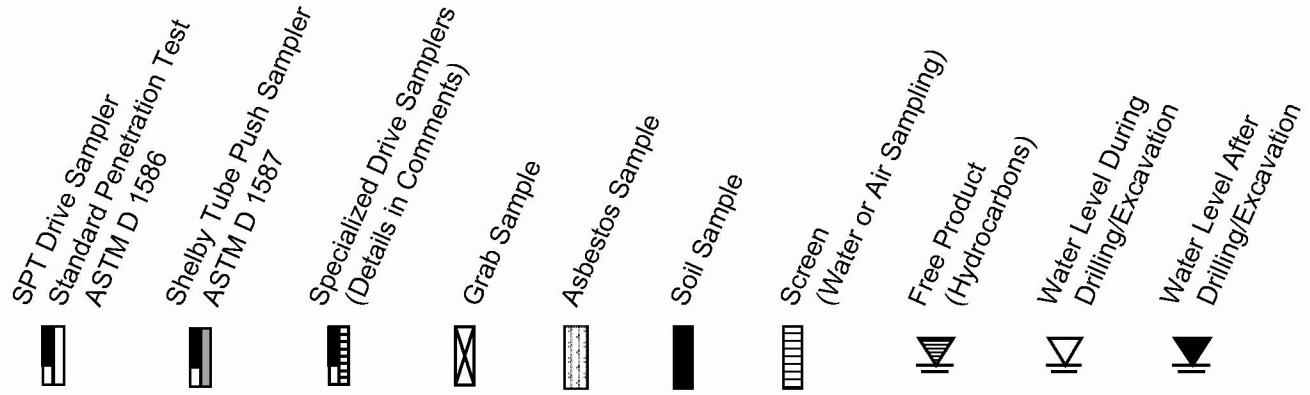
EXCAVATION METHOD: Excavator
EXCAVATION BY: Deschutes County
COMPLETED: 12/08/08
LOGGED BY: D. Hamilton/A. Fischer

NOTE: Debris on surface; ½-gallon filled container of anti-freeze (removed), glass, tin, wood, and spark plug cables.

TEST PIT LOG - 1 PER PAGE - ENV 2+SAMP 80416TSK2 TP1A-30 020209.GPJ DATATMPL.GDT PRINT DATE: 2/2/09:RSD

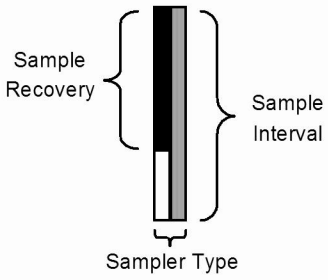
Key To Test Pit and Boring Log Symbols

SAMPLING DESCRIPTIONS[1]

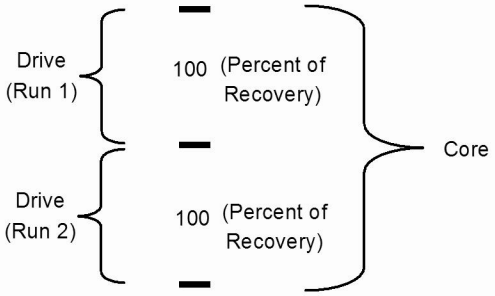


LOG GRAPHICS

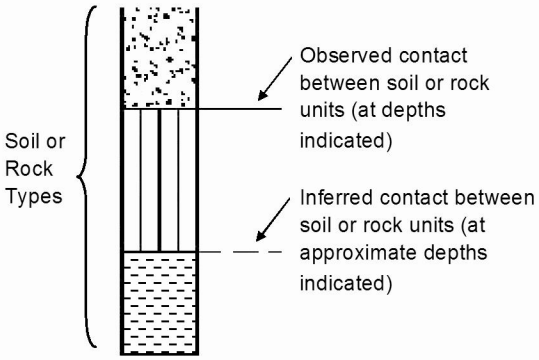
Sampling Symbols



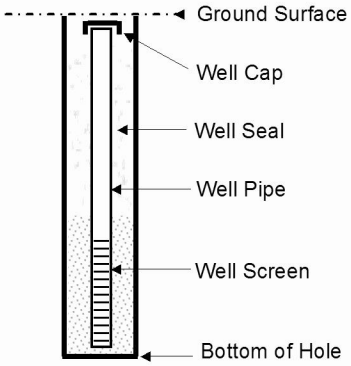
Direct Push, Geoprobe®, Sonic Drilling



Soil and Rock



Well Detail



ENVIRONMENTAL TESTING EXPLANATIONS

ATD	At Time of Drilling
BGS	Below Ground Surface
MW	Monitoring Well (Water Sampling)
NWTPH-Gx	Gasoline-Range Petroleum Hydrocarbon Testing
OD	Outside Diameter
PID	Photoionization Detector Headspace Analysis
PPM	Parts Per Million
VOC	Volatile Organic Compounds
ND	Not Detected
NS	No Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	High Sheen

[1]Note: Details of soil and rock classification systems are available on request.

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DEPARTMENT OF STATE LANDS
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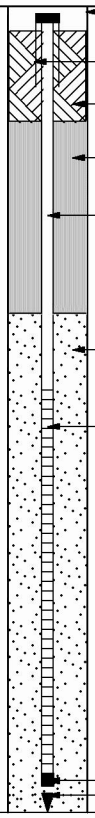
BEND, OREGON

PBS PROJECT NUMBER:
80416.000 Task 3

BORING VP-1

BORING VP-1 LOCATION:
25' WSW of TP-2
(See Figure 3)

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	RECOVERY (%)	COMMENTS/ WELL INSTALLATION
0.0		Surface Conditions: ¼" Rounded coarse sand NO SAMPLES COLLECTED						
		LANDFILL DEBRIS (Boundary - Reference TP-2)						
2.0								
4.0								
6.0								
8.0								
10.0		VESICULAR BASALT (Boundary - Reference TP-2)						
		Final depth 10.5 feet bgs; installed vapor probe						
12.0								
14.0								
16.0								
18.0								
20.0								

BORING METHOD: Direct Push
DRILLED BY: Boart Longyear
BORING BIT DIAMETER: 3.25-inch

LOGGED BY: D. Hamilton
COMPLETED: 12/30/08

NOTE: See test pit log TP-2 for description

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BEND, OREGON

PBS PROJECT NUMBER:
80416.000 Task 3

BORING VP-2

BORING VP-2 LOCATION:
30' NE of TP-9
(See Figure 3)

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	RECOVERY (%)	COMMENTS/ WELL INSTALLATION
0.0		Surface Conditions: Grass						12-inch, Sherwood flush-mount monument; 4-inch PVC with locking cap; Concrete
2.0		LANDFILL DEBRIS (Boundary - Reference TP-9)						Hydrated bentonite casing seal
4.0								1-inch, schedule 40, PVC pipe
6.0								1-inch, schedule 40, 10-slot screened PVC pipe
8.0								10/20 Silica sand
10.0								
12.0								
14.0								End cap; Metal drive point
16.0		Medium dense, black, fine to medium SAND; damp			VP-2/15-20'		60	Sluff backfill
18.0		VESICULAR BASALT mixed with brown sand						
20.0		Loose, brown, fine SAND; damp						
		Final depth 20.0 feet bgs; installed vapor probe						

BORING METHOD: Direct Push
DRILLED BY: Boart Longyear
BORING BIT DIAMETER: 3.25-inch

LOGGED BY: D. Hamilton
COMPLETED: 12/30/08

NOTE: See test pit log TP-9 for description; 2nd attempt (VP-2A) located 5' E of VP-2. Sampled 10-15' bgs; got refusal at 12.5' bgs. Sample contains landfill debris.

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DEPARTMENT OF STATE LANDS
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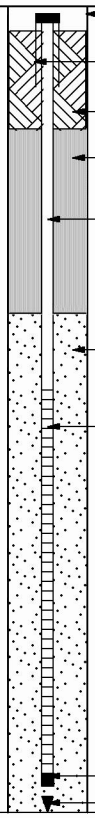
PBS PROJECT NUMBER:
80416.000 Task 3

BORING VP-3

BORING VP-3 LOCATION:
45'NE of TP-20
(See Figure 3)

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	RECOVERY (%)	COMMENTS/ WELL INSTALLATION
		Surface Conditions: Grass and dead trees						
0.0		NO SAMPLES COLLECTED						 12-inch, Sherwood flush-mount monument; 4-inch PVC pipe with locking cap; Concrete; Hydrated bentonite casing seal; 1-inch, schedule 40, PVC pipe; 10/20 Silica sand; 1-inch, schedule 40, 10-slot screened PVC pipe; End cap; Metal drive point
2.0		LANDFILL DEBRIS (Boundary - Reference TP-20)						
4.0								
6.0								
8.0								
10.0		VESICULAR BASALT (Boundary - Reference TP-20)						
		Final depth 10.5 feet bgs; installed vapor probe						
12.0								
14.0								
16.0								
18.0								
20.0								

BORING METHOD: Direct Push
DRILLED BY: Boart Longyear
BORING BIT DIAMETER: 3.25-inch

LOGGED BY: D. Hamilton
COMPLETED: 12/30/08

NOTE: See test pit log TP-20 for description

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PBS PROJECT NUMBER:
80416.000 Task 3

BORING VP-4

BORING VP-4 LOCATION:
20' SW of TP-14
(See Figure 3)

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	RECOVERY (%)	COMMENTS/ WELL INSTALLATION
		Surface Conditions: Grass						
0.0		NO SAMPLES COLLECTED						12-inch, Sherwood flush-mount monument; 4-inch PVC pipe with locking cap; Concrete
2.0		LANDFILL DEBRIS (Boundary - Reference TP-14)						Hydrated bentonite casing seal; 1-inch, schedule 40, PVC pipe,C
4.0								10/20 Silica sand
6.0								1-inch, schedule 40, 10-slot screened PVC pipe
8.0								
10.0								
12.0								
14.0		VESICULAR BASALT (Boundary - Reference TP-14)						End cap; Metal drive point
16.0		Final depth 15.5 feet bgs; installed vapor probe						
18.0								
20.0								

BORING METHOD: Direct Push
DRILLED BY: Boart Longyear
BORING BIT DIAMETER: 3.25-inch

LOGGED BY: D. Hamilton
COMPLETED: 12/30/08

NOTE: See test pit log TP-14 for description

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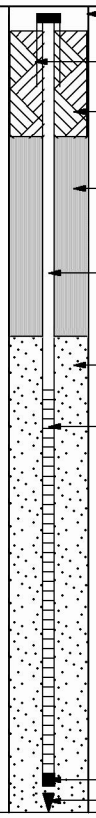
PBS PROJECT NUMBER:
80416.000 Task 3

BORING VP-5

BORING VP-5 LOCATION:
35' NNE of TP-18A
(See Figure 3)

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	GROUND-WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE	RECOVERY (%)	COMMENTS/ WELL INSTALLATION
0.0		Surface Conditions: Grass NO SAMPLES COLLECTED						
		LANDFILL DEBRIS (Boundary - Reference TP-18A)						
2.0								
4.0								
6.0								
8.0								
10.0								
		Loose, brown SAND (Boundary - Reference TP-18A) Final depth 10.5 feet bgs; installed vapor probe						
12.0								
14.0								
16.0								
18.0								
20.0								

BORING METHOD: Direct Push
DRILLED BY: Boart Longyear
BORING BIT DIAMETER: 3.25-inch

LOGGED BY: D. Hamilton
COMPLETED: 12/30/08

NOTE: See test pit log TP-18A for description

APPENDIX D

Ambient Air Monitoring Field Sheets

PBS Engineering + Environmental
AIR MONITORING RECORD

Project Title: Stevens Road Project No. 80416.000 Task 2

Site Specific Name/Location: TP#1 – TP#7 Date: 12/1/08 Day: Mon

Weather: Temp: 40° Wind Direction/Speed: 1 E-SE Humidity:

	Instrument	S/N	Calibration date	Calibration gas/method	Calibration by
Organic vapors	PID		12/1/08	Iso. GAS	DH
Particulates	N/A	N/A			→
O_2	4-GAS		11/20/08	Calib. GAS (4-GAS)	AF
Radiation	N/A	N/A			→
Combustible gas	4-GAS		11/20/08	Calib GAS (4-GAS)	AF
Radiation	N/A	N/A			→

Time	Location / Description	Organic vapor ppm	Particulates mg/m3	O_2 %	H_2S ppm	CG % LEL
8:20	TP#1	0	N/A	20.9	0	0
9:00	TP#1A	0	N/A	20.9	0	0
10:50	TP#2	0	N/A	20.9	0	0
11:50	TP#3	0	N/A	20.9	0	0
12:15	TP#3A	0	N/A	20.9	0	0
1310	TP#4	0	N/A	20.9	0	0
1320	TP#4A	0		20.9	0	0–3
1415	TP 5	0		20.9	0	0
1500	TP 6	0		20.9	Ø	Ø
1545	TP 7	0		20.9	0	0

Notes:

Data collected by: Alex Fischer (Print Name) (Signature)

*Organic Vapor ppm ≈ Ambient Outdoor Air

PBS Engineering + Environmental
AIR MONITORING RECORD

Project Title: Stevens Road Project No. 80416.

Site Specific Name/Location: TP# 8 - TP# 15 Date: 12/2/08 Day: Tue

Weather: Temp 38° Wind Direction/Speed: / Humidity:

	Instrument	S/N	Calibration date	Calibration gas/method	Calibration by
Organic vapors	PID		12/2/08	ISO	DH
Particulates	N/A				→
O_2	4-GAS		11/20/08	mix GAS	AF
Radiation	N/A				→
Combustible gas	4-GAS		11/20/08	mix GAS	AF
Radiation	N/A				→

Time	Location / Description	Organic vapor * ppm	Particulates mg/m3	O_2 %	H_2S ppm	CG % LEL
7:48	TP # 8	Ø	N/A	20.9	Ø	Ø
855	TP# 9	.08 - 1.7		20.9	Ø	Ø
1255	TP# 11A	Ø		20.9	Ø	Ø
1310	TP# 12-A	Ø		20.9	Ø	Ø
1405	TP# 13	Ø		20.9	Ø	Ø
1424	TP 14	0.1		20.9	Ø	Ø
1547	TP 15	Ø		20.9	Ø	Ø

Notes:

Data collected by: Alex Fischer (Print Name) [signature] (Signature)

* Ambient Air

PBS Engineering + Environmental
AIR MONITORING RECORD

Project Title: Stevens Road Project No. 80416.000 Task 02

Site Specific Name/Location: TP#16-21 Date: 12/3/08 Day: Wed

Weather: Temp 35° Wind Direction/Speed: / Humidity:

	Instrument	S/N	Calibration date	Calibration gas/method	Calibration by
Organic vapors	PID		12/3/08	Iso.	DH
Particulates	N/A				
O_2	4-GAS		11/20/08	Mix GAS	AF
Radiation	N/A				
Combustible gas	4-GAS		11/20/08	mix GAS	AF
Radiation	NA				

Time	Location / Description	Organic vapor * ppm	Particulates mg/m3	O_2 %	H_2S ppm	CG % LEL
10:35	TP#16	0.0	N/A	20.9	0	0
11:10	TP#17	0.0		20.9	0	0
1210	TP#18A	0.0		20.9	0	0
1333	TP#19	0.1		20.9	0	0-3
1430	TP#20	0.2 - 0.3		20.9	ø	0-5
1513	TP#21	0.0		20.9	0	0

Notes:

Data collected by: Alex Fischer (Print Name) (Signature)

* Ambient Air

PBS Engineering + Environmental
AIR MONITORING RECORD

Project Title: Stevens Road Project No. 80416.000 Task 02

Site Specific Name/Location: TP 7A' [illegible] Date: 12/4/08 Day:

Weather: Temp: 30° Wind Direction/Speed: / Humidity:

	Instrument	S/N	Calibration date	Calibration gas/method	Calibration by
Organic vapors	PID		12/4/08	ISO.	DH
Particulates	NA →				
O_2	4-GAS		11/20/08	MIX	AF
Radiation	NA →				
Combustible gas	4-GAS		11/20/08	MIX	AF
Radiation	NA →				

Time	Location / Description	Organic vapor * ppm	Particulates mg/m3	O_2 %	H_2S ppm	CG % LEL
7:40	7A'	0.0	N/A	20.9	0	0-3
9:35	5 (RE Dig)	0.0		20.9	0	0
912	6 (RE-Dig)	0.0		20.9	0	0
950	3A (RE-Dig)	0.1 - 0.3		20.9	0	0 - 4
1034	TP# 22A	.1 - .2		20.9	0	0
1115	TP#23	0		20.9	0	0
1214	TP#9 (RE-Dig)	0.5 - 6.3		20.9	0	0 - 6
1345	TP# 8 (" ")	.4		20.9	0	0

Notes:

Data collected by: Alex Fischer (Print Name) [signature] (Signature)

* Ambient Air

PBS Engineering + Environmental
AIR MONITORING RECORD

Project Title: Stevens Road — Project No. 80416.000

Site Specific Name/Location: — Date: 12/8/08 — Day: Mon

Weather: Temp 15° — Wind Direction/Speed ___/___ — Humidity ___

	Instrument	S/N	Calibration date	Calibration gas/method	Calibration by
Organic vapors	PID		12/8/08		DH
Particulates	N/A	→	→	→	
O_2	4-GAS		11/20/08		AF
Radiation	N/A	→	→	→	
Combustible gas	4-GAS		11/20/08		AF
Radiation	N/A	→	→	→	

Time	Location / Description	Organic vapor * ppm	Particulates mg/m3	O_2 %	H_2S ppm	CG % LEL
749	TP #24	0.0	N/A	20.9	0	0-3
840	TP #25	0.0		20.9	0	0
916	TP #26	0.0		20.9	0	0
1025	TP #27	0.0		20.9	0	0
1153	TP #28	0.0		20.9	0	0
1315	TP #29	0.0		20.9	0	0
1333	TP #30	0.0		20.9	0	0

Notes: ___

Data collected by Alex Fischer (Print Name) — Signature

* Ambient Air

1-6% LEL
(7) locations

PBS Engineering + Environmental
AIR MONITORING RECORD

Project Title: DSL Project No. 80416.00173

Site Specific Name/Location: SW Corner Sec 11 Date: 12-30-08 Day: Tue

Weather: Temp: 30° overcast Wind Direction/Speed: TOW 1 ≈ 5MPH Humidity:

	Instrument	S/N	Calibration date	Calibration gas/method	Calibration by
Organic vapors	MZNZ RAE		12-30-08 1645		DH
Particulates					
O_2					
Radiation					
Combustible gas					DOUG HANCOCK
Radiation					

Time	Location / Description	Organic vapor ppm	Particulates mg/m3	~~O_2~~ CO_2 %	H_2S ppm	CG % LEL
850	@ VP START 2	0.2	—	~~20.1~~ 0		0
915	SAMPLE @ 15-20	0.2		0		0
1015	WELL INSTALL VP-2	0.2		0		0
1100	START VP-1 & TP-2	0.0		0		0
1130	WELL INSTALL VP-2	0.2		0		0
1157	@ VP-3 START	0.0		0		0
1238	@ VP-4 START	0.0		0		0
1328	@ VP-5 START	0.0		0		0

Notes:

Data collected by: DOANN HAMILTON Doan Hamilton
Print Name Signature

PBS	PBS Engineering + Environmental **Landfill Gas Monitoring** **SAMPLING FIELD FORM** Revised: 12/16/08	PROJECT: DSL PROJECT NO: 80416.001 TASK 3 EVENT: LANDFILL GAS MONITOR Date: 1-8-09

Field Personnel: **Start Time:**

Weather Conditions: Temperature: 34.2 → 39.7
Barometric pressure start: 29.88
Barometric pressure end: 29.91
Cloud Cover: CLOUDS IN DISTANCE
Pressure trend (falling or rising): LIGHT RAIN RISING

Landfill Gas Readings

Location	Time (00:00 - 23:59)	CH_4 methane (%)	CO_2 Carbon Dioxide (%)	O_2 oxygen (%)	Differential Pressure (inches of H_2O) GEM 2000	Differential Pressure (inches of H_2O) Magnehelic Gauge	Notes BARM
VP-1 (TP-2)	746	0.0	5.5	15.0	—	—	26.07
* VP-2 (TP-9)	802	0.0	13.4	7.6	0	0	26.07
VP-3 (TP-20)	850	0.0	13.6	8.0	0	0	26.07
VP-4 (TP-14)	902	0.0	13.4	7.8	0	0	26.07
VP-5 (TP-18)	914	0.0	0.1	20.2	0	0	26.07
Three Pines Cave (TP-23)	833	0.00	~~20.4~~ 0.0	20.4	0	—	26.07 SMELL SMOKE
Garbage Cave NO. 1 (TP-7A)	840	0.00	~~20~~ 0.1	20.3	0	—	26.07 SKUNK SMELL
Garbage Cave NO. 2 (TP-26)	812	0.0	0.0	20.5	0	—	26.07
Davenport Cave (TP-8)	820	0.0	0.0	20.6	0	—	26.07

Instrument: GEM 2000
Source of Instrument: COUNTY LANDFILL – THEY CALIBRATED (JZM) 1-8-09 @ 0730

WELL CONDITION

Document problems with any of the wells.

Field Observations/Notes of Sampling Event:

* WAS 0.1% @ START

Signature of Field Personnel: Dean Hunter

PBS

PBS Engineering + Environmental

Landfill Gas Monitoring SAMPLING FIELD FORM

Revised: 12/16/08

PROJECT: 80416.00 / TASK 3
PROJECT NO: DSL
EVENT: VAPOR POINT INSTALL
Date: 1-14-09

Field Personnel: DH
Start Time:

Weather Conditions: Temperature: 39.0 - 46.6°F
Barometric pressure start: 30.30
Barometric pressure end: 30.33
Cloud Cover: THIN CLOUDS
Pressure trend (falling or rising): RISING

Landfill Gas Readings

Location	Time (00:00 - 23:59)	CH_4 methane (%)	CO_2 Carbon Dioxide (%)	O_2 oxygen (%)	Differential Pressure (inches of H_2O) GEM 2000	Differential Pressure (inches of H_2O) Magnehelic Gauge	Notes BAR
VP-1 (TP-2)	854	0.0	5.4	15.1		0	26.52
VP-2 (TP-9)	1005	0.0	15.4	4.1		0	26.49
VP-3 (TP-20)	934	0.0	13.2	8.5		0	26.49
VP-4 (TP-14)	944	0.0	17.6	4.1		0	26.49
VP-5 (TP-18)	954	0.0	0.0	20.2		0	26.49
Three Pines Cave (TP-23)	902	0.0	0.0	20.1		—	26.52 SMOKY
Garbage Cave NO. 1 (TP-7A)	911	0.0	0.0	20.2		—	26.52
Garbage Cave NO. 2 (TP-26)	1015	0.0	0.1	20.1		—	26.49
Davenport Cave (TP-8)	1025	0.0	0.0	20.1		—	26.49

Instrument: GEM 2000
Source of Instrument: COUNTY LANDFILL - JIM CALIBRATED 1-14-09

WELL CONDITION

Document problems with any of the wells.

VP-4 (8) FENCE POST GONE - FRESHLY BROKEN GLASS ON MONUMENT
VP-5 " " "
VP-2 GREEN FENCE POST PULLED BUT LEFT ON SITE - PUT BACK IN

Field Observations/Notes of Sampling Event:

(1) JIM DID NOT SET PRESSURE VALUE

Signature of Field Personnel: Dean [illegible]

PBS

PBS Engineering + Environmental

Landfill Gas Monitoring
SAMPLING FIELD FORM
Revised: 12/16/08

PROJECT: DSC
PROJECT NO: 80416.00/73
EVENT: VAPOR MONITOR
Date: 1-22-09

Field Personnel: DN
Start Time: 826

Weather Conditions: Temperature: 35.8-38.7
Barometric pressure start: 29.97
Barometric pressure end: 29.97
Cloud Cover: OVERCAST
Pressure trend (falling or rising): STEADY

Landfill Gas Readings

Location	Time (00:00 - 23:59)	CH_4 methane (%)	CO_2 Carbon Dioxide (%)	O_2 oxygen (%)	Differential Pressure (inches of H_2O) GEM 2000	Differential Pressure (inches of H_2O) Magnehelic Gauge	Notes BAR
VP-1 (TP-2)	833	0.0	5.6	14.8	0	0	26.18
VP-2 (TP-9)	930	0.0	18.7	2.0	0	0	26.18
VP-3 (TP-20)	858	0.0	13.9	8.1	0	0	26.18
VP-4 (TP-14)	909	0.0	18.9	3.1	0	0	26.18
VP-5 (TP-18)	918	0.0	0.1	20.0	0	0	26.18
Three Pines Cave (TP-23)	840	0.0	0.0	19.8	0	—	26.18 SMOKY SMELL
Garbage Cave NO. 1 (TP-7A)	849	0.0	0.1	19.9	0	—	26.18
Garbage Cave NO. 2 (TP-26)	940	0.0	0.1	20.2	0	—	26.18
Davenport Cave (TP-8)	949	0.0	0.0	20.3	0	—	26.18

Instrument: GEM 2000
Source of Instrument: COUNTRY SOLID WASTE JAN CALIBRATED 1-22-09

WELL CONDITION

Document problems with any of the wells.

Field Observations/Notes of Sampling Event:

Signature of Field Personnel: [signature]

PBS

PBS Engineering + Environmental

Landfill Gas Monitoring SAMPLING FIELD FORM

Revised: 12/16/08

PROJECT: DSL
PROJECT NO: 80416.00/73
EVENT: VAPOR MONITOR
Date: 1-27-09

Field Personnel:

Start Time:

Weather Conditions: Temperature: 8.2 → 23.5 Ground
Barometric pressure start: 29.75 30.21
Barometric pressure end: 29.73 30.18

Cloud Cover: P. CLOUDY WIN DY
Pressure trend (falling or rising): FALLING

Landfill Gas Readings

Location	Time (00:00 - 23:59)	CH_4 methane (%)	CO_2 Carbon Dioxide (%)	O_2 oxygen (%)	Differential Pressure (inches of H_2O) GEM 2000	Differential Pressure (inches of H_2O) Magnehelic Gauge	Notes
VP-1 (TP-2)	843	0.6	6.7	15.0	0	0	26.38
VP-2 (TP-9)	958	0.1	16.8	4.6	0	0	0.1 METHANE START
VP-3 (TP-20)	916	0.0	16.1	7.3	0	0	26.38
VP-4 (TP-14)	931	0.1	19.0	3.4	0	0	26.38
VP-5 (TP-18)	942	0.0	0.1	20.4	0	0	26.38
Three Pines Cave (TP-23)	854	0.0	0.0	21.1	0		26.38
Garbage Cave NO. 1 (TP-7A)	905	0.0	0.0	21.3	0		26.38
Garbage Cave NO. 2 (TP-26)	1010	0.0	0.0	20.3	0		26.38
Davenport Cave (TP-8)	1029	0.0	0.0	20.5	0		26.38

Instrument: GEM 200
Source of Instrument: SOLID WASTE DEPT. THEY CALIBRATED 1-27-09

WELL CONDITION

Document problems with any of the wells.

Field Observations/Notes of Sampling Event:

SNOWY FLY
WIND PICK UP WHEN @ VP-5

Signature of Field Personnel: [signature]

APPENDIX E

Land Survey of Test Pits and Vapor Probes

December 31, 2008

Coordinate Report

Pt Name	CENTRAL OR. COORDINATE SYS. Northing	Easting	Desc.	Lat.	Long.
1	372,819.663	3,310,336.209	CP 1	44°01'21.52998" N	121°14'38.57822" W
2	372,874.016	3,305,360.336	CP 2	44°01'22.07655" N	121°15'46.71279" W
3	377,239.103	3,305,580.430	CP 3	44°02'05.18335" N	121°15'43.63981" W
4	377,835.395	3,309,245.048	CP 4	44°02'11.05143" N	121°14'53.52736" W
5	375,152.564	3,306,173.372	CP 5	44°01'44.57235" N	121°15'35.57892" W
500	377,796.972	3,310,298.681	TP29	44°02'10.65532" N	121°14'39.07967" W
501	377,703.640	3,310,380.248	TP30	44°02'09.73341" N	121°14'37.96387" W
502	375,491.520	3,306,419.742	TP1A	44°01'47.90619" N	121°15'32.17930" W
503	375,611.564	3,306,467.631	TP24	44°01'49.09135" N	121°15'31.52344" W
504	375,399.665	3,306,586.077	TP25	44°01'46.99876" N	121°15'29.90329" W
505	375,106.776	3,306,358.938	TP23	44°01'44.10750" N	121°15'33.01291" W
506	374,978.259	3,306,140.176	TP2	44°01'42.83914" N	121°15'36.00719" W
507	374,968.423	3,306,121.833	VP1	44°01'42.74207" N	121°15'36.25826" W
508	374,904.206	3,306,044.048	TP22A	44°01'42.10822" N	121°15'37.32299" W
509	374,780.938	3,306,333.657	TP3A	44°01'40.89031" N	121°15'33.36015" W
510	374,726.586	3,306,205.296	TP4A	44°01'40.35401" N	121°15'35.11698" W
550	374,375.720	3,306,164.777	TP5	44°01'36.90199" N	121°15'35.69944" W
551	374,352.857	3,305,985.897	TP6	44°01'36.67673" N	121°15'38.14744" W
552	374,209.264	3,306,395.844	TP7A	44°01'35.25781" N	121°15'32.53802" W
553	374,021.415	3,306,730.479	TP27	44°01'33.40209" N	121°15'27.95944" W
554	374,226.947	3,306,889.580	TP8	44°01'35.43098" N	121°15'25.78138" W
555	374,368.538	3,306,567.803	TP9	44°01'36.82995" N	121°15'30.18419" W
556	374,397.132	3,306,573.001	VP2	44°01'37.11228" N	121°15'30.11295" W
557	374,175.360	3,306,605.558	TP26	44°01'34.92246" N	121°15'29.66830" W
558	374,105.619	3,306,099.099	VP3	44°01'34.23527" N	121°15'36.59922" W
559	374,085.399	3,306,062.034	TP20	44°01'34.03571" N	121°15'37.10651" W
560	373,936.547	3,306,259.378	TP21	44°01'32.56545" N	121°15'34.40653" W
561	373,814.582	3,306,026.021	TP19	44°01'31.36183" N	121°15'37.60032" W
562	373,789.243	3,305,438.166	TP16	44°01'31.11311" N	121°15'45.64479" W
563	373,840.195	3,305,523.631	TP17	44°01'31.61599" N	121°15'44.47510" W
564	373,937.673	3,305,682.426	TP18A	44°01'32.57807" N	121°15'42.30176" W
565	373,960.234	3,305,698.570	VP5	44°01'32.80080" N	121°15'42.08076" W
566	373,564.978	3,305,568.404	TP15	44°01'28.89846" N	121°15'43.86333" W
567	373,153.258	3,305,759.652	TP12A	44°01'24.83277" N	121°15'41.24770" W
568	373,056.401	3,305,899.370	TP11	44°01'23.87607" N	121°15'39.33616" W
569	372,905.586	3,306,024.619	TP10	44°01'22.38664" N	121°15'37.62281" W
570	373,354.285	3,305,893.998	TP13	44°01'26.81732" N	121°15'39.40861" W
571	373,584.157	3,305,858.337	TP14	44°01'29.08711" N	121°15'39.89578" W
572	373,570.058	3,305,847.014	VP4	44°01'28.94793" N	121°15'40.05077" W
573	373,362.766	3,306,081.505	TP28	44°01'26.90057" N	121°15'36.84272" W
602	373,176.308	3,305,855.971	TRENCH	44°01’25.02437” N	121°15'39.91904" W
603	373,150.042	3,305,811.182	TRENCH	44°01’24.76513” N	121°15'40.53202" W

APPENDIX F (ELECTRONIC FORMAT)

Soil Laboratory Analytical Report **F-1**
Asbestos Laboratory Analytical Report **F-2**

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

ORELAP#: OR100021

December 17, 2008

Toby Scott
PBS Engineering - Bend
390 NE Emerson Ave Suite C
Bend, OR 97701

RE: DSL

Enclosed are the results of analyses for samples received by the laboratory on 12/05/08 09:30. The following list is a summary of the Work Orders contained in this report, generated on 12/17/08 15:21.

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

Work Order	Project	ProjectNumber
PRL0204	DSL	80416

TestAmerica Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Richard D. Reid, Project Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-7A/S-1	PRL0204-01	Soil	12/04/08 07:45	12/05/08 09:30
TP-7A/S-2	PRL0204-02	Soil	12/04/08 08:14	12/05/08 09:30
TP-5/S-2	PRL0204-03	Soil	12/04/08 08:57	12/05/08 09:30
TP-6/S-2	PRL0204-04	Soil	12/04/08 09:30	12/05/08 09:30
TP-3A/S-2	PRL0204-05	Soil	12/04/08 10:09	12/05/08 09:30
TP-22A/S-2	PRL0204-07	Soil	12/04/08 11:02	12/05/08 09:30
TP-23/S-2	PRL0204-09	Soil	12/04/08 11:55	12/05/08 09:30

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BEAVERTON, OR 97008-7132
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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Hydrocarbon Identification per NW-TPH Methodology

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0204-01 (TP-7A/S-1)			**Soil**			**Sampled: 12/04/08 07:45**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	20.7	mg/kg dry	1x	8120237	12/08/08 11:00	12/08/08 14:44	
Diesel Range Hydrocarbons	"	ND	----	51.8	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	**DET**	----	104	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*92.9%*		*50 - 150 %*	"			"
PRL0204-02 (TP-7A/S-2)			**Soil**			**Sampled: 12/04/08 08:14**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	21.6	mg/kg dry	1x	8120237	12/08/08 11:00	12/08/08 15:15	
Diesel Range Hydrocarbons	"	ND	----	53.9	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	108	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*120%*		*50 - 150 %*	"			"
PRL0204-03 (TP-5/S-2)			**Soil**			**Sampled: 12/04/08 08:57**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	22.2	mg/kg dry	1x	8120237	12/08/08 11:00	12/08/08 15:48	
Diesel Range Hydrocarbons	"	ND	----	55.5	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	111	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*127%*		*50 - 150 %*	"			"
PRL0204-04 (TP-6/S-2)			**Soil**			**Sampled: 12/04/08 09:30**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	22.7	mg/kg dry	1x	8120237	12/08/08 11:00	12/08/08 16:20	
Diesel Range Hydrocarbons	"	ND	----	56.8	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	114	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*121%*		*50 - 150 %*	"			"
PRL0204-05 (TP-3A/S-2)			**Soil**			**Sampled: 12/04/08 10:09**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	22.7	mg/kg dry	1x	8120237	12/08/08 11:00	12/08/08 16:52	
Diesel Range Hydrocarbons	"	ND	----	56.8	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	114	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*125%*		*50 - 150 %*	"			"
PRL0204-07 (TP-22A/S-2)			**Soil**			**Sampled: 12/04/08 11:02**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	21.9	mg/kg dry	1x	8120237	12/08/08 11:00	12/08/08 17:24	
Diesel Range Hydrocarbons	"	ND	----	54.8	"	"	"	"	"	

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Richard D. Reid, Project Manager

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BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Hydrocarbon Identification per NW-TPH Methodology

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0204-07 (TP-22A/S-2)			**Soil**			**Sampled: 12/04/08 11:02**				
Heavy Oil Range Hydrocarbons	NWTPH HCID	ND	----	110	mg/kg dry	1x	8120237	12/08/08 11:00	12/08/08 17:24	
Surrogate(s): 1-Chlorooctadecane				*113%*		*50 - 150 %*	"			"
PRL0204-09 (TP-23/S-2)			**Soil**			**Sampled: 12/04/08 11:55**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	24.7	mg/kg dry	1x	8120237	12/08/08 11:00	12/08/08 17:56	
Diesel Range Hydrocarbons	"	ND	----	61.8	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	124	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*122%*		*50 - 150 %*	"			"

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0204-01 (TP-7A/S-1)			**Soil**			**Sampled: 12/04/08 07:45**				
Diesel Range Organics	NWTPH-Dx	**17.1**	-----	13.4	mg/kg dry	1x	8120492	12/15/08 17:00	12/16/08 17:19	**Q6**
Heavy Oil Range Hydrocarbons	"	**45.8**	-----	26.8	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*84.3%*		*50 - 150 %*	"			"

TestAmerica Portland

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Richard D. Reid, Project Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0204-01 (TP-7A/S-1)			**Soil**			**Sampled: 12/04/08 07:45**				
Antimony	EPA 6020	ND	-----	0.527	mg/kg dry	1x	8120243	12/08/08 09:15	12/14/08 04:24	
Arsenic	"	**1.24**	-----	1.05	"	2x	"	"	12/15/08 18:26	
Beryllium	"	ND	-----	1.05	"	"	"	"	12/16/08 16:04	
Cadmium	"	ND	-----	0.527	"	1x	"	"	12/14/08 04:24	
Chromium	"	**12.2**	-----	1.05	"	2x	"	"	12/15/08 18:26	
Copper	"	**17.7**	-----	2.11	"	1x	"	"	12/14/08 04:24	
Lead	"	**20.3**	-----	1.05	"	2x	"	"	12/15/08 18:26	
Nickel	"	**49.1**	-----	2.11	"	"	"	"	"	
Selenium	"	ND	-----	0.527	"	1x	"	"	12/14/08 04:24	
Silver	"	ND	-----	0.527	"	"	"	"	"	
Thallium	"	ND	-----	0.527	"	"	"	"	"	
Zinc	"	**624**	-----	4.22	"	2x	"	"	12/16/08 16:04	
PRL0204-02 (TP-7A/S-2)			**Soil**			**Sampled: 12/04/08 08:14**				
Antimony	EPA 6020	ND	-----	0.559	mg/kg dry	1x	8120243	12/08/08 09:15	12/14/08 04:55	
Arsenic	"	ND	-----	0.559	"	"	"	"	12/15/08 19:14	
Beryllium	"	ND	-----	0.559	"	"	"	"	12/16/08 16:36	
Cadmium	"	ND	-----	0.559	"	"	"	"	12/14/08 04:55	
Chromium	"	**4.57**	-----	0.559	"	"	"	"	12/15/08 19:14	
Copper	"	**9.04**	-----	2.24	"	"	"	"	12/14/08 04:55	
Lead	"	**1.33**	-----	0.559	"	"	"	"	12/15/08 19:14	
Nickel	"	**18.5**	-----	1.12	"	"	"	"	"	
Selenium	"	ND	-----	0.559	"	"	"	"	12/14/08 04:55	
Silver	"	ND	-----	0.559	"	"	"	"	"	
Thallium	"	ND	-----	0.559	"	"	"	"	"	
Zinc	"	**15.0**	-----	2.24	"	"	"	"	"	
PRL0204-03 (TP-5/S-2)			**Soil**			**Sampled: 12/04/08 08:57**				
Antimony	EPA 6020	ND	-----	0.551	mg/kg dry	1x	8120243	12/08/08 09:15	12/14/08 05:03	
Arsenic	"	**1.04**	-----	0.551	"	"	"	"	12/15/08 19:46	
Beryllium	"	ND	-----	0.551	"	"	"	"	12/16/08 16:44	
Cadmium	"	ND	-----	0.551	"	"	"	"	12/14/08 05:03	
Chromium	"	**12.4**	-----	0.551	"	"	"	"	12/15/08 19:46	
Copper	"	**21.1**	-----	2.20	"	"	"	"	12/14/08 05:03	
Lead	"	**2.70**	-----	0.551	"	"	"	"	12/15/08 19:46	
Nickel	"	**42.5**	-----	1.10	"	"	"	"	"	

TestAmerica Portland

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Richard D. Reid, Project Manager

TestAmerica
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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0204-03 (TP-5/S-2)			**Soil**			**Sampled: 12/04/08 08:57**				
Selenium	EPA 6020	ND	-----	0.551	mg/kg dry	1x	8120243	12/08/08 09:15	12/14/08 05:03	
Silver	"	ND	-----	0.551	"	"	"	"	"	
Thallium	"	ND	-----	0.551	"	"	"	"	"	
Zinc	"	**28.1**	-----	2.20	"	"	"	"	"	
PRL0204-04 (TP-6/S-2)			**Soil**			**Sampled: 12/04/08 09:30**				
Antimony	EPA 6020	ND	-----	0.591	mg/kg dry	1x	8120243	12/08/08 09:15	12/14/08 05:11	
Arsenic	"	ND	-----	0.591	"	"	"	"	12/15/08 19:54	
Beryllium	"	ND	-----	0.591	"	"	"	"	12/16/08 16:52	
Cadmium	"	ND	-----	0.591	"	"	"	"	12/14/08 05:11	
Chromium	"	**5.35**	-----	0.591	"	"	"	"	12/15/08 19:54	
Copper	"	**11.1**	-----	2.36	"	"	"	"	12/14/08 05:11	
Lead	"	**1.81**	-----	0.591	"	"	"	"	12/15/08 19:54	
Nickel	"	**17.5**	-----	1.18	"	"	"	"	"	
Selenium	"	ND	-----	0.591	"	"	"	"	12/14/08 05:11	
Silver	"	ND	-----	0.591	"	"	"	"	"	
Thallium	"	ND	-----	0.591	"	"	"	"	"	
Zinc	"	**24.6**	-----	2.36	"	"	"	"	"	
PRL0204-05 (TP-3A/S-2)			**Soil**			**Sampled: 12/04/08 10:09**				
Antimony	EPA 6020	ND	-----	0.554	mg/kg dry	1x	8120243	12/08/08 09:15	12/14/08 05:34	
Arsenic	"	ND	-----	0.554	"	"	"	"	12/15/08 20:02	
Beryllium	"	ND	-----	0.554	"	"	"	"	12/16/08 17:00	
Cadmium	"	ND	-----	0.554	"	"	"	"	12/14/08 05:34	
Chromium	"	**6.09**	-----	0.554	"	"	"	"	12/15/08 20:02	
Copper	"	**13.0**	-----	2.21	"	"	"	"	12/14/08 05:34	
Lead	"	**1.32**	-----	0.554	"	"	"	"	12/15/08 20:02	
Nickel	"	**19.5**	-----	1.11	"	"	"	"	"	
Selenium	"	ND	-----	0.554	"	"	"	"	12/14/08 05:34	
Silver	"	ND	-----	0.554	"	"	"	"	"	
Thallium	"	ND	-----	0.554	"	"	"	"	"	
Zinc	"	**17.1**	-----	2.21	"	"	"	"	"	

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Total Metals per EPA 6000/7000 Series Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0204-07 (TP-22A/S-2)			**Soil**			**Sampled: 12/04/08 11:02**				
Antimony	EPA 6020	ND	-----	0.550	mg/kg dry	1x	8120243	12/08/08 09:15	12/14/08 05:42	
Arsenic	"	**1.69**	-----	0.550	"	"	"	"	12/15/08 20:10	
Beryllium	"	ND	-----	0.550	"	"	"	"	12/17/08 01:15	
Cadmium	"	ND	-----	0.550	"	"	"	"	12/14/08 05:42	
Chromium	"	**16.8**	-----	0.550	"	"	"	"	12/15/08 20:10	
Copper	"	**28.2**	-----	2.20	"	"	"	"	12/14/08 05:42	
Lead	"	**3.94**	-----	0.550	"	"	"	"	12/15/08 20:10	
Nickel	"	**37.3**	-----	1.10	"	"	"	"	"	
Selenium	"	ND	-----	0.550	"	"	"	"	12/14/08 05:42	
Silver	"	ND	-----	0.550	"	"	"	"	"	
Thallium	"	ND	-----	0.550	"	"	"	"	"	
Zinc	"	**38.7**	-----	2.20	"	"	"	"	"	
PRL0204-09 (TP-23/S-2)			**Soil**			**Sampled: 12/04/08 11:55**				
Antimony	EPA 6020	ND	-----	0.607	mg/kg dry	1x	8120243	12/08/08 09:15	12/14/08 05:50	
Arsenic	"	**1.23**	-----	0.607	"	"	"	"	12/15/08 20:17	
Beryllium	"	ND	-----	0.607	"	"	"	"	12/17/08 01:23	
Cadmium	"	ND	-----	0.607	"	"	"	"	12/14/08 05:50	
Chromium	"	**23.7**	-----	0.607	"	"	"	"	12/15/08 20:17	
Copper	"	**31.8**	-----	2.43	"	"	"	"	12/14/08 05:50	
Lead	"	**50.1**	-----	0.607	"	"	"	"	12/15/08 20:17	
Nickel	"	**35.0**	-----	1.21	"	"	"	"	"	
Selenium	"	ND	-----	0.607	"	"	"	"	12/14/08 05:50	
Silver	"	ND	-----	0.607	"	"	"	"	"	
Thallium	"	ND	-----	0.607	"	"	"	"	"	
Zinc	"	**161**	-----	2.43	"	"	"	"	"	

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Total Mercury per EPA Method 7471A

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0204-01 (TP-7A/S-1)			**Soil**			**Sampled: 12/04/08 07:45**				
Mercury	EPA 7471A	ND	----	0.0968	mg/kg dry	1x	8120248	12/08/08 09:50	12/09/08 09:06	
PRL0204-02 (TP-7A/S-2)			**Soil**			**Sampled: 12/04/08 08:14**				
Mercury	EPA 7471A	ND	----	0.108	mg/kg dry	1x	8120248	12/08/08 09:50	12/09/08 09:08	
PRL0204-03 (TP-5/S-2)			**Soil**			**Sampled: 12/04/08 08:57**				
Mercury	EPA 7471A	ND	----	0.0913	mg/kg dry	1x	8120248	12/08/08 09:50	12/09/08 09:10	
PRL0204-04 (TP-6/S-2)			**Soil**			**Sampled: 12/04/08 09:30**				
Mercury	EPA 7471A	ND	----	0.0992	mg/kg dry	1x	8120248	12/08/08 09:50	12/09/08 09:12	
PRL0204-05 (TP-3A/S-2)			**Soil**			**Sampled: 12/04/08 10:09**				
Mercury	EPA 7471A	ND	----	0.0979	mg/kg dry	1x	8120248	12/08/08 09:50	12/09/08 09:15	
PRL0204-07 (TP-22A/S-2)			**Soil**			**Sampled: 12/04/08 11:02**				
Mercury	EPA 7471A	ND	----	0.107	mg/kg dry	1x	8120248	12/08/08 09:50	12/09/08 09:17	
PRL0204-09 (TP-23/S-2)			**Soil**			**Sampled: 12/04/08 11:55**				
Mercury	EPA 7471A	**0.361**	----	0.103	mg/kg dry	1x	8120248	12/08/08 09:50	12/09/08 09:19	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Organochlorine Pesticides per EPA Method 8081A

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0204-05 (TP-3A/S-2)			**Soil**			**Sampled: 12/04/08 10:09**				
Aldrin	EPA 8081A	ND	----	7.77	ug/kg dry	1x	8120274	12/08/08 17:55	12/10/08 16:22	
alpha-BHC	"	ND	----	7.77	"	"	"	"	"	
beta-BHC	"	ND	----	7.77	"	"	"	"	"	
delta-BHC	"	ND	----	7.77	"	"	"	"	"	
gamma-BHC (Lindane)	"	ND	----	7.77	"	"	"	"	"	
gamma-Chlordane	"	ND	----	7.77	"	"	"	"	"	
alpha-Chlordane	"	ND	----	7.77	"	"	"	"	"	
Chlordane (tech)	"	ND	----	174	"	"	"	"	"	
4,4´-DDD	"	ND	----	7.77	"	"	"	"	"	
4,4´-DDE	"	ND	----	7.77	"	"	"	"	"	
4,4´-DDT	"	ND	----	7.77	"	"	"	"	"	
Dieldrin	"	ND	----	7.77	"	"	"	"	"	
Endosulfan I	"	ND	----	7.77	"	"	"	"	"	
Endosulfan II	"	ND	----	7.77	"	"	"	"	"	
Endosulfan sulfate	"	ND	----	7.77	"	"	"	"	"	
Endrin	"	ND	----	7.77	"	"	"	"	"	
Endrin aldehyde	"	ND	----	7.77	"	"	"	"	"	
Endrin ketone	"	ND	----	7.77	"	"	"	"	"	
Heptachlor	"	ND	----	7.77	"	"	"	"	"	
Heptachlor epoxide	"	ND	----	7.77	"	"	"	"	"	
Methoxychlor	"	ND	----	7.77	"	"	"	"	"	
Toxaphene	"	ND	----	232	"	"	"	"	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene				*90.3%*		*36 - 140 %*	"			"
PRL0204-07 (TP-22A/S-2)			**Soil**			**Sampled: 12/04/08 11:02**				
Aldrin	EPA 8081A	ND	----	7.66	ug/kg dry	1x	8120274	12/08/08 17:55	12/10/08 16:48	
alpha-BHC	"	ND	----	7.66	"	"	"	"	"	
beta-BHC	"	ND	----	7.66	"	"	"	"	"	
delta-BHC	"	ND	----	7.66	"	"	"	"	"	
gamma-BHC (Lindane)	"	ND	----	7.66	"	"	"	"	"	
gamma-Chlordane	"	ND	----	7.66	"	"	"	"	"	
alpha-Chlordane	"	ND	----	7.66	"	"	"	"	"	
Chlordane (tech)	"	ND	----	172	"	"	"	"	"	
4,4´-DDD	"	ND	----	7.66	"	"	"	"	"	
4,4´-DDE	"	ND	----	7.66	"	"	"	"	"	
4,4´-DDT	"	ND	----	7.66	"	"	"	"	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Organochlorine Pesticides per EPA Method 8081A

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0204-07 (TP-22A/S-2)			**Soil**			**Sampled: 12/04/08 11:02**				
Dieldrin	EPA 8081A	ND	----	7.66	ug/kg dry	1x	8120274	12/08/08 17:55	12/10/08 16:48	
Endosulfan I	"	ND	----	7.66	"	"	"	"	"	
Endosulfan II	"	ND	----	7.66	"	"	"	"	"	
Endosulfan sulfate	"	ND	----	7.66	"	"	"	"	"	
Endrin	"	ND	----	7.66	"	"	"	"	"	
Endrin aldehyde	"	ND	----	7.66	"	"	"	"	"	
Endrin ketone	"	ND	----	7.66	"	"	"	"	"	
Heptachlor	"	ND	----	7.66	"	"	"	"	"	
Heptachlor epoxide	"	ND	----	7.66	"	"	"	"	"	
Methoxychlor	"	ND	----	7.66	"	"	"	"	"	
Toxaphene	"	ND	----	229	"	"	"	"	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene				*89.8%*		*36 - 140 %*	"			"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Polychlorinated Biphenyls per EPA Method 8082

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0204-05 (TP-3A/S-2)			**Soil**			**Sampled: 12/04/08 10:09**				
Aroclor 1016	EPA 8082	ND	----	38.7	ug/kg dry	1x	8120281	12/09/08 15:55	12/10/08 18:42	
Aroclor 1221	"	ND	----	77.9	"	"	"	"	"	
Aroclor 1232	"	ND	----	38.7	"	"	"	"	"	
Aroclor 1242	"	ND	----	38.7	"	"	"	"	"	
Aroclor 1248	"	ND	----	38.7	"	"	"	"	"	
Aroclor 1254	"	ND	----	38.7	"	"	"	"	"	
Aroclor 1260	"	ND	----	38.7	"	"	"	"	"	
Surrogate(s): Decachlorobiphenyl				*82.9%*		*16 - 149 %*	"			"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Volatile Organic Compounds per EPA Method 8260B

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0204-05 (TP-3A/S-2)			**Soil**			**Sampled: 12/04/08 10:09**				
Acetone	EPA 8260B	ND	----	2720	ug/kg dry	1x	8120284	12/09/08 10:30	12/09/08 15:29	
Benzene	"	ND	----	21.8	"	"	"	"	"	
Bromobenzene	"	ND	----	109	"	"	"	"	"	
Bromochloromethane	"	ND	----	109	"	"	"	"	"	
Bromodichloromethane	"	ND	----	109	"	"	"	"	"	
Bromoform	"	ND	----	109	"	"	"	"	"	
Bromomethane	"	ND	----	545	"	"	"	"	"	
2-Butanone (MEK)	"	ND	----	1090	"	"	"	"	"	
n-Butylbenzene	"	ND	----	545	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	109	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	109	"	"	"	"	"	
Carbon disulfide	"	ND	----	1090	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	109	"	"	"	"	"	
Chlorobenzene	"	ND	----	109	"	"	"	"	"	
Chloroethane	"	ND	----	109	"	"	"	"	"	
Chloroform	"	ND	----	109	"	"	"	"	"	
Chloromethane	"	ND	----	545	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	109	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	109	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	545	"	"	"	"	"	
Dibromochloromethane	"	ND	----	109	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	109	"	"	"	"	"	
Dibromomethane	"	ND	----	109	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	109	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	109	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	109	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	545	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	109	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	109	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	109	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	109	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	109	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	109	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	109	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	109	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	109	"	"	"	"	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Volatile Organic Compounds per EPA Method 8260B

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0204-05 (TP-3A/S-2)			**Soil**			**Sampled: 12/04/08 10:09**				
cis-1,3-Dichloropropene	EPA 8260B	ND	-----	109	ug/kg dry	1x	8120284	12/09/08 10:30	12/09/08 15:29	
trans-1,3-Dichloropropene	"	ND	-----	109	"	"	"	"	"	
Ethylbenzene	"	ND	-----	109	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	436	"	"	"	"	"	
2-Hexanone	"	ND	-----	1090	"	"	"	"	"	
Isopropylbenzene	"	ND	-----	218	"	"	"	"	"	
p-Isopropyltoluene	"	ND	-----	218	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	-----	545	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	-----	109	"	"	"	"	"	
Methylene chloride	"	ND	-----	545	"	"	"	"	"	
Naphthalene	"	ND	-----	218	"	"	"	"	"	
n-Propylbenzene	"	ND	-----	109	"	"	"	"	"	
Styrene	"	ND	-----	109	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	-----	109	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	-----	109	"	"	"	"	"	
Tetrachloroethene	"	ND	-----	109	"	"	"	"	"	
Toluene	"	ND	-----	109	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	-----	109	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	109	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	-----	109	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	-----	109	"	"	"	"	"	
Trichloroethene	"	ND	-----	109	"	"	"	"	"	
Trichlorofluoromethane	"	ND	-----	109	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	-----	109	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	-----	109	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	-----	109	"	"	"	"	"	
Vinyl chloride	"	ND	-----	109	"	"	"	"	"	
o-Xylene	"	ND	-----	109	"	"	"	"	"	
m,p-Xylene	"	ND	-----	218	"	"	"	"	"	

Surrogate(s):	*4-BFB*	*92.0%*	*75 - 125 %*	"	"
	1,2-DCA-d4	*94.2%*	*75 - 125 %*	"	"
	Dibromofluoromethane	*91.8%*	*75 - 125 %*	"	"
	Toluene-d8	*95.8%*	*75 - 125 %*	"	"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Volatile Organic Compounds per EPA Method 8260B

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0204-07 (TP-22A/S-2)			**Soil**			**Sampled: 12/04/08 11:02**				
Acetone	EPA 8260B	ND	----	2660	ug/kg dry	1x	8120284	12/09/08 10:30	12/09/08 15:57	
Benzene	"	ND	----	21.3	"	"	"	"	"	
Bromobenzene	"	ND	----	106	"	"	"	"	"	
Bromochloromethane	"	ND	----	106	"	"	"	"	"	
Bromodichloromethane	"	ND	----	106	"	"	"	"	"	
Bromoform	"	ND	----	106	"	"	"	"	"	
Bromomethane	"	ND	----	532	"	"	"	"	"	
2-Butanone (MEK)	"	ND	----	1060	"	"	"	"	"	
n-Butylbenzene	"	ND	----	532	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	106	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	106	"	"	"	"	"	
Carbon disulfide	"	ND	----	1060	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	106	"	"	"	"	"	
Chlorobenzene	"	ND	----	106	"	"	"	"	"	
Chloroethane	"	ND	----	106	"	"	"	"	"	
Chloroform	"	ND	----	106	"	"	"	"	"	
Chloromethane	"	ND	----	532	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	106	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	106	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	532	"	"	"	"	"	
Dibromochloromethane	"	ND	----	106	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	106	"	"	"	"	"	
Dibromomethane	"	ND	----	106	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	106	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	106	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	106	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	532	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	106	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	106	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	106	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	106	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	106	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	106	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	106	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	106	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	106	"	"	"	"	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Volatile Organic Compounds per EPA Method 8260B

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0204-07 (TP-22A/S-2)			**Soil**			**Sampled: 12/04/08 11:02**				
cis-1,3-Dichloropropene	EPA 8260B	ND	-----	106	ug/kg dry	1x	8120284	12/09/08 10:30	12/09/08 15:57	
trans-1,3-Dichloropropene	"	ND	-----	106	"	"	"	"	"	
Ethylbenzene	"	ND	-----	106	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	425	"	"	"	"	"	
2-Hexanone	"	ND	-----	1060	"	"	"	"	"	
Isopropylbenzene	"	ND	-----	213	"	"	"	"	"	
p-Isopropyltoluene	"	ND	-----	213	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	-----	532	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	-----	106	"	"	"	"	"	
Methylene chloride	"	ND	-----	532	"	"	"	"	"	
Naphthalene	"	ND	-----	213	"	"	"	"	"	
n-Propylbenzene	"	ND	-----	106	"	"	"	"	"	
Styrene	"	ND	-----	106	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	-----	106	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	-----	106	"	"	"	"	"	
Tetrachloroethene	"	ND	-----	106	"	"	"	"	"	
Toluene	"	ND	-----	106	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	-----	106	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	106	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	-----	106	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	-----	106	"	"	"	"	"	
Trichloroethene	"	ND	-----	106	"	"	"	"	"	
Trichlorofluoromethane	"	ND	-----	106	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	-----	106	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	-----	106	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	-----	106	"	"	"	"	"	
Vinyl chloride	"	ND	-----	106	"	"	"	"	"	
o-Xylene	"	ND	-----	106	"	"	"	"	"	
m,p-Xylene	"	ND	-----	213	"	"	"	"	"	

Surrogate(s):	*4-BFB*	*95.6%*	*75 - 125 %*	"	"
	1,2-DCA-d4	*97.5%*	*75 - 125 %*	"	"
	Dibromofluoromethane	*93.0%*	*75 - 125 %*	"	"
	Toluene-d8	*97.0%*	*75 - 125 %*	"	"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Polynuclear Aromatic Compounds per EPA 8270M-SIM

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0204-05 (TP-3A/S-2)			**Soil**			**Sampled: 12/04/08 10:09**				
Acenaphthene	EPA 8270m	ND	----	15.5	ug/kg dry	1x	8120250	12/08/08 14:45	12/10/08 12:04	
Acenaphthylene	"	ND	----	15.5	"	"	"	"	"	
Anthracene	"	ND	----	15.5	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	15.5	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	15.5	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	15.5	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	15.5	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	15.5	"	"	"	"	"	
Chrysene	"	ND	----	15.5	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	15.5	"	"	"	"	"	
Fluoranthene	"	ND	----	15.5	"	"	"	"	"	
Fluorene	"	ND	----	15.5	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	15.5	"	"	"	"	"	
Naphthalene	"	ND	----	15.5	"	"	"	"	"	
Phenanthrene	"	ND	----	15.5	"	"	"	"	"	
Pyrene	"	ND	----	15.5	"	"	"	"	"	
Surrogate(s): Fluorene-d10				*53.4%*		*24 - 125 %*	"			"
Pyrene-d10				*75.0%*		*41 - 141 %*	"			"
Benzo (a) pyrene-d12				*74.8%*		*38 - 143 %*	"			"
PRL0204-07 (TP-22A/S-2)			**Soil**			**Sampled: 12/04/08 11:02**				
Acenaphthene	EPA 8270m	ND	----	15.3	ug/kg dry	1x	8120250	12/08/08 14:45	12/10/08 12:32	
Acenaphthylene	"	ND	----	15.3	"	"	"	"	"	
Anthracene	"	ND	----	15.3	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	15.3	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	15.3	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	15.3	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	15.3	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	15.3	"	"	"	"	"	
Chrysene	"	ND	----	15.3	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	15.3	"	"	"	"	"	
Fluoranthene	"	ND	----	15.3	"	"	"	"	"	
Fluorene	"	ND	----	15.3	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	15.3	"	"	"	"	"	
Naphthalene	"	ND	----	15.3	"	"	"	"	"	
Phenanthrene	"	ND	----	15.3	"	"	"	"	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Polynuclear Aromatic Compounds per EPA 8270M-SIM

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0204-07 (TP-22A/S-2)			**Soil**			**Sampled: 12/04/08 11:02**				
Pyrene	EPA 8270m	ND	----	15.3	ug/kg dry	1x	8120250	12/08/08 14:45	12/10/08 12:32	
Surrogate(s): Fluorene-d10				*64.0%*		*24 - 125 %*	"			"
Pyrene-d10				*84.9%*		*41 - 141 %*	"			"
Benzo (a) pyrene-d12				*83.8%*		*38 - 143 %*	"			"

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390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Percent Dry Weight (Solids) per Standard Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0204-01 (TP-7A/S-1)			**Soil**			**Sampled: 12/04/08 07:45**				
% Solids	NCA SOP	**94.8**	-----	0.0100	% by Weight	1x	8120294	12/09/08 10:49	12/09/08 10:49	
PRL0204-02 (TP-7A/S-2)			**Soil**			**Sampled: 12/04/08 08:14**				
% Solids	NCA SOP	**86.8**	-----	0.0100	% by Weight	1x	8120294	12/09/08 10:49	12/09/08 10:49	
PRL0204-03 (TP-5/S-2)			**Soil**			**Sampled: 12/04/08 08:57**				
% Solids	NCA SOP	**89.0**	-----	0.0100	% by Weight	1x	8120294	12/09/08 10:49	12/09/08 10:49	
PRL0204-04 (TP-6/S-2)			**Soil**			**Sampled: 12/04/08 09:30**				
% Solids	NCA SOP	**83.8**	-----	0.0100	% by Weight	1x	8120294	12/09/08 10:49	12/09/08 10:49	
PRL0204-05 (TP-3A/S-2)			**Soil**			**Sampled: 12/04/08 10:09**				
% Solids	NCA SOP	**86.0**	-----	0.0100	% by Weight	1x	8120294	12/09/08 10:49	12/09/08 10:49	
PRL0204-07 (TP-22A/S-2)			**Soil**			**Sampled: 12/04/08 11:02**				
% Solids	NCA SOP	**87.4**	-----	0.0100	% by Weight	1x	8120294	12/09/08 10:49	12/09/08 10:49	
PRL0204-09 (TP-23/S-2)			**Soil**			**Sampled: 12/04/08 11:55**				
% Solids	NCA SOP	**80.8**	-----	0.0100	% by Weight	1x	8120294	12/09/08 10:49	12/09/08 10:49	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Hydrocarbon Identification per NW-TPH Methodology - Laboratory Quality Control Results

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QC Batch: 8120237 **Soil Preparation Method: EPA 3550 Fuels**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120237-BLK1)								**Extracted: 12/08/08 06:40**						
Gasoline Range Hydrocarbons	NWTPH HCID	ND	---	20.0	mg/kg wet	1x	--	--	--	--	--	--	12/08/08 11:48	
Diesel Range Hydrocarbons	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
Heavy Oil Range Hydrocarbons	"	ND	---	100	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 102%*			*Limits: 50-150%*	"							*12/08/08 11:48*	
Duplicate (8120237-DUP1)					**QC Source: PRL0238-01**			**Extracted: 12/08/08 06:40**						
Gasoline Range Hydrocarbons	NWTPH HCID	ND	---	22.2	mg/kg dry	1x	ND	--	--	--	NR	(50)	12/08/08 12:48	
Diesel Range Hydrocarbons	"	ND	---	55.5	"	"	ND	--	--	--	110%	"	"	R4
Heavy Oil Range Hydrocarbons	"	ND	---	111	"	"	ND	--	--	--		"	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 128%*			*Limits: 50-150%*	"							*12/08/08 12:48*	
Duplicate (8120237-DUP2)					**QC Source: PRL0204-01**			**Extracted: 12/08/08 11:00**						
Gasoline Range Hydrocarbons	NWTPH HCID	ND	---	20.6	mg/kg dry	1x	ND	--	--	--		(50)	12/08/08 14:16	
Diesel Range Hydrocarbons	"	ND	---	51.6	"	"	ND	--	--	--	110%	"	"	R4
Heavy Oil Range Hydrocarbons	"	ND	---	103	"	"	121	--	--	--	114%	"	"	R4
Surrogate(s): 1-Chlorooctadecane		*Recovery: 113%*			*Limits: 50-150%*	"							*12/08/08 14:16*	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method - Laboratory Quality Control Results

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QC Batch: 8120492 **Soil Preparation Method: EPA 3550 Fuels**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120492-BLK1)								**Extracted: 12/15/08 17:00**						
Diesel Range Organics	NWTPH-Dx	ND	---	12.5	mg/kg wet	1x	--	--	--	--	--	--	12/16/08 16:27	
Heavy Oil Range Hydrocarbons	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 95.6%*			*Limits: 50-150%*	"							*12/16/08 16:27*	
LCS (8120492-BS1)								**Extracted: 12/15/08 17:00**						
Diesel Range Organics	NWTPH-Dx	139	---	12.5	mg/kg wet	1x	--	125	111%	(50-150)	--	--	12/16/08 16:43	
Heavy Oil Range Hydrocarbons	"	74.9	---	25.0	"	"	--	75.0	99.9%	"	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 101%*			*Limits: 50-150%*	"							*12/16/08 16:43*	
Duplicate (8120492-DUP1)							**QC Source: PRL0204-01**	**Extracted: 12/15/08 17:00**						
Diesel Range Organics	NWTPH-Dx	ND	---	13.4	mg/kg dry	1x	17.1	--	--	--	30.6%	(40)	12/16/08 17:01	
Heavy Oil Range Hydrocarbons	"	41.2	---	26.8	"	"	45.8	--	--	--	10.6%	"	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 87.4%*			*Limits: 50-150%*	"							*12/16/08 17:01*	

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390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

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QC Batch: 8120243 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120243-BLK1)								Extracted: 12/08/08 09:15						
Antimony	EPA 6020	ND	---	0.500	mg/kg wet	1x	--	--	--	--	--	--	12/14/08 04:00	
Arsenic	"	ND	---	0.500	"	"	--	--	--	--	--	--	12/15/08 18:02	
Beryllium	"	ND	---	0.500	"	"	--	--	--	--	--	--	12/16/08 15:48	
Cadmium	"	ND	---	0.500	"	"	--	--	--	--	--	--	12/14/08 04:00	
Chromium	"	ND	---	0.500	"	"	--	--	--	--	--	--	12/15/08 19:22	
Copper	"	ND	---	2.00	"	"	--	--	--	--	--	--	12/14/08 04:00	
Lead	"	ND	---	0.500	"	"	--	--	--	--	--	--	12/15/08 19:22	
Nickel	"	ND	---	1.00	"	"	--	--	--	--	--	--	12/15/08 18:02	
Selenium	"	ND	---	0.500	"	"	--	--	--	--	--	--	12/14/08 04:00	
Silver	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Thallium	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
LCS (8120243-BS1)								Extracted: 12/08/08 09:15						
Antimony	EPA 6020	4.59	---	0.490	mg/kg wet	1x	--	4.90	93.6%	(80-120)	--	--	12/14/08 04:08	
Arsenic	"	9.53	---	0.490	"	"	--	9.80	97.2%	"	--	--	12/15/08 18:10	
Beryllium	"	9.82	---	0.490	"	"	--	"	100%	"	--	--	12/16/08 15:56	
Cadmium	"	9.83	---	0.490	"	"	--	"	100%	"	--	--	12/14/08 04:08	
Chromium	"	9.43	---	0.490	"	"	--	"	96.2%	"	--	--	12/15/08 18:10	
Copper	"	10.2	---	1.96	"	"	--	"	104%	"	--	--	12/14/08 04:08	
Lead	"	8.81	---	0.490	"	"	--	"	89.8%	"	--	--	12/15/08 18:10	
Nickel	"	9.13	---	0.980	"	"	--	"	93.1%	"	--	--	"	
Selenium	"	9.86	---	0.490	"	"	--	"	101%	"	--	--	12/14/08 04:08	
Silver	"	5.00	---	0.490	"	"	--	4.90	102%	"	--	--	"	
Thallium	"	8.89	---	0.490	"	"	--	9.80	90.7%	"	--	--	"	
Zinc	"	9.86	---	1.96	"	"	--	"	101%	"	--	--	"	
Duplicate (8120243-DUP1)				QC Source: PRL0204-01				Extracted: 12/08/08 09:15						
Antimony	EPA 6020	ND	---	0.527	mg/kg dry	1x	ND	--	--	--	0.00%	(40)	12/14/08 04:31	
Arsenic	"	1.27	---	1.05	"	2x	1.24	--	--	--	1.68%	"	12/15/08 18:34	
Beryllium	"	ND	---	1.05	"	"	ND	--	--	--	2.60%	"	12/16/08 16:12	
Cadmium	"	ND	---	0.527	"	1x	ND	--	--	--	14.8%	"	12/14/08 04:31	
Chromium	"	12.9	---	1.05	"	2x	12.2	--	--	--	6.14%	"	12/15/08 18:34	
Copper	"	19.1	---	2.11	"	1x	17.7	--	--	--	7.47%	"	12/14/08 04:31	
Lead	"	18.7	---	1.05	"	2x	20.3	--	--	--	8.23%	"	12/15/08 18:34	
Nickel	"	77.5	---	2.11	"	"	49.1	--	--	--	44.7%	"	"	R2
Selenium	"	ND	---	0.527	"	1x	ND	--	--	--	16.7%	"	12/14/08 04:31	
Silver	"	ND	---	0.527	"	"	ND	--	--	--	0.00%	"	"	
Thallium	"	ND	---	0.527	"	"	ND	--	--	--	11.1%	"	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120243 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8120243-DUP1)					**QC Source: PRL0204-01**				**Extracted: 12/08/08 09:15**					
Zinc	EPA 6020	909	---	4.22	mg/kg dry	2x	624	--	--	--	37.2%	(40)	12/16/08 16:12	
Matrix Spike (8120243-MS1)					**QC Source: PRL0204-01**				**Extracted: 12/08/08 09:15**					
Antimony	EPA 6020	2.37	---	0.522	mg/kg dry	1x	0.174	5.22	42.1%	(70-130)	--	--	12/14/08 04:47	M8
Arsenic	"	11.3	---	1.04	"	2x	1.24	10.4	95.9%	(75-125)	--	--	12/15/08 19:06	
Beryllium	"	9.74	---	1.04	"	"	0.401	"	89.5%	"	--	--	12/16/08 16:28	
Cadmium	"	11.8	---	0.522	"	1x	0.364	"	109%	"	--	--	12/14/08 04:47	
Chromium	"	22.8	---	1.04	"	2x	12.2	"	102%	"	--	--	12/15/08 19:06	
Copper	"	34.0	---	2.09	"	1x	17.7	"	156%	"	--	--	12/14/08 04:47	M7
Lead	"	25.0	---	1.04	"	2x	20.3	"	45.0%	"	--	--	12/15/08 19:06	M8
Nickel	"	80.6	---	2.09	"	"	49.1	"	301%	"	--	--	"	M7
Selenium	"	10.3	---	0.522	"	1x	0.0686	"	97.5%	"	--	--	12/14/08 04:47	
Silver	"	5.77	---	0.522	"	"	0.105	5.22	108%	"	--	--	"	
Thallium	"	9.82	---	0.522	"	"	0.100	10.4	93.0%	"	--	--	"	
Zinc	"	234	---	4.18	"	2x	624	"	-3730%	"	--	--	12/16/08 16:28	MHA
Matrix Spike (8120243-MS2)					**QC Source: PRL0205-03**				**Extracted: 12/08/08 09:15**					
Antimony	EPA 6020	3.07	---	0.549	mg/kg dry	1x	0.384	5.49	49.0%	(70-130)	--	--	12/14/08 06:21	M8
Arsenic	"	10.8	---	0.549	"	"	1.02	11.0	88.8%	(75-125)	--	--	12/15/08 21:06	
Beryllium	"	10.5	---	0.549	"	"	0.340	"	92.3%	"	--	--	12/17/08 01:55	
Cadmium	"	11.9	---	0.549	"	"	0.170	"	107%	"	--	--	12/14/08 06:21	
Chromium	"	22.2	---	0.549	"	"	11.7	"	95.8%	"	--	--	12/15/08 21:06	
Copper	"	36.5	---	2.20	"	"	18.2	"	167%	"	--	--	12/14/08 06:21	M7
Lead	"	27.6	---	0.549	"	"	9.28	"	167%	"	--	--	12/15/08 21:06	M7
Nickel	"	44.8	---	1.10	"	"	35.1	"	87.9%	"	--	--	"	
Selenium	"	11.1	---	0.549	"	"	0.0439	"	101%	"	--	--	12/14/08 06:21	
Silver	"	6.02	---	0.549	"	"	0.104	5.49	108%	"	--	--	"	
Thallium	"	10.1	---	0.549	"	"	0.0659	11.0	91.1%	"	--	--	"	
Zinc	"	99.8	---	2.20	"	"	60.5	"	358%	"	--	--	"	MHA

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Total Mercury per EPA Method 7471A - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120248 **Soil Preparation Method: EPA 7471A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120248-BLK1)								**Extracted: 12/08/08 09:50**						
Mercury	EPA 7471A	ND	---	0.100	mg/kg wet	1x	--	--	--	--	--	--	12/08/08 17:06	
LCS (8120248-BS1)								**Extracted: 12/08/08 09:50**						
Mercury	EPA 7471A	0.621	---	0.100	mg/kg wet	1x	--	0.625	99.3%	(80-120)	--	--	12/08/08 17:09	
LCS Dup (8120248-BSD1)								**Extracted: 12/08/08 09:50**						
Mercury	EPA 7471A	0.604	---	0.100	mg/kg wet	1x	--	0.625	96.7%	(80-120)	2.71%	(20)	12/08/08 17:13	
Duplicate (8120248-DUP1)				**QC Source: PRL0204-01**				**Extracted: 12/08/08 09:50**						
Mercury	EPA 7471A	ND	---	0.100	mg/kg dry	1x	ND	--	--	--	99.4%	(40)	12/09/08 08:56	R4
Matrix Spike (8120248-MS1)				**QC Source: PRL0204-01**				**Extracted: 12/08/08 09:50**						
Mercury	EPA 7471A	0.680	---	0.0995	mg/kg dry	1x	0.00879	0.622	108%	(75-125)	--	--	12/09/08 08:58	
Matrix Spike Dup (8120248-MSD1)				**QC Source: PRL0204-01**				**Extracted: 12/08/08 09:50**						
Mercury	EPA 7471A	0.658	---	0.0972	mg/kg dry	1x	0.00879	0.608	107%	(75-125)	3.31%	(40)	12/09/08 09:02	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Organochlorine Pesticides per EPA Method 8081A - Laboratory Quality Control Results

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QC Batch: 8120274 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120274-BLK1)								**Extracted: 12/08/08 17:55**						
Aldrin	EPA 8081A	ND	---	6.65	ug/kg wet	1x	--	--	--	--	--	--	12/10/08 13:05	
alpha-BHC	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
beta-BHC	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
delta-BHC	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
gamma-BHC (Lindane)	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
gamma-Chlordane	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
alpha-Chlordane	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Chlordane (tech)	"	ND	---	149	"	"	--	--	--	--	--	--	"	
4,4´-DDD	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
4,4´-DDE	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
4,4´-DDT	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Dieldrin	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Endosulfan I	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Endosulfan II	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Endosulfan sulfate	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Endrin	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Endrin aldehyde	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Endrin ketone	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Heptachlor	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Heptachlor epoxide	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Methoxychlor	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Toxaphene	"	ND	---	198	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 106%*			*Limits: 36-140%*	"							*12/10/08 13:05*	
LCS (8120274-BS1)								**Extracted: 12/08/08 17:55**						
Aldrin	EPA 8081A	33.7	---	6.68	ug/kg wet	1x	--	33.2	102%	(64-136)	--	--	12/10/08 13:31	
gamma-BHC (Lindane)	"	33.9	---	6.68	"	"	--	"	102%	(62-140)	--	--	"	
4,4´-DDT	"	32.1	---	6.68	"	"	--	"	96.6%	(65-130)	--	--	"	
Dieldrin	"	33.9	---	6.68	"	"	--	"	102%	(70-135)	--	--	"	
Endrin	"	34.9	---	6.68	"	"	--	"	105%	(65-135)	--	--	"	
Heptachlor	"	34.1	---	6.68	"	"	--	"	103%	(48-124)	--	--	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 106%*			*Limits: 36-140%*	"							*12/10/08 13:31*	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Organochlorine Pesticides per EPA Method 8081A - Laboratory Quality Control Results

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QC Batch: 8120274 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (8120274-MS1)					QC Source: PRL0204-05				Extracted: 12/08/08 17:55					
Aldrin	EPA 8081A	37.7	---	7.70	ug/kg dry	1x	ND	38.3	98.3%	(64-136)	--	--	12/10/08 15:05	
gamma-BHC (Lindane)	"	38.7	---	7.70	"	"	ND	"	101%	(62-140)	--	--	"	
4,4'-DDT	"	36.4	---	7.70	"	"	ND	"	95.1%	(65-130)	--	--	"	
Dieldrin	"	37.8	---	7.70	"	"	ND	"	98.7%	(70-135)	--	--	"	
Endrin	"	38.6	---	7.70	"	"	ND	"	101%	(65-135)	--	--	"	
Heptachlor	"	38.4	---	7.70	"	"	ND	"	100%	(48-124)	--	--	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 88.4%*		*Limits: 36-140%*		"							*12/10/08 15:05*	
Matrix Spike Dup (8120274-MSD1)					QC Source: PRL0204-05				Extracted: 12/08/08 17:55					
Aldrin	EPA 8081A	37.8	---	7.70	ug/kg dry	1x	ND	38.3	98.7%	(64-136)	0.409%	(50)	12/10/08 15:31	
gamma-BHC (Lindane)	"	38.3	---	7.70	"	"	ND	"	100%	(62-140)	0.863%	"	"	
4,4'-DDT	"	37.2	---	7.70	"	"	ND	"	97.1%	(65-130)	2.17%	"	"	
Dieldrin	"	38.3	---	7.70	"	"	ND	"	100%	(70-135)	1.39%	"	"	
Endrin	"	39.0	---	7.70	"	"	ND	"	102%	(65-135)	1.09%	"	"	
Heptachlor	"	38.5	---	7.70	"	"	ND	"	100%	(48-124)	0.202%	"	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 93.6%*		*Limits: 36-140%*		"							*12/10/08 15:31*	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Polychlorinated Biphenyls per EPA Method 8082 - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120281 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120281-BLK1)								**Extracted: 12/09/08 15:55**						
Aroclor 1016	EPA 8082	ND	---	32.9	ug/kg wet	1x	--	--	--	--	--	--	12/11/08 18:22	
Aroclor 1221	"	ND	---	66.3	"	"	--	--	--	--	--	--	"	
Aroclor 1232	"	ND	---	32.9	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	32.9	"	"	--	--	--	--	--	--	"	
Aroclor 1248	"	ND	---	32.9	"	"	--	--	--	--	--	--	"	
Aroclor 1254	"	ND	---	32.9	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	32.9	"	"	--	--	--	--	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 90.8%*			*Limits: 16-149%*	*"*							*12/11/08 18:22*	
LCS (8120281-BS1)								**Extracted: 12/09/08 15:55**						
Aroclor 1016	EPA 8082	291	---	32.9	ug/kg wet	1x	--	329	88.5%	(57-135)	--	--	12/11/08 18:45	
Aroclor 1260	"	303	---	32.9	"	"	--	"	92.2%	(60-135)	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 89.6%*			*Limits: 16-149%*	*"*							*12/11/08 18:45*	
Matrix Spike (8120281-MS1)					**QC Source: PRL0090-01**			**Extracted: 12/09/08 15:55**						
Aroclor 1016	EPA 8082	379	---	42.6	ug/kg dry	1x	ND	426	88.9%	(37-145)	--	--	12/11/08 17:37	
Aroclor 1260	"	450	---	42.6	"	"	ND	"	106%	(25-144)	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 93.1%*			*Limits: 16-149%*	*"*							*12/11/08 17:37*	
Matrix Spike Dup (8120281-MSD1)					**QC Source: PRL0090-01**			**Extracted: 12/09/08 15:55**						
Aroclor 1016	EPA 8082	346	---	42.6	ug/kg dry	1x	ND	427	81.2%	(37-145)	9.00%	(26)	12/11/08 17:59	
Aroclor 1260	"	439	---	42.6	"	"	ND	"	103%	(25-144)	2.53%	(30)	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 82.8%*			*Limits: 16-149%*	*"*							*12/11/08 17:59*	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120284 **Soil Preparation Method: EPA 5035A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120284-BLK1)								**Extracted: 12/09/08 09:00**						
Acetone	EPA 8260B	ND	---	2500	ug/kg wet	1x	--	--	--	--	--	--	12/09/08 13:28	
Benzene	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	499	"	"	--	--	--	--	--	--	"	
2-Butanone (MEK)	"	ND	---	998	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	499	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	998	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	499	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	499	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	499	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120284 **Soil Preparation Method: EPA 5035A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120284-BLK1)								**Extracted: 12/09/08 09:00**						
Hexachlorobutadiene	EPA 8260B	ND	---	399	ug/kg wet	1x	--	--	--	--	--	--	12/09/08 13:28	
2-Hexanone	"	ND	---	998	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	200	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	200	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	499	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	499	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	200	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	200	"	"	--	--	--	--	--	--	"	

Surrogate(s):	*4-BFB*	*Recovery:*	*93.0%*	*Limits:* *75-125%*	*"*	*12/09/08 13:28*
	1,2-DCA-d4		*98.9%*	*75-125%*	*"*	*"*
	Dibromofluoromethane		*95.8%*	*75-125%*	*"*	*"*
	Toluene-d8		*97.2%*	*75-125%*	*"*	*"*

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120284 **Soil Preparation Method: EPA 5035A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (8120284-BS1)								Extracted: 12/09/08 09:00						
Benzene	EPA 8260B	1810	---	19.9	ug/kg wet	1x	--	1990	91.2%	(81.9-125)	--	--	12/09/08 10:25	
Chlorobenzene	"	1900	---	99.5	"	"	--	"	95.3%	(79.2-125)	--	--	"	
1,1-Dichloroethene	"	1720	---	99.5	"	"	--	"	86.2%	(66.1-125)	--	--	"	
Toluene	"	1860	---	99.5	"	"	--	"	93.5%	(80-125)	--	--	"	
Trichloroethene	"	1860	---	99.5	"	"	--	"	93.5%	(76-125)	--	--	"	
Surrogate(s): 4-BFB		*Recovery: 97.6%*			*Limits: 75-125%*	"							*12/09/08 10:25*	
1,2-DCA-d4		*93.8%*			*75-125%*	"							"	
Dibromofluoromethane		*96.7%*			*75-125%*	"							"	
Toluene-d8		*97.4%*			*75-125%*	"							"	
Matrix Spike (8120284-MS1)					QC Source: PRL0267-01			Extracted: 12/09/08 10:30						
Benzene	EPA 8260B	2900	---	32.3	ug/kg dry	1x	ND	3230	90.0%	(68.5-125)	--	--	12/09/08 12:01	
Chlorobenzene	"	3060	---	161	"	"	ND	"	95.0%	(65.9-125)	--	--	"	
1,1-Dichloroethene	"	2860	---	161	"	"	ND	"	88.6%	(55.8-125)	--	--	"	
Toluene	"	3020	---	161	"	"	ND	"	93.6%	(70.3-125)	--	--	"	
Trichloroethene	"	2980	---	161	"	"	ND	"	92.3%	(65.5-125)	--	--	"	
Surrogate(s): 4-BFB		*Recovery: 98.6%*			*Limits: 75-125%*	"							*12/09/08 12:01*	
1,2-DCA-d4		*96.2%*			*75-125%*	"							"	
Dibromofluoromethane		*99.5%*			*75-125%*	"							"	
Toluene-d8		*99.6%*			*75-125%*	"							"	
Matrix Spike Dup (8120284-MSD1)					QC Source: PRL0267-01			Extracted: 12/09/08 10:30						
Benzene	EPA 8260B	2930	---	32.3	ug/kg dry	1x	ND	3230	90.9%	(68.5-125)	0.939%	(25)	12/09/08 12:30	
Chlorobenzene	"	3100	---	161	"	"	ND	"	96.2%	(65.9-125)	1.31%	"	"	
1,1-Dichloroethene	"	2950	---	161	"	"	ND	"	91.5%	(55.8-125)	3.22%	"	"	
Toluene	"	3090	---	161	"	"	ND	"	95.8%	(70.3-125)	2.38%	"	"	
Trichloroethene	"	2950	---	161	"	"	ND	"	91.5%	(65.5-125)	0.816%	"	"	
Surrogate(s): 4-BFB		*Recovery: 98.1%*			*Limits: 75-125%*	"							*12/09/08 12:30*	
1,2-DCA-d4		*96.2%*			*75-125%*	"							"	
Dibromofluoromethane		*97.7%*			*75-125%*	"							"	
Toluene-d8		*98.1%*			*75-125%*	"							"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120250 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120250-BLK1)								**Extracted: 12/08/08 14:45**						
Benzo (e) pyrene	EPA 8270m	ND	---	13.3	ug/kg wet	1x	--	--	--	--	--	--	12/09/08 17:30	ID5
Acenaphthene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Acenaphthylene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	ID4
Chrysene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Surrogate(s): Fluorene-d10		*Recovery: 47.3%*			*Limits: 24-125%*	"							*12/09/08 17:30*	
Pyrene-d10		*76.6%*			*41-141%*	"							"	
Benzo (a) pyrene-d12		*76.1%*			*38-143%*	"							"	
LCS (8120250-BS1)								**Extracted: 12/08/08 14:45**						
Acenaphthene	EPA 8270m	161	---	13.4	ug/kg wet	1x	--	166	97.1%	(33-139)	--	--	12/09/08 17:59	
Benzo (a) pyrene	"	148	---	13.4	"	"	--	"	89.2%	(45-149)	--	--	"	
Pyrene	"	159	---	13.4	"	"	--	"	95.7%	(39-138)	--	--	"	
Surrogate(s): Fluorene-d10		*Recovery: 61.9%*			*Limits: 24-125%*	"							*12/09/08 17:59*	
Pyrene-d10		*83.1%*			*41-141%*	"							"	
Benzo (a) pyrene-d12		*84.9%*			*38-143%*	"							"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120250 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (8120250-MS1)					QC Source: PRL0016-13				Extracted: 12/08/08 14:45					
Acenaphthene	EPA 8270m	184	---	161	ug/kg dry	10x	ND	200	91.8%	(33-139)	--	--	12/09/08 18:28	
Benzo (a) pyrene	"	221	---	161	"	"	82.4	"	69.3%	(45-149)	--	--	"	
Pyrene	"	266	---	161	"	"	124	"	70.8%	(39-138)	--	--	"	
Surrogate(s):	*Fluorene-d10*	*Recovery:*	*76.6%*		*Limits:*	*24-125%*	"						*12/09/08 18:28*	
	Pyrene-d10		*71.2%*			*41-141%*	"						"	
	Benzo (a) pyrene-d12		*72.6%*			*38-143%*	"						"	
Matrix Spike Dup (8120250-MSD1)					QC Source: PRL0016-13				Extracted: 12/08/08 14:45					
Acenaphthene	EPA 8270m	181	---	160	ug/kg dry	10x	ND	199	91.0%	(33-139)	1.44%	(60)	12/09/08 18:57	
Benzo (a) pyrene	"	214	---	160	"	"	82.4	"	66.1%	(45-149)	3.29%	"	"	
Pyrene	"	275	---	160	"	"	124	"	75.6%	(39-138)	3.27%	"	"	
Surrogate(s):	*Fluorene-d10*	*Recovery:*	*68.1%*		*Limits:*	*24-125%*	"						*12/09/08 18:57*	
	Pyrene-d10		*74.8%*			*41-141%*	"						"	
	Benzo (a) pyrene-d12		*73.9%*			*38-143%*	"						"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Percent Dry Weight (Solids) per Standard Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120294 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8120294-DUP1)					**QC Source: PRL0016-01**				**Extracted: 12/09/08 10:49**					
% Solids	NCA SOP	94.3	---	0.0100	% by Weight	1x	92.5	--	--	--	1.93%	(20)	12/09/08 10:49	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:21

Notes and Definitions

Report Specific Notes:

ID4	-	Benzo(j)fluoranthene coelutes with Benzo(k)fluoranthene. The reported result is a summation of the isomers and the concentration is based on the response factor of Benzo(k)fluoranthene.
ID5	-	Benzo(e)pyrene concentration is based on the response factor of Benzo(a)pyrene, and has not been calibrated independently.
M7	-	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
M8	-	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
MHA	-	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
Q6	-	Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
R2	-	The RPD exceeded the acceptance limit.
R4	-	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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2000 W. International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: PRL0204

CLIENT: PBS Engineering + Environmental

REPORT TO: Toby Scott
ADDRESS: 390 NE Emerson
Bend OR 97701
PHONE: 541.388.9590 FAX: 541.388.5116

INVOICE TO: PBS - BEND

P.O. NUMBER:

PROJECT NAME: DSL

PROJECT NUMBER: 80416

SAMPLED BY: DH

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: ~~10~~ STD. | 7 | 5 | 4 | 3 | 2 | 1 | <1

Petroleum Hydrocarbon Analyses: ~~5~~ STD. | 4 | 3 | 2 | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE: metals (c)

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	TPH HCID	EPA Priority Metals	8270 PAH	8260B VOC	TOC 415.1	Org. Pest 8081		HOLD						MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	TP-7A/S-1	12-4-08/745	X	X												S	3		
2	TP-7A/S-2	/814	X	X															
3	TP-5/S-2	/857	X	X	X	X	X	X											
4	TP-6/S-2	/930	X	X															
5	TP-3A/S-2	/1009	X	X															
6	TP-22/S-1	/1040								X									
7	TP-22/S-2	/1102	X	X	X	X	X	X											
8	TP-23/S-1	/1130								X									
9	TP-23/S-2	/1155	X	X															
10																			

RELEASED BY: Toby Scott
PRINT NAME: Toby Scott FIRM: PBS DATE: 12/4/08 TIME: 1530

RECEIVED BY: [signature] PRINT NAME: FIRM: TAP DATE: 12/5/08 TIME: 0930

RELEASED BY: PRINT NAME: FIRM: DATE: TIME:

RECEIVED BY: PRINT NAME: FIRM: DATE: TIME:

ADDITIONAL REMARKS:

TEMP: 4.1 C

TAL-1000(0408)

TestAmerica Sample Receipt Checklist

Cooler ID(s):

Received by: *(section A)* Date: 12/5/08 Time: 0930 Initials: BLE

Unpacked by: *(section B)* Date: 12/5/08 Initials: BLE

Logged-in by: Date: 12/5/08 Initials: JM

Work Order No. PRL0204
Client: PBS Bend
Project: DSL

Temperature out of range:
___Not enough Ice
___No Ice
___Ice Melted
___W/in 4 Hours
___Other:_____

***ESI Clients *(see Section C)*

Digi #1
Digi #2

Cooler Temperature (IR): 4.1 °C plastic glass NA *(oil/air samples, ESI client)* Temperature Blank: _____°C

A

Custody Seals: (#___)

Signature: Y N Dated:_____
X None

Container Type:
1 #Cooler(s)
___#Box(s)
___None (___#Other:_____)

Coolant Type:
___Gel Ice
X Loose Ice
___None

Packing Material:
X Bubble Bags
___Styrofoam Cubbies
___Peanuts
___None (___Other:_____)

Received from:
___TA Courier
___Senvoy
___UPS
X Fed Ex
___Client
___TDP
___DHL
___SDS
___Mid-Valley
___GS/TA
___GS/Senvoy
___Other:
_____

B

Sample Status:
(If N circled, see NOD)

General:			
Intact?	Y	N	
# Containers Match COC?	Y	N	none given
IDs Match COC?	Y	N	
For Analyses Requested:			
Cyanide Checked?	Y	N	NA
Correct Type & Preservation?	Y	N	
Adequate Volume?	Y	N	
Within Hold Time?	Y	N	
Volatiles/ Oil Quality:			
VOAs/ Syringes free of Headspace?	Y	N	NA
TB on COC? not provided	Y	N	NA
Metals:			
HNO3 Preserved?	Y	N	NA
Dissolved Metals Filtered?	Y	N	NA

C

***ESI Clients Only:

Temperature Blank: _____°C not provided Digi: # 1 #2

All preserved bottles checked Y N NA *(voas/soils/all unp.)*
All preserved accordingly? Y N *(see NOD)* NA *(voas/soils/all unp.)*

FED EX/ UPS: Was the tracking paper keepable? YES NO

If circled NO, what is the Tracking number? _____

FED EX Goldstreak UPS DHL Other: _____

Project Managers:

Comments:_____

*PM Reviewed:*_____ *(Initial/Date)*

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

ORELAP#: OR100021

December 17, 2008

Toby Scott
PBS Engineering - Bend
390 NE Emerson Ave Suite C
Bend, OR 97701

RE: DSL

Enclosed are the results of analyses for samples received by the laboratory on 12/05/08 09:30. The following list is a summary of the Work Orders contained in this report, generated on 12/17/08 15:41.

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

Work Order	Project	ProjectNumber
PRL0205	DSL	80416

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-16/S-2	PRL0205-01	Soil	12/03/08 11:00	12/05/08 09:30
TP-17/S-1	PRL0205-02	Soil	12/03/08 11:17	12/05/08 09:30
TP-17/S-2	PRL0205-03	Soil	12/03/08 11:46	12/05/08 09:30
TP-18A/S-2	PRL0205-05	Soil	12/03/08 13:13	12/05/08 09:30
TP-19/S-1	PRL0205-06	Soil	12/03/08 13:42	12/05/08 09:30
TP-19/S-2	PRL0205-07	Soil	12/03/08 14:10	12/05/08 09:30
TP-20/S-1	PRL0205-08	Soil	12/03/08 14:35	12/05/08 09:30
TP-20/S-2	PRL0205-09	Soil	12/03/08 14:50	12/05/08 09:30
TP-21/S-1	PRL0205-10	Soil	12/03/08 15:23	12/05/08 09:30
TP-21/S-2	PRL0205-11	Soil	12/03/08 15:45	12/05/08 09:30

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Hydrocarbon Identification per NW-TPH Methodology

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0205-01 (TP-16/S-2)			**Soil**			**Sampled: 12/03/08 11:00**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	21.0	mg/kg dry	1x	8120237	12/08/08 11:00	12/08/08 18:28	
Diesel Range Hydrocarbons	"	ND	----	52.4	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	105	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*110%*		*50 - 150 %*	"			"
PRL0205-02 (TP-17/S-1)			**Soil**			**Sampled: 12/03/08 11:17**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	20.0	mg/kg dry	1x	8120237	12/08/08 11:00	12/08/08 19:01	
Diesel Range Hydrocarbons	"	ND	----	49.9	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	99.9	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*128%*		*50 - 150 %*	"			"
PRL0205-03 (TP-17/S-2)			**Soil**			**Sampled: 12/03/08 11:46**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	20.9	mg/kg dry	1x	8120237	12/08/08 11:00	12/08/08 19:33	
Diesel Range Hydrocarbons	"	ND	----	52.2	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	104	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*103%*		*50 - 150 %*	"			"
PRL0205-05 (TP-18A/S-2)			**Soil**			**Sampled: 12/03/08 13:13**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	21.6	mg/kg dry	1x	8120237	12/08/08 11:00	12/08/08 20:05	
Diesel Range Hydrocarbons	"	ND	----	53.9	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	108	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*119%*		*50 - 150 %*	"			"
PRL0205-06 (TP-19/S-1)			**Soil**			**Sampled: 12/03/08 13:42**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	19.6	mg/kg dry	1x	8120237	12/08/08 11:00	12/08/08 20:38	
Diesel Range Hydrocarbons	"	ND	----	49.0	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	97.9	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*130%*		*50 - 150 %*	"			"
PRL0205-07 (TP-19/S-2)			**Soil**			**Sampled: 12/03/08 14:10**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	20.9	mg/kg dry	1x	8120237	12/08/08 11:00	12/08/08 21:10	
Diesel Range Hydrocarbons	"	ND	----	52.3	"	"	"	"	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Hydrocarbon Identification per NW-TPH Methodology

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0205-07 (TP-19/S-2)			**Soil**			**Sampled: 12/03/08 14:10**				
Heavy Oil Range Hydrocarbons	NWTPH HCID	ND	----	105	mg/kg dry	1x	8120237	12/08/08 11:00	12/08/08 21:10	
Surrogate(s): 1-Chlorooctadecane				*122%*		*50 - 150 %*	"			"
PRL0205-08 (TP-20/S-1)			**Soil**			**Sampled: 12/03/08 14:35**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	20.0	mg/kg dry	1x	8120237	12/08/08 11:00	12/08/08 21:42	
Diesel Range Hydrocarbons	"	ND	----	49.9	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	99.9	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*134%*		*50 - 150 %*	"			"
PRL0205-09 (TP-20/S-2)			**Soil**			**Sampled: 12/03/08 14:50**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	22.3	mg/kg dry	1x	8120237	12/08/08 11:00	12/08/08 22:14	
Diesel Range Hydrocarbons	"	ND	----	55.7	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	**DET**	----	111	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*110%*		*50 - 150 %*	"			"
PRL0205-10 (TP-21/S-1)			**Soil**			**Sampled: 12/03/08 15:23**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	18.6	mg/kg dry	1x	8120237	12/08/08 11:00	12/09/08 00:23	
Diesel Range Hydrocarbons	"	ND	----	46.6	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	93.2	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*95.1%*		*50 - 150 %*	"			"
PRL0205-11 (TP-21/S-2)			**Soil**			**Sampled: 12/03/08 15:45**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	20.9	mg/kg dry	1x	8120237	12/08/08 11:00	12/09/08 00:55	
Diesel Range Hydrocarbons	"	ND	----	52.3	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	105	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*119%*		*50 - 150 %*	"			"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0205-09 (TP-20/S-2)			**Soil**			**Sampled: 12/03/08 14:50**				
Diesel Range Organics	NWTPH-Dx	**76.6**	-----	14.2	mg/kg dry	1x	8120492	12/15/08 17:00	12/16/08 17:37	**Q13**
Heavy Oil Range Hydrocarbons	"	**268**	-----	28.5	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*77.4%*		*50 - 150 %*	"			"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Total Metals per EPA 6000/7000 Series Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0205-01 (TP-16/S-2)			**Soil**			**Sampled: 12/03/08 11:00**				
Antimony	EPA 6020	ND	-----	0.538	mg/kg dry	1x	8120243	12/08/08 09:15	12/14/08 05:58	
Arsenic	"	**1.28**	-----	0.538	"	"	"	"	12/15/08 20:25	
Beryllium	"	ND	-----	0.538	"	"	"	"	12/17/08 01:31	
Cadmium	"	ND	-----	0.538	"	"	"	"	12/14/08 05:58	
Chromium	"	**11.5**	-----	0.538	"	"	"	"	12/15/08 20:25	
Copper	"	**17.9**	-----	2.15	"	"	"	"	12/14/08 05:58	
Lead	"	**23.6**	-----	0.538	"	"	"	"	12/15/08 20:25	
Nickel	"	**18.5**	-----	1.08	"	"	"	"	"	
Selenium	"	ND	-----	0.538	"	"	"	"	12/14/08 05:58	
Silver	"	ND	-----	0.538	"	"	"	"	"	
Thallium	"	ND	-----	0.538	"	"	"	"	"	
Zinc	"	**87.9**	-----	2.15	"	"	"	"	"	
PRL0205-02 (TP-17/S-1)			**Soil**			**Sampled: 12/03/08 11:17**				
Antimony	EPA 6020	ND	-----	0.526	mg/kg dry	1x	8120243	12/08/08 09:15	12/14/08 06:05	
Arsenic	"	**1.25**	-----	0.526	"	"	"	"	12/15/08 20:33	
Beryllium	"	ND	-----	0.526	"	"	"	"	12/17/08 01:39	
Cadmium	"	ND	-----	0.526	"	"	"	"	12/14/08 06:05	
Chromium	"	**15.7**	-----	0.526	"	"	"	"	12/15/08 20:33	
Copper	"	**15.9**	-----	2.10	"	"	"	"	12/14/08 06:05	
Lead	"	**19.4**	-----	0.526	"	"	"	"	12/15/08 20:33	
Nickel	"	**19.4**	-----	1.05	"	"	"	"	"	
Selenium	"	ND	-----	0.526	"	"	"	"	12/14/08 06:05	
Silver	"	ND	-----	0.526	"	"	"	"	"	
Thallium	"	ND	-----	0.526	"	"	"	"	"	
Zinc	"	**35.4**	-----	2.10	"	"	"	"	"	
PRL0205-03 (TP-17/S-2)			**Soil**			**Sampled: 12/03/08 11:46**				
Antimony	EPA 6020	ND	-----	0.549	mg/kg dry	1x	8120243	12/08/08 09:15	12/14/08 06:13	
Arsenic	"	**1.02**	-----	0.549	"	"	"	"	12/15/08 20:57	
Beryllium	"	ND	-----	0.549	"	"	"	"	12/17/08 01:47	
Cadmium	"	ND	-----	0.549	"	"	"	"	12/14/08 06:13	
Chromium	"	**11.7**	-----	0.549	"	"	"	"	12/15/08 20:57	
Copper	"	**18.2**	-----	2.20	"	"	"	"	12/14/08 06:13	
Lead	"	**9.28**	-----	0.549	"	"	"	"	12/15/08 20:57	
Nickel	"	**35.1**	-----	1.10	"	"	"	"	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0205-03 (TP-17/S-2)			**Soil**			**Sampled: 12/03/08 11:46**				
Selenium	EPA 6020	ND	-----	0.549	mg/kg dry	1x	8120243	12/08/08 09:15	12/14/08 06:13	
Silver	"	ND	-----	0.549	"	"	"	"	"	
Thallium	"	ND	-----	0.549	"	"	"	"	"	
Zinc	"	**60.5**	-----	2.20	"	"	"	"	"	
PRL0205-05 (TP-18A/S-2)			**Soil**			**Sampled: 12/03/08 13:13**				
Antimony	EPA 6020	ND	-----	0.554	mg/kg dry	1x	8120243	12/08/08 09:15	12/14/08 06:29	
Arsenic	"	**0.897**	-----	0.554	"	"	"	"	12/15/08 21:13	
Beryllium	"	ND	-----	0.554	"	"	"	"	12/17/08 02:02	
Cadmium	"	ND	-----	0.554	"	"	"	"	12/14/08 06:29	
Chromium	"	**12.6**	-----	0.554	"	"	"	"	12/15/08 21:13	
Copper	"	**16.3**	-----	2.21	"	"	"	"	12/14/08 06:29	
Lead	"	**8.08**	-----	0.554	"	"	"	"	12/15/08 21:13	
Nickel	"	**35.9**	-----	1.11	"	"	"	"	"	
Selenium	"	ND	-----	0.554	"	"	"	"	12/14/08 06:29	
Silver	"	ND	-----	0.554	"	"	"	"	"	
Thallium	"	ND	-----	0.554	"	"	"	"	"	
Zinc	"	**53.7**	-----	2.21	"	"	"	"	"	
PRL0205-06 (TP-19/S-1)			**Soil**			**Sampled: 12/03/08 13:42**				
Antimony	EPA 6020	ND	-----	0.492	mg/kg dry	1x	8120243	12/08/08 09:15	12/14/08 06:37	
Arsenic	"	**1.02**	-----	0.492	"	"	"	"	12/15/08 21:21	
Beryllium	"	ND	-----	0.492	"	"	"	"	12/17/08 02:10	
Cadmium	"	ND	-----	0.492	"	"	"	"	12/14/08 06:37	
Chromium	"	**12.8**	-----	0.492	"	"	"	"	12/15/08 21:21	
Copper	"	**17.3**	-----	1.97	"	"	"	"	12/14/08 06:37	
Lead	"	**2.56**	-----	0.492	"	"	"	"	12/15/08 21:21	
Nickel	"	**34.1**	-----	0.985	"	"	"	"	"	
Selenium	"	ND	-----	0.492	"	"	"	"	12/14/08 06:37	
Silver	"	ND	-----	0.492	"	"	"	"	"	
Thallium	"	ND	-----	0.492	"	"	"	"	"	
Zinc	"	**30.4**	-----	1.97	"	"	"	"	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0205-07 (TP-19/S-2)			**Soil**			**Sampled: 12/03/08 14:10**				
Antimony	EPA 6020	ND	-----	0.536	mg/kg dry	1x	8120243	12/08/08 09:15	12/14/08 06:45	
Arsenic	"	**1.68**	-----	0.536	"	"	"	"	12/15/08 21:29	
Beryllium	"	ND	-----	0.536	"	"	"	"	12/17/08 02:18	
Cadmium	"	ND	-----	0.536	"	"	"	"	12/14/08 06:45	
Chromium	"	**17.1**	-----	0.536	"	"	"	"	12/15/08 21:29	
Copper	"	**41.7**	-----	2.14	"	"	"	"	12/14/08 06:45	
Lead	"	**2.44**	-----	0.536	"	"	"	"	12/15/08 21:29	
Nickel	"	**70.0**	-----	1.07	"	"	"	"	"	
Selenium	"	ND	-----	0.536	"	"	"	"	12/14/08 06:45	
Silver	"	ND	-----	0.536	"	"	"	"	"	
Thallium	"	ND	-----	0.536	"	"	"	"	"	
Zinc	"	**56.8**	-----	2.14	"	"	"	"	"	
PRL0205-08 (TP-20/S-1)			**Soil**			**Sampled: 12/03/08 14:35**				
Antimony	EPA 6020	ND	-----	0.500	mg/kg dry	1x	8120243	12/08/08 09:15	12/14/08 07:08	
Arsenic	"	**1.10**	-----	0.500	"	"	"	"	12/15/08 21:37	
Beryllium	"	ND	-----	0.500	"	"	"	"	12/17/08 02:26	
Cadmium	"	ND	-----	0.500	"	"	"	"	12/14/08 07:08	
Chromium	"	**12.9**	-----	0.500	"	"	"	"	12/15/08 21:37	
Copper	"	**19.3**	-----	2.00	"	"	"	"	12/14/08 07:08	
Lead	"	**2.79**	-----	0.500	"	"	"	"	12/15/08 21:37	
Nickel	"	**36.2**	-----	1.00	"	"	"	"	"	
Selenium	"	ND	-----	0.500	"	"	"	"	12/14/08 07:08	
Silver	"	ND	-----	0.500	"	"	"	"	"	
Thallium	"	ND	-----	0.500	"	"	"	"	"	
Zinc	"	**32.5**	-----	2.00	"	"	"	"	"	
PRL0205-09 (TP-20/S-2)			**Soil**			**Sampled: 12/03/08 14:50**				
Antimony	EPA 6020	ND	-----	0.553	mg/kg dry	1x	8120243	12/08/08 09:15	12/14/08 07:16	
Arsenic	"	**1.90**	-----	0.553	"	"	"	"	12/15/08 21:45	
Beryllium	"	ND	-----	0.553	"	"	"	"	12/17/08 02:50	
Cadmium	"	ND	-----	0.553	"	"	"	"	12/14/08 07:16	
Chromium	"	**17.7**	-----	0.553	"	"	"	"	12/15/08 21:45	
Copper	"	**28.3**	-----	2.21	"	"	"	"	12/14/08 07:16	
Lead	"	**26.0**	-----	0.553	"	"	"	"	12/15/08 21:45	
Nickel	"	**39.6**	-----	1.11	"	"	"	"	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0205-09 (TP-20/S-2)			**Soil**			**Sampled: 12/03/08 14:50**				
Selenium	EPA 6020	ND	-----	0.553	mg/kg dry	1x	8120243	12/08/08 09:15	12/14/08 07:16	
Silver	"	ND	-----	0.553	"	"	"	"	"	
Thallium	"	ND	-----	0.553	"	"	"	"	"	
Zinc	"	**95.3**	-----	2.21	"	"	"	"	"	
PRL0205-10 (TP-21/S-1)			**Soil**			**Sampled: 12/03/08 15:23**				
Antimony	EPA 6020	ND	-----	0.491	mg/kg dry	1x	8120243	12/08/08 09:15	12/14/08 07:24	
Arsenic	"	**1.00**	-----	0.491	"	"	"	"	12/15/08 21:53	
Beryllium	"	ND	-----	0.491	"	"	"	"	12/17/08 02:58	
Cadmium	"	ND	-----	0.491	"	"	"	"	12/14/08 07:24	
Chromium	"	**12.4**	-----	0.491	"	"	"	"	12/15/08 21:53	
Copper	"	**20.5**	-----	1.96	"	"	"	"	12/14/08 07:24	
Lead	"	**2.66**	-----	0.491	"	"	"	"	12/15/08 21:53	
Nickel	"	**35.8**	-----	0.982	"	"	"	"	"	
Selenium	"	ND	-----	0.491	"	"	"	"	12/14/08 07:24	
Silver	"	ND	-----	0.491	"	"	"	"	"	
Thallium	"	ND	-----	0.491	"	"	"	"	"	
Zinc	"	**36.9**	-----	1.96	"	"	"	"	"	
PRL0205-11 (TP-21/S-2)			**Soil**			**Sampled: 12/03/08 15:45**				
Antimony	EPA 6020	ND	-----	0.523	mg/kg dry	1x	8120243	12/08/08 09:15	12/14/08 07:32	
Arsenic	"	**0.988**	-----	0.523	"	"	"	"	12/15/08 22:01	
Beryllium	"	ND	-----	0.523	"	"	"	"	12/17/08 03:05	
Cadmium	"	ND	-----	0.523	"	"	"	"	12/14/08 07:32	
Chromium	"	**12.9**	-----	0.523	"	"	"	"	12/15/08 22:01	
Copper	"	**18.2**	-----	2.09	"	"	"	"	12/14/08 07:32	
Lead	"	**2.82**	-----	0.523	"	"	"	"	12/15/08 22:01	
Nickel	"	**42.8**	-----	1.05	"	"	"	"	"	
Selenium	"	ND	-----	0.523	"	"	"	"	12/14/08 07:32	
Silver	"	ND	-----	0.523	"	"	"	"	"	
Thallium	"	ND	-----	0.523	"	"	"	"	"	
Zinc	"	**37.0**	-----	2.09	"	"	"	"	"	

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Total Mercury per EPA Method 7471A

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0205-01 (TP-16/S-2)			**Soil**			**Sampled: 12/03/08 11:00**				
Mercury	EPA 7471A	ND	----	0.0851	mg/kg dry	1x	8120248	12/08/08 09:50	12/09/08 09:30	
PRL0205-02 (TP-17/S-1)			**Soil**			**Sampled: 12/03/08 11:17**				
Mercury	EPA 7471A	ND	----	0.0801	mg/kg dry	1x	8120248	12/08/08 09:50	12/09/08 09:32	
PRL0205-03 (TP-17/S-2)			**Soil**			**Sampled: 12/03/08 11:46**				
Mercury	EPA 7471A	ND	----	0.0955	mg/kg dry	1x	8120248	12/08/08 09:50	12/09/08 09:34	
PRL0205-05 (TP-18A/S-2)			**Soil**			**Sampled: 12/03/08 13:13**				
Mercury	EPA 7471A	ND	----	0.0947	mg/kg dry	1x	8120248	12/08/08 09:50	12/09/08 09:36	
PRL0205-06 (TP-19/S-1)			**Soil**			**Sampled: 12/03/08 13:42**				
Mercury	EPA 7471A	ND	----	0.0891	mg/kg dry	1x	8120248	12/08/08 09:50	12/09/08 09:39	
PRL0205-07 (TP-19/S-2)			**Soil**			**Sampled: 12/03/08 14:10**				
Mercury	EPA 7471A	ND	----	0.0816	mg/kg dry	1x	8120248	12/08/08 09:50	12/09/08 09:41	
PRL0205-08 (TP-20/S-1)			**Soil**			**Sampled: 12/03/08 14:35**				
Mercury	EPA 7471A	ND	----	0.0943	mg/kg dry	1x	8120248	12/08/08 09:50	12/09/08 09:43	
PRL0205-09 (TP-20/S-2)			**Soil**			**Sampled: 12/03/08 14:50**				
Mercury	EPA 7471A	ND	----	0.109	mg/kg dry	1x	8120248	12/08/08 09:50	12/09/08 09:45	
PRL0205-10 (TP-21/S-1)			**Soil**			**Sampled: 12/03/08 15:23**				
Mercury	EPA 7471A	ND	----	0.0798	mg/kg dry	1x	8120248	12/08/08 09:50	12/09/08 09:48	
PRL0205-11 (TP-21/S-2)			**Soil**			**Sampled: 12/03/08 15:45**				
Mercury	EPA 7471A	ND	----	0.0991	mg/kg dry	1x	8120248	12/08/08 09:50	12/09/08 09:50	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Organochlorine Pesticides per EPA Method 8081A

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0205-05 (TP-18A/S-2)			**Soil**			**Sampled: 12/03/08 13:13**				
Aldrin	EPA 8081A	ND	----	7.32	ug/kg dry	1x	8120274	12/08/08 17:55	12/10/08 17:14	
alpha-BHC	"	ND	----	7.32	"	"	"	"	"	
beta-BHC	"	ND	----	7.32	"	"	"	"	"	
delta-BHC	"	ND	----	7.32	"	"	"	"	"	
gamma-BHC (Lindane)	"	ND	----	7.32	"	"	"	"	"	
gamma-Chlordane	"	ND	----	7.32	"	"	"	"	"	
alpha-Chlordane	"	ND	----	7.32	"	"	"	"	"	
Chlordane (tech)	"	ND	----	164	"	"	"	"	"	
4,4´-DDD	"	ND	----	7.32	"	"	"	"	"	
4,4´-DDE	"	ND	----	7.32	"	"	"	"	"	
4,4´-DDT	"	ND	----	7.32	"	"	"	"	"	
Dieldrin	"	ND	----	7.32	"	"	"	"	"	
Endosulfan I	"	ND	----	7.32	"	"	"	"	"	
Endosulfan II	"	ND	----	7.32	"	"	"	"	"	
Endosulfan sulfate	"	ND	----	7.32	"	"	"	"	"	
Endrin	"	ND	----	7.32	"	"	"	"	"	
Endrin aldehyde	"	ND	----	7.32	"	"	"	"	"	
Endrin ketone	"	ND	----	7.32	"	"	"	"	"	
Heptachlor	"	ND	----	7.32	"	"	"	"	"	
Heptachlor epoxide	"	ND	----	7.32	"	"	"	"	"	
Methoxychlor	"	ND	----	7.32	"	"	"	"	"	
Toxaphene	"	ND	----	219	"	"	"	"	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene				*98.8%*		*36 - 140 %*	"			"
PRL0205-09 (TP-20/S-2)			**Soil**			**Sampled: 12/03/08 14:50**				
Aldrin	EPA 8081A	ND	----	7.51	ug/kg dry	1x	8120274	12/08/08 17:55	12/15/08 15:57	
alpha-BHC	"	ND	----	7.51	"	"	"	"	"	
beta-BHC	"	ND	----	7.51	"	"	"	"	"	
delta-BHC	"	ND	----	7.51	"	"	"	"	"	
gamma-BHC (Lindane)	"	ND	----	7.51	"	"	"	"	"	
gamma-Chlordane	"	ND	----	7.51	"	"	"	"	"	
alpha-Chlordane	"	ND	----	7.51	"	"	"	"	"	
Chlordane (tech)	"	ND	----	168	"	"	"	"	"	
4,4´-DDD	"	ND	----	7.51	"	"	"	"	"	
4,4´-DDE	"	ND	----	7.51	"	"	"	"	"	
4,4´-DDT	"	ND	----	11.2	"	"	"	"	"	**RL1**

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Organochlorine Pesticides per EPA Method 8081A

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0205-09 (TP-20/S-2)			**Soil**			**Sampled: 12/03/08 14:50**				
Dieldrin	EPA 8081A	ND	----	7.51	ug/kg dry	1x	8120274	12/08/08 17:55	12/15/08 15:57	
Endosulfan I	"	ND	----	7.51	"	"	"	"	"	
Endosulfan II	"	ND	----	7.51	"	"	"	"	"	
Endosulfan sulfate	"	ND	----	7.51	"	"	"	"	"	
Endrin	"	ND	----	7.51	"	"	"	"	"	
Endrin aldehyde	"	ND	----	22.5	"	3x	"	"	12/12/08 17:26	**RL1**
Endrin ketone	"	ND	----	7.51	"	1x	"	"	12/15/08 15:57	
Heptachlor	"	ND	----	7.51	"	"	"	"	"	
Heptachlor epoxide	"	ND	----	7.51	"	"	"	"	"	
Methoxychlor	"	ND	----	22.5	"	3x	"	"	12/12/08 17:26	**RL1**
Toxaphene	"	ND	----	224	"	1x	"	"	12/15/08 15:57	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene				*85.7%*		*36 - 140 %*	"			"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Polychlorinated Biphenyls per EPA Method 8082

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0205-05 (TP-18A/S-2)			**Soil**			**Sampled: 12/03/08 13:13**				
Aroclor 1016	EPA 8082	ND	----	36.4	ug/kg dry	1x	8120281	12/09/08 15:55	12/10/08 20:11	
Aroclor 1221	"	ND	----	73.2	"	"	"	"	"	
Aroclor 1232	"	ND	----	36.4	"	"	"	"	"	
Aroclor 1242	"	ND	----	36.4	"	"	"	"	"	
Aroclor 1248	"	ND	----	36.4	"	"	"	"	"	
Aroclor 1254	"	ND	----	36.4	"	"	"	"	"	
Aroclor 1260	"	ND	----	36.4	"	"	"	"	"	
Surrogate(s): Decachlorobiphenyl				*105%*		*16 - 149 %*	"			"
PRL0205-09 (TP-20/S-2)			**Soil**			**Sampled: 12/03/08 14:50**				
Aroclor 1016	EPA 8082	ND	----	37.5	ug/kg dry	1x	8120281	12/09/08 15:55	12/15/08 14:49	
Aroclor 1221	"	ND	----	75.5	"	"	"	"	"	
Aroclor 1232	"	ND	----	37.5	"	"	"	"	"	
Aroclor 1242	"	ND	----	37.5	"	"	"	"	"	
Aroclor 1248	"	ND	----	37.5	"	"	"	"	"	
Aroclor 1254	"	**53.6**	----	37.5	"	"	"	"	"	
Aroclor 1260	"	ND	----	37.5	"	"	"	"	"	
Surrogate(s): Decachlorobiphenyl				*81.9%*		*16 - 149 %*	"			"
PRL0205-11 (TP-21/S-2)			**Soil**			**Sampled: 12/03/08 15:45**				
Aroclor 1016	EPA 8082	ND	----	36.5	ug/kg dry	1x	8120281	12/09/08 15:55	12/10/08 20:55	
Aroclor 1221	"	ND	----	73.5	"	"	"	"	"	
Aroclor 1232	"	ND	----	36.5	"	"	"	"	"	
Aroclor 1242	"	ND	----	36.5	"	"	"	"	"	
Aroclor 1248	"	ND	----	36.5	"	"	"	"	"	
Aroclor 1254	"	ND	----	36.5	"	"	"	"	"	
Aroclor 1260	"	ND	----	36.5	"	"	"	"	"	
Surrogate(s): Decachlorobiphenyl				*98.8%*		*16 - 149 %*	"			"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Volatile Organic Compounds per EPA Method 8260B

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0205-05 (TP-18A/S-2)			**Soil**			**Sampled: 12/03/08 13:13**				
Acetone	EPA 8260B	ND	----	2650	ug/kg dry	1x	8120284	12/09/08 10:30	12/09/08 16:26	
Benzene	"	ND	----	21.2	"	"	"	"	"	
Bromobenzene	"	ND	----	106	"	"	"	"	"	
Bromochloromethane	"	ND	----	106	"	"	"	"	"	
Bromodichloromethane	"	ND	----	106	"	"	"	"	"	
Bromoform	"	ND	----	106	"	"	"	"	"	
Bromomethane	"	ND	----	529	"	"	"	"	"	
2-Butanone (MEK)	"	ND	----	1060	"	"	"	"	"	
n-Butylbenzene	"	ND	----	529	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	106	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	106	"	"	"	"	"	
Carbon disulfide	"	ND	----	1060	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	106	"	"	"	"	"	
Chlorobenzene	"	ND	----	106	"	"	"	"	"	
Chloroethane	"	ND	----	106	"	"	"	"	"	
Chloroform	"	ND	----	106	"	"	"	"	"	
Chloromethane	"	ND	----	529	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	106	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	106	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	529	"	"	"	"	"	
Dibromochloromethane	"	ND	----	106	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	106	"	"	"	"	"	
Dibromomethane	"	ND	----	106	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	106	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	106	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	106	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	529	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	106	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	106	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	106	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	106	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	106	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	106	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	106	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	106	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	106	"	"	"	"	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Volatile Organic Compounds per EPA Method 8260B

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0205-05 (TP-18A/S-2)			**Soil**			**Sampled: 12/03/08 13:13**				
cis-1,3-Dichloropropene	EPA 8260B	ND	-----	106	ug/kg dry	1x	8120284	12/09/08 10:30	12/09/08 16:26	
trans-1,3-Dichloropropene	"	ND	-----	106	"	"	"	"	"	
Ethylbenzene	"	ND	-----	106	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	423	"	"	"	"	"	
2-Hexanone	"	ND	-----	1060	"	"	"	"	"	
Isopropylbenzene	"	ND	-----	212	"	"	"	"	"	
p-Isopropyltoluene	"	ND	-----	212	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	-----	529	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	-----	106	"	"	"	"	"	
Methylene chloride	"	ND	-----	529	"	"	"	"	"	
Naphthalene	"	ND	-----	212	"	"	"	"	"	
n-Propylbenzene	"	ND	-----	106	"	"	"	"	"	
Styrene	"	ND	-----	106	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	-----	106	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	-----	106	"	"	"	"	"	
Tetrachloroethene	"	ND	-----	106	"	"	"	"	"	
Toluene	"	ND	-----	106	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	-----	106	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	106	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	-----	106	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	-----	106	"	"	"	"	"	
Trichloroethene	"	ND	-----	106	"	"	"	"	"	
Trichlorofluoromethane	"	ND	-----	106	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	-----	106	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	-----	106	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	-----	106	"	"	"	"	"	
Vinyl chloride	"	ND	-----	106	"	"	"	"	"	
o-Xylene	"	ND	-----	106	"	"	"	"	"	
m,p-Xylene	"	ND	-----	212	"	"	"	"	"	

Surrogate(s):	*4-BFB*	*94.2%*	*75 - 125 %*	"	"
	1,2-DCA-d4	*99.4%*	*75 - 125 %*	"	"
	Dibromofluoromethane	*92.8%*	*75 - 125 %*	"	"
	Toluene-d8	*97.8%*	*75 - 125 %*	"	"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Volatile Organic Compounds per EPA Method 8260B

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0205-09 (TP-20/S-2)			**Soil**			**Sampled: 12/03/08 14:50**				
Acetone	EPA 8260B	ND	----	2790	ug/kg dry	1x	8120284	12/09/08 10:30	12/09/08 16:55	
Benzene	"	ND	----	22.3	"	"	"	"	"	
Bromobenzene	"	ND	----	112	"	"	"	"	"	
Bromochloromethane	"	ND	----	112	"	"	"	"	"	
Bromodichloromethane	"	ND	----	112	"	"	"	"	"	
Bromoform	"	ND	----	112	"	"	"	"	"	
Bromomethane	"	ND	----	558	"	"	"	"	"	
2-Butanone (MEK)	"	ND	----	1120	"	"	"	"	"	
n-Butylbenzene	"	ND	----	558	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	112	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	112	"	"	"	"	"	
Carbon disulfide	"	ND	----	1120	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	112	"	"	"	"	"	
Chlorobenzene	"	ND	----	112	"	"	"	"	"	
Chloroethane	"	ND	----	112	"	"	"	"	"	
Chloroform	"	ND	----	112	"	"	"	"	"	
Chloromethane	"	ND	----	558	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	112	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	112	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	558	"	"	"	"	"	
Dibromochloromethane	"	ND	----	112	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	112	"	"	"	"	"	
Dibromomethane	"	ND	----	112	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	112	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	112	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	112	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	558	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	112	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	112	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	112	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	112	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	112	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	112	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	112	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	112	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	112	"	"	"	"	"	

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Volatile Organic Compounds per EPA Method 8260B

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0205-09 (TP-20/S-2)			**Soil**			**Sampled: 12/03/08 14:50**				
cis-1,3-Dichloropropene	EPA 8260B	ND	----	112	ug/kg dry	1x	8120284	12/09/08 10:30	12/09/08 16:55	
trans-1,3-Dichloropropene	"	ND	----	112	"	"	"	"	"	
Ethylbenzene	"	ND	----	112	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	447	"	"	"	"	"	
2-Hexanone	"	ND	----	1120	"	"	"	"	"	
Isopropylbenzene	"	ND	----	223	"	"	"	"	"	
p-Isopropyltoluene	"	ND	----	223	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	558	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	112	"	"	"	"	"	
Methylene chloride	"	ND	----	558	"	"	"	"	"	
Naphthalene	"	ND	----	223	"	"	"	"	"	
n-Propylbenzene	"	ND	----	112	"	"	"	"	"	
Styrene	"	ND	----	112	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	112	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	112	"	"	"	"	"	
Tetrachloroethene	"	ND	----	112	"	"	"	"	"	
Toluene	"	ND	----	112	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	112	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	112	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	112	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	112	"	"	"	"	"	
Trichloroethene	"	ND	----	112	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	112	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	112	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	112	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	112	"	"	"	"	"	
Vinyl chloride	"	ND	----	112	"	"	"	"	"	
o-Xylene	"	ND	----	112	"	"	"	"	"	
m,p-Xylene	"	ND	----	223	"	"	"	"	"	

Surrogate(s):	*4-BFB*	*97.6%*	*75 - 125 %*	"	"
	1,2-DCA-d4	*101%*	*75 - 125 %*	"	"
	Dibromofluoromethane	*97.0%*	*75 - 125 %*	"	"
	Toluene-d8	*103%*	*75 - 125 %*	"	"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Volatile Organic Compounds per EPA Method 8260B

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0205-11 (TP-21/S-2)			**Soil**			**Sampled: 12/03/08 15:45**				
Acetone	EPA 8260B	ND	----	2670	ug/kg dry	1x	8120284	12/09/08 10:30	12/09/08 17:24	
Benzene	"	ND	----	21.4	"	"	"	"	"	
Bromobenzene	"	ND	----	107	"	"	"	"	"	
Bromochloromethane	"	ND	----	107	"	"	"	"	"	
Bromodichloromethane	"	ND	----	107	"	"	"	"	"	
Bromoform	"	ND	----	107	"	"	"	"	"	
Bromomethane	"	ND	----	534	"	"	"	"	"	
2-Butanone (MEK)	"	ND	----	1070	"	"	"	"	"	
n-Butylbenzene	"	ND	----	534	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	107	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	107	"	"	"	"	"	
Carbon disulfide	"	ND	----	1070	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	107	"	"	"	"	"	
Chlorobenzene	"	ND	----	107	"	"	"	"	"	
Chloroethane	"	ND	----	107	"	"	"	"	"	
Chloroform	"	ND	----	107	"	"	"	"	"	
Chloromethane	"	ND	----	534	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	107	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	107	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	534	"	"	"	"	"	
Dibromochloromethane	"	ND	----	107	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	107	"	"	"	"	"	
Dibromomethane	"	ND	----	107	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	107	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	107	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	107	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	534	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	107	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	107	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	107	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	107	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	107	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	107	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	107	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	107	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	107	"	"	"	"	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Volatile Organic Compounds per EPA Method 8260B

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0205-11 (TP-21/S-2)			**Soil**			**Sampled: 12/03/08 15:45**				
cis-1,3-Dichloropropene	EPA 8260B	ND	-----	107	ug/kg dry	1x	8120284	12/09/08 10:30	12/09/08 17:24	
trans-1,3-Dichloropropene	"	ND	-----	107	"	"	"	"	"	
Ethylbenzene	"	ND	-----	107	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	428	"	"	"	"	"	
2-Hexanone	"	ND	-----	1070	"	"	"	"	"	
Isopropylbenzene	"	ND	-----	214	"	"	"	"	"	
p-Isopropyltoluene	"	ND	-----	214	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	-----	534	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	-----	107	"	"	"	"	"	
Methylene chloride	"	ND	-----	534	"	"	"	"	"	
Naphthalene	"	ND	-----	214	"	"	"	"	"	
n-Propylbenzene	"	ND	-----	107	"	"	"	"	"	
Styrene	"	ND	-----	107	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	-----	107	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	-----	107	"	"	"	"	"	
Tetrachloroethene	"	ND	-----	107	"	"	"	"	"	
Toluene	"	ND	-----	107	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	-----	107	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	107	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	-----	107	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	-----	107	"	"	"	"	"	
Trichloroethene	"	ND	-----	107	"	"	"	"	"	
Trichlorofluoromethane	"	ND	-----	107	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	-----	107	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	-----	107	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	-----	107	"	"	"	"	"	
Vinyl chloride	"	ND	-----	107	"	"	"	"	"	
o-Xylene	"	ND	-----	107	"	"	"	"	"	
m,p-Xylene	"	ND	-----	214	"	"	"	"	"	

Surrogate(s):	*4-BFB*	*87.2%*	*75 - 125 %*	"	"
	1,2-DCA-d4	*92.4%*	*75 - 125 %*	"	"
	Dibromofluoromethane	*90.8%*	*75 - 125 %*	"	"
	Toluene-d8	*96.6%*	*75 - 125 %*	"	"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Polynuclear Aromatic Compounds per EPA 8270M-SIM

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0205-05 (TP-18A/S-2)			**Soil**			**Sampled: 12/03/08 13:13**				
Acenaphthene	EPA 8270m	ND	-----	14.8	ug/kg dry	1x	8120250	12/08/08 14:45	12/10/08 13:01	
Acenaphthylene	"	ND	-----	14.8	"	"	"	"	"	
Anthracene	"	ND	-----	14.8	"	"	"	"	"	
Benzo (a) anthracene	"	ND	-----	14.8	"	"	"	"	"	
Benzo (a) pyrene	"	ND	-----	14.8	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	-----	14.8	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	-----	14.8	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	14.8	"	"	"	"	"	
Chrysene	"	ND	-----	14.8	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	-----	14.8	"	"	"	"	"	
Fluoranthene	"	ND	-----	14.8	"	"	"	"	"	
Fluorene	"	ND	-----	14.8	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	-----	14.8	"	"	"	"	"	
Naphthalene	"	ND	-----	14.8	"	"	"	"	"	
Phenanthrene	"	ND	-----	14.8	"	"	"	"	"	
Pyrene	"	ND	-----	14.8	"	"	"	"	"	
Surrogate(s): Fluorene-d10				*72.1%*		*24 - 125 %*	"			"
Pyrene-d10				*83.8%*		*41 - 141 %*	"			"
Benzo (a) pyrene-d12				*78.5%*		*38 - 143 %*	"			"
PRL0205-09 (TP-20/S-2)			**Soil**			**Sampled: 12/03/08 14:50**				
Acenaphthene	EPA 8270m	**24.5**	-----	15.0	ug/kg dry	1x	8120250	12/08/08 14:45	12/10/08 13:29	
Acenaphthylene	"	ND	-----	15.0	"	"	"	"	"	
Anthracene	"	**71.8**	-----	15.0	"	"	"	"	"	
Benzo (a) anthracene	"	**139**	-----	15.0	"	"	"	"	"	
Benzo (a) pyrene	"	**111**	-----	15.0	"	"	"	"	"	
Benzo (b) fluoranthene	"	**108**	-----	15.0	"	"	"	"	"	
Benzo (ghi) perylene	"	**62.6**	-----	15.0	"	"	"	"	"	
Benzo (k) fluoranthene	"	**106**	-----	15.0	"	"	"	"	"	
Chrysene	"	**140**	-----	15.0	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	**19.6**	-----	15.0	"	"	"	"	"	
Fluoranthene	"	**348**	-----	15.0	"	"	"	"	"	
Fluorene	"	**24.1**	-----	15.0	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	**63.1**	-----	15.0	"	"	"	"	"	
Naphthalene	"	ND	-----	15.0	"	"	"	"	"	
Phenanthrene	"	**256**	-----	15.0	"	"	"	"	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Polynuclear Aromatic Compounds per EPA 8270M-SIM

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0205-09 (TP-20/S-2)			**Soil**			**Sampled: 12/03/08 14:50**				
Pyrene	EPA 8270m	**240**	-----	15.0	ug/kg dry	1x	8120250	12/08/08 14:45	12/10/08 13:29	
Surrogate(s): Fluorene-d10				*63.2%*		*24 - 125 %*	"			"
Pyrene-d10				*75.9%*		*41 - 141 %*	"			"
Benzo (a) pyrene-d12				*82.0%*		*38 - 143 %*	"			"
PRL0205-11 (TP-21/S-2)			**Soil**			**Sampled: 12/03/08 15:45**				
Acenaphthene	EPA 8270m	ND	-----	14.7	ug/kg dry	1x	8120250	12/08/08 14:45	12/10/08 13:58	
Acenaphthylene	"	ND	-----	14.7	"	"	"	"	"	
Anthracene	"	ND	-----	14.7	"	"	"	"	"	
Benzo (a) anthracene	"	ND	-----	14.7	"	"	"	"	"	
Benzo (a) pyrene	"	ND	-----	14.7	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	-----	14.7	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	-----	14.7	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	14.7	"	"	"	"	"	
Chrysene	"	ND	-----	14.7	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	-----	14.7	"	"	"	"	"	
Fluoranthene	"	ND	-----	14.7	"	"	"	"	"	
Fluorene	"	ND	-----	14.7	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	-----	14.7	"	"	"	"	"	
Naphthalene	"	ND	-----	14.7	"	"	"	"	"	
Phenanthrene	"	ND	-----	14.7	"	"	"	"	"	
Pyrene	"	ND	-----	14.7	"	"	"	"	"	
Surrogate(s): Fluorene-d10				*65.0%*		*24 - 125 %*	"			"
Pyrene-d10				*80.6%*		*41 - 141 %*	"			"
Benzo (a) pyrene-d12				*76.0%*		*38 - 143 %*	"			"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Percent Dry Weight (Solids) per Standard Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0205-01 (TP-16/S-2)			**Soil**			**Sampled: 12/03/08 11:00**				
% Solids	NCA SOP	**92.9**	-----	0.0100	% by Weight	1x	8120294	12/09/08 10:49	12/09/08 10:49	
PRL0205-02 (TP-17/S-1)			**Soil**			**Sampled: 12/03/08 11:17**				
% Solids	NCA SOP	**94.1**	-----	0.0100	% by Weight	1x	8120294	12/09/08 10:49	12/09/08 10:49	
PRL0205-03 (TP-17/S-2)			**Soil**			**Sampled: 12/03/08 11:46**				
% Solids	NCA SOP	**91.1**	-----	0.0100	% by Weight	1x	8120294	12/09/08 10:49	12/09/08 10:49	
PRL0205-05 (TP-18A/S-2)			**Soil**			**Sampled: 12/03/08 13:13**				
% Solids	NCA SOP	**90.3**	-----	0.0100	% by Weight	1x	8120294	12/09/08 10:49	12/09/08 10:49	
PRL0205-06 (TP-19/S-1)			**Soil**			**Sampled: 12/03/08 13:42**				
% Solids	NCA SOP	**96.7**	-----	0.0100	% by Weight	1x	8120294	12/09/08 10:49	12/09/08 10:49	
PRL0205-07 (TP-19/S-2)			**Soil**			**Sampled: 12/03/08 14:10**				
% Solids	NCA SOP	**91.5**	-----	0.0100	% by Weight	1x	8120294	12/09/08 10:49	12/09/08 10:49	
PRL0205-08 (TP-20/S-1)			**Soil**			**Sampled: 12/03/08 14:35**				
% Solids	NCA SOP	**96.2**	-----	0.0100	% by Weight	1x	8120294	12/09/08 10:49	12/09/08 10:49	
PRL0205-09 (TP-20/S-2)			**Soil**			**Sampled: 12/03/08 14:50**				
% Solids	NCA SOP	**88.6**	-----	0.0100	% by Weight	1x	8120294	12/09/08 10:49	12/09/08 10:49	
PRL0205-10 (TP-21/S-1)			**Soil**			**Sampled: 12/03/08 15:23**				
% Solids	NCA SOP	**97.9**	-----	0.0100	% by Weight	1x	8120294	12/09/08 10:49	12/09/08 10:49	
PRL0205-11 (TP-21/S-2)			**Soil**			**Sampled: 12/03/08 15:45**				
% Solids	NCA SOP	**91.1**	-----	0.0100	% by Weight	1x	8120294	12/09/08 10:49	12/09/08 10:49	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Organic Carbon, Total (TOC)

TestAmerica Tacoma

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0205-05 (TP-18A/S-2)			**Soil**			**Sampled: 12/03/08 13:13**				
Total Organic Carbon	9060	ND	----	2000	mg/Kg	1x	39039	12/11/08 11:01	12/11/08 11:01	
PRL0205-09 (TP-20/S-2)			**Soil**			**Sampled: 12/03/08 14:50**				
Total Organic Carbon	9060	**9900**	----	2000	mg/Kg	1x	39039	12/11/08 11:01	12/11/08 11:01	
PRL0205-11 (TP-21/S-2)			**Soil**			**Sampled: 12/03/08 15:45**				
Total Organic Carbon	9060	ND	----	2000	mg/Kg	1x	39039	12/11/08 11:01	12/11/08 11:01	

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Hydrocarbon Identification per NW-TPH Methodology - Laboratory Quality Control Results

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QC Batch: 8120237 **Soil Preparation Method: EPA 3550 Fuels**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120237-BLK1)								**Extracted: 12/08/08 06:40**						
Gasoline Range Hydrocarbons	NWTPH HCID	ND	---	20.0	mg/kg wet	1x	--	--	--	--	--	--	12/08/08 11:48	
Diesel Range Hydrocarbons	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
Heavy Oil Range Hydrocarbons	"	ND	---	100	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 102%*			*Limits: 50-150%*	"							*12/08/08 11:48*	
Duplicate (8120237-DUP1)					**QC Source: PRL0238-01**			**Extracted: 12/08/08 06:40**						
Gasoline Range Hydrocarbons	NWTPH HCID	ND	---	22.2	mg/kg dry	1x	ND	--	--	--	NR	(50)	12/08/08 12:48	
Diesel Range Hydrocarbons	"	ND	---	55.5	"	"	ND	--	--	--	110%	"	"	R4
Heavy Oil Range Hydrocarbons	"	ND	---	111	"	"	ND	--	--	--		"	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 128%*			*Limits: 50-150%*	"							*12/08/08 12:48*	
Duplicate (8120237-DUP2)					**QC Source: PRL0204-01**			**Extracted: 12/08/08 11:00**						
Gasoline Range Hydrocarbons	NWTPH HCID	ND	---	20.6	mg/kg dry	1x	ND	--	--	--		(50)	12/08/08 14:16	
Diesel Range Hydrocarbons	"	ND	---	51.6	"	"	ND	--	--	--	110%	"	"	R4
Heavy Oil Range Hydrocarbons	"	ND	---	103	"	"	121	--	--	--	114%	"	"	R4
Surrogate(s): 1-Chlorooctadecane		*Recovery: 113%*			*Limits: 50-150%*	"							*12/08/08 14:16*	

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PBS Engineering - Bend	Project Name:	**DSL**	
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Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method - Laboratory Quality Control Results

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QC Batch: 8120492 **Soil Preparation Method: EPA 3550 Fuels**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120492-BLK1)								**Extracted: 12/15/08 17:00**						
Diesel Range Organics	NWTPH-Dx	ND	---	12.5	mg/kg wet	1x	--	--	--	--	--	--	12/16/08 16:27	
Heavy Oil Range Hydrocarbons	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 95.6%*			*Limits: 50-150%*	"							*12/16/08 16:27*	
LCS (8120492-BS1)								**Extracted: 12/15/08 17:00**						
Diesel Range Organics	NWTPH-Dx	139	---	12.5	mg/kg wet	1x	--	125	111%	(50-150)	--	--	12/16/08 16:43	
Heavy Oil Range Hydrocarbons	"	74.9	---	25.0	"	"	--	75.0	99.9%	"	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 101%*			*Limits: 50-150%*	"							*12/16/08 16:43*	
Duplicate (8120492-DUP1)							**QC Source: PRL0204-01**	**Extracted: 12/15/08 17:00**						
Diesel Range Organics	NWTPH-Dx	ND	---	13.4	mg/kg dry	1x	17.1	--	--	--	30.6%	(40)	12/16/08 17:01	
Heavy Oil Range Hydrocarbons	"	41.2	---	26.8	"	"	45.8	--	--	--	10.6%	"	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 87.4%*			*Limits: 50-150%*	"							*12/16/08 17:01*	

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Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

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QC Batch: 8120243 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120243-BLK1)								Extracted: 12/08/08 09:15						
Antimony	EPA 6020	ND	---	0.500	mg/kg wet	1x	--	--	--	--	--	--	12/14/08 04:00	
Arsenic	"	ND	---	0.500	"	"	--	--	--	--	--	--	12/15/08 18:02	
Beryllium	"	ND	---	0.500	"	"	--	--	--	--	--	--	12/16/08 15:48	
Cadmium	"	ND	---	0.500	"	"	--	--	--	--	--	--	12/14/08 04:00	
Chromium	"	ND	---	0.500	"	"	--	--	--	--	--	--	12/15/08 19:22	
Copper	"	ND	---	2.00	"	"	--	--	--	--	--	--	12/14/08 04:00	
Lead	"	ND	---	0.500	"	"	--	--	--	--	--	--	12/15/08 19:22	
Nickel	"	ND	---	1.00	"	"	--	--	--	--	--	--	12/15/08 18:02	
Selenium	"	ND	---	0.500	"	"	--	--	--	--	--	--	12/14/08 04:00	
Silver	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Thallium	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
LCS (8120243-BS1)								Extracted: 12/08/08 09:15						
Antimony	EPA 6020	4.59	---	0.490	mg/kg wet	1x	--	4.90	93.6%	(80-120)	--	--	12/14/08 04:08	
Arsenic	"	9.53	---	0.490	"	"	--	9.80	97.2%	"	--	--	12/15/08 18:10	
Beryllium	"	9.82	---	0.490	"	"	--	"	100%	"	--	--	12/16/08 15:56	
Cadmium	"	9.83	---	0.490	"	"	--	"	100%	"	--	--	12/14/08 04:08	
Chromium	"	9.43	---	0.490	"	"	--	"	96.2%	"	--	--	12/15/08 18:10	
Copper	"	10.2	---	1.96	"	"	--	"	104%	"	--	--	12/14/08 04:08	
Lead	"	8.81	---	0.490	"	"	--	"	89.8%	"	--	--	12/15/08 18:10	
Nickel	"	9.13	---	0.980	"	"	--	"	93.1%	"	--	--	"	
Selenium	"	9.86	---	0.490	"	"	--	"	101%	"	--	--	12/14/08 04:08	
Silver	"	5.00	---	0.490	"	"	--	4.90	102%	"	--	--	"	
Thallium	"	8.89	---	0.490	"	"	--	9.80	90.7%	"	--	--	"	
Zinc	"	9.86	---	1.96	"	"	--	"	101%	"	--	--	"	
Duplicate (8120243-DUP1)				QC Source: PRL0204-01				Extracted: 12/08/08 09:15						
Antimony	EPA 6020	ND	---	0.527	mg/kg dry	1x	ND	--	--	--	0.00%	(40)	12/14/08 04:31	
Arsenic	"	1.27	---	1.05	"	2x	1.24	--	--	--	1.68%	"	12/15/08 18:34	
Beryllium	"	ND	---	1.05	"	"	ND	--	--	--	2.60%	"	12/16/08 16:12	
Cadmium	"	ND	---	0.527	"	1x	ND	--	--	--	14.8%	"	12/14/08 04:31	
Chromium	"	12.9	---	1.05	"	2x	12.2	--	--	--	6.14%	"	12/15/08 18:34	
Copper	"	19.1	---	2.11	"	1x	17.7	--	--	--	7.47%	"	12/14/08 04:31	
Lead	"	18.7	---	1.05	"	2x	20.3	--	--	--	8.23%	"	12/15/08 18:34	
Nickel	"	77.5	---	2.11	"	"	49.1	--	--	--	44.7%	"	"	R2
Selenium	"	ND	---	0.527	"	1x	ND	--	--	--	16.7%	"	12/14/08 04:31	
Silver	"	ND	---	0.527	"	"	ND	--	--	--	0.00%	"	"	
Thallium	"	ND	---	0.527	"	"	ND	--	--	--	11.1%	"	"	

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Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

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QC Batch: 8120243 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8120243-DUP1)					**QC Source: PRL0204-01**				**Extracted: 12/08/08 09:15**					
Zinc	EPA 6020	909	---	4.22	mg/kg dry	2x	624	--	--	--	37.2%	(40)	12/16/08 16:12	
Matrix Spike (8120243-MS1)					**QC Source: PRL0204-01**				**Extracted: 12/08/08 09:15**					
Antimony	EPA 6020	2.37	---	0.522	mg/kg dry	1x	0.174	5.22	42.1%	(70-130)	--	--	12/14/08 04:47	M8
Arsenic	"	11.3	---	1.04	"	2x	1.24	10.4	95.9%	(75-125)	--	--	12/15/08 19:06	
Beryllium	"	9.74	---	1.04	"	"	0.401	"	89.5%	"	--	--	12/16/08 16:28	
Cadmium	"	11.8	---	0.522	"	1x	0.364	"	109%	"	--	--	12/14/08 04:47	
Chromium	"	22.8	---	1.04	"	2x	12.2	"	102%	"	--	--	12/15/08 19:06	
Copper	"	34.0	---	2.09	"	1x	17.7	"	156%	"	--	--	12/14/08 04:47	M7
Lead	"	25.0	---	1.04	"	2x	20.3	"	45.0%	"	--	--	12/15/08 19:06	M8
Nickel	"	80.6	---	2.09	"	"	49.1	"	301%	"	--	--	"	M7
Selenium	"	10.3	---	0.522	"	1x	0.0686	"	97.5%	"	--	--	12/14/08 04:47	
Silver	"	5.77	---	0.522	"	"	0.105	5.22	108%	"	--	--	"	
Thallium	"	9.82	---	0.522	"	"	0.100	10.4	93.0%	"	--	--	"	
Zinc	"	234	---	4.18	"	2x	624	"	-3730%	"	--	--	12/16/08 16:28	MHA
Matrix Spike (8120243-MS2)					**QC Source: PRL0205-03**				**Extracted: 12/08/08 09:15**					
Antimony	EPA 6020	3.07	---	0.549	mg/kg dry	1x	0.384	5.49	49.0%	(70-130)	--	--	12/14/08 06:21	M8
Arsenic	"	10.8	---	0.549	"	"	1.02	11.0	88.8%	(75-125)	--	--	12/15/08 21:06	
Beryllium	"	10.5	---	0.549	"	"	0.340	"	92.3%	"	--	--	12/17/08 01:55	
Cadmium	"	11.9	---	0.549	"	"	0.170	"	107%	"	--	--	12/14/08 06:21	
Chromium	"	22.2	---	0.549	"	"	11.7	"	95.8%	"	--	--	12/15/08 21:06	
Copper	"	36.5	---	2.20	"	"	18.2	"	167%	"	--	--	12/14/08 06:21	M7
Lead	"	27.6	---	0.549	"	"	9.28	"	167%	"	--	--	12/15/08 21:06	M7
Nickel	"	44.8	---	1.10	"	"	35.1	"	87.9%	"	--	--	"	
Selenium	"	11.1	---	0.549	"	"	0.0439	"	101%	"	--	--	12/14/08 06:21	
Silver	"	6.02	---	0.549	"	"	0.104	5.49	108%	"	--	--	"	
Thallium	"	10.1	---	0.549	"	"	0.0659	11.0	91.1%	"	--	--	"	
Zinc	"	99.8	---	2.20	"	"	60.5	"	358%	"	--	--	"	MHA

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390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Total Mercury per EPA Method 7471A - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120248 **Soil Preparation Method: EPA 7471A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120248-BLK1)								**Extracted: 12/08/08 09:50**						
Mercury	EPA 7471A	ND	---	0.100	mg/kg wet	1x	--	--	--	--	--	--	12/08/08 17:06	
LCS (8120248-BS1)								**Extracted: 12/08/08 09:50**						
Mercury	EPA 7471A	0.621	---	0.100	mg/kg wet	1x	--	0.625	99.3%	(80-120)	--	--	12/08/08 17:09	
LCS Dup (8120248-BSD1)								**Extracted: 12/08/08 09:50**						
Mercury	EPA 7471A	0.604	---	0.100	mg/kg wet	1x	--	0.625	96.7%	(80-120)	2.71%	(20)	12/08/08 17:13	
Duplicate (8120248-DUP1)				**QC Source: PRL0204-01**				**Extracted: 12/08/08 09:50**						
Mercury	EPA 7471A	ND	---	0.100	mg/kg dry	1x	ND	--	--	--	99.4%	(40)	12/09/08 08:56	R4
Matrix Spike (8120248-MS1)				**QC Source: PRL0204-01**				**Extracted: 12/08/08 09:50**						
Mercury	EPA 7471A	0.680	---	0.0995	mg/kg dry	1x	0.00879	0.622	108%	(75-125)	--	--	12/09/08 08:58	
Matrix Spike Dup (8120248-MSD1)				**QC Source: PRL0204-01**				**Extracted: 12/08/08 09:50**						
Mercury	EPA 7471A	0.658	---	0.0972	mg/kg dry	1x	0.00879	0.608	107%	(75-125)	3.31%	(40)	12/09/08 09:02	

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Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Organochlorine Pesticides per EPA Method 8081A - Laboratory Quality Control Results

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QC Batch: 8120274 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120274-BLK1)								**Extracted: 12/08/08 17:55**						
Aldrin	EPA 8081A	ND	---	6.65	ug/kg wet	1x	--	--	--	--	--	--	12/10/08 13:05	
alpha-BHC	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
beta-BHC	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
delta-BHC	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
gamma-BHC (Lindane)	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
gamma-Chlordane	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
alpha-Chlordane	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Chlordane (tech)	"	ND	---	149	"	"	--	--	--	--	--	--	"	
4,4´-DDD	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
4,4´-DDE	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
4,4´-DDT	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Dieldrin	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Endosulfan I	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Endosulfan II	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Endosulfan sulfate	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Endrin	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Endrin aldehyde	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Endrin ketone	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Heptachlor	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Heptachlor epoxide	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Methoxychlor	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Toxaphene	"	ND	---	198	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 106%*			*Limits: 36-140%*	"							*12/10/08 13:05*	
LCS (8120274-BS1)								**Extracted: 12/08/08 17:55**						
Aldrin	EPA 8081A	33.7	---	6.68	ug/kg wet	1x	--	33.2	102%	(64-136)	--	--	12/10/08 13:31	
gamma-BHC (Lindane)	"	33.9	---	6.68	"	"	--	"	102%	(62-140)	--	--	"	
4,4´-DDT	"	32.1	---	6.68	"	"	--	"	96.6%	(65-130)	--	--	"	
Dieldrin	"	33.9	---	6.68	"	"	--	"	102%	(70-135)	--	--	"	
Endrin	"	34.9	---	6.68	"	"	--	"	105%	(65-135)	--	--	"	
Heptachlor	"	34.1	---	6.68	"	"	--	"	103%	(48-124)	--	--	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 106%*			*Limits: 36-140%*	"							*12/10/08 13:31*	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Organochlorine Pesticides per EPA Method 8081A - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120274 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (8120274-MS1)					QC Source: PRL0204-05				Extracted: 12/08/08 17:55					
Aldrin	EPA 8081A	37.7	---	7.70	ug/kg dry	1x	ND	38.3	98.3%	(64-136)	--	--	12/10/08 15:05	
gamma-BHC (Lindane)	"	38.7	---	7.70	"	"	ND	"	101%	(62-140)	--	--	"	
4,4'-DDT	"	36.4	---	7.70	"	"	ND	"	95.1%	(65-130)	--	--	"	
Dieldrin	"	37.8	---	7.70	"	"	ND	"	98.7%	(70-135)	--	--	"	
Endrin	"	38.6	---	7.70	"	"	ND	"	101%	(65-135)	--	--	"	
Heptachlor	"	38.4	---	7.70	"	"	ND	"	100%	(48-124)	--	--	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 88.4%*		*Limits: 36-140%*		"							*12/10/08 15:05*	
Matrix Spike Dup (8120274-MSD1)					QC Source: PRL0204-05				Extracted: 12/08/08 17:55					
Aldrin	EPA 8081A	37.8	---	7.70	ug/kg dry	1x	ND	38.3	98.7%	(64-136)	0.409%	(50)	12/10/08 15:31	
gamma-BHC (Lindane)	"	38.3	---	7.70	"	"	ND	"	100%	(62-140)	0.863%	"	"	
4,4'-DDT	"	37.2	---	7.70	"	"	ND	"	97.1%	(65-130)	2.17%	"	"	
Dieldrin	"	38.3	---	7.70	"	"	ND	"	100%	(70-135)	1.39%	"	"	
Endrin	"	39.0	---	7.70	"	"	ND	"	102%	(65-135)	1.09%	"	"	
Heptachlor	"	38.5	---	7.70	"	"	ND	"	100%	(48-124)	0.202%	"	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 93.6%*		*Limits: 36-140%*		"							*12/10/08 15:31*	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Polychlorinated Biphenyls per EPA Method 8082 - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120281 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120281-BLK1)								**Extracted: 12/09/08 15:55**						
Aroclor 1016	EPA 8082	ND	---	32.9	ug/kg wet	1x	--	--	--	--	--	--	12/11/08 18:22	
Aroclor 1221	"	ND	---	66.3	"	"	--	--	--	--	--	--	"	
Aroclor 1232	"	ND	---	32.9	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	32.9	"	"	--	--	--	--	--	--	"	
Aroclor 1248	"	ND	---	32.9	"	"	--	--	--	--	--	--	"	
Aroclor 1254	"	ND	---	32.9	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	32.9	"	"	--	--	--	--	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 90.8%*			*Limits: 16-149%*	*"*							*12/11/08 18:22*	
LCS (8120281-BS1)								**Extracted: 12/09/08 15:55**						
Aroclor 1016	EPA 8082	291	---	32.9	ug/kg wet	1x	--	329	88.5%	(57-135)	--	--	12/11/08 18:45	
Aroclor 1260	"	303	---	32.9	"	"	--	"	92.2%	(60-135)	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 89.6%*			*Limits: 16-149%*	*"*							*12/11/08 18:45*	
Matrix Spike (8120281-MS1)							**QC Source: PRL0090-01**	**Extracted: 12/09/08 15:55**						
Aroclor 1016	EPA 8082	379	---	42.6	ug/kg dry	1x	ND	426	88.9%	(37-145)	--	--	12/11/08 17:37	
Aroclor 1260	"	450	---	42.6	"	"	ND	"	106%	(25-144)	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 93.1%*			*Limits: 16-149%*	*"*							*12/11/08 17:37*	
Matrix Spike Dup (8120281-MSD1)							**QC Source: PRL0090-01**	**Extracted: 12/09/08 15:55**						
Aroclor 1016	EPA 8082	346	---	42.6	ug/kg dry	1x	ND	427	81.2%	(37-145)	9.00%	(26)	12/11/08 17:59	
Aroclor 1260	"	439	---	42.6	"	"	ND	"	103%	(25-144)	2.53%	(30)	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 82.8%*			*Limits: 16-149%*	*"*							*12/11/08 17:59*	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

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QC Batch: 8120284 **Soil Preparation Method: EPA 5035A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120284-BLK1)								**Extracted: 12/09/08 09:00**						
Acetone	EPA 8260B	ND	---	2500	ug/kg wet	1x	--	--	--	--	--	--	12/09/08 13:28	
Benzene	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	499	"	"	--	--	--	--	--	--	"	
2-Butanone (MEK)	"	ND	---	998	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	499	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	998	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	499	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	499	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	499	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

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QC Batch: 8120284 **Soil Preparation Method: EPA 5035A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120284-BLK1)								**Extracted: 12/09/08 09:00**						
Hexachlorobutadiene	EPA 8260B	ND	---	399	ug/kg wet	1x	--	--	--	--	--	--	12/09/08 13:28	
2-Hexanone	"	ND	---	998	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	200	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	200	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	499	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	499	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	200	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	200	"	"	--	--	--	--	--	--	"	

Surrogate(s):	*4-BFB*	*Recovery: 93.0%*	*Limits: 75-125%*	*"*	*12/09/08 13:28*
	1,2-DCA-d4	*98.9%*	*75-125%*	*"*	*"*
	Dibromofluoromethane	*95.8%*	*75-125%*	*"*	*"*
	Toluene-d8	*97.2%*	*75-125%*	*"*	*"*

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120284 **Soil Preparation Method: EPA 5035A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (8120284-BS1)								**Extracted: 12/09/08 09:00**						
Benzene	EPA 8260B	1810	---	19.9	ug/kg wet	1x	--	1990	91.2%	(81.9-125)	--	--	12/09/08 10:25	
Chlorobenzene	"	1900	---	99.5	"	"	--	"	95.3%	(79.2-125)	--	--	"	
1,1-Dichloroethene	"	1720	---	99.5	"	"	--	"	86.2%	(66.1-125)	--	--	"	
Toluene	"	1860	---	99.5	"	"	--	"	93.5%	(80-125)	--	--	"	
Trichloroethene	"	1860	---	99.5	"	"	--	"	93.5%	(76-125)	--	--	"	
Surrogate(s): 4-BFB		*Recovery: 97.6%*			*Limits: 75-125%*	"							*12/09/08 10:25*	
1,2-DCA-d4		*93.8%*			*75-125%*	"							"	
Dibromofluoromethane		*96.7%*			*75-125%*	"							"	
Toluene-d8		*97.4%*			*75-125%*	"							"	
Matrix Spike (8120284-MS1)					**QC Source: PRL0267-01**			**Extracted: 12/09/08 10:30**						
Benzene	EPA 8260B	2900	---	32.3	ug/kg dry	1x	ND	3230	90.0%	(68.5-125)	--	--	12/09/08 12:01	
Chlorobenzene	"	3060	---	161	"	"	ND	"	95.0%	(65.9-125)	--	--	"	
1,1-Dichloroethene	"	2860	---	161	"	"	ND	"	88.6%	(55.8-125)	--	--	"	
Toluene	"	3020	---	161	"	"	ND	"	93.6%	(70.3-125)	--	--	"	
Trichloroethene	"	2980	---	161	"	"	ND	"	92.3%	(65.5-125)	--	--	"	
Surrogate(s): 4-BFB		*Recovery: 98.6%*			*Limits: 75-125%*	"							*12/09/08 12:01*	
1,2-DCA-d4		*96.2%*			*75-125%*	"							"	
Dibromofluoromethane		*99.5%*			*75-125%*	"							"	
Toluene-d8		*99.6%*			*75-125%*	"							"	
Matrix Spike Dup (8120284-MSD1)					**QC Source: PRL0267-01**			**Extracted: 12/09/08 10:30**						
Benzene	EPA 8260B	2930	---	32.3	ug/kg dry	1x	ND	3230	90.9%	(68.5-125)	0.939%	(25)	12/09/08 12:30	
Chlorobenzene	"	3100	---	161	"	"	ND	"	96.2%	(65.9-125)	1.31%	"	"	
1,1-Dichloroethene	"	2950	---	161	"	"	ND	"	91.5%	(55.8-125)	3.22%	"	"	
Toluene	"	3090	---	161	"	"	ND	"	95.8%	(70.3-125)	2.38%	"	"	
Trichloroethene	"	2950	---	161	"	"	ND	"	91.5%	(65.5-125)	0.816%	"	"	
Surrogate(s): 4-BFB		*Recovery: 98.1%*			*Limits: 75-125%*	"							*12/09/08 12:30*	
1,2-DCA-d4		*96.2%*			*75-125%*	"							"	
Dibromofluoromethane		*97.7%*			*75-125%*	"							"	
Toluene-d8		*98.1%*			*75-125%*	"							"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120250 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120250-BLK1)								**Extracted: 12/08/08 14:45**						
Benzo (e) pyrene	EPA 8270m	ND	---	13.3	ug/kg wet	1x	--	--	--	--	--	--	12/09/08 17:30	ID5
Acenaphthene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Acenaphthylene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	ID4
Chrysene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Surrogate(s): Fluorene-d10		*Recovery: 47.3%*			*Limits: 24-125%*	"							*12/09/08 17:30*	
Pyrene-d10		*76.6%*			*41-141%*	"							"	
Benzo (a) pyrene-d12		*76.1%*			*38-143%*	"							"	
LCS (8120250-BS1)								**Extracted: 12/08/08 14:45**						
Acenaphthene	EPA 8270m	161	---	13.4	ug/kg wet	1x	--	166	97.1%	(33-139)	--	--	12/09/08 17:59	
Benzo (a) pyrene	"	148	---	13.4	"	"	--	"	89.2%	(45-149)	--	--	"	
Pyrene	"	159	---	13.4	"	"	--	"	95.7%	(39-138)	--	--	"	
Surrogate(s): Fluorene-d10		*Recovery: 61.9%*			*Limits: 24-125%*	"							*12/09/08 17:59*	
Pyrene-d10		*83.1%*			*41-141%*	"							"	
Benzo (a) pyrene-d12		*84.9%*			*38-143%*	"							"	

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Richard D. Reid, Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120250 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (8120250-MS1)					QC Source: PRL0016-13				Extracted: 12/08/08 14:45					
Acenaphthene	EPA 8270m	184	---	161	ug/kg dry	10x	ND	200	91.8%	(33-139)	--	--	12/09/08 18:28	
Benzo (a) pyrene	"	221	---	161	"	"	82.4	"	69.3%	(45-149)	--	--	"	
Pyrene	"	266	---	161	"	"	124	"	70.8%	(39-138)	--	--	"	
Surrogate(s): Fluorene-d10		*Recovery: 76.6%*			*Limits: 24-125%*	"							*12/09/08 18:28*	
Pyrene-d10		*71.2%*			*41-141%*	"							"	
Benzo (a) pyrene-d12		*72.6%*			*38-143%*	"							"	
Matrix Spike Dup (8120250-MSD1)					QC Source: PRL0016-13				Extracted: 12/08/08 14:45					
Acenaphthene	EPA 8270m	181	---	160	ug/kg dry	10x	ND	199	91.0%	(33-139)	1.44%	(60)	12/09/08 18:57	
Benzo (a) pyrene	"	214	---	160	"	"	82.4	"	66.1%	(45-149)	3.29%	"	"	
Pyrene	"	275	---	160	"	"	124	"	75.6%	(39-138)	3.27%	"	"	
Surrogate(s): Fluorene-d10		*Recovery: 68.1%*			*Limits: 24-125%*	"							*12/09/08 18:57*	
Pyrene-d10		*74.8%*			*41-141%*	"							"	
Benzo (a) pyrene-d12		*73.9%*			*38-143%*	"							"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Percent Dry Weight (Solids) per Standard Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120294 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8120294-DUP1)					**QC Source: PRL0016-01**				**Extracted: 12/09/08 10:49**					
% Solids	NCA SOP	94.3	---	0.0100	% by Weight	1x	92.5	--	--	--	1.93%	(20)	12/09/08 10:49	

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ph: (503) 906.9200 fax: (503) 906.9210

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Organic Carbon, Total (TOC) - Laboratory Quality Control Results

TestAmerica Tacoma

QC Batch: 39039 **Soil Preparation Method: NA**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (580-39039-1)				**QC Source:**				**Extracted: 12/10/08 16:29**						
Total Organic Carbon	9060	ND	---	2000	mg/Kg	1x	--	--	--	--	--	--	12/10/08 16:29	
LCS (580-39039-2)				**QC Source:**				**Extracted: 12/10/08 16:29**						
Total Organic Carbon	9060	5800	---	2000	mg/Kg	1x	--	3400	171%	(13-187)	--	--	12/10/08 16:29	
Duplicate (580-39039-5)				**QC Source: 580-39039-3**				**Extracted: 12/10/08 16:29**						
Total Organic Carbon	9060	51600	---	2000	mg/Kg	1x	52000	--	--	--	2%	(20)	12/10/08 16:29	
Matrix Spike (580-39039-6)				**QC Source: 580-39039-3**				**Extracted: 12/10/08 16:29**						
Total Organic Carbon	9060	69200	---	2000	mg/Kg	1x	52000	20000	84%	(76-128)	--	--	12/10/08 16:29	

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Richard D. Reid, Project Manager

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/17/08 15:41

Notes and Definitions

Report Specific Notes:

ID4	-	Benzo(j)fluoranthene coelutes with Benzo(k)fluoranthene. The reported result is a summation of the isomers and the concentration is based on the response factor of Benzo(k)fluoranthene.
ID5	-	Benzo(e)pyrene concentration is based on the response factor of Benzo(a)pyrene, and has not been calibrated independently.
M7	-	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
M8	-	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
MHA	-	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
Q13	-	Detected hydrocarbons do not have pattern and range consistent with typical petroleum products and may be due to biogenic interference.
R2	-	The RPD exceeded the acceptance limit.
R4	-	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
RL1	-	Reporting limit raised due to sample matrix effects.

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Richard D. Reid, Project Manager

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9405 SW Nimbus Ave.Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: PR10205

CLIENT: PBS ENGINEERING + ENVIRONMENTAL

REPORT TO: TOBY SCOTT
ADDRESS: 390 NE EMERSON BEND OR 97701
PHONE: 541.388.9290 FAX: 541.382.5116

INVOICE TO: PBS-BEND

P.O. NUMBER:

PROJECT NAME:

PROJECT NUMBER:

SAMPLED BY:

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: ~~10~~ STD. | 7 | 5 | 4 | 3 | 2 | 1 | <1

Petroleum Hydrocarbon Analyses: ~~5~~ STD. | 4 | 3 | 2 | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	TPH-HCID	EPA-PRIORITY Metals (13)	EPA-8270 PAH	VOC EPA 8260B	PCB EPA 8082	TOC EPA 415.1	ORGANICS EPA 8011A		HOLD					MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	TP-16 / S-2	12-3-08 / 1100	X	X												S	3		
2	TP-17 / S-1	1117	X	X															
3	TP-17 / S-2	1146	X	X															
4	TP-18A / S-1	1246									X							HOLD	
5	TP-18A / S-2	1313	X	X	X	X	X	X											
6	TP-19 / S-1	1342	X	X															
7	TP-19 / S-2	1410	X	X															
8	TP-20 / S-1	1435	X	X															
9																			
10																			

RELEASED BY:		DATE: 12/4/08	RECEIVED BY:		DATE: 12/5/08
PRINT NAME: Toby Scott	FIRM: PBS	TIME: 1530	PRINT NAME: Jessica Moyer	FIRM: TAP	TIME: 730
RELEASED BY:		DATE:	RECEIVED BY:		DATE:
PRINT NAME:	FIRM:	TIME:	PRINT NAME:	FIRM:	TIME:

ADDITIONAL REMARKS:

TEMP: 2-3

TAL-1000(0408)

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11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
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2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: PR10205

CLIENT: PBS Engineering + Environmental

REPORT TO: Tony Scott

ADDRESS: 360 N 2 ~~Emerson~~ Emerson Ave Suite C Bend, OR 97701

PHONE: 541-388-9140 FAX: 541-382-5116

INVOICE TO:

P.O. NUMBER:

PROJECT NAME: DSL

PROJECT NUMBER: 80416.00/TASK 2

SAMPLED BY: DOANU HAMILTON

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: 10 (STD.) | 7 | 5 | 4 | 3 | 2 | 1 | <1

Petroleum Hydrocarbon Analyses: 5 (STD.) | 4 | 3 | 2 | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE / REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	TPH HCID	EPA 8260B/C/7	METALS (13)	EPA 8270M PAH	VOC EPA 8260B	PCB EPA 8082	TOC EPA 415.1	ORGANIC LEAD EPA 8081A		HOLD					MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	TP-20/S-2	12-3-08 /1450	X	X	X	X	X	X	X								S	3		
2	TP-21/S-1	1523	X	X																
3	TP-21/S-2	1545	X	X	X	X	X	X	X											
4																				
5																				
6																				
7																				
8																				
9																				
10																				

RELEASED BY:		DATE: 12/4/08	RECEIVED BY:		DATE: 12/5/08
PRINT NAME: Tony Scott	FIRM: PBS	TIME: 1530	PRINT NAME: Jessica Mayer	FIRM: TAO	TIME: 930
RELEASED BY:		DATE:	RECEIVED BY:		DATE:
PRINT NAME:	FIRM:	TIME:	PRINT NAME:	FIRM:	TIME:

ADDITIONAL REMARKS:

TEMP: 2.3

PAGE 2 OF 2

TAL-1000(0408)

TestAmerica Sample Receipt Checklist

Cooler ID(s):

Received by:
*(section A)
Date: 12/5/08
Time: 73
Initials: MM

Unpacked by:
*(section B)
Date: 12/5/08
Initials: MM

Logged-in by:
Date: 12/5/08
Initials: MM

Work Order No. PR10205
Client: RBS
Project: DSL

***ESI Clients *(see Section C)*

Temperature out of range:
___Not enough Ice
___*No Ice*
___*Ice Melted*
___*W/in 4 Hours*
___*Other:*_____

Digi #1
Digi #2

Cooler Temperature (IR): 2-3 °C plastic glass NA *(oil/air samples, ESI client)*

Temperature Blank: _____°C

A

Custody Seals: (#____)

Signature: Y N Dated:_____
✓ None

Container Type:
✓ #Cooler(s)
____#Box(s)
____None (___#Other:_____)

Coolant Type:
____Gel Ice
✓ Loose Ice
____None

Packing Material:
✓ Bubble Bags
____Styrofoam Cubbies
____Peanuts
____None (____Other:_____)

Received from:
____TA Courier
____Senvoy
____UPS
✓ Fed Ex
____Client
____TDP
____DHL
____SDS
____Mid-Valley
____GS/TA
____GS/Senvoy
____Other:
_____

B

Sample Status:
(If N circled, see NOD)

General:			
Intact?	Y	N	
# Containers Match COC?	Y	N	none given
IDs Match COC?	Y	N	
For Analyses Requested:			
Cyanide Checked?	Y	N	NA
Correct Type & Preservation?	Y	N	
Adequate Volume?	Y	N	
Within Hold Time?	Y	N	
Volatiles/ Oil Quality:			
VOAs/ Syringes free of Headspace?	Y	N	NA
TB on COC? not provided	Y	N	NA
Metals:			
HNO3 Preserved?	Y	N	NA
Dissolved Metals Filtered?	Y	N	NA

C

***ESI Clients Only:

Temperature Blank: _____°C not provided Digi: # 1 #2

All preserved bottles checked Y N NA *(voas/soils/all unp.)*
All preserved accordingly? Y N *(see NOD)* NA *(voas/soils/all unp.)*

FED EX/ UPS: Was the tracking paper keepable? YES NO

If circled NO, what is the Tracking number? _____

FED EX Goldstreak UPS DHL Other: _____

Project Managers:

Comments:_____

*PM Reviewed:*_____ *(Initial/Date)*

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BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

ORELAP#: OR100021

January 07, 2009

Toby Scott
PBS Engineering - Bend
390 NE Emerson Ave Suite C
Bend, OR 97701

RE: DSL

Enclosed are the results of analyses for samples received by the laboratory on 12/05/08 09:30.
The following list is a summary of the Work Orders contained in this report, generated on 01/07/09 16:44.

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

Work Order	Project	ProjectNumber
PRL0213	DSL	80416

TestAmerica Portland

Estella K Rieben

Estella Rieben, Project Manager

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-8/S-1	PRL0213-01	Soil	12/02/08 07:58	12/05/08 09:30
TP-8/S-2	PRL0213-02	Soil	12/02/08 08:30	12/05/08 09:30
TP-9/S-1	PRL0213-03	Soil	12/02/08 09:07	12/05/08 09:30
TP-10/S-1	PRL0213-04	Soil	12/02/08 12:07	12/05/08 09:30
TP-11A/S-2	PRL0213-05	Soil	12/02/08 13:10	12/05/08 09:30
TP-12A/S-2	PRL0213-06	Soil	12/02/08 13:47	12/05/08 09:30
TP-13/S-1	PRL0213-07	Soil	12/02/08 14:10	12/05/08 09:30
TP-14/S-1	PRL0213-08	Soil	12/02/08 14:30	12/05/08 09:30
TP-15/S-1	PRL0213-09	Soil	12/02/08 15:53	12/05/08 09:30
TP-14/S-2	PRL0213-10	Soil	12/02/08 15:52	12/05/08 09:30

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Estella K Rieben

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Hydrocarbon Identification per NW-TPH Methodology

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0213-01 (TP-8/S-1)			**Soil**			**Sampled: 12/02/08 07:58**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	20.4	mg/kg dry	1x	8120244	12/08/08 11:15	12/09/08 03:04	
Diesel Range Hydrocarbons	"	ND	----	51.0	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	102	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*114%*		*50 - 150 %*	"			"
PRL0213-02 (TP-8/S-2)			**Soil**			**Sampled: 12/02/08 08:30**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	22.4	mg/kg dry	1x	8120244	12/08/08 11:15	12/09/08 03:36	
Diesel Range Hydrocarbons	"	ND	----	55.9	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	**DET**	----	112	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*130%*		*50 - 150 %*	"			"
PRL0213-03 (TP-9/S-1)			**Soil**			**Sampled: 12/02/08 09:07**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	20.6	mg/kg dry	1x	8120244	12/08/08 11:15	12/09/08 04:09	
Diesel Range Hydrocarbons	"	ND	----	51.5	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	**DET**	----	103	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*107%*		*50 - 150 %*	"			"
PRL0213-04 (TP-10/S-1)			**Soil**			**Sampled: 12/02/08 12:07**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	20.9	mg/kg dry	1x	8120244	12/08/08 11:15	12/09/08 04:41	
Diesel Range Hydrocarbons	"	ND	----	52.4	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	105	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*124%*		*50 - 150 %*	"			"
PRL0213-05 (TP-11A/S-2)			**Soil**			**Sampled: 12/02/08 13:10**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	21.4	mg/kg dry	1x	8120244	12/08/08 11:15	12/09/08 05:13	
Diesel Range Hydrocarbons	"	ND	----	53.4	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	107	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*121%*		*50 - 150 %*	"			"
PRL0213-06 (TP-12A/S-2)			**Soil**			**Sampled: 12/02/08 13:47**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	20.6	mg/kg dry	1x	8120244	12/08/08 11:15	12/09/08 05:45	
Diesel Range Hydrocarbons	"	ND	----	51.4	"	"	"	"	"	

TestAmerica Portland

Estella K Rieben

Estella Rieben, Project Manager

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ph: (503) 906.9200 fax: (503) 906.9210

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Hydrocarbon Identification per NW-TPH Methodology

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0213-06 (TP-12A/S-2)			**Soil**			**Sampled: 12/02/08 13:47**				
Heavy Oil Range Hydrocarbons	"	ND	----	103	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*117%*		*50 - 150 %*	"			"
PRL0213-07 (TP-13/S-1)			**Soil**			**Sampled: 12/02/08 14:10**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	21.4	mg/kg dry	1x	8120244	12/08/08 11:15	12/09/08 06:17	
Diesel Range Hydrocarbons	"	ND	----	53.4	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	107	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*105%*		*50 - 150 %*	"			"
PRL0213-08 (TP-14/S-1)			**Soil**			**Sampled: 12/02/08 14:30**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	20.3	mg/kg dry	1x	8120244	12/08/08 11:15	12/09/08 06:49	
Diesel Range Hydrocarbons	"	ND	----	50.9	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	102	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*122%*		*50 - 150 %*	"			"
PRL0213-09 (TP-15/S-1)			**Soil**			**Sampled: 12/02/08 15:53**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	20.5	mg/kg dry	1x	8120244	12/08/08 11:15	12/09/08 07:21	
Diesel Range Hydrocarbons	"	ND	----	51.3	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	103	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*119%*		*50 - 150 %*	"			"
PRL0213-10 (TP-14/S-2)			**Soil**			**Sampled: 12/02/08 15:52**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	22.4	mg/kg dry	1x	8120244	12/08/08 11:15	12/09/08 07:53	
Diesel Range Hydrocarbons	"	**DET**	----	56.1	"	"	"	"	"	**Q13**
Heavy Oil Range Hydrocarbons	"	**DET**	----	112	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*112%*		*50 - 150 %*	"			"

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0213-02 (TP-8/S-2)			**Soil**			**Sampled: 12/02/08 08:30**				
Diesel Range Organics	NWTPH-Dx	**165**	-----	14.5	mg/kg dry	1x	8120491	12/15/08 14:30	12/15/08 18:32	**Q6**
Heavy Oil Range Hydrocarbons	"	**617**	-----	29.1	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*90.3%*		*50 - 150 %*	"			"
PRL0213-03 (TP-9/S-1)			**Soil**			**Sampled: 12/02/08 09:07**				
Diesel Range Organics	NWTPH-Dx	**13.7**	-----	13.1	mg/kg dry	1x	8120491	12/15/08 14:30	12/15/08 18:50	**Q6**
Heavy Oil Range Hydrocarbons	"	**69.3**	-----	26.3	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*90.3%*		*50 - 150 %*	"			"
PRL0213-10 (TP-14/S-2)			**Soil**			**Sampled: 12/02/08 15:52**				
Diesel Range Organics	NWTPH-Dx	**186**	-----	71.1	mg/kg dry	5x	8120491	12/15/08 14:30	12/15/08 19:08	**Q13**
Heavy Oil Range Hydrocarbons	"	**233**	-----	142	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*91.5%*		*50 - 150 %*	"			"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0213-01 (TP-8/S-1)			**Soil**			**Sampled: 12/02/08 07:58**				
Antimony	EPA 6020	ND	-----	0.495	mg/kg dry	1x	8120243	12/08/08 09:15	12/14/08 07:39	
Arsenic	"	**1.02**	-----	0.495	"	"	"	"	12/15/08 22:09	
Beryllium	"	ND	-----	0.989	"	2x	"	"	12/17/08 10:14	**RL1**
Cadmium	"	ND	-----	0.495	"	1x	"	"	12/14/08 07:39	
Chromium	"	**12.4**	-----	0.495	"	"	"	"	12/15/08 22:09	
Copper	"	**15.8**	-----	1.98	"	"	"	"	12/14/08 07:39	
Lead	"	**3.07**	-----	0.495	"	"	"	"	12/15/08 22:09	
Nickel	"	**29.4**	-----	0.989	"	"	"	"	"	
Selenium	"	ND	-----	0.495	"	"	"	"	12/14/08 07:39	
Silver	"	ND	-----	0.495	"	"	"	"	"	
Thallium	"	ND	-----	0.495	"	"	"	"	"	
Zinc	"	**30.7**	-----	1.98	"	"	"	"	"	
PRL0213-02 (TP-8/S-2)			**Soil**			**Sampled: 12/02/08 08:30**				
Antimony	EPA 6020	ND	-----	0.555	mg/kg dry	1x	8120285	12/09/08 09:17	12/12/08 21:44	
Arsenic	"	**1.55**	-----	0.555	"	"	"	"	12/10/08 06:57	
Beryllium	"	ND	-----	0.555	"	"	"	"	12/15/08 16:28	
Cadmium	"	ND	-----	0.555	"	"	"	"	12/12/08 21:44	
Chromium	"	**19.4**	-----	0.555	"	"	"	"	12/10/08 06:57	
Copper	"	**25.8**	-----	2.22	"	"	"	"	"	
Lead	"	**38.0**	-----	0.555	"	"	"	"	"	
Nickel	"	**46.9**	-----	1.11	"	"	"	"	"	
Selenium	"	ND	-----	0.555	"	"	"	"	"	
Silver	"	ND	-----	0.555	"	"	"	"	"	
Thallium	"	ND	-----	0.555	"	"	"	"	12/12/08 21:44	
Zinc	"	**184**	-----	2.22	"	"	"	"	12/10/08 06:57	
PRL0213-03 (TP-9/S-1)			**Soil**			**Sampled: 12/02/08 09:07**				
Antimony	EPA 6020	**1.20**	-----	0.501	mg/kg dry	1x	8120285	12/09/08 09:17	12/12/08 22:38	
Arsenic	"	**1.96**	-----	0.501	"	"	"	"	12/10/08 07:45	
Beryllium	"	ND	-----	0.501	"	"	"	"	12/15/08 17:00	
Cadmium	"	**0.936**	-----	0.501	"	"	"	"	12/12/08 22:38	
Chromium	"	**18.7**	-----	0.501	"	"	"	"	12/10/08 07:45	
Copper	"	**33.4**	-----	2.00	"	"	"	"	"	
Lead	"	**74.4**	-----	0.501	"	"	"	"	"	
Nickel	"	**36.3**	-----	1.00	"	"	"	"	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Total Metals per EPA 6000/7000 Series Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0213-03 (TP-9/S-1)			**Soil**			**Sampled: 12/02/08 09:07**				
Selenium	EPA 6020	ND	-----	0.501	mg/kg dry	1x	8120285	12/09/08 09:17	12/10/08 07:45	
Silver	"	ND	-----	0.501	"	"	"	"	"	
Thallium	"	ND	-----	0.501	"	"	"	"	12/12/08 22:38	
Zinc	"	**270**	-----	2.00	"	"	"	"	12/10/08 07:45	
PRL0213-04 (TP-10/S-1)			**Soil**			**Sampled: 12/02/08 12:07**				
Antimony	EPA 6020	ND	-----	0.509	mg/kg dry	1x	8120285	12/09/08 09:17	12/12/08 22:46	
Arsenic	"	**0.922**	-----	0.509	"	"	"	"	12/10/08 07:52	
Beryllium	"	ND	-----	0.509	"	"	"	"	12/10/08 17:57	
Cadmium	"	ND	-----	0.509	"	"	"	"	12/12/08 22:46	
Chromium	"	**12.4**	-----	0.509	"	"	"	"	12/10/08 07:52	
Copper	"	**15.9**	-----	2.04	"	"	"	"	"	
Lead	"	**2.85**	-----	0.509	"	"	"	"	"	
Nickel	"	**29.3**	-----	1.02	"	"	"	"	"	
Selenium	"	ND	-----	0.509	"	"	"	"	"	
Silver	"	ND	-----	0.509	"	"	"	"	"	
Thallium	"	ND	-----	0.509	"	"	"	"	12/12/08 22:46	
Zinc	"	**23.6**	-----	2.04	"	"	"	"	12/10/08 07:52	
PRL0213-05 (TP-11A/S-2)			**Soil**			**Sampled: 12/02/08 13:10**				
Antimony	EPA 6020	ND	-----	0.520	mg/kg dry	1x	8120285	12/09/08 09:17	12/12/08 22:54	
Arsenic	"	**1.10**	-----	0.520	"	"	"	"	12/10/08 08:00	
Beryllium	"	ND	-----	0.520	"	"	"	"	12/10/08 18:05	
Cadmium	"	ND	-----	0.520	"	"	"	"	12/12/08 22:54	
Chromium	"	**15.1**	-----	0.520	"	"	"	"	12/10/08 08:00	
Copper	"	**19.0**	-----	2.08	"	"	"	"	"	
Lead	"	**2.78**	-----	0.520	"	"	"	"	"	
Nickel	"	**37.7**	-----	1.04	"	"	"	"	"	
Selenium	"	ND	-----	0.520	"	"	"	"	"	
Silver	"	ND	-----	0.520	"	"	"	"	"	
Thallium	"	ND	-----	0.520	"	"	"	"	12/12/08 22:54	
Zinc	"	**26.0**	-----	2.08	"	"	"	"	12/10/08 08:00	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0213-06 (TP-12A/S-2)			**Soil**			**Sampled: 12/02/08 13:47**				
Antimony	EPA 6020	ND	-----	0.528	mg/kg dry	1x	8120285	12/09/08 09:17	12/12/08 23:02	
Arsenic	"	**1.09**	-----	0.528	"	"	"	"	12/10/08 08:08	
Beryllium	"	ND	-----	0.528	"	"	"	"	12/10/08 18:12	
Cadmium	"	ND	-----	0.528	"	"	"	"	12/12/08 23:02	
Chromium	"	**15.6**	-----	0.528	"	"	"	"	12/10/08 08:08	
Copper	"	**19.9**	-----	2.11	"	"	"	"	"	
Lead	"	**2.55**	-----	0.528	"	"	"	"	"	
Nickel	"	**38.9**	-----	1.06	"	"	"	"	"	
Selenium	"	ND	-----	0.528	"	"	"	"	"	
Silver	"	ND	-----	0.528	"	"	"	"	"	
Thallium	"	ND	-----	0.528	"	"	"	"	12/12/08 23:02	
Zinc	"	**27.9**	-----	2.11	"	"	"	"	12/10/08 08:08	
PRL0213-07 (TP-13/S-1)			**Soil**			**Sampled: 12/02/08 14:10**				
Antimony	EPA 6020	ND	-----	0.516	mg/kg dry	1x	8120285	12/09/08 09:17	12/12/08 23:10	
Arsenic	"	**0.862**	-----	0.516	"	"	"	"	12/10/08 08:16	
Beryllium	"	ND	-----	0.516	"	"	"	"	12/10/08 18:20	
Cadmium	"	ND	-----	0.516	"	"	"	"	12/12/08 23:10	
Chromium	"	**12.3**	-----	0.516	"	"	"	"	12/10/08 08:16	
Copper	"	**14.5**	-----	2.07	"	"	"	"	"	
Lead	"	**2.21**	-----	0.516	"	"	"	"	"	
Nickel	"	**32.3**	-----	1.03	"	"	"	"	"	
Selenium	"	ND	-----	0.516	"	"	"	"	"	
Silver	"	ND	-----	0.516	"	"	"	"	"	
Thallium	"	ND	-----	0.516	"	"	"	"	12/12/08 23:10	
Zinc	"	**23.0**	-----	2.07	"	"	"	"	12/10/08 08:16	
PRL0213-08 (TP-14/S-1)			**Soil**			**Sampled: 12/02/08 14:30**				
Antimony	EPA 6020	ND	-----	0.510	mg/kg dry	1x	8120285	12/09/08 09:17	12/12/08 23:25	
Arsenic	"	**0.836**	-----	0.510	"	"	"	"	12/10/08 08:31	
Beryllium	"	ND	-----	0.510	"	"	"	"	12/10/08 18:52	
Cadmium	"	ND	-----	0.510	"	"	"	"	12/12/08 23:25	
Chromium	"	**12.0**	-----	0.510	"	"	"	"	12/10/08 08:31	
Copper	"	**15.4**	-----	2.04	"	"	"	"	"	
Lead	"	**2.00**	-----	0.510	"	"	"	"	"	
Nickel	"	**31.5**	-----	1.02	"	"	"	"	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0213-08 (TP-14/S-1)			**Soil**			**Sampled: 12/02/08 14:30**				
Selenium	EPA 6020	ND	-----	0.510	mg/kg dry	1x	8120285	12/09/08 09:17	12/10/08 08:31	
Silver	"	ND	-----	0.510	"	"	"	"	"	
Thallium	"	ND	-----	0.510	"	"	"	"	12/12/08 23:25	
Zinc	"	**27.0**	-----	2.04	"	"	"	"	12/10/08 08:31	
PRL0213-09 (TP-15/S-1)			**Soil**			**Sampled: 12/02/08 15:53**				
Antimony	EPA 6020	ND	-----	0.512	mg/kg dry	1x	8120285	12/09/08 09:17	12/12/08 23:33	
Arsenic	"	**1.16**	-----	0.512	"	"	"	"	12/10/08 08:39	
Beryllium	"	ND	-----	0.512	"	"	"	"	12/10/08 18:59	
Cadmium	"	ND	-----	0.512	"	"	"	"	12/12/08 23:33	
Chromium	"	**17.8**	-----	0.512	"	"	"	"	12/10/08 08:39	
Copper	"	**19.2**	-----	2.05	"	"	"	"	"	
Lead	"	**2.59**	-----	0.512	"	"	"	"	"	
Nickel	"	**39.7**	-----	1.02	"	"	"	"	"	
Selenium	"	ND	-----	0.512	"	"	"	"	"	
Silver	"	ND	-----	0.512	"	"	"	"	"	
Thallium	"	ND	-----	0.512	"	"	"	"	12/12/08 23:33	
Zinc	"	**28.7**	-----	2.05	"	"	"	"	12/10/08 08:39	
PRL0213-10 (TP-14/S-2)			**Soil**			**Sampled: 12/02/08 15:52**				
Antimony	EPA 6020	ND	-----	0.559	mg/kg dry	1x	8120285	12/09/08 09:17	12/13/08 00:36	
Arsenic	"	**1.96**	-----	0.559	"	"	"	"	12/10/08 08:47	
Beryllium	"	ND	-----	0.559	"	"	"	"	12/10/08 19:07	
Cadmium	"	**1.08**	-----	0.559	"	"	"	"	12/13/08 00:36	
Chromium	"	**18.9**	-----	0.559	"	"	"	"	12/10/08 08:47	
Copper	"	**32.4**	-----	2.23	"	"	"	"	"	
Lead	"	**55.6**	-----	0.559	"	"	"	"	"	
Nickel	"	**51.5**	-----	1.12	"	"	"	"	"	
Selenium	"	ND	-----	0.559	"	"	"	"	"	
Silver	"	ND	-----	0.559	"	"	"	"	"	
Thallium	"	ND	-----	0.559	"	"	"	"	12/13/08 00:36	
Zinc	"	**254**	-----	2.23	"	"	"	"	12/10/08 08:47	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Total Mercury per EPA Method 7471A

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0213-01 (TP-8/S-1)			**Soil**			**Sampled: 12/02/08 07:58**				
Mercury	EPA 7471A	ND	----	0.0968	mg/kg dry	1x	8120251	12/08/08 09:58	12/08/08 16:06	
PRL0213-02 (TP-8/S-2)			**Soil**			**Sampled: 12/02/08 08:30**				
Mercury	EPA 7471A	ND	----	0.0972	mg/kg dry	1x	8120251	12/08/08 09:58	12/08/08 16:09	
PRL0213-03 (TP-9/S-1)			**Soil**			**Sampled: 12/02/08 09:07**				
Mercury	EPA 7471A	**0.0948**	----	0.0847	mg/kg dry	1x	8120251	12/08/08 09:58	12/08/08 16:11	
PRL0213-04 (TP-10/S-1)			**Soil**			**Sampled: 12/02/08 12:07**				
Mercury	EPA 7471A	ND	----	0.0981	mg/kg dry	1x	8120251	12/08/08 09:58	12/08/08 16:14	
PRL0213-05 (TP-11A/S-2)			**Soil**			**Sampled: 12/02/08 13:10**				
Mercury	EPA 7471A	ND	----	0.0918	mg/kg dry	1x	8120251	12/08/08 09:58	12/08/08 16:23	
PRL0213-06 (TP-12A/S-2)			**Soil**			**Sampled: 12/02/08 13:47**				
Mercury	EPA 7471A	ND	----	0.0868	mg/kg dry	1x	8120251	12/08/08 09:58	12/08/08 16:25	
PRL0213-07 (TP-13/S-1)			**Soil**			**Sampled: 12/02/08 14:10**				
Mercury	EPA 7471A	ND	----	0.103	mg/kg dry	1x	8120251	12/08/08 09:58	12/08/08 16:27	
PRL0213-08 (TP-14/S-1)			**Soil**			**Sampled: 12/02/08 14:30**				
Mercury	EPA 7471A	ND	----	0.0894	mg/kg dry	1x	8120251	12/08/08 09:58	12/08/08 16:30	
PRL0213-09 (TP-15/S-1)			**Soil**			**Sampled: 12/02/08 15:53**				
Mercury	EPA 7471A	ND	----	0.0844	mg/kg dry	1x	8120251	12/08/08 09:58	12/08/08 16:32	
PRL0213-10 (TP-14/S-2)			**Soil**			**Sampled: 12/02/08 15:52**				
Mercury	EPA 7471A	ND	----	0.0818	mg/kg dry	1x	8120251	12/08/08 09:58	12/08/08 16:34	

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Estella Rieben, Project Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Polychlorinated Biphenyls per EPA Method 8082

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0213-02 (TP-8/S-2)			**Soil**			**Sampled: 12/02/08 08:30**				
Aroclor 1016	EPA 8082	ND	----	38.1	ug/kg dry	1x	8120281	12/09/08 15:55	12/11/08 16:28	
Aroclor 1221	"	ND	----	76.7	"	"	"	"	"	
Aroclor 1232	"	ND	----	38.1	"	"	"	"	"	
Aroclor 1242	"	ND	----	38.1	"	"	"	"	"	
Aroclor 1248	"	**171**	----	38.1	"	"	"	"	"	
Aroclor 1254	"	ND	----	38.1	"	"	"	"	"	
Aroclor 1260	"	ND	----	38.1	"	"	"	"	"	
Surrogate(s): Decachlorobiphenyl				*77.0%*		*16 - 149 %*	"			"
PRL0213-06 (TP-12A/S-2)			**Soil**			**Sampled: 12/02/08 13:47**				
Aroclor 1016	EPA 8082	ND	----	35.7	ug/kg dry	1x	8120281	12/09/08 15:55	12/10/08 21:40	
Aroclor 1221	"	ND	----	71.8	"	"	"	"	"	
Aroclor 1232	"	ND	----	35.7	"	"	"	"	"	
Aroclor 1242	"	ND	----	35.7	"	"	"	"	"	
Aroclor 1248	"	ND	----	35.7	"	"	"	"	"	
Aroclor 1254	"	ND	----	35.7	"	"	"	"	"	
Aroclor 1260	"	ND	----	35.7	"	"	"	"	"	
Surrogate(s): Decachlorobiphenyl				*66.9%*		*16 - 149 %*	"			"
PRL0213-10 (TP-14/S-2)			**Soil**			**Sampled: 12/02/08 15:52**				**RL7**
Aroclor 1016	EPA 8082	ND	----	375	ug/kg dry	10x	8120281	12/09/08 15:55	12/15/08 15:12	
Aroclor 1221	"	ND	----	755	"	"	"	"	"	
Aroclor 1232	"	ND	----	375	"	"	"	"	"	
Aroclor 1242	"	ND	----	375	"	"	"	"	"	
Aroclor 1248	"	ND	----	375	"	"	"	"	"	
Aroclor 1254	"	**2710**	----	375	"	"	"	"	"	
Aroclor 1260	"	ND	----	375	"	"	"	"	"	
Surrogate(s): Decachlorobiphenyl				*116%*		*16 - 149 %*	"			"

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Estella Rieben, Project Manager

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Volatile Organic Compounds per EPA Method 8260B

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0213-02 (TP-8/S-2)			**Soil**			**Sampled: 12/02/08 08:30**				
Acetone	EPA 8260B	ND	----	2780	ug/kg dry	1x	8120284	12/09/08 10:30	12/09/08 17:52	
Benzene	"	ND	----	22.2	"	"	"	"	"	
Bromobenzene	"	ND	----	111	"	"	"	"	"	
Bromochloromethane	"	ND	----	111	"	"	"	"	"	
Bromodichloromethane	"	ND	----	111	"	"	"	"	"	
Bromoform	"	ND	----	111	"	"	"	"	"	
Bromomethane	"	ND	----	555	"	"	"	"	"	
2-Butanone (MEK)	"	ND	----	1110	"	"	"	"	"	
n-Butylbenzene	"	ND	----	555	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	111	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	111	"	"	"	"	"	
Carbon disulfide	"	ND	----	1110	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	111	"	"	"	"	"	
Chlorobenzene	"	ND	----	111	"	"	"	"	"	
Chloroethane	"	ND	----	111	"	"	"	"	"	
Chloroform	"	ND	----	111	"	"	"	"	"	
Chloromethane	"	ND	----	555	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	111	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	111	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	555	"	"	"	"	"	
Dibromochloromethane	"	ND	----	111	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	111	"	"	"	"	"	
Dibromomethane	"	ND	----	111	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	111	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	111	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	111	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	555	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	111	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	111	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	111	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	111	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	111	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	111	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	111	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	111	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	111	"	"	"	"	"	

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Estella Rieben, Project Manager

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Volatile Organic Compounds per EPA Method 8260B

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0213-02 (TP-8/S-2)			**Soil**			**Sampled: 12/02/08 08:30**				
cis-1,3-Dichloropropene	EPA 8260B	ND	-----	111	ug/kg dry	1x	8120284	12/09/08 10:30	12/09/08 17:52	
trans-1,3-Dichloropropene	"	ND	-----	111	"	"	"	"	"	
Ethylbenzene	"	ND	-----	111	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	444	"	"	"	"	"	
2-Hexanone	"	ND	-----	1110	"	"	"	"	"	
Isopropylbenzene	"	ND	-----	222	"	"	"	"	"	
p-Isopropyltoluene	"	ND	-----	222	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	-----	555	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	-----	111	"	"	"	"	"	
Methylene chloride	"	ND	-----	555	"	"	"	"	"	
Naphthalene	"	ND	-----	222	"	"	"	"	"	
n-Propylbenzene	"	ND	-----	111	"	"	"	"	"	
Styrene	"	ND	-----	111	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	-----	111	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	-----	111	"	"	"	"	"	
Tetrachloroethene	"	ND	-----	111	"	"	"	"	"	
Toluene	"	ND	-----	111	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	-----	111	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	111	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	-----	111	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	-----	111	"	"	"	"	"	
Trichloroethene	"	ND	-----	111	"	"	"	"	"	
Trichlorofluoromethane	"	ND	-----	111	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	-----	111	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	-----	111	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	-----	111	"	"	"	"	"	
Vinyl chloride	"	ND	-----	111	"	"	"	"	"	
o-Xylene	"	ND	-----	111	"	"	"	"	"	
m,p-Xylene	"	ND	-----	222	"	"	"	"	"	

Surrogate(s):	*4-BFB*	*91.1%*	*75 - 125 %*	"	"
	1,2-DCA-d4	*95.2%*	*75 - 125 %*	"	"
	Dibromofluoromethane	*89.8%*	*75 - 125 %*	"	"
	Toluene-d8	*95.6%*	*75 - 125 %*	"	"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Volatile Organic Compounds per EPA Method 8260B

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0213-06 (TP-12A/S-2)			**Soil**			**Sampled: 12/02/08 13:47**				
Acetone	EPA 8260B	ND	----	2580	ug/kg dry	1x	8120284	12/09/08 10:30	12/09/08 18:21	
Benzene	"	ND	----	20.6	"	"	"	"	"	
Bromobenzene	"	ND	----	103	"	"	"	"	"	
Bromochloromethane	"	ND	----	103	"	"	"	"	"	
Bromodichloromethane	"	ND	----	103	"	"	"	"	"	
Bromoform	"	ND	----	103	"	"	"	"	"	
Bromomethane	"	ND	----	516	"	"	"	"	"	
2-Butanone (MEK)	"	ND	----	1030	"	"	"	"	"	
n-Butylbenzene	"	ND	----	516	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	103	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	103	"	"	"	"	"	
Carbon disulfide	"	ND	----	1030	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	103	"	"	"	"	"	
Chlorobenzene	"	ND	----	103	"	"	"	"	"	
Chloroethane	"	ND	----	103	"	"	"	"	"	
Chloroform	"	ND	----	103	"	"	"	"	"	
Chloromethane	"	ND	----	516	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	103	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	103	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	516	"	"	"	"	"	
Dibromochloromethane	"	ND	----	103	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	103	"	"	"	"	"	
Dibromomethane	"	ND	----	103	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	103	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	103	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	103	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	516	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	103	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	103	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	103	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	103	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	103	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	103	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	103	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	103	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	103	"	"	"	"	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Volatile Organic Compounds per EPA Method 8260B

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0213-06 (TP-12A/S-2)			**Soil**			**Sampled: 12/02/08 13:47**				
cis-1,3-Dichloropropene	EPA 8260B	ND	-----	103	ug/kg dry	1x	8120284	12/09/08 10:30	12/09/08 18:21	
trans-1,3-Dichloropropene	"	ND	-----	103	"	"	"	"	"	
Ethylbenzene	"	ND	-----	103	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	413	"	"	"	"	"	
2-Hexanone	"	ND	-----	1030	"	"	"	"	"	
Isopropylbenzene	"	ND	-----	206	"	"	"	"	"	
p-Isopropyltoluene	"	ND	-----	206	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	-----	516	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	-----	103	"	"	"	"	"	
Methylene chloride	"	ND	-----	516	"	"	"	"	"	
Naphthalene	"	ND	-----	206	"	"	"	"	"	
n-Propylbenzene	"	ND	-----	103	"	"	"	"	"	
Styrene	"	ND	-----	103	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	-----	103	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	-----	103	"	"	"	"	"	
Tetrachloroethene	"	ND	-----	103	"	"	"	"	"	
Toluene	"	ND	-----	103	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	-----	103	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	103	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	-----	103	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	-----	103	"	"	"	"	"	
Trichloroethene	"	ND	-----	103	"	"	"	"	"	
Trichlorofluoromethane	"	ND	-----	103	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	-----	103	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	-----	103	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	-----	103	"	"	"	"	"	
Vinyl chloride	"	ND	-----	103	"	"	"	"	"	
o-Xylene	"	ND	-----	103	"	"	"	"	"	
m,p-Xylene	"	ND	-----	206	"	"	"	"	"	

Surrogate(s):	*4-BFB*	*91.0%*	*75 - 125 %*	"	"
	1,2-DCA-d4	*98.5%*	*75 - 125 %*	"	"
	Dibromofluoromethane	*91.6%*	*75 - 125 %*	"	"
	Toluene-d8	*97.0%*	*75 - 125 %*	"	"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Volatile Organic Compounds per EPA Method 8260B

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0213-10 (TP-14/S-2)			**Soil**			**Sampled: 12/02/08 15:52**				
Acetone	EPA 8260B	ND	----	2670	ug/kg dry	1x	8120284	12/09/08 10:30	12/09/08 18:50	
Benzene	"	ND	----	21.4	"	"	"	"	"	
Bromobenzene	"	ND	----	107	"	"	"	"	"	
Bromochloromethane	"	ND	----	107	"	"	"	"	"	
Bromodichloromethane	"	ND	----	107	"	"	"	"	"	
Bromoform	"	ND	----	107	"	"	"	"	"	
Bromomethane	"	ND	----	534	"	"	"	"	"	
2-Butanone (MEK)	"	ND	----	1070	"	"	"	"	"	
n-Butylbenzene	"	ND	----	534	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	107	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	107	"	"	"	"	"	
Carbon disulfide	"	ND	----	1070	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	107	"	"	"	"	"	
Chlorobenzene	"	ND	----	107	"	"	"	"	"	
Chloroethane	"	ND	----	107	"	"	"	"	"	
Chloroform	"	ND	----	107	"	"	"	"	"	
Chloromethane	"	ND	----	534	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	107	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	107	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	534	"	"	"	"	"	
Dibromochloromethane	"	ND	----	107	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	107	"	"	"	"	"	
Dibromomethane	"	ND	----	107	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	107	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	107	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	107	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	534	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	107	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	107	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	107	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	107	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	107	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	107	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	107	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	107	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	107	"	"	"	"	"	

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Estella K Rieben

Estella Rieben, Project Manager

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Volatile Organic Compounds per EPA Method 8260B

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0213-10 (TP-14/S-2)			**Soil**			**Sampled: 12/02/08 15:52**				
cis-1,3-Dichloropropene	EPA 8260B	ND	-----	107	ug/kg dry	1x	8120284	12/09/08 10:30	12/09/08 18:50	
trans-1,3-Dichloropropene	"	ND	-----	107	"	"	"	"	"	
Ethylbenzene	"	ND	-----	107	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	427	"	"	"	"	"	
2-Hexanone	"	ND	-----	1070	"	"	"	"	"	
Isopropylbenzene	"	ND	-----	214	"	"	"	"	"	
p-Isopropyltoluene	"	ND	-----	214	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	-----	534	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	-----	107	"	"	"	"	"	
Methylene chloride	"	ND	-----	534	"	"	"	"	"	
Naphthalene	"	ND	-----	214	"	"	"	"	"	
n-Propylbenzene	"	ND	-----	107	"	"	"	"	"	
Styrene	"	ND	-----	107	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	-----	107	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	-----	107	"	"	"	"	"	
Tetrachloroethene	"	ND	-----	107	"	"	"	"	"	
Toluene	"	ND	-----	107	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	-----	107	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	107	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	-----	107	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	-----	107	"	"	"	"	"	
Trichloroethene	"	ND	-----	107	"	"	"	"	"	
Trichlorofluoromethane	"	ND	-----	107	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	-----	107	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	-----	107	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	-----	107	"	"	"	"	"	
Vinyl chloride	"	ND	-----	107	"	"	"	"	"	
o-Xylene	"	ND	-----	107	"	"	"	"	"	
m,p-Xylene	"	ND	-----	214	"	"	"	"	"	

Surrogate(s):	*4-BFB*	*94.2%*	*75 - 125 %*	"	"
	1,2-DCA-d4	*100%*	*75 - 125 %*	"	"
	Dibromofluoromethane	*95.4%*	*75 - 125 %*	"	"
	Toluene-d8	*101%*	*75 - 125 %*	"	"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Polynuclear Aromatic Compounds per EPA 8270M-SIM

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0213-02 (TP-8/S-2)			**Soil**			**Sampled: 12/02/08 08:30**				
Acenaphthene	EPA 8270m	ND	----	15.5	ug/kg dry	1x	8120250	12/08/08 14:45	12/10/08 14:26	
Acenaphthylene	"	ND	----	15.5	"	"	"	"	"	
Anthracene	"	ND	----	15.5	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	15.5	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	15.5	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	15.5	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	15.5	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	15.5	"	"	"	"	"	
Chrysene	"	ND	----	15.5	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	15.5	"	"	"	"	"	
Fluoranthene	"	ND	----	15.5	"	"	"	"	"	
Fluorene	"	ND	----	15.5	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	15.5	"	"	"	"	"	
Naphthalene	"	ND	----	15.5	"	"	"	"	"	
Phenanthrene	"	ND	----	15.5	"	"	"	"	"	
Pyrene	"	ND	----	15.5	"	"	"	"	"	
Surrogate(s): Fluorene-d10				*73.1%*		*24 - 125 %*	"			"
Pyrene-d10				*78.5%*		*41 - 141 %*	"			"
Benzo (a) pyrene-d12				*79.2%*		*38 - 143 %*	"			"
PRL0213-06 (TP-12A/S-2)			**Soil**			**Sampled: 12/02/08 13:47**				
Acenaphthene	EPA 8270m	ND	----	14.4	ug/kg dry	1x	8120250	12/08/08 14:45	12/10/08 14:55	
Acenaphthylene	"	ND	----	14.4	"	"	"	"	"	
Anthracene	"	ND	----	14.4	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	14.4	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	14.4	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	14.4	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	14.4	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	14.4	"	"	"	"	"	
Chrysene	"	ND	----	14.4	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	14.4	"	"	"	"	"	
Fluoranthene	"	ND	----	14.4	"	"	"	"	"	
Fluorene	"	ND	----	14.4	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	14.4	"	"	"	"	"	
Naphthalene	"	ND	----	14.4	"	"	"	"	"	
Phenanthrene	"	ND	----	14.4	"	"	"	"	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Polynuclear Aromatic Compounds per EPA 8270M-SIM

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0213-06 (TP-12A/S-2)			**Soil**			**Sampled: 12/02/08 13:47**				
Pyrene	EPA 8270m	ND	----	14.4	ug/kg dry	1x	8120250	12/08/08 14:45	12/10/08 14:55	
Surrogate(s): Fluorene-d10				*58.1%*		*24 - 125 %*	"			"
Pyrene-d10				*72.2%*		*41 - 141 %*	"			"
Benzo (a) pyrene-d12				*70.4%*		*38 - 143 %*	"			"
PRL0213-10 (TP-14/S-2)			**Soil**			**Sampled: 12/02/08 15:52**				
Acenaphthene	EPA 8270m	ND	----	15.1	ug/kg dry	1x	8120250	12/08/08 14:45	12/10/08 15:24	
Acenaphthylene	"	ND	----	15.1	"	"	"	"	"	
Anthracene	"	ND	----	15.1	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	15.1	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	15.1	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	15.1	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	15.1	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	15.1	"	"	"	"	"	
Chrysene	"	ND	----	15.1	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	15.1	"	"	"	"	"	
Fluoranthene	"	ND	----	15.1	"	"	"	"	"	
Fluorene	"	ND	----	15.1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	15.1	"	"	"	"	"	
Naphthalene	"	ND	----	15.1	"	"	"	"	"	
Phenanthrene	"	ND	----	15.1	"	"	"	"	"	
Pyrene	"	ND	----	15.1	"	"	"	"	"	
Surrogate(s): Fluorene-d10				*65.4%*		*24 - 125 %*	"			"
Pyrene-d10				*69.6%*		*41 - 141 %*	"			"
Benzo (a) pyrene-d12				*76.7%*		*38 - 143 %*	"			"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Percent Dry Weight (Solids) per Standard Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0213-01 (TP-8/S-1)			**Soil**			**Sampled: 12/02/08 07:58**				
% Solids	NCA SOP	**97.2**	-----	0.0100	% by Weight	1x	8120277	12/08/08 18:22	12/08/08 18:22	
PRL0213-02 (TP-8/S-2)			**Soil**			**Sampled: 12/02/08 08:30**				
% Solids	NCA SOP	**86.6**	-----	0.0100	% by Weight	1x	8120277	12/08/08 18:22	12/08/08 18:22	
PRL0213-03 (TP-9/S-1)			**Soil**			**Sampled: 12/02/08 09:07**				
% Solids	NCA SOP	**96.0**	-----	0.0100	% by Weight	1x	8120277	12/08/08 18:22	12/08/08 18:22	
PRL0213-04 (TP-10/S-1)			**Soil**			**Sampled: 12/02/08 12:07**				
% Solids	NCA SOP	**95.3**	-----	0.0100	% by Weight	1x	8120277	12/08/08 18:22	12/08/08 18:22	
PRL0213-05 (TP-11A/S-2)			**Soil**			**Sampled: 12/02/08 13:10**				
% Solids	NCA SOP	**92.5**	-----	0.0100	% by Weight	1x	8120277	12/08/08 18:22	12/08/08 18:22	
PRL0213-06 (TP-12A/S-2)			**Soil**			**Sampled: 12/02/08 13:47**				
% Solids	NCA SOP	**92.9**	-----	0.0100	% by Weight	1x	8120277	12/08/08 18:22	12/08/08 18:22	
PRL0213-07 (TP-13/S-1)			**Soil**			**Sampled: 12/02/08 14:10**				
% Solids	NCA SOP	**93.1**	-----	0.0100	% by Weight	1x	8120277	12/08/08 18:22	12/08/08 18:22	
PRL0213-08 (TP-14/S-1)			**Soil**			**Sampled: 12/02/08 14:30**				
% Solids	NCA SOP	**96.2**	-----	0.0100	% by Weight	1x	8120277	12/08/08 18:22	12/08/08 18:22	
PRL0213-09 (TP-15/S-1)			**Soil**			**Sampled: 12/02/08 15:53**				
% Solids	NCA SOP	**94.8**	-----	0.0100	% by Weight	1x	8120277	12/08/08 18:22	12/08/08 18:22	
PRL0213-10 (TP-14/S-2)			**Soil**			**Sampled: 12/02/08 15:52**				
% Solids	NCA SOP	**88.6**	-----	0.0100	% by Weight	1x	8120277	12/08/08 18:22	12/08/08 18:22	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Organic Carbon, Total (TOC)

TestAmerica Tacoma

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0213-02 (TP-8/S-2)			**Soil**			**Sampled: 12/02/08 08:30**				
Total Organic Carbon	9060	**16000**	-----	2000	mg/Kg	1x	39039	12/11/08 11:01	12/11/08 11:01	
PRL0213-06 (TP-12A/S-2)			**Soil**			**Sampled: 12/02/08 13:47**				
Total Organic Carbon	9060	ND	-----	2000	mg/Kg	1x	39039	12/11/08 11:01	12/11/08 11:01	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Organic Carbon, Total (TOC)

TestAmerica Tacoma

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0213-10 (TP-14/S-2)			**Soil**			**Sampled: 12/02/08 15:52**				
Total Organic Carbon	9060 STD	**18000**	-----	2000	mg/Kg	1x	39668	01/06/09 15:22	01/06/09 15:22	**H**

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Hydrocarbon Identification per NW-TPH Methodology - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120244 **Soil Preparation Method: EPA 3550 Fuels**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120244-BLK1)								**Extracted: 12/08/08 11:15**						
Gasoline Range Hydrocarbons	NWTPH HCID	ND	---	20.0	mg/kg wet	1x	--	--	--	--	--	--	12/09/08 01:28	
Diesel Range Hydrocarbons	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
Heavy Oil Range Hydrocarbons	"	ND	---	100	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 93.1%*			*Limits: 50-150%*	"							*12/09/08 01:28*	
Duplicate (8120244-DUP1)					**QC Source: PRL0213-01**			**Extracted: 12/08/08 11:15**						
Gasoline Range Hydrocarbons	NWTPH HCID	ND	---	19.9	mg/kg dry	1x	ND	--	--	--	NR	(50)	12/09/08 02:00	
Diesel Range Hydrocarbons	"	ND	---	49.7	"	"	ND	--	--	--	144%	"	"	R4
Heavy Oil Range Hydrocarbons	"	ND	---	99.4	"	"	ND	--	--	--	NR	"	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 116%*			*Limits: 50-150%*	"							*12/09/08 02:00*	
Duplicate (8120244-DUP2)					**QC Source: PRL0215-01**			**Extracted: 12/08/08 11:15**						
Gasoline Range Hydrocarbons	NWTPH HCID	ND	---	21.9	mg/kg dry	1x	ND	--	--	--	NR	(50)	12/09/08 02:32	
Diesel Range Hydrocarbons	"	DET	---	54.7	"	"	ND	--	--	--	124%	"	"	R4
Heavy Oil Range Hydrocarbons	"	DET	---	109	"	"	303	--	--	--	16.9%	"	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 114%*			*Limits: 50-150%*	"							*12/09/08 02:32*	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120491 **Soil Preparation Method: EPA 3550 Fuels**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120491-BLK1)								**Extracted: 12/15/08 14:30**						
Diesel Range Organics	NWTPH-Dx	ND	---	12.5	mg/kg wet	1x	--	--	--	--	--	--	12/15/08 16:42	
Heavy Oil Range Hydrocarbons	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery:*	*88.0%*		*Limits:*	*50-150%*	*"*						*12/15/08 16:42*	
LCS (8120491-BS1)								**Extracted: 12/15/08 14:30**						
Diesel Range Organics	NWTPH-Dx	137	---	12.5	mg/kg wet	1x	--	125	109%	(50-150)	--	--	12/15/08 17:00	
Heavy Oil Range Hydrocarbons	"	77.0	---	25.0	"	"	--	75.0	103%	"	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery:*	*94.9%*		*Limits:*	*50-150%*	*"*						*12/15/08 17:00*	
Duplicate (8120491-DUP1)					**QC Source: PRL0189-13**			**Extracted: 12/15/08 14:30**						
Diesel Range Organics	NWTPH-Dx	ND	---	68.2	mg/kg dry	1x	ND	--	--	--	13.0%	(40)	12/15/08 17:19	
Heavy Oil Range Hydrocarbons	"	ND	---	136	"	"	ND	--	--	--	17.8%	"	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery:*	*73.9%*		*Limits:*	*50-150%*	*"*						*12/15/08 17:19*	
Duplicate (8120491-DUP2)					**QC Source: PRL0189-14**			**Extracted: 12/15/08 14:30**						
Diesel Range Organics	NWTPH-Dx	ND	---	75.8	mg/kg dry	1x	ND	--	--	--	19.8%	(40)	12/15/08 17:37	
Heavy Oil Range Hydrocarbons	"	ND	---	152	"	"	ND	--	--	--	56.7%	"	"	R4
Surrogate(s): 1-Chlorooctadecane		*Recovery:*	*74.8%*		*Limits:*	*50-150%*	*"*						*12/15/08 17:37*	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

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QC Batch: 8120243 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120243-BLK1)								Extracted: 12/08/08 09:15						
Antimony	EPA 6020	ND	---	0.500	mg/kg wet	1x	--	--	--	--	--	--	12/14/08 04:00	
Arsenic	"	ND	---	0.500	"	"	--	--	--	--	--	--	12/15/08 18:02	
Beryllium	"	ND	---	0.500	"	"	--	--	--	--	--	--	12/16/08 15:48	
Cadmium	"	ND	---	0.500	"	"	--	--	--	--	--	--	12/14/08 04:00	
Chromium	"	ND	---	0.500	"	"	--	--	--	--	--	--	12/15/08 19:22	
Copper	"	ND	---	2.00	"	"	--	--	--	--	--	--	12/14/08 04:00	
Lead	"	ND	---	0.500	"	"	--	--	--	--	--	--	12/15/08 19:22	
Nickel	"	ND	---	1.00	"	"	--	--	--	--	--	--	12/15/08 18:02	
Selenium	"	ND	---	0.500	"	"	--	--	--	--	--	--	12/14/08 04:00	
Silver	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Thallium	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
LCS (8120243-BS1)								Extracted: 12/08/08 09:15						
Antimony	EPA 6020	4.59	---	0.490	mg/kg wet	1x	--	4.90	93.6%	(80-120)	--	--	12/14/08 04:08	
Arsenic	"	9.53	---	0.490	"	"	--	9.80	97.2%	"	--	--	12/15/08 18:10	
Beryllium	"	9.82	---	0.490	"	"	--	"	100%	"	--	--	12/16/08 15:56	
Cadmium	"	9.83	---	0.490	"	"	--	"	100%	"	--	--	12/14/08 04:08	
Chromium	"	9.43	---	0.490	"	"	--	"	96.2%	"	--	--	12/15/08 18:10	
Copper	"	10.2	---	1.96	"	"	--	"	104%	"	--	--	12/14/08 04:08	
Lead	"	8.81	---	0.490	"	"	--	"	89.8%	"	--	--	12/15/08 18:10	
Nickel	"	9.13	---	0.980	"	"	--	"	93.1%	"	--	--	"	
Selenium	"	9.86	---	0.490	"	"	--	"	101%	"	--	--	12/14/08 04:08	
Silver	"	5.00	---	0.490	"	"	--	4.90	102%	"	--	--	"	
Thallium	"	8.89	---	0.490	"	"	--	9.80	90.7%	"	--	--	"	
Zinc	"	9.86	---	1.96	"	"	--	"	101%	"	--	--	"	
Duplicate (8120243-DUP1)				QC Source: PRL0204-01				Extracted: 12/08/08 09:15						
Antimony	EPA 6020	ND	---	0.527	mg/kg dry	1x	ND	--	--	--	0.00%	(40)	12/14/08 04:31	
Arsenic	"	1.27	---	1.05	"	2x	1.24	--	--	--	1.68%	"	12/15/08 18:34	
Beryllium	"	ND	---	1.05	"	"	ND	--	--	--	2.60%	"	12/16/08 16:12	
Cadmium	"	ND	---	0.527	"	1x	ND	--	--	--	14.8%	"	12/14/08 04:31	
Chromium	"	12.9	---	1.05	"	2x	12.2	--	--	--	6.14%	"	12/15/08 18:34	
Copper	"	19.1	---	2.11	"	1x	17.7	--	--	--	7.47%	"	12/14/08 04:31	
Lead	"	18.7	---	1.05	"	2x	20.3	--	--	--	8.23%	"	12/15/08 18:34	
Nickel	"	77.5	---	2.11	"	"	49.1	--	--	--	44.7%	"	"	R2
Selenium	"	ND	---	0.527	"	1x	ND	--	--	--	16.7%	"	12/14/08 04:31	
Silver	"	ND	---	0.527	"	"	ND	--	--	--	0.00%	"	"	
Thallium	"	ND	---	0.527	"	"	ND	--	--	--	11.1%	"	"	

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Estella Rieben, Project Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120243 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8120243-DUP1)					**QC Source: PRL0204-01**				**Extracted: 12/08/08 09:15**					
Zinc	EPA 6020	909	---	4.22	mg/kg dry	2x	624	--	--	--	37.2%	(40)	12/16/08 16:12	
Matrix Spike (8120243-MS1)					**QC Source: PRL0204-01**				**Extracted: 12/08/08 09:15**					
Antimony	EPA 6020	2.37	---	0.522	mg/kg dry	1x	0.174	5.22	42.1%	(70-130)	--	--	12/14/08 04:47	M8
Arsenic	"	11.3	---	1.04	"	2x	1.24	10.4	95.9%	(75-125)	--	--	12/15/08 19:06	
Beryllium	"	9.74	---	1.04	"	"	0.401	"	89.5%	"	--	--	12/16/08 16:28	
Cadmium	"	11.8	---	0.522	"	1x	0.364	"	109%	"	--	--	12/14/08 04:47	
Chromium	"	22.8	---	1.04	"	2x	12.2	"	102%	"	--	--	12/15/08 19:06	
Copper	"	34.0	---	2.09	"	1x	17.7	"	156%	"	--	--	12/14/08 04:47	M7
Lead	"	25.0	---	1.04	"	2x	20.3	"	45.0%	"	--	--	12/15/08 19:06	M8
Nickel	"	80.6	---	2.09	"	"	49.1	"	301%	"	--	--	"	M7
Selenium	"	10.3	---	0.522	"	1x	0.0686	"	97.5%	"	--	--	12/14/08 04:47	
Silver	"	5.77	---	0.522	"	"	0.105	5.22	108%	"	--	--	"	
Thallium	"	9.82	---	0.522	"	"	0.100	10.4	93.0%	"	--	--	"	
Zinc	"	234	---	4.18	"	2x	624	"	-3730%	"	--	--	12/16/08 16:28	MHA
Matrix Spike (8120243-MS2)					**QC Source: PRL0205-03**				**Extracted: 12/08/08 09:15**					
Antimony	EPA 6020	3.07	---	0.549	mg/kg dry	1x	0.384	5.49	49.0%	(70-130)	--	--	12/14/08 06:21	M8
Arsenic	"	10.8	---	0.549	"	"	1.02	11.0	88.8%	(75-125)	--	--	12/15/08 21:06	
Beryllium	"	10.5	---	0.549	"	"	0.340	"	92.3%	"	--	--	12/17/08 01:55	
Cadmium	"	11.9	---	0.549	"	"	0.170	"	107%	"	--	--	12/14/08 06:21	
Chromium	"	22.2	---	0.549	"	"	11.7	"	95.8%	"	--	--	12/15/08 21:06	
Copper	"	36.5	---	2.20	"	"	18.2	"	167%	"	--	--	12/14/08 06:21	M7
Lead	"	27.6	---	0.549	"	"	9.28	"	167%	"	--	--	12/15/08 21:06	M7
Nickel	"	44.8	---	1.10	"	"	35.1	"	87.9%	"	--	--	"	
Selenium	"	11.1	---	0.549	"	"	0.0439	"	101%	"	--	--	12/14/08 06:21	
Silver	"	6.02	---	0.549	"	"	0.104	5.49	108%	"	--	--	"	
Thallium	"	10.1	---	0.549	"	"	0.0659	11.0	91.1%	"	--	--	"	
Zinc	"	99.8	---	2.20	"	"	60.5	"	358%	"	--	--	"	MHA

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Estella Rieben, Project Manager

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120285 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120285-BLK1)								Extracted: 12/09/08 09:17						
Antimony	EPA 6020	ND	---	0.495	mg/kg wet	1x	--	--	--	--	--	--	12/12/08 20:48	
Arsenic	"	ND	---	0.495	"	"	--	--	--	--	--	--	12/10/08 06:03	
Beryllium	"	ND	---	0.495	"	"	--	--	--	--	--	--	12/10/08 16:01	
Cadmium	"	ND	---	0.495	"	"	--	--	--	--	--	--	12/12/08 20:48	
Chromium	"	ND	---	0.495	"	"	--	--	--	--	--	--	12/10/08 06:03	
Copper	"	ND	---	1.98	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.495	"	"	--	--	--	--	--	--	"	
Nickel	"	ND	---	0.990	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.495	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.495	"	"	--	--	--	--	--	--	"	
Thallium	"	ND	---	0.495	"	"	--	--	--	--	--	--	12/12/08 20:48	
Zinc	"	ND	---	1.98	"	"	--	--	--	--	--	--	12/10/08 06:03	
LCS (8120285-BS1)								Extracted: 12/09/08 09:17						
Antimony	EPA 6020	3.90	---	0.476	mg/kg wet	1x	--	4.76	81.9%	(80-120)	--	--	12/12/08 20:56	
Arsenic	"	9.75	---	0.476	"	"	--	9.52	102%	"	--	--	12/10/08 06:10	
Beryllium	"	8.94	---	0.476	"	"	--	"	93.8%	"	--	--	12/10/08 16:09	
Cadmium	"	7.85	---	0.476	"	"	--	"	82.4%	"	--	--	12/12/08 20:56	
Chromium	"	9.54	---	0.476	"	"	--	"	100%	"	--	--	12/10/08 06:10	
Copper	"	9.75	---	1.90	"	"	--	"	102%	"	--	--	"	
Lead	"	8.77	---	0.476	"	"	--	"	92.0%	"	--	--	"	
Nickel	"	9.60	---	0.952	"	"	--	"	101%	"	--	--	"	
Selenium	"	9.49	---	0.476	"	"	--	"	99.6%	"	--	--	"	
Silver	"	4.95	---	0.476	"	"	--	4.76	104%	"	--	--	"	
Thallium	"	7.99	---	0.476	"	"	--	9.52	83.9%	"	--	--	12/12/08 20:56	
Zinc	"	9.48	---	1.90	"	"	--	"	99.5%	"	--	--	12/10/08 06:10	
Duplicate (8120285-DUP1)				QC Source: PRL0213-02				Extracted: 12/09/08 09:17						
Antimony	EPA 6020	ND	---	0.577	mg/kg dry	1x	ND	--	--	--	22.7%	(40)	12/12/08 21:51	
Arsenic	"	1.39	---	0.577	"	"	1.55	--	--	--	11.1%	"	12/10/08 07:05	
Beryllium	"	ND	---	2.89	"	5x	ND	--	--	--	135%	"	12/15/08 16:36	R4
Cadmium	"	ND	---	0.577	"	1x	ND	--	--	--	21.6%	"	12/12/08 21:51	
Chromium	"	18.3	---	0.577	"	"	19.4	--	--	--	5.75%	"	12/10/08 07:05	
Copper	"	26.6	---	2.31	"	"	25.8	--	--	--	3.12%	"	"	
Lead	"	34.0	---	0.577	"	"	38.0	--	--	--	11.2%	"	"	
Nickel	"	50.7	---	1.15	"	"	46.9	--	--	--	7.66%	"	"	
Selenium	"	ND	---	0.577	"	"	ND	--	--	--	27.7%	"	"	
Silver	"	ND	---	0.577	"	"	ND	--	--	--	24.9%	"	"	
Thallium	"	ND	---	0.577	"	"	ND	--	--	--	18.2%	"	12/12/08 21:51	

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Estella Rieben, Project Manager

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120285 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8120285-DUP1)					**QC Source: PRL0213-02**				**Extracted: 12/09/08 09:17**					
Zinc	EPA 6020	139	---	2.31	mg/kg dry	1x	184	--	--	--	27.6%	(40)	12/10/08 07:05	
Matrix Spike (8120285-MS1)					**QC Source: PRL0213-02**				**Extracted: 12/09/08 09:17**					
Antimony	EPA 6020	6.06	---	0.577	mg/kg dry	1x	0.355	5.77	98.7%	(70-130)	--	--	12/12/08 22:31	
Arsenic	"	12.1	---	0.577	"	"	1.55	11.5	91.7%	(75-125)	--	--	12/10/08 07:37	
Beryllium	"	11.3	---	0.577	"	"	0.316	"	95.1%	"	--	--	12/15/08 16:52	
Cadmium	"	11.7	---	0.577	"	"	0.427	"	97.7%	"	--	--	12/12/08 22:31	
Chromium	"	28.9	---	0.577	"	"	19.4	"	82.7%	"	--	--	12/10/08 07:37	
Copper	"	36.4	---	2.31	"	"	25.8	"	91.7%	"	--	--	"	
Lead	"	143	---	0.577	"	"	38.0	"	906%	"	--	--	"	MHA
Nickel	"	58.1	---	1.15	"	"	46.9	"	96.4%	"	--	--	"	
Selenium	"	10.5	---	0.577	"	"	0.0611	"	90.7%	"	--	--	"	
Silver	"	6.09	---	0.577	"	"	0.189	5.77	102%	"	--	--	"	
Thallium	"	11.0	---	0.577	"	"	0.0722	11.5	94.3%	"	--	--	12/12/08 22:31	
Zinc	"	143	---	2.31	"	"	184	"	-358%	"	--	--	12/10/08 07:37	MHA
Matrix Spike (8120285-MS2)					**QC Source: PRL0213-07**				**Extracted: 12/09/08 09:17**					
Antimony	EPA 6020	2.88	---	0.532	mg/kg dry	1x	ND	5.32	54.1%	(70-130)	--	--	12/12/08 23:17	M8
Arsenic	"	10.6	---	0.532	"	"	0.862	10.6	91.1%	(75-125)	--	--	12/10/08 08:24	
Beryllium	"	9.40	---	0.532	"	"	0.274	"	85.8%	"	--	--	12/10/08 18:28	
Cadmium	"	11.5	---	0.532	"	"	0.0826	"	108%	"	--	--	12/12/08 23:17	
Chromium	"	21.4	---	0.532	"	"	12.3	"	86.0%	"	--	--	12/10/08 08:24	
Copper	"	24.1	---	2.13	"	"	14.5	"	90.7%	"	--	--	"	
Lead	"	10.9	---	0.532	"	"	2.21	"	82.1%	"	--	--	"	
Nickel	"	41.3	---	1.06	"	"	32.3	"	85.4%	"	--	--	"	
Selenium	"	8.67	---	0.532	"	"	0.0413	"	81.2%	"	--	--	"	
Silver	"	5.18	---	0.532	"	"	0.0568	5.32	96.4%	"	--	--	"	
Thallium	"	11.1	---	0.532	"	"	0.0775	10.6	103%	"	--	--	12/12/08 23:17	
Zinc	"	31.3	---	2.13	"	"	23.0	"	77.8%	"	--	--	12/10/08 08:24	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Total Mercury per EPA Method 7471A - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120251 **Soil Preparation Method: EPA 7471A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120251-BLK1)								**Extracted: 12/08/08 09:58**						
Mercury	EPA 7471A	ND	---	0.100	mg/kg wet	1x	--	--	--	--	--	--	12/08/08 15:46	
LCS (8120251-BS1)								**Extracted: 12/08/08 09:58**						
Mercury	EPA 7471A	0.626	---	0.100	mg/kg wet	1x	--	0.625	100%	(80-120)	--	--	12/08/08 15:49	
LCS Dup (8120251-BSD1)								**Extracted: 12/08/08 09:58**						
Mercury	EPA 7471A	0.609	---	0.100	mg/kg wet	1x	--	0.625	97.4%	(80-120)	2.81%	(20)	12/08/08 15:53	
Duplicate (8120251-DUP1)				**QC Source: PRL0213-01**				**Extracted: 12/08/08 09:58**						
Mercury	EPA 7471A	ND	---	0.102	mg/kg dry	1x	ND	--	--	--	NR	(40)	12/08/08 15:57	
Matrix Spike (8120251-MS1)				**QC Source: PRL0213-01**				**Extracted: 12/08/08 09:58**						
Mercury	EPA 7471A	0.656	---	0.0968	mg/kg dry	1x	ND	0.605	108%	(75-125)	--	--	12/08/08 15:59	
Matrix Spike Dup (8120251-MSD1)				**QC Source: PRL0213-01**				**Extracted: 12/08/08 09:58**						
Mercury	EPA 7471A	0.632	---	0.0966	mg/kg dry	1x	ND	0.604	105%	(75-125)	3.68%	(40)	12/08/08 16:03	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Polychlorinated Biphenyls per EPA Method 8082 - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120281 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120281-BLK1)								**Extracted: 12/09/08 15:55**						
Aroclor 1016	EPA 8082	ND	---	32.9	ug/kg wet	1x	--	--	--	--	--	--	12/11/08 18:22	
Aroclor 1221	"	ND	---	66.3	"	"	--	--	--	--	--	--	"	
Aroclor 1232	"	ND	---	32.9	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	32.9	"	"	--	--	--	--	--	--	"	
Aroclor 1248	"	ND	---	32.9	"	"	--	--	--	--	--	--	"	
Aroclor 1254	"	ND	---	32.9	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	32.9	"	"	--	--	--	--	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 90.8%*			*Limits: 16-149%*	*"*							*12/11/08 18:22*	
LCS (8120281-BS1)								**Extracted: 12/09/08 15:55**						
Aroclor 1016	EPA 8082	291	---	32.9	ug/kg wet	1x	--	329	88.5%	(57-135)	--	--	12/11/08 18:45	
Aroclor 1260	"	303	---	32.9	"	"	--	"	92.2%	(60-135)	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 89.6%*			*Limits: 16-149%*	*"*							*12/11/08 18:45*	
Matrix Spike (8120281-MS1)					**QC Source: PRL0090-01**			**Extracted: 12/09/08 15:55**						
Aroclor 1016	EPA 8082	379	---	42.6	ug/kg dry	1x	ND	426	88.9%	(37-145)	--	--	12/11/08 17:37	
Aroclor 1260	"	450	---	42.6	"	"	ND	"	106%	(25-144)	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 93.1%*			*Limits: 16-149%*	*"*							*12/11/08 17:37*	
Matrix Spike Dup (8120281-MSD1)					**QC Source: PRL0090-01**			**Extracted: 12/09/08 15:55**						
Aroclor 1016	EPA 8082	346	---	42.6	ug/kg dry	1x	ND	427	81.2%	(37-145)	9.00%	(26)	12/11/08 17:59	
Aroclor 1260	"	439	---	42.6	"	"	ND	"	103%	(25-144)	2.53%	(30)	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 82.8%*			*Limits: 16-149%*	*"*							*12/11/08 17:59*	

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Estella K Rieben

Estella Rieben, Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120284 **Soil Preparation Method: EPA 5035A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120284-BLK1)								**Extracted: 12/09/08 09:00**						
Acetone	EPA 8260B	ND	---	2500	ug/kg wet	1x	--	--	--	--	--	--	12/09/08 13:28	
Benzene	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	499	"	"	--	--	--	--	--	--	"	
2-Butanone (MEK)	"	ND	---	998	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	499	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	998	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	499	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	499	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	499	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120284 **Soil Preparation Method: EPA 5035A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120284-BLK1)								**Extracted: 12/09/08 09:00**						
Hexachlorobutadiene	EPA 8260B	ND	---	399	ug/kg wet	1x	--	--	--	--	--	--	12/09/08 13:28	
2-Hexanone	"	ND	---	998	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	200	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	200	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	499	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	499	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	200	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	200	"	"	--	--	--	--	--	--	"	

Surrogate(s):	*4-BFB*	*Recovery:*	*93.0%*	*Limits:*	*75-125%*	*" 12/09/08 13:28*
	1,2-DCA-d4		*98.9%*		*75-125%*	*"*
	Dibromofluoromethane		*95.8%*		*75-125%*	*"*
	Toluene-d8		*97.2%*		*75-125%*	*"*

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120284 **Soil Preparation Method: EPA 5035A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (8120284-BS1)								**Extracted: 12/09/08 09:00**						
Benzene	EPA 8260B	1810	---	19.9	ug/kg wet	1x	--	1990	91.2%	(81.9-125)	--	--	12/09/08 10:25	
Chlorobenzene	"	1900	---	99.5	"	"	--	"	95.3%	(79.2-125)	--	--	"	
1,1-Dichloroethene	"	1720	---	99.5	"	"	--	"	86.2%	(66.1-125)	--	--	"	
Toluene	"	1860	---	99.5	"	"	--	"	93.5%	(80-125)	--	--	"	
Trichloroethene	"	1860	---	99.5	"	"	--	"	93.5%	(76-125)	--	--	"	
Surrogate(s): 4-BFB		*Recovery: 97.6%*			*Limits: 75-125%*	"							*12/09/08 10:25*	
1,2-DCA-d4		*93.8%*			*75-125%*	"							"	
Dibromofluoromethane		*96.7%*			*75-125%*	"							"	
Toluene-d8		*97.4%*			*75-125%*	"							"	
Matrix Spike (8120284-MS1)					**QC Source: PRL0267-01**			**Extracted: 12/09/08 10:30**						
Benzene	EPA 8260B	2900	---	32.3	ug/kg dry	1x	ND	3230	90.0%	(68.5-125)	--	--	12/09/08 12:01	
Chlorobenzene	"	3060	---	161	"	"	ND	"	95.0%	(65.9-125)	--	--	"	
1,1-Dichloroethene	"	2860	---	161	"	"	ND	"	88.6%	(55.8-125)	--	--	"	
Toluene	"	3020	---	161	"	"	ND	"	93.6%	(70.3-125)	--	--	"	
Trichloroethene	"	2980	---	161	"	"	ND	"	92.3%	(65.5-125)	--	--	"	
Surrogate(s): 4-BFB		*Recovery: 98.6%*			*Limits: 75-125%*	"							*12/09/08 12:01*	
1,2-DCA-d4		*96.2%*			*75-125%*	"							"	
Dibromofluoromethane		*99.5%*			*75-125%*	"							"	
Toluene-d8		*99.6%*			*75-125%*	"							"	
Matrix Spike Dup (8120284-MSD1)					**QC Source: PRL0267-01**			**Extracted: 12/09/08 10:30**						
Benzene	EPA 8260B	2930	---	32.3	ug/kg dry	1x	ND	3230	90.9%	(68.5-125)	0.939%	(25)	12/09/08 12:30	
Chlorobenzene	"	3100	---	161	"	"	ND	"	96.2%	(65.9-125)	1.31%	"	"	
1,1-Dichloroethene	"	2950	---	161	"	"	ND	"	91.5%	(55.8-125)	3.22%	"	"	
Toluene	"	3090	---	161	"	"	ND	"	95.8%	(70.3-125)	2.38%	"	"	
Trichloroethene	"	2950	---	161	"	"	ND	"	91.5%	(65.5-125)	0.816%	"	"	
Surrogate(s): 4-BFB		*Recovery: 98.1%*			*Limits: 75-125%*	"							*12/09/08 12:30*	
1,2-DCA-d4		*96.2%*			*75-125%*	"							"	
Dibromofluoromethane		*97.7%*			*75-125%*	"							"	
Toluene-d8		*98.1%*			*75-125%*	"							"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120250 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120250-BLK1)								**Extracted: 12/08/08 14:45**						
Benzo (e) pyrene	EPA 8270m	ND	---	13.3	ug/kg wet	1x	--	--	--	--	--	--	12/09/08 17:30	ID5
Acenaphthene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Acenaphthylene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	ID4
Chrysene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Surrogate(s): Fluorene-d10		*Recovery: 47.3%*			*Limits: 24-125%*	"							*12/09/08 17:30*	
Pyrene-d10		*76.6%*			*41-141%*	"							"	
Benzo (a) pyrene-d12		*76.1%*			*38-143%*	"							"	
LCS (8120250-BS1)								**Extracted: 12/08/08 14:45**						
Acenaphthene	EPA 8270m	161	---	13.4	ug/kg wet	1x	--	166	97.1%	(33-139)	--	--	12/09/08 17:59	
Benzo (a) pyrene	"	148	---	13.4	"	"	--	"	89.2%	(45-149)	--	--	"	
Pyrene	"	159	---	13.4	"	"	--	"	95.7%	(39-138)	--	--	"	
Surrogate(s): Fluorene-d10		*Recovery: 61.9%*			*Limits: 24-125%*	"							*12/09/08 17:59*	
Pyrene-d10		*83.1%*			*41-141%*	"							"	
Benzo (a) pyrene-d12		*84.9%*			*38-143%*	"							"	

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Polynuclear Aromatic Compounds per EPA 8270M-SIM - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120250 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (8120250-MS1)					QC Source: PRL0016-13				Extracted: 12/08/08 14:45					
Acenaphthene	EPA 8270m	184	---	161	ug/kg dry	10x	ND	200	91.8%	(33-139)	--	--	12/09/08 18:28	
Benzo (a) pyrene	"	221	---	161	"	"	82.4	"	69.3%	(45-149)	--	--	"	
Pyrene	"	266	---	161	"	"	124	"	70.8%	(39-138)	--	--	"	
Surrogate(s):	*Fluorene-d10*	*Recovery:*	*76.6%*		*Limits:*	*24-125%*	"						*12/09/08 18:28*	
	Pyrene-d10		*71.2%*			*41-141%*	"						"	
	Benzo (a) pyrene-d12		*72.6%*			*38-143%*	"						"	
Matrix Spike Dup (8120250-MSD1)					QC Source: PRL0016-13				Extracted: 12/08/08 14:45					
Acenaphthene	EPA 8270m	181	---	160	ug/kg dry	10x	ND	199	91.0%	(33-139)	1.44%	(60)	12/09/08 18:57	
Benzo (a) pyrene	"	214	---	160	"	"	82.4	"	66.1%	(45-149)	3.29%	"	"	
Pyrene	"	275	---	160	"	"	124	"	75.6%	(39-138)	3.27%	"	"	
Surrogate(s):	*Fluorene-d10*	*Recovery:*	*68.1%*		*Limits:*	*24-125%*	"						*12/09/08 18:57*	
	Pyrene-d10		*74.8%*			*41-141%*	"						"	
	Benzo (a) pyrene-d12		*73.9%*			*38-143%*	"						"	

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Percent Dry Weight (Solids) per Standard Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120277 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8120277-DUP1)					**QC Source: PRL0213-01**				**Extracted: 12/08/08 18:22**					
% Solids	NCA SOP	96.5	---	0.0100	% by Weight	1x	97.2	--	--	--	0.723%	(20)	12/08/08 18:22	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Organic Carbon, Total (TOC) - Laboratory Quality Control Results

TestAmerica Tacoma

QC Batch: 39039 **Soil Preparation Method: NA**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (580-39039-1)				**QC Source:**				**Extracted: 12/10/08 16:29**						
Total Organic Carbon	9060	ND	---	2000	mg/Kg	1x	--	--	--	--	--	--	12/10/08 16:29	
LCS (580-39039-2)				**QC Source:**				**Extracted: 12/10/08 16:29**						
Total Organic Carbon	9060	5800	---	2000	mg/Kg	1x	--	3400	171%	(13-187)	--	--	12/10/08 16:29	
Duplicate (580-39039-5)				**QC Source: 580-39039-3**				**Extracted: 12/10/08 16:29**						
Total Organic Carbon	9060	51600	---	2000	mg/Kg	1x	52000	--	--	--	2%	(20)	12/10/08 16:29	
Matrix Spike (580-39039-6)				**QC Source: 580-39039-3**				**Extracted: 12/10/08 16:29**						
Total Organic Carbon	9060	69200	---	2000	mg/Kg	1x	52000	20000	84%	(76-128)	--	--	12/10/08 16:29	

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Estella K Rieben

Estella Rieben, Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Organic Carbon, Total (TOC) - Laboratory Quality Control Results

TestAmerica Tacoma

QC Batch: 39668 **Soil Preparation Method: NA**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (123601D)				**QC Source: PRL0213-10**				**Extracted: 01/06/09 15:23**						
Total Organic Carbon	9060 STD	32400	---	2000	mg/Kg	1x	18000	14700	100%	(76-128)	8%	(28)	01/06/09 15:23	
Matrix Spike (123601S)				**QC Source: PRL0213-10**				**Extracted: 01/06/09 15:23**						
Total Organic Carbon	9060 STD	35100	---	2000	mg/Kg	1x	18000	16500	105%	(76-128)	--	--	01/06/09 15:23	
Duplicate (123601X)				**QC Source: PRL0213-10**				**Extracted: 01/06/09 15:22**						
Total Organic Carbon	9060 STD	21000	---	2000	mg/Kg	1x	18000	--	--	--	16%	(20)	01/06/09 15:22	
Duplicate (123601Xa)				**QC Source: PRL0213-10**				**Extracted: 01/06/09 15:22**						
Total Organic Carbon	9060 STD	18600	---	2000	mg/Kg	1x	18000	--	--	--	4%	(20)	01/06/09 15:22	
Blank (580-39668-1)				**QC Source:**				**Extracted: 01/06/09 15:22**						
Total Organic Carbon	9060 STD	ND	---	2000	mg/Kg	1x	--	--	--	--	--	--	01/06/09 15:22	
LCS (580-39668-2)				**QC Source:**				**Extracted: 01/06/09 15:22**						
Total Organic Carbon	9060 STD	5100	---	2000	mg/Kg	1x	--	3400	150%	(13-187)	--	--	01/06/09 15:22	

TestAmerica Portland

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	01/07/09 16:44

Notes and Definitions

Report Specific Notes:

H	-	Sample was prepped or analyzed beyond the specified holding time
ID4	-	Benzo(j)fluoranthene coelutes with Benzo(k)fluoranthene. The reported result is a summation of the isomers and the concentration is based on the response factor of Benzo(k)fluoranthene.
ID5	-	Benzo(e)pyrene concentration is based on the response factor of Benzo(a)pyrene, and has not been calibrated independently.
M7	-	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
M8	-	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
MHA	-	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
Q13	-	Detected hydrocarbons do not have pattern and range consistent with typical petroleum products and may be due to biogenic interference.
Q6	-	Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
R2	-	The RPD exceeded the acceptance limit.
R4	-	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
RL1	-	Reporting limit raised due to sample matrix effects.
RL7	-	Sample required dilution due to high concentrations of target analyte.

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Portland

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Estella Rieben, Project Manager

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11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave.Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210 X
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: PR10213

CLIENT: PBS Engineering + Environmental

REPORT TO: Toby Scott
ADDRESS: 390 NE Emerson Avenue
Bend OR 97702
PHONE: 541.388.9290 FAX: 541.382.5116

INVOICE TO: PBS-BEND

P.O. NUMBER:

PROJECT NAME: DSL
PROJECT NUMBER: 80416.000 Phase 2
SAMPLED BY: DoAnn Hamilton

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: ~~10~~ STD. | 7 | 5 | 4 | 3 | 2 | 1 | <1

Petroleum Hydrocarbon Analyses: ~~5~~ STD. | 4 | 3 | 2 | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE / REQUESTED ANALYSES

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	TPH - HCID	EPA Priority Metals (13)	EPA 8270M PAH	VOC EPA 8260B	PCB EPA 8082	TOC EPA 415.1	ORGANICS PQL EPA 8011A		HOLD					MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 TP-8 / S-1	12-2-08 / 758	X	X															
2 TP-8 / S-2	830	X	X	X	X	X	X	X										
3 TP-9 / S-1	907	X	X															
4 TP-10 / S-1	1207	X	X															
5 TP-11A / S-2	1310	X	X															
6 TP-12A / S-2	1347	X	X	X	X	X	X	X										
7 TP-13 / S-1	1410	X	X															
8 TP-14 / S-1	1430	X	X															
9 TP-15 / S-1	1553	X	X	X	X	X	X											
10 TP-14 / S-2	1552	X	X															

RELEASED BY:		DATE: 12/4/08	RECEIVED BY: Marianne Eilly		DATE: 12/5/08
PRINT NAME: Toby Scott	FIRM: PBS	TIME: 1530	PRINT NAME:	FIRM: TAP	TIME: 0730
RELEASED BY:		DATE:	RECEIVED BY:		DATE:
PRINT NAME:	FIRM:	TIME:	PRINT NAME:	FIRM:	TIME:

ADDITIONAL REMARKS:

TEMP: 5.0 C

PAGE OF

TAL-1000(0408)

TestAmerica Sample Receipt Checklist

Cooler ID(s):

Received by: *(section A)*
Date: 12/5/08
Time: 0930
Initials: BE

Unpacked by: *(section B)*
Date: 12/5/08
Initials: BE

Logged-in by:
Date: 12/5/08
Initials: [illegible]

Work Order No.: PR10213
Client: PBS Bend
Project: DSL

Temperature out of range:
___Not enough Ice
___No Ice
___Ice Melted
___W/in 4 Hours
___Other:_____

***ESI Clients *(see Section C)*

Digi #1
Digi #2

Cooler Temperature (IR): 5.0 °C plastic glass NA *(oil/air samples, ESI client)*

Temperature Blank: _____ °C

A

Custody Seals: (#____)

Signature: Y N Dated:_____
X None

Container Type:
X #Cooler(s)
___#Box(s)
___None (___#Other:_____)

Coolant Type:
___Gel Ice
X Loose Ice
___None

Packing Material:
X Bubble Bags
___Styrofoam Cubbies
___Peanuts
___None (___Other:_____)

Received from:
___TA Courier
___Senvoy
___UPS
X Fed Ex
___Client
___TDP
___DHL
___SDS
___Mid-Valley
___GS/TA
___GS/Senvoy
___Other:
_____

B

Sample Status:
(If N circled, see NOD)

General:

Intact?	Y	N	
# Containers Match COC?	Y	N	none given
IDs Match COC?	Y	N	

For Analyses Requested:

Cyanide Checked?	Y	N	NA
Correct Type & Preservation?	Y	N	
Adequate Volume?	Y	N	
Within Hold Time?	Y	N	

Volatiles/ Oil Quality:

VOAs/ Syringes free of Headspace?	Y	N	NA
TB on COC? not provided	Y	N	NA

Metals:

HNO3 Preserved?	Y	N	NA
Dissolved Metals Filtered?	Y	N	NA

C

***ESI Clients Only:

Temperature Blank: _____ °C not provided Digi: # 1 #2

All preserved bottles checked Y N NA *(voas/soils/all unp.)*
All preserved accordingly? Y N *(see NOD)* NA *(voas/soils/all unp.)*

FED EX/ UPS: Was the tracking paper keepable? YES NO

If circled NO, what is the Tracking number? _____

FED EX Goldstreak UPS DHL Other: _____

Project Managers:

Comments:_____

*PM Reviewed:*_____ *(Initial/Date)*

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
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ORELAP#: OR100021

December 31, 2008

Toby Scott
PBS Engineering - Bend
390 NE Emerson Ave Suite C
Bend, OR 97701

RE: DSL

Enclosed are the results of analyses for samples received by the laboratory on 12/05/08 09:30. The following list is a summary of the Work Orders contained in this report, generated on 12/31/08 16:39.

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

Work Order	Project	ProjectNumber
PRL0215	DSL	80416

TestAmerica Portland

Christina Woodcock For Estella Rieben, Project Manager

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BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-1A/S-1	PRL0215-01	Soil	12/01/08 09:21	12/05/08 09:30
TP-1A/S-2	PRL0215-02	Soil	12/01/08 10:07	12/05/08 09:30
TP-2/S-1	PRL0215-03	Soil	12/01/08 11:00	12/05/08 09:30
TP-2/S-2	PRL0215-04	Soil	12/01/08 11:35	12/05/08 09:30
TP-3/S-1	PRL0215-05	Soil	12/01/08 12:00	12/05/08 09:30
TP-4A/S-2	PRL0215-07	Soil	12/01/08 14:00	12/05/08 09:30
TP-5/S-1	PRL0215-08	Soil	12/01/08 14:20	12/05/08 09:30

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Christina M. Woodcock

Christina Woodcock For Estella Rieben, Project Manager

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Hydrocarbon Identification per NW-TPH Methodology

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0215-01 (TP-1A/S-1)			**Soil**			**Sampled: 12/01/08 09:21**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	-----	21.4	mg/kg dry	1x	8120244	12/08/08 11:15	12/09/08 08:26	
Diesel Range Hydrocarbons	"	ND	-----	53.4	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	**DET**	-----	107	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*111%*		*50 - 150 %*	"			"
PRL0215-02 (TP-1A/S-2)			**Soil**			**Sampled: 12/01/08 10:07**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	-----	27.7	mg/kg dry	1x	8120244	12/08/08 11:15	12/09/08 08:58	
Diesel Range Hydrocarbons	"	**DET**	-----	69.2	"	"	"	"	"	**Q13**
Heavy Oil Range Hydrocarbons	"	**DET**	-----	138	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*106%*		*50 - 150 %*	"			"
PRL0215-03 (TP-2/S-1)			**Soil**			**Sampled: 12/01/08 11:00**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	-----	23.9	mg/kg dry	1x	8120244	12/08/08 11:15	12/09/08 09:30	
Diesel Range Hydrocarbons	"	**DET**	-----	59.8	"	"	"	"	"	**Q6**
Heavy Oil Range Hydrocarbons	"	**DET**	-----	120	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*125%*		*50 - 150 %*	"			"
PRL0215-04 (TP-2/S-2)			**Soil**			**Sampled: 12/01/08 11:35**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	-----	21.6	mg/kg dry	1x	8120244	12/08/08 11:15	12/09/08 15:25	
Diesel Range Hydrocarbons	"	ND	-----	54.0	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	-----	108	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*106%*		*50 - 150 %*	"			"
PRL0215-05 (TP-3/S-1)			**Soil**			**Sampled: 12/01/08 12:00**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	-----	20.6	mg/kg dry	1x	8120244	12/08/08 11:15	12/09/08 10:35	
Diesel Range Hydrocarbons	"	ND	-----	51.4	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	**DET**	-----	103	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*120%*		*50 - 150 %*	"			"
PRL0215-07 (TP-4A/S-2)			**Soil**			**Sampled: 12/01/08 14:00**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	-----	21.9	mg/kg dry	1x	8120244	12/08/08 11:15	12/09/08 12:45	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Hydrocarbon Identification per NW-TPH Methodology

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0215-07 (TP-4A/S-2)			**Soil**			**Sampled: 12/01/08 14:00**				
Diesel Range Hydrocarbons	NWTPH HCID	ND	----	54.9	mg/kg dry	1x	8120244	12/08/08 11:15	12/09/08 12:45	
Heavy Oil Range Hydrocarbons	"	ND	----	110	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*101%*		*50 - 150 %*	"			"
PRL0215-08 (TP-5/S-1)			**Soil**			**Sampled: 12/01/08 14:20**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	20.7	mg/kg dry	1x	8120244	12/08/08 11:15	12/09/08 13:17	
Diesel Range Hydrocarbons	"	ND	----	51.8	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	104	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*103%*		*50 - 150 %*	"			"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0215-01 (TP-1A/S-1)			**Soil**			**Sampled: 12/01/08 09:21**				
Diesel Range Organics	NWTPH-Dx	**25.5**	-----	13.9	mg/kg dry	1x	8120425	12/12/08 12:40	12/12/08 20:43	**Q6**
Heavy Oil Range Hydrocarbons	"	**95.2**	-----	27.9	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*81.3%*		*50 - 150 %*	"			"
PRL0215-02 (TP-1A/S-2)			**Soil**			**Sampled: 12/01/08 10:07**				
Diesel Range Organics	NWTPH-Dx	**70.0**	-----	17.6	mg/kg dry	1x	8120425	12/12/08 12:40	12/12/08 21:01	**Q13**
Heavy Oil Range Hydrocarbons	"	**167**	-----	35.3	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*86.5%*		*50 - 150 %*	"			"
PRL0215-03 (TP-2/S-1)			**Soil**			**Sampled: 12/01/08 11:00**				
Diesel Range Organics	NWTPH-Dx	**281**	-----	15.1	mg/kg dry	1x	8120425	12/12/08 12:40	12/12/08 21:20	**Q6**
Heavy Oil Range Hydrocarbons	"	**1090**	-----	30.2	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*58.1%*		*50 - 150 %*	"			"
PRL0215-05 (TP-3/S-1)			**Soil**			**Sampled: 12/01/08 12:00**				
Diesel Range Organics	NWTPH-Dx	**14.3**	-----	13.3	mg/kg dry	1x	8120425	12/12/08 12:40	12/13/08 13:05	**Q6**
Heavy Oil Range Hydrocarbons	"	**78.6**	-----	26.6	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*50.0%*		*50 - 150 %*	"			"

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Christina Woodcock For Estella Rieben, Project Manager

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0215-01 (TP-1A/S-1)			**Soil**			**Sampled: 12/01/08 09:21**				
Antimony	EPA 6020	ND	-----	0.534	mg/kg dry	1x	8120285	12/09/08 09:17	12/13/08 00:44	
Arsenic	"	ND	-----	0.534	"	"	"	"	12/10/08 09:10	
Beryllium	"	ND	-----	0.534	"	"	"	"	12/10/08 19:15	
Cadmium	"	ND	-----	0.534	"	"	"	"	12/13/08 00:44	
Chromium	"	**9.04**	-----	0.534	"	"	"	"	12/10/08 09:10	
Copper	"	**14.1**	-----	2.14	"	"	"	"	"	
Lead	"	**2.58**	-----	0.534	"	"	"	"	"	
Nickel	"	**36.5**	-----	1.07	"	"	"	"	"	
Selenium	"	ND	-----	0.534	"	"	"	"	"	
Silver	"	ND	-----	0.534	"	"	"	"	"	
Thallium	"	ND	-----	0.534	"	"	"	"	12/13/08 00:44	
Zinc	"	**36.9**	-----	2.14	"	"	"	"	12/10/08 09:10	
PRL0215-02 (TP-1A/S-2)			**Soil**			**Sampled: 12/01/08 10:07**				
Antimony	EPA 6020	ND	-----	3.46	mg/kg dry	5x	8120285	12/09/08 09:17	12/13/08 00:52	
Arsenic	"	**2.22**	-----	0.692	"	1x	"	"	12/10/08 09:18	
Beryllium	"	ND	-----	3.46	"	5x	"	"	12/10/08 19:23	
Cadmium	"	ND	-----	3.46	"	"	"	"	12/13/08 00:52	
Chromium	"	**30.1**	-----	0.692	"	1x	"	"	12/10/08 09:18	
Copper	"	**43.6**	-----	2.77	"	"	"	"	"	
Lead	"	**41.7**	-----	0.692	"	"	"	"	"	
Nickel	"	**63.3**	-----	1.38	"	"	"	"	"	
Selenium	"	ND	-----	0.692	"	"	"	"	"	
Silver	"	ND	-----	0.692	"	"	"	"	"	
Thallium	"	ND	-----	3.46	"	5x	"	"	12/13/08 00:52	
Zinc	"	**766**	-----	13.8	"	"	"	"	12/10/08 19:23	
PRL0215-03 (TP-2/S-1)			**Soil**			**Sampled: 12/01/08 11:00**				
Antimony	EPA 6020	ND	-----	0.606	mg/kg dry	1x	8120285	12/09/08 09:17	12/13/08 01:00	
Arsenic	"	**2.02**	-----	0.606	"	"	"	"	12/10/08 09:26	
Beryllium	"	ND	-----	0.606	"	"	"	"	12/10/08 19:31	
Cadmium	"	ND	-----	0.606	"	"	"	"	12/13/08 01:00	
Chromium	"	**28.6**	-----	0.606	"	"	"	"	12/10/08 09:26	
Copper	"	**53.5**	-----	2.42	"	"	"	"	"	
Lead	"	**14.5**	-----	0.606	"	"	"	"	"	
Nickel	"	**61.4**	-----	1.21	"	"	"	"	"	

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0215-03 (TP-2/S-1)			**Soil**			**Sampled: 12/01/08 11:00**				
Selenium	EPA 6020	ND	-----	0.606	mg/kg dry	1x	8120285	12/09/08 09:17	12/10/08 09:26	
Silver	"	ND	-----	0.606	"	"	"	"	"	
Thallium	"	ND	-----	0.606	"	"	"	"	12/13/08 01:00	
Zinc	"	**101**	-----	2.42	"	"	"	"	12/10/08 09:26	
PRL0215-04 (TP-2/S-2)			**Soil**			**Sampled: 12/01/08 11:35**				
Antimony	EPA 6020	ND	-----	0.533	mg/kg dry	1x	8120285	12/09/08 09:17	12/13/08 01:08	
Arsenic	"	**0.607**	-----	0.533	"	"	"	"	12/10/08 09:34	
Beryllium	"	ND	-----	0.533	"	"	"	"	12/10/08 19:39	
Cadmium	"	ND	-----	0.533	"	"	"	"	12/13/08 01:08	
Chromium	"	**10.5**	-----	0.533	"	"	"	"	12/10/08 09:34	
Copper	"	**12.8**	-----	2.13	"	"	"	"	"	
Lead	"	**1.67**	-----	0.533	"	"	"	"	"	
Nickel	"	**37.5**	-----	1.07	"	"	"	"	"	
Selenium	"	ND	-----	0.533	"	"	"	"	"	
Silver	"	ND	-----	0.533	"	"	"	"	"	
Thallium	"	ND	-----	0.533	"	"	"	"	12/13/08 01:08	
Zinc	"	**18.9**	-----	2.13	"	"	"	"	12/10/08 09:34	
PRL0215-05 (TP-3/S-1)			**Soil**			**Sampled: 12/01/08 12:00**				
Antimony	EPA 6020	ND	-----	0.503	mg/kg dry	1x	8120346	12/10/08 10:27	12/14/08 09:07	
Arsenic	"	**2.32**	-----	0.503	"	"	"	"	12/15/08 23:38	
Beryllium	"	ND	-----	0.503	"	"	"	"	12/18/08 05:38	
Cadmium	"	ND	-----	0.503	"	"	"	"	12/14/08 09:07	
Chromium	"	**14.9**	-----	0.503	"	"	"	"	"	
Copper	"	**28.6**	-----	2.01	"	"	"	"	"	
Lead	"	**37.4**	-----	0.503	"	"	"	"	"	
Nickel	"	**35.2**	-----	1.01	"	"	"	"	"	
Selenium	"	ND	-----	0.503	"	"	"	"	"	
Silver	"	ND	-----	0.503	"	"	"	"	"	
Thallium	"	ND	-----	0.503	"	"	"	"	12/18/08 05:38	
Zinc	"	**104**	-----	2.01	"	"	"	"	12/14/08 09:07	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0215-07 (TP-4A/S-2)			**Soil**			**Sampled: 12/01/08 14:00**				
Antimony	EPA 6020	ND	-----	0.547	mg/kg dry	1x	8120346	12/10/08 10:27	12/14/08 09:38	
Arsenic	"	**1.41**	-----	0.547	"	"	"	"	12/16/08 00:09	
Beryllium	"	ND	-----	0.547	"	"	"	"	12/18/08 06:09	
Cadmium	"	ND	-----	0.547	"	"	"	"	12/14/08 09:38	
Chromium	"	**20.0**	-----	0.547	"	"	"	"	"	
Copper	"	**26.0**	-----	2.19	"	"	"	"	"	
Lead	"	**6.33**	-----	0.547	"	"	"	"	"	
Nickel	"	**53.4**	-----	1.09	"	"	"	"	"	
Selenium	"	ND	-----	0.547	"	"	"	"	"	
Silver	"	ND	-----	0.547	"	"	"	"	"	
Thallium	"	ND	-----	0.547	"	"	"	"	12/18/08 06:09	
Zinc	"	**50.5**	-----	2.19	"	"	"	"	12/14/08 09:38	
PRL0215-08 (TP-5/S-1)			**Soil**			**Sampled: 12/01/08 14:20**				
Antimony	EPA 6020	ND	-----	0.517	mg/kg dry	1x	8120346	12/10/08 10:27	12/14/08 09:46	
Arsenic	"	**3.22**	-----	0.517	"	"	"	"	12/16/08 00:17	
Beryllium	"	ND	-----	0.517	"	"	"	"	12/18/08 06:17	
Cadmium	"	ND	-----	0.517	"	"	"	"	12/14/08 09:46	
Chromium	"	**18.7**	-----	0.517	"	"	"	"	"	
Copper	"	**30.5**	-----	2.07	"	"	"	"	"	
Lead	"	**15.4**	-----	0.517	"	"	"	"	"	
Nickel	"	**49.5**	-----	1.03	"	"	"	"	"	
Selenium	"	ND	-----	0.517	"	"	"	"	"	
Silver	"	ND	-----	0.517	"	"	"	"	"	
Thallium	"	ND	-----	0.517	"	"	"	"	12/18/08 06:17	
Zinc	"	**66.7**	-----	2.07	"	"	"	"	12/14/08 09:46	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Total Mercury per EPA Method 7471A

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0215-01 (TP-1A/S-1)			**Soil**			**Sampled: 12/01/08 09:21**				
Mercury	EPA 7471A	ND	----	0.0845	mg/kg dry	1x	8120251	12/08/08 09:58	12/08/08 16:37	
PRL0215-02 (TP-1A/S-2)			**Soil**			**Sampled: 12/01/08 10:07**				
Mercury	EPA 7471A	ND	----	0.115	mg/kg dry	1x	8120251	12/08/08 09:58	12/08/08 16:39	
PRL0215-03 (TP-2/S-1)			**Soil**			**Sampled: 12/01/08 11:00**				
Mercury	EPA 7471A	ND	----	0.105	mg/kg dry	1x	8120251	12/08/08 09:58	12/08/08 16:42	
PRL0215-04 (TP-2/S-2)			**Soil**			**Sampled: 12/01/08 11:35**				
Mercury	EPA 7471A	ND	----	0.0881	mg/kg dry	1x	8120251	12/08/08 09:58	12/08/08 16:44	
PRL0215-05 (TP-3/S-1)			**Soil**			**Sampled: 12/01/08 12:00**				
Mercury	EPA 7471A	ND	----	0.0610	mg/kg dry	1x	8120251	12/08/08 09:58	12/08/08 16:53	
PRL0215-07 (TP-4A/S-2)			**Soil**			**Sampled: 12/01/08 14:00**				
Mercury	EPA 7471A	ND	----	0.0946	mg/kg dry	1x	8120251	12/08/08 09:58	12/08/08 16:55	
PRL0215-08 (TP-5/S-1)			**Soil**			**Sampled: 12/01/08 14:20**				
Mercury	EPA 7471A	ND	----	0.0847	mg/kg dry	1x	8120251	12/08/08 09:58	12/08/08 16:58	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Organochlorine Pesticides per EPA Method 8081A

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0215-04 (TP-2/S-2)			**Soil**			**Sampled: 12/01/08 11:35**				
Aldrin	EPA 8081A	ND	----	7.47	ug/kg dry	1x	8120274	12/08/08 17:55	12/10/08 17:40	
alpha-BHC	"	ND	----	7.47	"	"	"	"	"	
beta-BHC	"	ND	----	7.47	"	"	"	"	"	
delta-BHC	"	ND	----	7.47	"	"	"	"	"	
gamma-BHC (Lindane)	"	ND	----	7.47	"	"	"	"	"	
gamma-Chlordane	"	ND	----	7.47	"	"	"	"	"	
alpha-Chlordane	"	ND	----	7.47	"	"	"	"	"	
Chlordane (tech)	"	ND	----	167	"	"	"	"	"	
4,4´-DDD	"	ND	----	7.47	"	"	"	"	"	
4,4´-DDE	"	ND	----	7.47	"	"	"	"	"	
4,4´-DDT	"	ND	----	7.47	"	"	"	"	"	
Dieldrin	"	ND	----	7.47	"	"	"	"	"	
Endosulfan I	"	ND	----	7.47	"	"	"	"	"	
Endosulfan II	"	ND	----	7.47	"	"	"	"	"	
Endosulfan sulfate	"	ND	----	7.47	"	"	"	"	"	
Endrin	"	ND	----	7.47	"	"	"	"	"	
Endrin aldehyde	"	ND	----	7.47	"	"	"	"	"	
Endrin ketone	"	ND	----	7.47	"	"	"	"	"	
Heptachlor	"	ND	----	7.47	"	"	"	"	"	
Heptachlor epoxide	"	ND	----	7.47	"	"	"	"	"	
Methoxychlor	"	ND	----	7.47	"	"	"	"	"	
Toxaphene	"	ND	----	223	"	"	"	"	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene				*97.7%*		*36 - 140 %*	"			"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Polychlorinated Biphenyls per EPA Method 8082

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0215-04 (TP-2/S-2)			**Soil**			**Sampled: 12/01/08 11:35**				
Aroclor 1016	EPA 8082	ND	----	37.0	ug/kg dry	1x	8120281	12/09/08 15:55	12/10/08 22:24	
Aroclor 1221	"	ND	----	74.3	"	"	"	"	"	
Aroclor 1232	"	ND	----	37.0	"	"	"	"	"	
Aroclor 1242	"	ND	----	37.0	"	"	"	"	"	
Aroclor 1248	"	ND	----	37.0	"	"	"	"	"	
Aroclor 1254	"	ND	----	37.0	"	"	"	"	"	
Aroclor 1260	"	ND	----	37.0	"	"	"	"	"	
Surrogate(s): Decachlorobiphenyl				*77.5%*		*16 - 149 %*	"			"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Volatile Organic Compounds per EPA Method 8260B

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0215-04 (TP-2/S-2)			**Soil**			**Sampled: 12/01/08 11:35**				
Acetone	EPA 8260B	ND	----	2750	ug/kg dry	1x	8120284	12/09/08 10:30	12/09/08 19:48	
Benzene	"	ND	----	22.0	"	"	"	"	"	
Bromobenzene	"	ND	----	110	"	"	"	"	"	
Bromochloromethane	"	ND	----	110	"	"	"	"	"	
Bromodichloromethane	"	ND	----	110	"	"	"	"	"	
Bromoform	"	ND	----	110	"	"	"	"	"	
Bromomethane	"	ND	----	550	"	"	"	"	"	
2-Butanone (MEK)	"	ND	----	1100	"	"	"	"	"	
n-Butylbenzene	"	ND	----	550	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	110	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	110	"	"	"	"	"	
Carbon disulfide	"	ND	----	1100	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	110	"	"	"	"	"	
Chlorobenzene	"	ND	----	110	"	"	"	"	"	
Chloroethane	"	ND	----	110	"	"	"	"	"	
Chloroform	"	ND	----	110	"	"	"	"	"	
Chloromethane	"	ND	----	550	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	110	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	110	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	550	"	"	"	"	"	
Dibromochloromethane	"	ND	----	110	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	110	"	"	"	"	"	
Dibromomethane	"	ND	----	110	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	110	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	110	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	110	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	550	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	110	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	110	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	110	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	110	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	110	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	110	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	110	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	110	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	110	"	"	"	"	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Volatile Organic Compounds per EPA Method 8260B

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0215-04 (TP-2/S-2)			**Soil**			**Sampled: 12/01/08 11:35**				
cis-1,3-Dichloropropene	EPA 8260B	ND	-----	110	ug/kg dry	1x	8120284	12/09/08 10:30	12/09/08 19:48	
trans-1,3-Dichloropropene	"	ND	-----	110	"	"	"	"	"	
Ethylbenzene	"	ND	-----	110	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	440	"	"	"	"	"	
2-Hexanone	"	ND	-----	1100	"	"	"	"	"	
Isopropylbenzene	"	ND	-----	220	"	"	"	"	"	
p-Isopropyltoluene	"	ND	-----	220	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	-----	550	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	-----	110	"	"	"	"	"	
Methylene chloride	"	ND	-----	550	"	"	"	"	"	
Naphthalene	"	ND	-----	220	"	"	"	"	"	
n-Propylbenzene	"	ND	-----	110	"	"	"	"	"	
Styrene	"	ND	-----	110	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	-----	110	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	-----	110	"	"	"	"	"	
Tetrachloroethene	"	ND	-----	110	"	"	"	"	"	
Toluene	"	ND	-----	110	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	-----	110	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	110	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	-----	110	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	-----	110	"	"	"	"	"	
Trichloroethene	"	ND	-----	110	"	"	"	"	"	
Trichlorofluoromethane	"	ND	-----	110	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	-----	110	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	-----	110	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	-----	110	"	"	"	"	"	
Vinyl chloride	"	ND	-----	110	"	"	"	"	"	
o-Xylene	"	ND	-----	110	"	"	"	"	"	
m,p-Xylene	"	ND	-----	220	"	"	"	"	"	

Surrogate(s):	*4-BFB*	*90.6%*	*75 - 125 %*	"	"
	1,2-DCA-d4	*96.2%*	*75 - 125 %*	"	"
	Dibromofluoromethane	*92.0%*	*75 - 125 %*	"	"
	Toluene-d8	*97.0%*	*75 - 125 %*	"	"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Polynuclear Aromatic Compounds per EPA 8270M-SIM

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0215-03 (TP-2/S-1)			**Soil**			**Sampled: 12/01/08 11:00**				**H8**
Acenaphthene	EPA 8270m	ND	-----	16.3	ug/kg dry	1x	8120749	12/27/08 13:50	12/29/08 15:25	
Acenaphthylene	"	ND	-----	16.3	"	"	"	"	"	
Anthracene	"	ND	-----	16.3	"	"	"	"	"	
Benzo (a) anthracene	"	ND	-----	16.3	"	"	"	"	"	
Benzo (a) pyrene	"	ND	-----	16.3	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	-----	16.3	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	-----	16.3	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	16.3	"	"	"	"	"	
Chrysene	"	ND	-----	16.3	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	-----	16.3	"	"	"	"	"	
Fluoranthene	"	**22.2**	-----	16.3	"	"	"	"	"	
Fluorene	"	ND	-----	16.3	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	-----	16.3	"	"	"	"	"	
Naphthalene	"	ND	-----	16.3	"	"	"	"	"	
Phenanthrene	"	**18.4**	-----	16.3	"	"	"	"	"	
Pyrene	"	**16.8**	-----	16.3	"	"	"	"	"	
Surrogate(s): Fluorene-d10				*71.6%*		*24 - 125 %*	"			"
Pyrene-d10				*43.0%*		*41 - 141 %*	"			"
Benzo (a) pyrene-d12				*34.4%*		*38 - 143 %*	"			"
PRL0215-04 (TP-2/S-2)			**Soil**			**Sampled: 12/01/08 11:35**				
Acenaphthene	EPA 8270m	ND	-----	14.8	ug/kg dry	1x	8120250	12/08/08 14:45	12/10/08 15:53	
Acenaphthylene	"	ND	-----	14.8	"	"	"	"	"	
Anthracene	"	ND	-----	14.8	"	"	"	"	"	
Benzo (a) anthracene	"	ND	-----	14.8	"	"	"	"	"	
Benzo (a) pyrene	"	ND	-----	14.8	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	-----	14.8	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	-----	14.8	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	14.8	"	"	"	"	"	
Chrysene	"	ND	-----	14.8	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	-----	14.8	"	"	"	"	"	
Fluoranthene	"	ND	-----	14.8	"	"	"	"	"	
Fluorene	"	ND	-----	14.8	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	-----	14.8	"	"	"	"	"	
Naphthalene	"	ND	-----	14.8	"	"	"	"	"	
Phenanthrene	"	ND	-----	14.8	"	"	"	"	"	

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Polynuclear Aromatic Compounds per EPA 8270M-SIM

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0215-04 (TP-2/S-2)				**Soil**		**Sampled: 12/01/08 11:35**				
Pyrene	EPA 8270m	ND	----	14.8	ug/kg dry	1x	8120250	12/08/08 14:45	12/10/08 15:53	
Surrogate(s): *Fluorene-d10*				*66.4%*		*24 - 125 %*	"			"
Pyrene-d10				*79.4%*		*41 - 141 %*	"			"
Benzo (a) pyrene-d12				*80.7%*		*38 - 143 %*	"			"

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Percent Dry Weight (Solids) per Standard Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0215-01 (TP-1A/S-1)			**Soil**			**Sampled: 12/01/08 09:21**				
% Solids	NCA SOP	**90.9**	-----	0.0100	% by Weight	1x	8120277	12/08/08 18:22	12/08/08 18:22	
PRL0215-02 (TP-1A/S-2)			**Soil**			**Sampled: 12/01/08 10:07**				
% Solids	NCA SOP	**71.5**	-----	0.0100	% by Weight	1x	8120277	12/08/08 18:22	12/08/08 18:22	
PRL0215-03 (TP-2/S-1)			**Soil**			**Sampled: 12/01/08 11:00**				
% Solids	NCA SOP	**81.7**	-----	0.0100	% by Weight	1x	8120277	12/08/08 18:22	12/08/08 18:22	
PRL0215-04 (TP-2/S-2)			**Soil**			**Sampled: 12/01/08 11:35**				
% Solids	NCA SOP	**89.4**	-----	0.0100	% by Weight	1x	8120277	12/08/08 18:22	12/08/08 18:22	
PRL0215-05 (TP-3/S-1)			**Soil**			**Sampled: 12/01/08 12:00**				
% Solids	NCA SOP	**94.6**	-----	0.0100	% by Weight	1x	8120277	12/08/08 18:22	12/08/08 18:22	
PRL0215-07 (TP-4A/S-2)			**Soil**			**Sampled: 12/01/08 14:00**				
% Solids	NCA SOP	**87.9**	-----	0.0100	% by Weight	1x	8120277	12/08/08 18:22	12/08/08 18:22	
PRL0215-08 (TP-5/S-1)			**Soil**			**Sampled: 12/01/08 14:20**				
% Solids	NCA SOP	**95.8**	-----	0.0100	% by Weight	1x	8120277	12/08/08 18:22	12/08/08 18:22	

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390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Organic Carbon, Total (TOC)

TestAmerica Tacoma

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0215-04 (TP-2/S-2)			**Soil**			**Sampled: 12/01/08 11:35**				
Total Organic Carbon	9060	ND	----	2000	mg/Kg	1x	39039	12/11/08 11:01	12/11/08 11:01	

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Hydrocarbon Identification per NW-TPH Methodology - Laboratory Quality Control Results

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QC Batch: 8120244 **Soil Preparation Method: EPA 3550 Fuels**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120244-BLK1)								**Extracted: 12/08/08 11:15**						
Gasoline Range Hydrocarbons	NWTPH HCID	ND	---	20.0	mg/kg wet	1x	--	--	--	--	--	--	12/09/08 01:28	
Diesel Range Hydrocarbons	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
Heavy Oil Range Hydrocarbons	"	ND	---	100	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 93.1%*			*Limits: 50-150%*	"							*12/09/08 01:28*	
Duplicate (8120244-DUP1)					**QC Source: PRL0213-01**			**Extracted: 12/08/08 11:15**						
Gasoline Range Hydrocarbons	NWTPH HCID	ND	---	19.9	mg/kg dry	1x	ND	--	--	--	NR	(50)	12/09/08 02:00	
Diesel Range Hydrocarbons	"	ND	---	49.7	"	"	ND	--	--	--	144%	"	"	R4
Heavy Oil Range Hydrocarbons	"	ND	---	99.4	"	"	ND	--	--	--	NR	"	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 116%*			*Limits: 50-150%*	"							*12/09/08 02:00*	
Duplicate (8120244-DUP2)					**QC Source: PRL0215-01**			**Extracted: 12/08/08 11:15**						
Gasoline Range Hydrocarbons	NWTPH HCID	ND	---	21.9	mg/kg dry	1x	ND	--	--	--	NR	(50)	12/09/08 02:32	
Diesel Range Hydrocarbons	"	DET	---	54.7	"	"	ND	--	--	--	124%	"	"	R4
Heavy Oil Range Hydrocarbons	"	DET	---	109	"	"	303	--	--	--	16.9%	"	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 114%*			*Limits: 50-150%*	"							*12/09/08 02:32*	

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390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120425 **Soil Preparation Method: EPA 3550 Fuels**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120425-BLK1)								**Extracted: 12/12/08 06:09**						
Diesel Range Organics	NWTPH-Dx	ND	---	12.5	mg/kg wet	1x	--	--	--	--	--	--	12/12/08 11:53	
Heavy Oil Range Hydrocarbons	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 89.2%*			*Limits: 50-150%*	"							*12/12/08 11:53*	
LCS (8120425-BS1)								**Extracted: 12/12/08 06:09**						
Diesel Range Organics	NWTPH-Dx	125	---	12.5	mg/kg wet	1x	--	125	99.8%	(50-150)	--	--	12/12/08 12:12	
Heavy Oil Range Hydrocarbons	"	72.2	---	25.0	"	"	--	75.0	96.2%	"	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 93.3%*			*Limits: 50-150%*	"							*12/12/08 12:12*	
Duplicate (8120425-DUP1)					**QC Source: PRL0408-01**			**Extracted: 12/12/08 06:09**						
Diesel Range Organics	NWTPH-Dx	71.8	---	13.8	mg/kg dry	1x	38.8	--	--	--	59.5%	(40)	12/12/08 12:31	R2
Heavy Oil Range Hydrocarbons	"	ND	---	27.7	"	"	ND	--	--	--	32.8%	"	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 85.7%*			*Limits: 50-150%*	"							*12/12/08 12:31*	
Duplicate (8120425-DUP2)					**QC Source: PRL0478-01**			**Extracted: 12/12/08 19:15**						
Diesel Range Organics	NWTPH-Dx	48400	---	345	mg/kg dry	20x	58100	--	--	--	18.2%	(40)	12/13/08 14:55	
Heavy Oil Range Hydrocarbons	"	ND	---	690	"	"	ND	--	--	--	28.0%	"	"	RL7
Surrogate(s): 1-Chlorooctadecane		*Recovery: 1810%*			*Limits: 50-150%*	"							*12/13/08 14:55*	*Z3*

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390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

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QC Batch: 8120285 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120285-BLK1)								Extracted: 12/09/08 09:17						
Antimony	EPA 6020	ND	---	0.495	mg/kg wet	1x	--	--	--	--	--	--	12/12/08 20:48	
Arsenic	"	ND	---	0.495	"	"	--	--	--	--	--	--	12/10/08 06:03	
Beryllium	"	ND	---	0.495	"	"	--	--	--	--	--	--	12/10/08 16:01	
Cadmium	"	ND	---	0.495	"	"	--	--	--	--	--	--	12/12/08 20:48	
Chromium	"	ND	---	0.495	"	"	--	--	--	--	--	--	12/10/08 06:03	
Copper	"	ND	---	1.98	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.495	"	"	--	--	--	--	--	--	"	
Nickel	"	ND	---	0.990	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.495	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.495	"	"	--	--	--	--	--	--	"	
Thallium	"	ND	---	0.495	"	"	--	--	--	--	--	--	12/12/08 20:48	
Zinc	"	ND	---	1.98	"	"	--	--	--	--	--	--	12/10/08 06:03	
LCS (8120285-BS1)								Extracted: 12/09/08 09:17						
Antimony	EPA 6020	3.90	---	0.476	mg/kg wet	1x	--	4.76	81.9%	(80-120)	--	--	12/12/08 20:56	
Arsenic	"	9.75	---	0.476	"	"	--	9.52	102%	"	--	--	12/10/08 06:10	
Beryllium	"	8.94	---	0.476	"	"	--	"	93.8%	"	--	--	12/10/08 16:09	
Cadmium	"	7.85	---	0.476	"	"	--	"	82.4%	"	--	--	12/12/08 20:56	
Chromium	"	9.54	---	0.476	"	"	--	"	100%	"	--	--	12/10/08 06:10	
Copper	"	9.75	---	1.90	"	"	--	"	102%	"	--	--	"	
Lead	"	8.77	---	0.476	"	"	--	"	92.0%	"	--	--	"	
Nickel	"	9.60	---	0.952	"	"	--	"	101%	"	--	--	"	
Selenium	"	9.49	---	0.476	"	"	--	"	99.6%	"	--	--	"	
Silver	"	4.95	---	0.476	"	"	--	4.76	104%	"	--	--	"	
Thallium	"	7.99	---	0.476	"	"	--	9.52	83.9%	"	--	--	12/12/08 20:56	
Zinc	"	9.48	---	1.90	"	"	--	"	99.5%	"	--	--	12/10/08 06:10	
Duplicate (8120285-DUP1)				QC Source: PRL0213-02				Extracted: 12/09/08 09:17						
Antimony	EPA 6020	ND	---	0.577	mg/kg dry	1x	ND	--	--	--	22.7%	(40)	12/12/08 21:51	
Arsenic	"	1.39	---	0.577	"	"	1.55	--	--	--	11.1%	"	12/10/08 07:05	
Beryllium	"	ND	---	2.89	"	5x	ND	--	--	--	135%	"	12/15/08 16:36	R4
Cadmium	"	ND	---	0.577	"	1x	ND	--	--	--	21.6%	"	12/12/08 21:51	
Chromium	"	18.3	---	0.577	"	"	19.4	--	--	--	5.75%	"	12/10/08 07:05	
Copper	"	26.6	---	2.31	"	"	25.8	--	--	--	3.12%	"	"	
Lead	"	34.0	---	0.577	"	"	38.0	--	--	--	11.2%	"	"	
Nickel	"	50.7	---	1.15	"	"	46.9	--	--	--	7.66%	"	"	
Selenium	"	ND	---	0.577	"	"	ND	--	--	--	27.7%	"	"	
Silver	"	ND	---	0.577	"	"	ND	--	--	--	24.9%	"	"	
Thallium	"	ND	---	0.577	"	"	ND	--	--	--	18.2%	"	12/12/08 21:51	

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390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

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QC Batch: 8120285 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8120285-DUP1)					**QC Source: PRL0213-02**				**Extracted: 12/09/08 09:17**					
Zinc	EPA 6020	139	---	2.31	mg/kg dry	1x	184	--	--	--	27.6%	(40)	12/10/08 07:05	
Matrix Spike (8120285-MS1)					**QC Source: PRL0213-02**				**Extracted: 12/09/08 09:17**					
Antimony	EPA 6020	6.06	---	0.577	mg/kg dry	1x	0.355	5.77	98.7%	(70-130)	--	--	12/12/08 22:31	
Arsenic	"	12.1	---	0.577	"	"	1.55	11.5	91.7%	(75-125)	--	--	12/10/08 07:37	
Beryllium	"	11.3	---	0.577	"	"	0.316	"	95.1%	"	--	--	12/15/08 16:52	
Cadmium	"	11.7	---	0.577	"	"	0.427	"	97.7%	"	--	--	12/12/08 22:31	
Chromium	"	28.9	---	0.577	"	"	19.4	"	82.7%	"	--	--	12/10/08 07:37	
Copper	"	36.4	---	2.31	"	"	25.8	"	91.7%	"	--	--	"	
Lead	"	143	---	0.577	"	"	38.0	"	906%	"	--	--	"	MHA
Nickel	"	58.1	---	1.15	"	"	46.9	"	96.4%	"	--	--	"	
Selenium	"	10.5	---	0.577	"	"	0.0611	"	90.7%	"	--	--	"	
Silver	"	6.09	---	0.577	"	"	0.189	5.77	102%	"	--	--	"	
Thallium	"	11.0	---	0.577	"	"	0.0722	11.5	94.3%	"	--	--	12/12/08 22:31	
Zinc	"	143	---	2.31	"	"	184	"	-358%	"	--	--	12/10/08 07:37	MHA
Matrix Spike (8120285-MS2)					**QC Source: PRL0213-07**				**Extracted: 12/09/08 09:17**					
Antimony	EPA 6020	2.88	---	0.532	mg/kg dry	1x	ND	5.32	54.1%	(70-130)	--	--	12/12/08 23:17	M8
Arsenic	"	10.6	---	0.532	"	"	0.862	10.6	91.1%	(75-125)	--	--	12/10/08 08:24	
Beryllium	"	9.40	---	0.532	"	"	0.274	"	85.8%	"	--	--	12/10/08 18:28	
Cadmium	"	11.5	---	0.532	"	"	0.0826	"	108%	"	--	--	12/12/08 23:17	
Chromium	"	21.4	---	0.532	"	"	12.3	"	86.0%	"	--	--	12/10/08 08:24	
Copper	"	24.1	---	2.13	"	"	14.5	"	90.7%	"	--	--	"	
Lead	"	10.9	---	0.532	"	"	2.21	"	82.1%	"	--	--	"	
Nickel	"	41.3	---	1.06	"	"	32.3	"	85.4%	"	--	--	"	
Selenium	"	8.67	---	0.532	"	"	0.0413	"	81.2%	"	--	--	"	
Silver	"	5.18	---	0.532	"	"	0.0568	5.32	96.4%	"	--	--	"	
Thallium	"	11.1	---	0.532	"	"	0.0775	10.6	103%	"	--	--	12/12/08 23:17	
Zinc	"	31.3	---	2.13	"	"	23.0	"	77.8%	"	--	--	12/10/08 08:24	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

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QC Batch: 8120346 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120346-BLK1)								Extracted: 12/10/08 10:27						
Antimony	EPA 6020	ND	---	0.485	mg/kg wet	1x	--	--	--	--	--	--	12/14/08 07:47	
Arsenic	"	ND	---	0.485	"	"	--	--	--	--	--	--	12/15/08 23:22	
Beryllium	"	ND	---	0.485	"	"	--	--	--	--	--	--	12/18/08 05:22	
Cadmium	"	ND	---	0.485	"	"	--	--	--	--	--	--	12/14/08 07:47	
Chromium	"	ND	---	0.485	"	"	--	--	--	--	--	--	"	
Copper	"	ND	---	1.94	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.485	"	"	--	--	--	--	--	--	"	
Nickel	"	ND	---	0.971	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.485	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.485	"	"	--	--	--	--	--	--	"	
Thallium	"	ND	---	0.485	"	"	--	--	--	--	--	--	12/18/08 05:22	
Zinc	"	ND	---	1.94	"	"	--	--	--	--	--	--	12/14/08 07:47	
LCS (8120346-BS1)								Extracted: 12/10/08 10:27						
Antimony	EPA 6020	4.36	---	0.481	mg/kg wet	1x	--	4.81	90.7%	(80-120)	--	--	12/14/08 07:55	
Arsenic	"	9.72	---	0.481	"	"	--	9.62	101%	"	--	--	12/15/08 23:30	
Beryllium	"	10.1	---	0.481	"	"	--	"	105%	"	--	--	12/18/08 05:30	
Cadmium	"	9.43	---	0.481	"	"	--	"	98.0%	"	--	--	12/14/08 07:55	
Chromium	"	9.76	---	0.481	"	"	--	"	102%	"	--	--	"	
Copper	"	10.1	---	1.92	"	"	--	"	105%	"	--	--	"	
Lead	"	9.09	---	0.481	"	"	--	"	94.6%	"	--	--	"	
Nickel	"	10.1	---	0.962	"	"	--	"	105%	"	--	--	"	
Selenium	"	9.66	---	0.481	"	"	--	"	100%	"	--	--	"	
Silver	"	4.81	---	0.481	"	"	--	4.81	100%	"	--	--	"	
Thallium	"	9.26	---	0.481	"	"	--	9.62	96.4%	"	--	--	12/18/08 05:30	
Zinc	"	9.65	---	1.92	"	"	--	"	100%	"	--	--	12/14/08 07:55	
Duplicate (8120346-DUP1)				QC Source: PRL0215-05				Extracted: 12/10/08 10:27						
Antimony	EPA 6020	ND	---	0.503	mg/kg dry	1x	ND	--	--	--	36.6%	(40)	12/14/08 09:15	
Arsenic	"	1.40	---	0.503	"	"	2.32	--	--	--	49.0%	"	12/15/08 23:46	R4
Beryllium	"	ND	---	0.503	"	"	ND	--	--	--	2.63%	"	12/18/08 05:45	
Cadmium	"	ND	---	0.503	"	"	ND	--	--	--	55.3%	"	12/14/08 09:15	R4
Chromium	"	14.7	---	0.503	"	"	14.9	--	--	--	1.73%	"	"	
Copper	"	26.1	---	2.01	"	"	28.6	--	--	--	9.41%	"	"	
Lead	"	25.9	---	0.503	"	"	37.4	--	--	--	36.2%	"	"	
Nickel	"	34.9	---	1.01	"	"	35.2	--	--	--	0.919%	"	"	
Selenium	"	ND	---	0.503	"	"	ND	--	--	--	26.7%	"	"	
Silver	"	ND	---	0.503	"	"	ND	--	--	--	8.00%	"	"	
Thallium	"	ND	---	0.503	"	"	ND	--	--	--	45.3%	"	12/18/08 05:45	R4

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Christina Woodcock For Estella Rieben, Project Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120346 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8120346-DUP1)					**QC Source: PRL0215-05**				**Extracted: 12/10/08 10:27**					
Zinc	EPA 6020	62.9	---	2.01	mg/kg dry	1x	104	--	--	--	49.0%	(40)	12/14/08 09:15	R2
Matrix Spike (8120346-MS1)					**QC Source: PRL0215-05**				**Extracted: 12/10/08 10:27**					
Antimony	EPA 6020	2.04	---	0.503	mg/kg dry	1x	0.211	5.03	36.3%	(70-130)	--	--	12/14/08 09:30	M8
Arsenic	"	10.8	---	0.503	"	"	2.32	10.1	84.1%	(75-125)	--	--	12/16/08 00:01	
Beryllium	"	9.13	---	0.503	"	"	0.388	"	86.8%	"	--	--	12/18/08 06:01	
Cadmium	"	10.2	---	0.503	"	"	0.302	"	98.1%	"	--	--	12/14/08 09:30	
Chromium	"	24.5	---	0.503	"	"	14.9	"	95.3%	"	--	--	"	
Copper	"	36.5	---	2.01	"	"	28.6	"	78.5%	"	--	--	"	
Lead	"	41.1	---	0.503	"	"	37.4	"	36.6%	"	--	--	"	M8
Nickel	"	44.5	---	1.01	"	"	35.2	"	92.0%	"	--	--	"	
Selenium	"	9.35	---	0.503	"	"	0.0856	"	92.1%	"	--	--	"	
Silver	"	5.12	---	0.503	"	"	0.131	5.03	99.2%	"	--	--	"	
Thallium	"	9.52	---	0.503	"	"	0.232	10.1	92.3%	"	--	--	12/18/08 06:01	
Zinc	"	84.2	---	2.01	"	"	104	"	-195%	"	--	--	12/14/08 09:30	MHA
Matrix Spike (8120346-MS2)					**QC Source: PRL0286-01**				**Extracted: 12/10/08 10:27**					
Antimony	EPA 6020	2.05	---	0.515	mg/kg dry	1x	ND	5.15	39.8%	(70-130)	--	--	12/14/08 10:33	M8
Arsenic	"	10.8	---	0.515	"	"	0.988	10.3	95.1%	(75-125)	--	--	12/16/08 00:56	
Beryllium	"	9.85	---	0.515	"	"	0.281	"	93.0%	"	--	--	12/18/08 06:57	
Cadmium	"	10.4	---	0.515	"	"	0.0676	"	100%	"	--	--	12/14/08 10:33	
Chromium	"	23.0	---	0.515	"	"	12.0	"	107%	"	--	--	"	
Copper	"	27.1	---	2.06	"	"	15.4	"	114%	"	--	--	"	
Lead	"	12.0	---	0.515	"	"	2.83	"	89.0%	"	--	--	"	
Nickel	"	44.0	---	1.03	"	"	33.0	"	107%	"	--	--	"	
Selenium	"	9.75	---	0.515	"	"	0.0468	"	94.2%	"	--	--	"	
Silver	"	5.48	---	0.515	"	"	0.0988	5.15	104%	"	--	--	"	
Thallium	"	9.61	---	0.515	"	"	0.0832	10.3	92.5%	"	--	--	12/18/08 06:57	
Zinc	"	39.9	---	2.06	"	"	27.4	"	121%	"	--	--	12/14/08 10:33	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Total Mercury per EPA Method 7471A - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120251 **Soil Preparation Method: EPA 7471A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120251-BLK1)								**Extracted: 12/08/08 09:58**						
Mercury	EPA 7471A	ND	---	0.100	mg/kg wet	1x	--	--	--	--	--	--	12/08/08 15:46	
LCS (8120251-BS1)								**Extracted: 12/08/08 09:58**						
Mercury	EPA 7471A	0.626	---	0.100	mg/kg wet	1x	--	0.625	100%	(80-120)	--	--	12/08/08 15:49	
LCS Dup (8120251-BSD1)								**Extracted: 12/08/08 09:58**						
Mercury	EPA 7471A	0.609	---	0.100	mg/kg wet	1x	--	0.625	97.4%	(80-120)	2.81%	(20)	12/08/08 15:53	
Duplicate (8120251-DUP1)				**QC Source: PRL0213-01**				**Extracted: 12/08/08 09:58**						
Mercury	EPA 7471A	ND	---	0.102	mg/kg dry	1x	ND	--	--	--	NR	(40)	12/08/08 15:57	
Matrix Spike (8120251-MS1)				**QC Source: PRL0213-01**				**Extracted: 12/08/08 09:58**						
Mercury	EPA 7471A	0.656	---	0.0968	mg/kg dry	1x	ND	0.605	108%	(75-125)	--	--	12/08/08 15:59	
Matrix Spike Dup (8120251-MSD1)				**QC Source: PRL0213-01**				**Extracted: 12/08/08 09:58**						
Mercury	EPA 7471A	0.632	---	0.0966	mg/kg dry	1x	ND	0.604	105%	(75-125)	3.68%	(40)	12/08/08 16:03	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Organochlorine Pesticides per EPA Method 8081A - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120274 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120274-BLK1)								**Extracted: 12/08/08 17:55**						
Aldrin	EPA 8081A	ND	---	6.65	ug/kg wet	1x	--	--	--	--	--	--	12/10/08 13:05	
alpha-BHC	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
beta-BHC	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
delta-BHC	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
gamma-BHC (Lindane)	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
gamma-Chlordane	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
alpha-Chlordane	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Chlordane (tech)	"	ND	---	149	"	"	--	--	--	--	--	--	"	
4,4´-DDD	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
4,4´-DDE	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
4,4´-DDT	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Dieldrin	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Endosulfan I	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Endosulfan II	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Endosulfan sulfate	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Endrin	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Endrin aldehyde	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Endrin ketone	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Heptachlor	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Heptachlor epoxide	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Methoxychlor	"	ND	---	6.65	"	"	--	--	--	--	--	--	"	
Toxaphene	"	ND	---	198	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 106%*			*Limits: 36-140%*	"							*12/10/08 13:05*	
LCS (8120274-BS1)								**Extracted: 12/08/08 17:55**						
Aldrin	EPA 8081A	33.7	---	6.68	ug/kg wet	1x	--	33.2	102%	(64-136)	--	--	12/10/08 13:31	
gamma-BHC (Lindane)	"	33.9	---	6.68	"	"	--	"	102%	(62-140)	--	--	"	
4,4´-DDT	"	32.1	---	6.68	"	"	--	"	96.6%	(65-130)	--	--	"	
Dieldrin	"	33.9	---	6.68	"	"	--	"	102%	(70-135)	--	--	"	
Endrin	"	34.9	---	6.68	"	"	--	"	105%	(65-135)	--	--	"	
Heptachlor	"	34.1	---	6.68	"	"	--	"	103%	(48-124)	--	--	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 106%*			*Limits: 36-140%*	"							*12/10/08 13:31*	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Organochlorine Pesticides per EPA Method 8081A - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120274 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (8120274-MS1)					**QC Source: PRL0204-05**				**Extracted: 12/08/08 17:55**					
Aldrin	EPA 8081A	37.7	---	7.70	ug/kg dry	1x	ND	38.3	98.3%	(64-136)	--	--	12/10/08 15:05	
gamma-BHC (Lindane)	"	38.7	---	7.70	"	"	ND	"	101%	(62-140)	--	--	"	
4,4´-DDT	"	36.4	---	7.70	"	"	ND	"	95.1%	(65-130)	--	--	"	
Dieldrin	"	37.8	---	7.70	"	"	ND	"	98.7%	(70-135)	--	--	"	
Endrin	"	38.6	---	7.70	"	"	ND	"	101%	(65-135)	--	--	"	
Heptachlor	"	38.4	---	7.70	"	"	ND	"	100%	(48-124)	--	--	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 88.4%*			*Limits: 36-140%*	"							*12/10/08 15:05*	
Matrix Spike Dup (8120274-MSD1)					**QC Source: PRL0204-05**				**Extracted: 12/08/08 17:55**					
Aldrin	EPA 8081A	37.8	---	7.70	ug/kg dry	1x	ND	38.3	98.7%	(64-136)	0.409%	(50)	12/10/08 15:31	
gamma-BHC (Lindane)	"	38.3	---	7.70	"	"	ND	"	100%	(62-140)	0.863%	"	"	
4,4´-DDT	"	37.2	---	7.70	"	"	ND	"	97.1%	(65-130)	2.17%	"	"	
Dieldrin	"	38.3	---	7.70	"	"	ND	"	100%	(70-135)	1.39%	"	"	
Endrin	"	39.0	---	7.70	"	"	ND	"	102%	(65-135)	1.09%	"	"	
Heptachlor	"	38.5	---	7.70	"	"	ND	"	100%	(48-124)	0.202%	"	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 93.6%*			*Limits: 36-140%*	"							*12/10/08 15:31*	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Polychlorinated Biphenyls per EPA Method 8082 - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120281 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120281-BLK1)								**Extracted: 12/09/08 15:55**						
Aroclor 1016	EPA 8082	ND	---	32.9	ug/kg wet	1x	--	--	--	--	--	--	12/11/08 18:22	
Aroclor 1221	"	ND	---	66.3	"	"	--	--	--	--	--	--	"	
Aroclor 1232	"	ND	---	32.9	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	32.9	"	"	--	--	--	--	--	--	"	
Aroclor 1248	"	ND	---	32.9	"	"	--	--	--	--	--	--	"	
Aroclor 1254	"	ND	---	32.9	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	32.9	"	"	--	--	--	--	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 90.8%*			*Limits: 16-149%*	*"*							*12/11/08 18:22*	
LCS (8120281-BS1)								**Extracted: 12/09/08 15:55**						
Aroclor 1016	EPA 8082	291	---	32.9	ug/kg wet	1x	--	329	88.5%	(57-135)	--	--	12/11/08 18:45	
Aroclor 1260	"	303	---	32.9	"	"	--	"	92.2%	(60-135)	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 89.6%*			*Limits: 16-149%*	*"*							*12/11/08 18:45*	
Matrix Spike (8120281-MS1)					**QC Source: PRL0090-01**			**Extracted: 12/09/08 15:55**						
Aroclor 1016	EPA 8082	379	---	42.6	ug/kg dry	1x	ND	426	88.9%	(37-145)	--	--	12/11/08 17:37	
Aroclor 1260	"	450	---	42.6	"	"	ND	"	106%	(25-144)	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 93.1%*			*Limits: 16-149%*	*"*							*12/11/08 17:37*	
Matrix Spike Dup (8120281-MSD1)					**QC Source: PRL0090-01**			**Extracted: 12/09/08 15:55**						
Aroclor 1016	EPA 8082	346	---	42.6	ug/kg dry	1x	ND	427	81.2%	(37-145)	9.00%	(26)	12/11/08 17:59	
Aroclor 1260	"	439	---	42.6	"	"	ND	"	103%	(25-144)	2.53%	(30)	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 82.8%*			*Limits: 16-149%*	*"*							*12/11/08 17:59*	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120284 **Soil Preparation Method: EPA 5035A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120284-BLK1)								**Extracted: 12/09/08 09:00**						
Acetone	EPA 8260B	ND	---	2500	ug/kg wet	1x	--	--	--	--	--	--	12/09/08 13:28	
Benzene	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	499	"	"	--	--	--	--	--	--	"	
2-Butanone (MEK)	"	ND	---	998	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	499	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	998	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	499	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	499	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	499	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	

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Christina M. Woodcock

Christina Woodcock For Estella Rieben, Project Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120284 **Soil Preparation Method: EPA 5035A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120284-BLK1)								**Extracted: 12/09/08 09:00**						
Hexachlorobutadiene	EPA 8260B	ND	---	399	ug/kg wet	1x	--	--	--	--	--	--	12/09/08 13:28	
2-Hexanone	"	ND	---	998	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	200	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	200	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	499	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	499	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	200	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	200	"	"	--	--	--	--	--	--	"	

Surrogate(s):	*4-BFB*	*Recovery:*	*93.0%*	*Limits:* *75-125%*	*"*	*12/09/08 13:28*
	1,2-DCA-d4		*98.9%*	*75-125%*	*"*	*"*
	Dibromofluoromethane		*95.8%*	*75-125%*	*"*	*"*
	Toluene-d8		*97.2%*	*75-125%*	*"*	*"*

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Christina Woodcock For Estella Rieben, Project Manager

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120284 **Soil Preparation Method: EPA 5035A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (8120284-BS1)								**Extracted: 12/09/08 09:00**						
Benzene	EPA 8260B	1810	---	19.9	ug/kg wet	1x	--	1990	91.2%	(81.9-125)	--	--	12/09/08 10:25	
Chlorobenzene	"	1900	---	99.5	"	"	--	"	95.3%	(79.2-125)	--	--	"	
1,1-Dichloroethene	"	1720	---	99.5	"	"	--	"	86.2%	(66.1-125)	--	--	"	
Toluene	"	1860	---	99.5	"	"	--	"	93.5%	(80-125)	--	--	"	
Trichloroethene	"	1860	---	99.5	"	"	--	"	93.5%	(76-125)	--	--	"	
Surrogate(s): 4-BFB		*Recovery: 97.6%*			*Limits: 75-125%*	"							*12/09/08 10:25*	
1,2-DCA-d4		*93.8%*			*75-125%*	"							"	
Dibromofluoromethane		*96.7%*			*75-125%*	"							"	
Toluene-d8		*97.4%*			*75-125%*	"							"	
Matrix Spike (8120284-MS1)					**QC Source: PRL0267-01**			**Extracted: 12/09/08 10:30**						
Benzene	EPA 8260B	2900	---	32.3	ug/kg dry	1x	ND	3230	90.0%	(68.5-125)	--	--	12/09/08 12:01	
Chlorobenzene	"	3060	---	161	"	"	ND	"	95.0%	(65.9-125)	--	--	"	
1,1-Dichloroethene	"	2860	---	161	"	"	ND	"	88.6%	(55.8-125)	--	--	"	
Toluene	"	3020	---	161	"	"	ND	"	93.6%	(70.3-125)	--	--	"	
Trichloroethene	"	2980	---	161	"	"	ND	"	92.3%	(65.5-125)	--	--	"	
Surrogate(s): 4-BFB		*Recovery: 98.6%*			*Limits: 75-125%*	"							*12/09/08 12:01*	
1,2-DCA-d4		*96.2%*			*75-125%*	"							"	
Dibromofluoromethane		*99.5%*			*75-125%*	"							"	
Toluene-d8		*99.6%*			*75-125%*	"							"	
Matrix Spike Dup (8120284-MSD1)					**QC Source: PRL0267-01**			**Extracted: 12/09/08 10:30**						
Benzene	EPA 8260B	2930	---	32.3	ug/kg dry	1x	ND	3230	90.9%	(68.5-125)	0.939%	(25)	12/09/08 12:30	
Chlorobenzene	"	3100	---	161	"	"	ND	"	96.2%	(65.9-125)	1.31%	"	"	
1,1-Dichloroethene	"	2950	---	161	"	"	ND	"	91.5%	(55.8-125)	3.22%	"	"	
Toluene	"	3090	---	161	"	"	ND	"	95.8%	(70.3-125)	2.38%	"	"	
Trichloroethene	"	2950	---	161	"	"	ND	"	91.5%	(65.5-125)	0.816%	"	"	
Surrogate(s): 4-BFB		*Recovery: 98.1%*			*Limits: 75-125%*	"							*12/09/08 12:30*	
1,2-DCA-d4		*96.2%*			*75-125%*	"							"	
Dibromofluoromethane		*97.7%*			*75-125%*	"							"	
Toluene-d8		*98.1%*			*75-125%*	"							"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120250 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120250-BLK1)								**Extracted: 12/08/08 14:45**						
Benzo (e) pyrene	EPA 8270m	ND	---	13.3	ug/kg wet	1x	--	--	--	--	--	--	12/09/08 17:30	ID5
Acenaphthene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Acenaphthylene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	ID4
Chrysene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Surrogate(s): Fluorene-d10		*Recovery: 47.3%*			*Limits: 24-125%*	"							*12/09/08 17:30*	
Pyrene-d10		*76.6%*			*41-141%*	"							"	
Benzo (a) pyrene-d12		*76.1%*			*38-143%*	"							"	
LCS (8120250-BS1)								**Extracted: 12/08/08 14:45**						
Acenaphthene	EPA 8270m	161	---	13.4	ug/kg wet	1x	--	166	97.1%	(33-139)	--	--	12/09/08 17:59	
Benzo (a) pyrene	"	148	---	13.4	"	"	--	"	89.2%	(45-149)	--	--	"	
Pyrene	"	159	---	13.4	"	"	--	"	95.7%	(39-138)	--	--	"	
Surrogate(s): Fluorene-d10		*Recovery: 61.9%*			*Limits: 24-125%*	"							*12/09/08 17:59*	
Pyrene-d10		*83.1%*			*41-141%*	"							"	
Benzo (a) pyrene-d12		*84.9%*			*38-143%*	"							"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120250 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (8120250-MS1)					QC Source: PRL0016-13			Extracted: 12/08/08 14:45						
Acenaphthene	EPA 8270m	184	---	161	ug/kg dry	10x	ND	200	91.8%	(33-139)	--	--	12/09/08 18:28	
Benzo (a) pyrene	"	221	---	161	"	"	82.4	"	69.3%	(45-149)	--	--	"	
Pyrene	"	266	---	161	"	"	124	"	70.8%	(39-138)	--	--	"	
Surrogate(s): Fluorene-d10		*Recovery: 76.6%*			*Limits: 24-125%*	"							*12/09/08 18:28*	
Pyrene-d10		*71.2%*			*41-141%*	"							"	
Benzo (a) pyrene-d12		*72.6%*			*38-143%*	"							"	
Matrix Spike Dup (8120250-MSD1)					QC Source: PRL0016-13			Extracted: 12/08/08 14:45						
Acenaphthene	EPA 8270m	181	---	160	ug/kg dry	10x	ND	199	91.0%	(33-139)	1.44%	(60)	12/09/08 18:57	
Benzo (a) pyrene	"	214	---	160	"	"	82.4	"	66.1%	(45-149)	3.29%	"	"	
Pyrene	"	275	---	160	"	"	124	"	75.6%	(39-138)	3.27%	"	"	
Surrogate(s): Fluorene-d10		*Recovery: 68.1%*			*Limits: 24-125%*	"							*12/09/08 18:57*	
Pyrene-d10		*74.8%*			*41-141%*	"							"	
Benzo (a) pyrene-d12		*73.9%*			*38-143%*	"							"	

QC Batch: 8120749 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120749-BLK1)								Extracted: 12/27/08 13:50						
Acenaphthene	EPA 8270m	ND	---	13.3	ug/kg wet	1x	--	--	--	--	--	--	12/29/08 13:31	
Acenaphthylene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	13.3	"	"	--	--	--	--	--	--	"	
Surrogate(s): Fluorene-d10		*Recovery: 85.3%*			*Limits: 24-125%*	"							*12/29/08 13:31*	
Pyrene-d10		*74.8%*			*41-141%*	"							"	
Benzo (a) pyrene-d12		*68.8%*			*38-143%*	"							"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120749 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (8120749-BS1)								Extracted: 12/27/08 13:50						
Acenaphthene	EPA 8270m	170	---	13.4	ug/kg wet	1x	--	166	102%	(33-139)	--	--	12/29/08 13:59	
Benzo (a) pyrene	"	131	---	13.4	"	"	--	"	78.4%	(45-149)	--	--	"	
Pyrene	"	140	---	13.4	"	"	--	"	84.0%	(39-138)	--	--	"	
Surrogate(s): Fluorene-d10		*Recovery:*	*90.7%*		*Limits:*	*24-125%*	"						*12/29/08 13:59*	
Pyrene-d10			*73.7%*			*41-141%*	"						"	
Benzo (a) pyrene-d12			*73.6%*			*38-143%*	"						"	
Matrix Spike (8120749-MS1)					QC Source: PRL0215-03			Extracted: 12/27/08 13:50						
Acenaphthene	EPA 8270m	165	---	82.0	ug/kg dry	5x	ND	204	81.0%	(33-139)	--	--	12/29/08 14:28	
Benzo (a) pyrene	"	93.6	---	82.0	"	"	ND	"	45.9%	(45-149)	--	--	"	
Pyrene	"	136	---	82.0	"	"	16.8	"	58.6%	(39-138)	--	--	"	
Surrogate(s): Fluorene-d10		*Recovery:*	*71.9%*		*Limits:*	*24-125%*	"						*12/29/08 14:28*	
Pyrene-d10			*52.6%*			*41-141%*	"						"	
Benzo (a) pyrene-d12			*44.4%*			*38-143%*	"						"	
Matrix Spike Dup (8120749-MSD1)					QC Source: PRL0215-03			Extracted: 12/27/08 13:50						
Acenaphthene	EPA 8270m	157	---	81.6	ug/kg dry	5x	ND	203	77.4%	(33-139)	5.01%	(60)	12/29/08 14:57	
Benzo (a) pyrene	"	87.7	---	81.6	"	"	ND	"	43.2%	(45-149)	6.51%	"	"	M8
Pyrene	"	133	---	81.6	"	"	16.8	"	57.2%	(39-138)	2.55%	"	"	
Surrogate(s): Fluorene-d10		*Recovery:*	*72.7%*		*Limits:*	*24-125%*	"						*12/29/08 14:57*	
Pyrene-d10			*52.0%*			*41-141%*	"						"	
Benzo (a) pyrene-d12			*45.8%*			*38-143%*	"						"	

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Christina M. Woodcock

Christina Woodcock For Estella Rieben, Project Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Percent Dry Weight (Solids) per Standard Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120277 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8120277-DUP1)					**QC Source: PRL0213-01**				**Extracted: 12/08/08 18:22**					
% Solids	NCA SOP	96.5	---	0.0100	% by Weight	1x	97.2	--	--	--	0.723%	(20)	12/08/08 18:22	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Organic Carbon, Total (TOC) - Laboratory Quality Control Results

TestAmerica Tacoma

QC Batch: 39039 **Soil Preparation Method: NA**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (580-39039-1)				**QC Source:**				**Extracted: 12/10/08 16:29**						
Total Organic Carbon	9060	ND	---	2000	mg/Kg	1x	--	--	--	--	--	--	12/10/08 16:29	
LCS (580-39039-2)				**QC Source:**				**Extracted: 12/10/08 16:29**						
Total Organic Carbon	9060	5800	---	2000	mg/Kg	1x	--	3400	171%	(13-187)	--	--	12/10/08 16:29	
Duplicate (580-39039-5)				**QC Source: 580-39039-3**				**Extracted: 12/10/08 16:29**						
Total Organic Carbon	9060	51600	---	2000	mg/Kg	1x	52000	--	--	--	2%	(20)	12/10/08 16:29	
Matrix Spike (580-39039-6)				**QC Source: 580-39039-3**				**Extracted: 12/10/08 16:29**						
Total Organic Carbon	9060	69200	---	2000	mg/Kg	1x	52000	20000	84%	(76-128)	--	--	12/10/08 16:29	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/31/08 16:39

Notes and Definitions

Report Specific Notes:

H8	-	The sample was extracted past the holding time.
ID4	-	Benzo(j)fluoranthene coelutes with Benzo(k)fluoranthene. The reported result is a summation of the isomers and the concentration is based on the response factor of Benzo(k)fluoranthene.
ID5	-	Benzo(e)pyrene concentration is based on the response factor of Benzo(a)pyrene, and has not been calibrated independently.
M8	-	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
MHA	-	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
Q13	-	Detected hydrocarbons do not have pattern and range consistent with typical petroleum products and may be due to biogenic interference.
Q6	-	Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
R2	-	The RPD exceeded the acceptance limit.
R4	-	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
RL7	-	Sample required dilution due to high concentrations of target analyte.
Z3	-	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Portland

Christina M. Woodcock

Christina Woodcock For Estella Rieben, Project Manager

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11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
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2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: PR10215

CLIENT: PBS ENGINEERING + ENVIRONMENTAL

REPORT TO: Toby Scott

ADDRESS: 390 NE EMERSON AVENUE
BEND OR 97701

PHONE: 541-388-9290 FAX: 541-382-5116

INVOICE TO: PBS - BEND

P.O. NUMBER:

PROJECT NAME: DSL

PROJECT NUMBER: 80416.000 PHASE 2

SAMPLED BY: DOANN HAMILTON

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: ☒ 10 STD. | 7 | 5 | 4 | 3 | 2 | 1 | <1

Petroleum Hydrocarbon Analyses: ☒ 5 STD. | 4 | 3 | 2 | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE / REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	TPH - HCID	EPA - PRIORITY METALS (LB)	EPA 8270 PAH	VOC EPA 8260B	PCB EPA 8082	TOC EPA 415.1	ORGANIC PEST EPA 8081A		HOLD					MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	TP-1A/S-1	12-1-08 / 921	X	X												S	3		
2	TP-1A/S-2	1007	X	X															
3	TP-2/S-1	1100	X	X															
4	TP-2/S-2	1135	X	X	X	X	X	X	X										
5	TP-3/S-1	1200	X	X															
6	TP-4/S-1	1317									X							HOLD	
7	TP-4A/S-2	1400	X	X															
8	TP-5/S-1	1420	X	X															
9	TP-6/S-1	1506									X							HOLD	
10																			

RELEASED BY:		DATE: 12/4/08	RECEIVED BY:		DATE: 12/5/08
PRINT NAME: Toby Scott	FIRM: PBS	TIME: 1530	PRINT NAME:	FIRM: TAP	TIME: 0930
RELEASED BY:		DATE:	RECEIVED BY:		DATE:
PRINT NAME:	FIRM:	TIME:	PRINT NAME:	FIRM:	TIME:

ADDITIONAL REMARKS:

TEMP: 5.7

PAGE 1 OF

TAL-1000(0408)

TestAmerica Sample Receipt Checklist

Cooler ID(s):

Received by: *(section A)*
Date: 12/5/08
Time: 0930
Initials: BLE

Unpacked by: *(section B)*
Date: 12/5/08
Initials: BLE

Logged-in by:
Date: 12/5/08
Initials: JM

Work Order No. PR10215
Client: PBS Bend
Project: DSL

Temperature out of range:
___Not enough Ice
___No Ice
___Ice Melted
___W/in 4 Hours
___Other:_____

***ESI Clients *(see Section C)*

Digi #1
Digi #2

Cooler Temperature (IR): 5.7 °C plastic (glass) NA *(oil/air samples, ESI client)*

Temperature Blank: _____ °C

A

Custody Seals: (#____)

Signature: Y N Dated:_____
X None

Container Type:
1 #Cooler(s)
___#Box(s)
___None (___#Other:_____)

Coolant Type:
___Gel Ice
X Loose Ice
___None

Packing Material:
X Bubble Bags
___Styrofoam Cubbies
___Peanuts
___None (___Other:_____)

Received from:
___TA Courier
___Senvoy
___UPS
X Fed Ex
___Client
___TDP
___DHL
___SDS
___Mid-Valley
___GS/TA
___GS/Senvoy
___Other:
_____

B

Sample Status:
(If N circled, see NOD)

General:

Intact?	Y	N	
# Containers Match COC?	Y	N	none given
IDs Match COC?	Y	N	

For Analyses Requested:

Cyanide Checked?	Y	N	NA
Correct Type & Preservation?	Y	N	
Adequate Volume?	Y	N	
Within Hold Time?	Y	N	

Volatiles/ Oil Quality:

VOAs/ Syringes free of Headspace?	Y	N	NA
TB on COC? not provided	Y	N	NA

Metals:

HNO3 Preserved?	Y	N	NA
Dissolved Metals Filtered?	Y	N	NA

C

***ESI Clients Only:

Temperature Blank: _____ °C not provided Digi: # 1 #2

All preserved bottles checked Y N NA *(voas/soils/all unp.)*
All preserved accordingly? Y N *(see NOD)* NA *(voas/soils/all unp.)*

FED EX/ UPS: Was the tracking paper keepable? (YES) NO

If circled NO, what is the Tracking number? _____

FED EX Goldstreak UPS DHL Other: _____

Project Managers:

Comments:_____

*PM Reviewed:*_____ *(Initial/Date)*

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
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ORELAP#: OR100021

December 26, 2008

Toby Scott
PBS Engineering - Bend
390 NE Emerson Ave Suite C
Bend, OR 97701

RE: DSL

Enclosed are the results of analyses for samples received by the laboratory on 12/09/08 09:15.
The following list is a summary of the Work Orders contained in this report, generated on 12/26/08 13:17.

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

Work Order	Project	ProjectNumber
PRL0286	DSL	80416

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Richard D. Reid, Project Manager

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-24/S-1	PRL0286-01	Soil	12/08/08 07:57	12/09/08 09:15
TP-24/S-2	PRL0286-02	Soil	12/08/08 08:18	12/09/08 09:15
TP-25/S-1	PRL0286-03	Soil	12/08/08 08:54	12/09/08 09:15
TP-26/S-1	PRL0286-04	Soil	12/08/08 09:24	12/09/08 09:15
TP-27/S-1	PRL0286-05	Soil	12/08/08 10:35	12/09/08 09:15
TP-28/S-2	PRL0286-06	Soil	12/08/08 12:04	12/09/08 09:15
TP-29/S-1	PRL0286-07	Soil	12/08/08 13:22	12/09/08 09:15
TP-30/S-1	PRL0286-08	Soil	12/08/08 13:39	12/09/08 09:15

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Hydrocarbon Identification per NW-TPH Methodology

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0286-01 (TP-24/S-1)			**Soil**			**Sampled: 12/08/08 07:57**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	21.4	mg/kg dry	1x	8120341	12/10/08 11:00	12/10/08 16:55	
Diesel Range Hydrocarbons	"	ND	----	53.5	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	107	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*109%*		*50 - 150 %*	"			"
PRL0286-02 (TP-24/S-2)			**Soil**			**Sampled: 12/08/08 08:18**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	20.6	mg/kg dry	1x	8120341	12/10/08 11:00	12/10/08 17:25	
Diesel Range Hydrocarbons	"	ND	----	51.5	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	103	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*110%*		*50 - 150 %*	"			"
PRL0286-03 (TP-25/S-1)			**Soil**			**Sampled: 12/08/08 08:54**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	20.8	mg/kg dry	1x	8120341	12/10/08 11:00	12/10/08 17:54	
Diesel Range Hydrocarbons	"	ND	----	52.0	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	104	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*105%*		*50 - 150 %*	"			"
PRL0286-04 (TP-26/S-1)			**Soil**			**Sampled: 12/08/08 09:24**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	20.8	mg/kg dry	1x	8120341	12/10/08 11:00	12/10/08 18:24	
Diesel Range Hydrocarbons	"	ND	----	52.0	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	104	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*111%*		*50 - 150 %*	"			"
PRL0286-05 (TP-27/S-1)			**Soil**			**Sampled: 12/08/08 10:35**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	20.6	mg/kg dry	1x	8120341	12/10/08 11:00	12/10/08 18:53	
Diesel Range Hydrocarbons	"	ND	----	51.4	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	103	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*112%*		*50 - 150 %*	"			"
PRL0286-06 (TP-28/S-2)			**Soil**			**Sampled: 12/08/08 12:04**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	21.7	mg/kg dry	1x	8120341	12/10/08 11:00	12/10/08 19:23	
Diesel Range Hydrocarbons	"	ND	----	54.2	"	"	"	"	"	

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BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Hydrocarbon Identification per NW-TPH Methodology

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0286-06 (TP-28/S-2)			**Soil**			**Sampled: 12/08/08 12:04**				
Heavy Oil Range Hydrocarbons	NWTPH HCID	ND	----	108	mg/kg dry	1x	8120341	12/10/08 11:00	12/10/08 19:23	
Surrogate(s): 1-Chlorooctadecane				*111%*		*50 - 150 %*	"			"
PRL0286-07 (TP-29/S-1)			**Soil**			**Sampled: 12/08/08 13:22**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	20.8	mg/kg dry	1x	8120341	12/10/08 11:00	12/10/08 19:52	
Diesel Range Hydrocarbons	"	ND	----	51.9	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	104	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*107%*		*50 - 150 %*	"			"
PRL0286-08 (TP-30/S-1)			**Soil**			**Sampled: 12/08/08 13:39**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	21.2	mg/kg dry	1x	8120341	12/10/08 11:00	12/10/08 20:22	
Diesel Range Hydrocarbons	"	ND	----	52.9	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	106	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*108%*		*50 - 150 %*	"			"

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ph: (503) 906.9200 fax: (503) 906.9210

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0286-01 (TP-24/S-1)			**Soil**			**Sampled: 12/08/08 07:57**				
Antimony	EPA 6020	ND	-----	0.520	mg/kg dry	1x	8120346	12/10/08 10:27	12/14/08 10:25	
Arsenic	"	**0.988**	-----	0.520	"	"	"	"	12/16/08 00:33	
Beryllium	"	ND	-----	0.520	"	"	"	"	12/18/08 06:49	
Cadmium	"	ND	-----	0.520	"	"	"	"	12/14/08 10:25	
Chromium	"	**12.0**	-----	0.520	"	"	"	"	"	
Copper	"	**15.4**	-----	2.08	"	"	"	"	"	
Lead	"	**2.83**	-----	0.520	"	"	"	"	"	
Nickel	"	**33.0**	-----	1.04	"	"	"	"	"	
Selenium	"	ND	-----	0.520	"	"	"	"	"	
Silver	"	ND	-----	0.520	"	"	"	"	"	
Thallium	"	ND	-----	0.520	"	"	"	"	12/18/08 06:49	
Zinc	"	**27.4**	-----	2.08	"	"	"	"	12/14/08 10:25	
PRL0286-02 (TP-24/S-2)			**Soil**			**Sampled: 12/08/08 08:18**				
Antimony	EPA 6020	ND	-----	0.522	mg/kg dry	1x	8120346	12/10/08 10:27	12/14/08 10:41	
Arsenic	"	**0.767**	-----	0.522	"	"	"	"	12/16/08 01:04	
Beryllium	"	ND	-----	0.522	"	"	"	"	12/18/08 07:05	
Cadmium	"	ND	-----	0.522	"	"	"	"	12/14/08 10:41	
Chromium	"	**12.3**	-----	0.522	"	"	"	"	"	
Copper	"	**18.9**	-----	2.09	"	"	"	"	"	
Lead	"	**6.23**	-----	0.522	"	"	"	"	"	
Nickel	"	**48.3**	-----	1.04	"	"	"	"	"	
Selenium	"	ND	-----	0.522	"	"	"	"	"	
Silver	"	ND	-----	0.522	"	"	"	"	"	
Thallium	"	ND	-----	0.522	"	"	"	"	12/18/08 07:05	
Zinc	"	**34.3**	-----	2.09	"	"	"	"	12/14/08 10:41	
PRL0286-03 (TP-25/S-1)			**Soil**			**Sampled: 12/08/08 08:54**				
Antimony	EPA 6020	ND	-----	0.512	mg/kg dry	1x	8120346	12/10/08 10:27	12/14/08 10:49	
Arsenic	"	**0.886**	-----	0.512	"	"	"	"	12/16/08 01:12	
Beryllium	"	ND	-----	0.512	"	"	"	"	12/18/08 07:13	
Cadmium	"	ND	-----	0.512	"	"	"	"	12/14/08 10:49	
Chromium	"	**11.8**	-----	0.512	"	"	"	"	"	
Copper	"	**14.4**	-----	2.05	"	"	"	"	"	
Lead	"	**1.64**	-----	0.512	"	"	"	"	"	
Nickel	"	**39.0**	-----	1.02	"	"	"	"	"	

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0286-03 (TP-25/S-1)			**Soil**			**Sampled: 12/08/08 08:54**				
Selenium	EPA 6020	ND	-----	0.512	mg/kg dry	1x	8120346	12/10/08 10:27	12/14/08 10:49	
Silver	"	ND	-----	0.512	"	"	"	"	"	
Thallium	"	ND	-----	0.512	"	"	"	"	12/18/08 07:13	
Zinc	"	**24.8**	-----	2.05	"	"	"	"	12/14/08 10:49	
PRL0286-04 (TP-26/S-1)			**Soil**			**Sampled: 12/08/08 09:24**				
Antimony	EPA 6020	ND	-----	0.510	mg/kg dry	1x	8120346	12/10/08 10:27	12/14/08 10:57	
Arsenic	"	**1.09**	-----	0.510	"	"	"	"	12/16/08 01:20	
Beryllium	"	ND	-----	0.510	"	"	"	"	12/18/08 07:21	
Cadmium	"	ND	-----	0.510	"	"	"	"	12/14/08 10:57	
Chromium	"	**14.1**	-----	0.510	"	"	"	"	"	
Copper	"	**17.9**	-----	2.04	"	"	"	"	"	
Lead	"	**2.80**	-----	0.510	"	"	"	"	"	
Nickel	"	**36.3**	-----	1.02	"	"	"	"	"	
Selenium	"	ND	-----	0.510	"	"	"	"	"	
Silver	"	ND	-----	0.510	"	"	"	"	"	
Thallium	"	ND	-----	0.510	"	"	"	"	12/18/08 07:21	
Zinc	"	**30.7**	-----	2.04	"	"	"	"	12/14/08 10:57	
PRL0286-05 (TP-27/S-1)			**Soil**			**Sampled: 12/08/08 10:35**				
Antimony	EPA 6020	ND	-----	0.526	mg/kg dry	1x	8120346	12/10/08 10:27	12/14/08 11:05	
Arsenic	"	**1.05**	-----	0.526	"	"	"	"	12/16/08 01:28	
Beryllium	"	ND	-----	0.526	"	"	"	"	12/18/08 07:29	
Cadmium	"	ND	-----	0.526	"	"	"	"	12/14/08 11:05	
Chromium	"	**15.9**	-----	0.526	"	"	"	"	"	
Copper	"	**19.3**	-----	2.10	"	"	"	"	"	
Lead	"	**2.62**	-----	0.526	"	"	"	"	"	
Nickel	"	**50.2**	-----	1.05	"	"	"	"	"	
Selenium	"	ND	-----	0.526	"	"	"	"	"	
Silver	"	ND	-----	0.526	"	"	"	"	"	
Thallium	"	ND	-----	0.526	"	"	"	"	12/18/08 07:29	
Zinc	"	**34.5**	-----	2.10	"	"	"	"	12/14/08 11:05	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0286-06 (TP-28/S-2)			**Soil**			**Sampled: 12/08/08 12:04**				
Antimony	EPA 6020	ND	-----	0.535	mg/kg dry	1x	8120346	12/10/08 10:27	12/14/08 11:12	
Arsenic	"	**0.921**	-----	0.535	"	"	"	"	12/16/08 01:36	
Beryllium	"	ND	-----	0.535	"	"	"	"	12/18/08 07:36	
Cadmium	"	ND	-----	0.535	"	"	"	"	12/14/08 11:12	
Chromium	"	**13.0**	-----	0.535	"	"	"	"	"	
Copper	"	**17.0**	-----	2.14	"	"	"	"	"	
Lead	"	**2.10**	-----	0.535	"	"	"	"	"	
Nickel	"	**41.6**	-----	1.07	"	"	"	"	"	
Selenium	"	ND	-----	0.535	"	"	"	"	"	
Silver	"	ND	-----	0.535	"	"	"	"	"	
Thallium	"	ND	-----	0.535	"	"	"	"	12/18/08 07:36	
Zinc	"	**24.1**	-----	2.14	"	"	"	"	12/14/08 11:12	
PRL0286-07 (TP-29/S-1)			**Soil**			**Sampled: 12/08/08 13:22**				
Antimony	EPA 6020	ND	-----	0.508	mg/kg dry	1x	8120346	12/10/08 10:27	12/14/08 11:20	
Arsenic	"	**0.829**	-----	0.508	"	"	"	"	12/16/08 01:44	
Beryllium	"	ND	-----	0.508	"	"	"	"	12/18/08 07:44	
Cadmium	"	ND	-----	0.508	"	"	"	"	12/14/08 11:20	
Chromium	"	**10.4**	-----	0.508	"	"	"	"	"	
Copper	"	**13.6**	-----	2.03	"	"	"	"	"	
Lead	"	**2.00**	-----	0.508	"	"	"	"	"	
Nickel	"	**25.8**	-----	1.02	"	"	"	"	"	
Selenium	"	ND	-----	0.508	"	"	"	"	"	
Silver	"	ND	-----	0.508	"	"	"	"	"	
Thallium	"	ND	-----	0.508	"	"	"	"	12/18/08 07:44	
Zinc	"	**24.2**	-----	2.03	"	"	"	"	12/14/08 11:20	
PRL0286-08 (TP-30/S-1)			**Soil**			**Sampled: 12/08/08 13:39**				
Antimony	EPA 6020	ND	-----	0.514	mg/kg dry	1x	8120346	12/10/08 10:27	12/14/08 11:28	
Arsenic	"	**0.950**	-----	0.514	"	"	"	"	12/16/08 01:52	
Beryllium	"	ND	-----	0.514	"	"	"	"	12/18/08 07:52	
Cadmium	"	ND	-----	0.514	"	"	"	"	12/14/08 11:28	
Chromium	"	**13.3**	-----	0.514	"	"	"	"	"	
Copper	"	**14.9**	-----	2.05	"	"	"	"	"	
Lead	"	**2.25**	-----	0.514	"	"	"	"	"	
Nickel	"	**36.9**	-----	1.03	"	"	"	"	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Total Metals per EPA 6000/7000 Series Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0286-08 (TP-30/S-1)			**Soil**			**Sampled: 12/08/08 13:39**				
Selenium	EPA 6020	ND	-----	0.514	mg/kg dry	1x	8120346	12/10/08 10:27	12/14/08 11:28	
Silver	"	ND	-----	0.514	"	"	"	"	"	
Thallium	"	ND	-----	0.514	"	"	"	"	12/18/08 07:52	
Zinc	"	**28.6**	-----	2.05	"	"	"	"	12/14/08 11:28	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Total Mercury per EPA Method 7471A

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0286-01 (TP-24/S-1)			**Soil**			**Sampled: 12/08/08 07:57**				
Mercury	EPA 7471A	ND	----	0.0931	mg/kg dry	1x	8120350	12/10/08 10:45	12/10/08 15:37	
PRL0286-02 (TP-24/S-2)			**Soil**			**Sampled: 12/08/08 08:18**				
Mercury	EPA 7471A	ND	----	0.0952	mg/kg dry	1x	8120350	12/10/08 10:45	12/10/08 15:39	
PRL0286-03 (TP-25/S-1)			**Soil**			**Sampled: 12/08/08 08:54**				
Mercury	EPA 7471A	ND	----	0.104	mg/kg dry	1x	8120350	12/10/08 10:45	12/10/08 15:41	
PRL0286-04 (TP-26/S-1)			**Soil**			**Sampled: 12/08/08 09:24**				
Mercury	EPA 7471A	ND	----	0.0973	mg/kg dry	1x	8120350	12/10/08 10:45	12/10/08 15:43	
PRL0286-05 (TP-27/S-1)			**Soil**			**Sampled: 12/08/08 10:35**				
Mercury	EPA 7471A	ND	----	0.0926	mg/kg dry	1x	8120350	12/10/08 10:45	12/10/08 15:52	
PRL0286-06 (TP-28/S-2)			**Soil**			**Sampled: 12/08/08 12:04**				
Mercury	EPA 7471A	ND	----	0.0894	mg/kg dry	1x	8120350	12/10/08 10:45	12/10/08 15:55	
PRL0286-07 (TP-29/S-1)			**Soil**			**Sampled: 12/08/08 13:22**				
Mercury	EPA 7471A	ND	----	0.0722	mg/kg dry	1x	8120350	12/10/08 10:45	12/10/08 15:57	
PRL0286-08 (TP-30/S-1)			**Soil**			**Sampled: 12/08/08 13:39**				
Mercury	EPA 7471A	ND	----	0.0811	mg/kg dry	1x	8120350	12/10/08 10:45	12/10/08 15:59	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Polychlorinated Biphenyls per EPA Method 8082

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0286-02 (TP-24/S-2)			**Soil**			**Sampled: 12/08/08 08:18**				
Aroclor 1016	EPA 8082	ND	----	36.4	ug/kg dry	1x	8120428	12/12/08 12:00	12/19/08 16:15	
Aroclor 1221	"	ND	----	73.3	"	"	"	"	"	
Aroclor 1232	"	ND	----	36.4	"	"	"	"	"	
Aroclor 1242	"	ND	----	36.4	"	"	"	"	"	
Aroclor 1248	"	ND	----	36.4	"	"	"	"	"	
Aroclor 1254	"	ND	----	36.4	"	"	"	"	"	
Aroclor 1260	"	ND	----	36.4	"	"	"	"	"	
Surrogate(s): Decachlorobiphenyl				*104%*		*16 - 149 %*	"			"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Volatile Organic Compounds per EPA Method 8260B

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0286-02 (TP-24/S-2)			**Soil**			**Sampled: 12/08/08 08:18**				
Acetone	EPA 8260B	ND	----	2570	ug/kg dry	1x	8120284	12/09/08 10:30	12/09/08 20:16	
Benzene	"	ND	----	20.6	"	"	"	"	"	
Bromobenzene	"	ND	----	103	"	"	"	"	"	
Bromochloromethane	"	ND	----	103	"	"	"	"	"	
Bromodichloromethane	"	ND	----	103	"	"	"	"	"	
Bromoform	"	ND	----	103	"	"	"	"	"	
Bromomethane	"	ND	----	515	"	"	"	"	"	
2-Butanone (MEK)	"	ND	----	1030	"	"	"	"	"	
n-Butylbenzene	"	ND	----	515	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	103	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	103	"	"	"	"	"	
Carbon disulfide	"	ND	----	1030	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	103	"	"	"	"	"	
Chlorobenzene	"	ND	----	103	"	"	"	"	"	
Chloroethane	"	ND	----	103	"	"	"	"	"	
Chloroform	"	ND	----	103	"	"	"	"	"	
Chloromethane	"	ND	----	515	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	103	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	103	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	515	"	"	"	"	"	
Dibromochloromethane	"	ND	----	103	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	103	"	"	"	"	"	
Dibromomethane	"	ND	----	103	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	103	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	103	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	103	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	515	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	103	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	103	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	103	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	103	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	103	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	103	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	103	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	103	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	103	"	"	"	"	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Volatile Organic Compounds per EPA Method 8260B

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0286-02 (TP-24/S-2)			**Soil**			**Sampled: 12/08/08 08:18**				
cis-1,3-Dichloropropene	EPA 8260B	ND	-----	103	ug/kg dry	1x	8120284	12/09/08 10:30	12/09/08 20:16	
trans-1,3-Dichloropropene	"	ND	-----	103	"	"	"	"	"	
Ethylbenzene	"	ND	-----	103	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	412	"	"	"	"	"	
2-Hexanone	"	ND	-----	1030	"	"	"	"	"	
Isopropylbenzene	"	ND	-----	206	"	"	"	"	"	
p-Isopropyltoluene	"	ND	-----	206	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	-----	515	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	-----	103	"	"	"	"	"	
Methylene chloride	"	ND	-----	515	"	"	"	"	"	
Naphthalene	"	ND	-----	206	"	"	"	"	"	
n-Propylbenzene	"	ND	-----	103	"	"	"	"	"	
Styrene	"	ND	-----	103	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	-----	103	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	-----	103	"	"	"	"	"	
Tetrachloroethene	"	ND	-----	103	"	"	"	"	"	
Toluene	"	ND	-----	103	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	-----	103	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	103	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	-----	103	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	-----	103	"	"	"	"	"	
Trichloroethene	"	ND	-----	103	"	"	"	"	"	
Trichlorofluoromethane	"	ND	-----	103	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	-----	103	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	-----	103	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	-----	103	"	"	"	"	"	
Vinyl chloride	"	ND	-----	103	"	"	"	"	"	
o-Xylene	"	ND	-----	103	"	"	"	"	"	
m,p-Xylene	"	ND	-----	206	"	"	"	"	"	

Surrogate(s):	*4-BFB*	*95.6%*	*75 - 125 %*	"	"
	1,2-DCA-d4	*102%*	*75 - 125 %*	"	"
	Dibromofluoromethane	*96.4%*	*75 - 125 %*	"	"
	Toluene-d8	*102%*	*75 - 125 %*	"	"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Polynuclear Aromatic Compounds per EPA 8270M-SIM

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0286-02 (TP-24/S-2)			**Soil**			**Sampled: 12/08/08 08:18**				
Acenaphthene	EPA 8270m	ND	----	14.6	ug/kg dry	1x	8120332	12/10/08 09:10	12/10/08 20:20	
Acenaphthylene	"	ND	----	14.6	"	"	"	"	"	
Anthracene	"	ND	----	14.6	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	14.6	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	14.6	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	14.6	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	14.6	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	14.6	"	"	"	"	"	
Chrysene	"	ND	----	14.6	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	14.6	"	"	"	"	"	
Fluoranthene	"	ND	----	14.6	"	"	"	"	"	
Fluorene	"	ND	----	14.6	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	14.6	"	"	"	"	"	
Naphthalene	"	ND	----	14.6	"	"	"	"	"	
Phenanthrene	"	ND	----	14.6	"	"	"	"	"	
Pyrene	"	ND	----	14.6	"	"	"	"	"	
Surrogate(s):	*Fluorene-d10*			*92.0%*		*24 - 125 %*	"			"
	Pyrene-d10			*85.4%*		*41 - 141 %*	"			"
	Benzo (a) pyrene-d12			*86.9%*		*38 - 143 %*	"			"

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Percent Dry Weight (Solids) per Standard Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0286-01 (TP-24/S-1)			**Soil**			**Sampled: 12/08/08 07:57**				
% Solids	NCA SOP	**93.4**	-----	0.0100	% by Weight	1x	8120419	12/11/08 17:19	12/11/08 17:19	
PRL0286-02 (TP-24/S-2)			**Soil**			**Sampled: 12/08/08 08:18**				
% Solids	NCA SOP	**91.3**	-----	0.0100	% by Weight	1x	8120419	12/11/08 17:19	12/11/08 17:19	
PRL0286-03 (TP-25/S-1)			**Soil**			**Sampled: 12/08/08 08:54**				
% Solids	NCA SOP	**95.7**	-----	0.0100	% by Weight	1x	8120419	12/11/08 17:19	12/11/08 17:19	
PRL0286-04 (TP-26/S-1)			**Soil**			**Sampled: 12/08/08 09:24**				
% Solids	NCA SOP	**93.4**	-----	0.0100	% by Weight	1x	8120419	12/11/08 17:19	12/11/08 17:19	
PRL0286-05 (TP-27/S-1)			**Soil**			**Sampled: 12/08/08 10:35**				
% Solids	NCA SOP	**95.1**	-----	0.0100	% by Weight	1x	8120419	12/11/08 17:19	12/11/08 17:19	
PRL0286-06 (TP-28/S-2)			**Soil**			**Sampled: 12/08/08 12:04**				
% Solids	NCA SOP	**89.8**	-----	0.0100	% by Weight	1x	8120419	12/11/08 17:19	12/11/08 17:19	
PRL0286-07 (TP-29/S-1)			**Soil**			**Sampled: 12/08/08 13:22**				
% Solids	NCA SOP	**95.5**	-----	0.0100	% by Weight	1x	8120419	12/11/08 17:19	12/11/08 17:19	
PRL0286-08 (TP-30/S-1)			**Soil**			**Sampled: 12/08/08 13:39**				
% Solids	NCA SOP	**94.5**	-----	0.0100	% by Weight	1x	8120419	12/11/08 17:19	12/11/08 17:19	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Organic Carbon, Total (TOC)

TestAmerica Tacoma

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0286-02 (TP-24/S-2)			**Soil**			**Sampled: 12/08/08 08:18**				
Total Organic Carbon	9060	ND	----	2000	mg/Kg	1x	39395	12/23/08 08:56	12/23/08 08:56	

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Hydrocarbon Identification per NW-TPH Methodology - Laboratory Quality Control Results

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QC Batch: 8120341 **Soil Preparation Method: EPA 3550 Fuels**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120341-BLK1)								**Extracted: 12/10/08 11:00**						
Gasoline Range Hydrocarbons	NWTPH HCID	ND	---	20.0	mg/kg wet	1x	--	--	--	--	--	--	12/10/08 15:26	
Diesel Range Hydrocarbons	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
Heavy Oil Range Hydrocarbons	"	ND	---	100	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 106%*			*Limits: 50-150%*	"							*12/10/08 15:26*	
Duplicate (8120341-DUP1)					**QC Source: PRL0276-11**			**Extracted: 12/10/08 11:00**						
Gasoline Range Hydrocarbons	NWTPH HCID	DET	---	23.2	mg/kg dry	1x	87.3	--	--	--	20.7%	(50)	12/10/08 15:56	
Diesel Range Hydrocarbons	"	DET	---	58.0	"	"	125	--	--	--	49.7%	"	"	
Heavy Oil Range Hydrocarbons	"	ND	---	116	"	"	ND	--	--	--	NR	"	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 107%*			*Limits: 50-150%*	"							*12/10/08 15:56*	

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390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

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QC Batch: 8120346 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120346-BLK1)								Extracted: 12/10/08 10:27						
Antimony	EPA 6020	ND	---	0.485	mg/kg wet	1x	--	--	--	--	--	--	12/14/08 07:47	
Arsenic	"	ND	---	0.485	"	"	--	--	--	--	--	--	12/15/08 23:22	
Beryllium	"	ND	---	0.485	"	"	--	--	--	--	--	--	12/18/08 05:22	
Cadmium	"	ND	---	0.485	"	"	--	--	--	--	--	--	12/14/08 07:47	
Chromium	"	ND	---	0.485	"	"	--	--	--	--	--	--	"	
Copper	"	ND	---	1.94	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.485	"	"	--	--	--	--	--	--	"	
Nickel	"	ND	---	0.971	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.485	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.485	"	"	--	--	--	--	--	--	"	
Thallium	"	ND	---	0.485	"	"	--	--	--	--	--	--	12/18/08 05:22	
Zinc	"	ND	---	1.94	"	"	--	--	--	--	--	--	12/14/08 07:47	
LCS (8120346-BS1)								Extracted: 12/10/08 10:27						
Antimony	EPA 6020	4.36	---	0.481	mg/kg wet	1x	--	4.81	90.7%	(80-120)	--	--	12/14/08 07:55	
Arsenic	"	9.72	---	0.481	"	"	--	9.62	101%	"	--	--	12/15/08 23:30	
Beryllium	"	10.1	---	0.481	"	"	--	"	105%	"	--	--	12/18/08 05:30	
Cadmium	"	9.43	---	0.481	"	"	--	"	98.0%	"	--	--	12/14/08 07:55	
Chromium	"	9.76	---	0.481	"	"	--	"	102%	"	--	--	"	
Copper	"	10.1	---	1.92	"	"	--	"	105%	"	--	--	"	
Lead	"	9.09	---	0.481	"	"	--	"	94.6%	"	--	--	"	
Nickel	"	10.1	---	0.962	"	"	--	"	105%	"	--	--	"	
Selenium	"	9.66	---	0.481	"	"	--	"	100%	"	--	--	"	
Silver	"	4.81	---	0.481	"	"	--	4.81	100%	"	--	--	"	
Thallium	"	9.26	---	0.481	"	"	--	9.62	96.4%	"	--	--	12/18/08 05:30	
Zinc	"	9.65	---	1.92	"	"	--	"	100%	"	--	--	12/14/08 07:55	
Duplicate (8120346-DUP1)				QC Source: PRL0215-05				Extracted: 12/10/08 10:27						
Antimony	EPA 6020	ND	---	0.503	mg/kg dry	1x	ND	--	--	--	36.6%	(40)	12/14/08 09:15	
Arsenic	"	1.40	---	0.503	"	"	2.32	--	--	--	49.0%	"	12/15/08 23:46	R4
Beryllium	"	ND	---	0.503	"	"	ND	--	--	--	2.63%	"	12/18/08 05:45	
Cadmium	"	ND	---	0.503	"	"	ND	--	--	--	55.3%	"	12/14/08 09:15	R4
Chromium	"	14.7	---	0.503	"	"	14.9	--	--	--	1.73%	"	"	
Copper	"	26.1	---	2.01	"	"	28.6	--	--	--	9.41%	"	"	
Lead	"	25.9	---	0.503	"	"	37.4	--	--	--	36.2%	"	"	
Nickel	"	34.9	---	1.01	"	"	35.2	--	--	--	0.919%	"	"	
Selenium	"	ND	---	0.503	"	"	ND	--	--	--	26.7%	"	"	
Silver	"	ND	---	0.503	"	"	ND	--	--	--	8.00%	"	"	
Thallium	"	ND	---	0.503	"	"	ND	--	--	--	45.3%	"	12/18/08 05:45	R4

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Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

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QC Batch: 8120346 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8120346-DUP1)				**QC Source: PRL0215-05**				**Extracted: 12/10/08 10:27**						
Zinc	EPA 6020	62.9	---	2.01	mg/kg dry	1x	104	--	--	--	49.0%	(40)	12/14/08 09:15	R2
Matrix Spike (8120346-MS1)				**QC Source: PRL0215-05**				**Extracted: 12/10/08 10:27**						
Antimony	EPA 6020	2.04	---	0.503	mg/kg dry	1x	0.211	5.03	36.3%	(70-130)	--	--	12/14/08 09:30	M8
Arsenic	"	10.8	---	0.503	"	"	2.32	10.1	84.1%	(75-125)	--	--	12/16/08 00:01	
Beryllium	"	9.13	---	0.503	"	"	0.388	"	86.8%	"	--	--	12/18/08 06:01	
Cadmium	"	10.2	---	0.503	"	"	0.302	"	98.1%	"	--	--	12/14/08 09:30	
Chromium	"	24.5	---	0.503	"	"	14.9	"	95.3%	"	--	--	"	
Copper	"	36.5	---	2.01	"	"	28.6	"	78.5%	"	--	--	"	
Lead	"	41.1	---	0.503	"	"	37.4	"	36.6%	"	--	--	"	M8
Nickel	"	44.5	---	1.01	"	"	35.2	"	92.0%	"	--	--	"	
Selenium	"	9.35	---	0.503	"	"	0.0856	"	92.1%	"	--	--	"	
Silver	"	5.12	---	0.503	"	"	0.131	5.03	99.2%	"	--	--	"	
Thallium	"	9.52	---	0.503	"	"	0.232	10.1	92.3%	"	--	--	12/18/08 06:01	
Zinc	"	84.2	---	2.01	"	"	104	"	-195%	"	--	--	12/14/08 09:30	MHA
Matrix Spike (8120346-MS2)				**QC Source: PRL0286-01**				**Extracted: 12/10/08 10:27**						
Antimony	EPA 6020	2.05	---	0.515	mg/kg dry	1x	ND	5.15	39.8%	(70-130)	--	--	12/14/08 10:33	M8
Arsenic	"	10.8	---	0.515	"	"	0.988	10.3	95.1%	(75-125)	--	--	12/16/08 00:56	
Beryllium	"	9.85	---	0.515	"	"	0.281	"	93.0%	"	--	--	12/18/08 06:57	
Cadmium	"	10.4	---	0.515	"	"	0.0676	"	100%	"	--	--	12/14/08 10:33	
Chromium	"	23.0	---	0.515	"	"	12.0	"	107%	"	--	--	"	
Copper	"	27.1	---	2.06	"	"	15.4	"	114%	"	--	--	"	
Lead	"	12.0	---	0.515	"	"	2.83	"	89.0%	"	--	--	"	
Nickel	"	44.0	---	1.03	"	"	33.0	"	107%	"	--	--	"	
Selenium	"	9.75	---	0.515	"	"	0.0468	"	94.2%	"	--	--	"	
Silver	"	5.48	---	0.515	"	"	0.0988	5.15	104%	"	--	--	"	
Thallium	"	9.61	---	0.515	"	"	0.0832	10.3	92.5%	"	--	--	12/18/08 06:57	
Zinc	"	39.9	---	2.06	"	"	27.4	"	121%	"	--	--	12/14/08 10:33	

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Total Mercury per EPA Method 7471A - Laboratory Quality Control Results

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QC Batch: 8120350 **Soil Preparation Method: EPA 7471A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120350-BLK1)								**Extracted: 12/10/08 10:45**						
Mercury	EPA 7471A	ND	---	0.100	mg/kg wet	1x	--	--	--	--	--	--	12/10/08 15:16	
LCS (8120350-BS1)								**Extracted: 12/10/08 10:45**						
Mercury	EPA 7471A	0.659	---	0.100	mg/kg wet	1x	--	0.625	105%	(80-120)	--	--	12/10/08 15:19	
LCS Dup (8120350-BSD1)								**Extracted: 12/10/08 10:45**						
Mercury	EPA 7471A	0.645	---	0.100	mg/kg wet	1x	--	0.625	103%	(80-120)	2.18%	(20)	12/10/08 15:23	
Duplicate (8120350-DUP1)				**QC Source: PRL0286-01**				**Extracted: 12/10/08 10:45**						
Mercury	EPA 7471A	ND	---	0.0911	mg/kg dry	1x	ND	--	--	--	NR	(40)	12/10/08 15:27	
Matrix Spike (8120350-MS1)				**QC Source: PRL0286-01**				**Extracted: 12/10/08 10:45**						
Mercury	EPA 7471A	0.639	---	0.0915	mg/kg dry	1x	ND	0.572	112%	(75-125)	--	--	12/10/08 15:29	
Matrix Spike Dup (8120350-MSD1)				**QC Source: PRL0286-01**				**Extracted: 12/10/08 10:45**						
Mercury	EPA 7471A	0.599	---	0.0862	mg/kg dry	1x	ND	0.539	111%	(75-125)	6.44%	(40)	12/10/08 15:33	

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Polychlorinated Biphenyls per EPA Method 8082 - Laboratory Quality Control Results

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QC Batch: 8120428 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120428-BLK1)								**Extracted: 12/12/08 12:00**						
Aroclor 1016	EPA 8082	ND	---	33.2	ug/kg wet	1x	--	--	--	--	--	--	12/19/08 17:43	
Aroclor 1221	"	ND	---	66.8	"	"	--	--	--	--	--	--	"	
Aroclor 1232	"	ND	---	33.2	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	33.2	"	"	--	--	--	--	--	--	"	
Aroclor 1248	"	ND	---	33.2	"	"	--	--	--	--	--	--	"	
Aroclor 1254	"	ND	---	33.2	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	33.2	"	"	--	--	--	--	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 96.6%*			*Limits: 16-149%*	*"*							*12/19/08 17:43*	
LCS (8120428-BS1)								**Extracted: 12/12/08 12:00**						
Aroclor 1016	EPA 8082	341	---	33.0	ug/kg wet	1x	--	330	103%	(57-135)	--	--	12/19/08 18:05	
Aroclor 1260	"	344	---	33.0	"	"	--	"	104%	(60-135)	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 98.9%*			*Limits: 16-149%*	*"*							*12/19/08 18:05*	
Matrix Spike (8120428-MS1)					**QC Source: PRL0220-03**			**Extracted: 12/12/08 12:00**						
Aroclor 1016	EPA 8082	439	---	44.6	ug/kg dry	1x	ND	446	98.4%	(37-145)	--	--	12/19/08 15:31	
Aroclor 1260	"	436	---	44.6	"	"	ND	"	97.7%	(25-144)	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 90.3%*			*Limits: 16-149%*	*"*							*12/19/08 15:31*	
Matrix Spike Dup (8120428-MSD1)					**QC Source: PRL0220-03**			**Extracted: 12/12/08 12:00**						
Aroclor 1016	EPA 8082	428	---	44.5	ug/kg dry	1x	ND	446	96.1%	(37-145)	2.48%	(26)	12/19/08 15:53	
Aroclor 1260	"	431	---	44.5	"	"	ND	"	96.8%	(25-144)	1.09%	(30)	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 91.0%*			*Limits: 16-149%*	*"*							*12/19/08 15:53*	

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Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

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QC Batch: 8120284 **Soil Preparation Method: EPA 5035A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120284-BLK1)								**Extracted: 12/09/08 09:00**						
Acetone	EPA 8260B	ND	---	2500	ug/kg wet	1x	--	--	--	--	--	--	12/09/08 13:28	
Benzene	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	499	"	"	--	--	--	--	--	--	"	
2-Butanone (MEK)	"	ND	---	998	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	499	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	998	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	499	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	499	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	499	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120284 **Soil Preparation Method: EPA 5035A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120284-BLK1)								**Extracted: 12/09/08 09:00**						
Hexachlorobutadiene	EPA 8260B	ND	---	399	ug/kg wet	1x	--	--	--	--	--	--	12/09/08 13:28	
2-Hexanone	"	ND	---	998	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	200	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	200	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	499	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	499	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	200	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	99.8	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	200	"	"	--	--	--	--	--	--	"	

Surrogate(s):	*4-BFB*	*Recovery:*	*93.0%*	*Limits:*	*75-125%*	*" 12/09/08 13:28*
	1,2-DCA-d4		*98.9%*		*75-125%*	*" "*
	Dibromofluoromethane		*95.8%*		*75-125%*	*" "*
	Toluene-d8		*97.2%*		*75-125%*	*" "*

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120284 **Soil Preparation Method: EPA 5035A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (8120284-BS1)								**Extracted: 12/09/08 09:00**						
Benzene	EPA 8260B	1810	---	19.9	ug/kg wet	1x	--	1990	91.2%	(81.9-125)	--	--	12/09/08 10:25	
Chlorobenzene	"	1900	---	99.5	"	"	--	"	95.3%	(79.2-125)	--	--	"	
1,1-Dichloroethene	"	1720	---	99.5	"	"	--	"	86.2%	(66.1-125)	--	--	"	
Toluene	"	1860	---	99.5	"	"	--	"	93.5%	(80-125)	--	--	"	
Trichloroethene	"	1860	---	99.5	"	"	--	"	93.5%	(76-125)	--	--	"	
Surrogate(s): 4-BFB		*Recovery: 97.6%*			*Limits: 75-125%*	"							*12/09/08 10:25*	
1,2-DCA-d4		*93.8%*			*75-125%*	"							"	
Dibromofluoromethane		*96.7%*			*75-125%*	"							"	
Toluene-d8		*97.4%*			*75-125%*	"							"	
Matrix Spike (8120284-MS1)					**QC Source: PRL0267-01**			**Extracted: 12/09/08 10:30**						
Benzene	EPA 8260B	2900	---	32.3	ug/kg dry	1x	ND	3230	90.0%	(68.5-125)	--	--	12/09/08 12:01	
Chlorobenzene	"	3060	---	161	"	"	ND	"	95.0%	(65.9-125)	--	--	"	
1,1-Dichloroethene	"	2860	---	161	"	"	ND	"	88.6%	(55.8-125)	--	--	"	
Toluene	"	3020	---	161	"	"	ND	"	93.6%	(70.3-125)	--	--	"	
Trichloroethene	"	2980	---	161	"	"	ND	"	92.3%	(65.5-125)	--	--	"	
Surrogate(s): 4-BFB		*Recovery: 98.6%*			*Limits: 75-125%*	"							*12/09/08 12:01*	
1,2-DCA-d4		*96.2%*			*75-125%*	"							"	
Dibromofluoromethane		*99.5%*			*75-125%*	"							"	
Toluene-d8		*99.6%*			*75-125%*	"							"	
Matrix Spike Dup (8120284-MSD1)					**QC Source: PRL0267-01**			**Extracted: 12/09/08 10:30**						
Benzene	EPA 8260B	2930	---	32.3	ug/kg dry	1x	ND	3230	90.9%	(68.5-125)	0.939%	(25)	12/09/08 12:30	
Chlorobenzene	"	3100	---	161	"	"	ND	"	96.2%	(65.9-125)	1.31%	"	"	
1,1-Dichloroethene	"	2950	---	161	"	"	ND	"	91.5%	(55.8-125)	3.22%	"	"	
Toluene	"	3090	---	161	"	"	ND	"	95.8%	(70.3-125)	2.38%	"	"	
Trichloroethene	"	2950	---	161	"	"	ND	"	91.5%	(65.5-125)	0.816%	"	"	
Surrogate(s): 4-BFB		*Recovery: 98.1%*			*Limits: 75-125%*	"							*12/09/08 12:30*	
1,2-DCA-d4		*96.2%*			*75-125%*	"							"	
Dibromofluoromethane		*97.7%*			*75-125%*	"							"	
Toluene-d8		*98.1%*			*75-125%*	"							"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120332 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8120332-BLK1)								Extracted: 12/10/08 09:10						
Acenaphthene	EPA 8270m	ND	---	13.4	ug/kg wet	1x	--	--	--	--	--	--	12/10/08 19:28	
Acenaphthylene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Surrogate(s): Fluorene-d10		*Recovery: 95.6%*			*Limits: 24-125%*	"							*12/10/08 19:28*	
Pyrene-d10		*78.1%*			*41-141%*	"							"	
Benzo (a) pyrene-d12		*78.2%*			*38-143%*	"							"	
LCS (8120332-BS1)								Extracted: 12/10/08 09:10						
Acenaphthene	EPA 8270m	162	---	13.3	ug/kg wet	1x	--	165	98.1%	(33-139)	--	--	12/10/08 19:02	
Benzo (a) pyrene	"	140	---	13.3	"	"	--	"	84.8%	(45-149)	--	--	"	
Pyrene	"	140	---	13.3	"	"	--	"	84.6%	(39-138)	--	--	"	
Surrogate(s): Fluorene-d10		*Recovery: 95.8%*			*Limits: 24-125%*	"							*12/10/08 19:02*	
Pyrene-d10		*82.3%*			*41-141%*	"							"	
Benzo (a) pyrene-d12		*83.7%*			*38-143%*	"							"	
Matrix Spike (8120332-MS1)					QC Source: PRL0182-01			Extracted: 12/10/08 09:10						
Acenaphthene	EPA 8270m	1240	---	362	ug/kg dry	20x	517	225	322%	(33-139)	--	--	12/11/08 16:37	MHA
Benzo (a) pyrene	"	148	---	362	"	"	ND	"	65.9%	(45-149)	--	--	"	
Pyrene	"	795	---	362	"	"	205	"	262%	(39-138)	--	--	"	MHA
Surrogate(s): Fluorene-d10		*Recovery: 179%*			*Limits: 24-125%*	"							*12/11/08 16:37*	*ZX*
Pyrene-d10		*224%*			*41-141%*	"							"	*ZX*
Benzo (a) pyrene-d12		*65.7%*			*38-143%*	"							"	*Z3*

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120332 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (8120332-MSD1)					**QC Source: PRL0182-01**			**Extracted: 12/10/08 09:10**						
Acenaphthene	EPA 8270m	1040	---	360	ug/kg dry	20x	517	224	234%	(33-139)	17.6%	(60)	12/11/08 17:06	MHA
Benzo (a) pyrene	"	159	---	360	"	"	ND	"	70.9%	(45-149)	6.77%	"	"	
Pyrene	"	569	---	360	"	"	205	"	162%	(39-138)	33.2%	"	"	MHA
Surrogate(s): Fluorene-d10		*Recovery: 151%*			*Limits: 24-125%*	"							*12/11/08 17:06*	*ZX*
Pyrene-d10		*150%*			*41-141%*	"							*"*	*ZX*
Benzo (a) pyrene-d12		*67.7%*			*38-143%*	"							*"*	*Z3*

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Percent Dry Weight (Solids) per Standard Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8120419 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8120419-DUP1)					**QC Source: PRL0352-32**				**Extracted: 12/11/08 17:19**					
% Solids	NCA SOP	89.8	---	0.0100	% by Weight	1x	89.1	--	--	--	0.783%	(20)	12/11/08 17:19	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Organic Carbon, Total (TOC) - Laboratory Quality Control Results

TestAmerica Tacoma

QC Batch: 39395 **Soil Preparation Method: NA**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (122501S)				**QC Source: PRL0286-02**				**Extracted: 12/23/08 08:56**						
Total Organic Carbon	9060	19300	---	2000	mg/Kg	1x	ND	19500	99%	(76-128)	--	--	12/23/08 08:56	
Duplicate (122501X)				**QC Source: PRL0286-02**				**Extracted: 12/23/08 08:56**						
Total Organic Carbon	9060	ND	---	2000	mg/Kg	1x	ND	--	--	--	NC%	(20)	12/23/08 08:56	
Blank (580-39395-1)				**QC Source:**				**Extracted: 12/23/08 08:56**						
Total Organic Carbon	9060	ND	---	2000	mg/Kg	1x	--	--	--	--	--	--	12/23/08 08:56	
LCS (580-39395-2)				**QC Source:**				**Extracted: 12/23/08 08:56**						
Total Organic Carbon	9060	4300	---	2000	mg/Kg	1x	--	3400	126%	(13-187)	--	--	12/23/08 08:56	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	12/26/08 13:17

Notes and Definitions

Report Specific Notes:

M8	-	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
MHA	-	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
R2	-	The RPD exceeded the acceptance limit.
R4	-	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
Z3	-	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
ZX	-	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Richard D. Reid, Project Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave,Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: PR 10286

CLIENT: PBS Engineering + Environmental

REPORT TO: Toby Scott
ADDRESS: 350 NE Emerson Bend OR 97701
PHONE: 541-388-9910 FAX: 541-382-5116

PROJECT NAME: DSL
PROJECT NUMBER: 80416.000 Phase 2
SAMPLED BY:

INVOICE TO: PBS - Bend

P.O. NUMBER:

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: ~~10~~ STD. | 7 | 5 | 4 | 3 | 2 | 1 | <1

Petroleum Hydrocarbon Analyses: ~~5~~ STD. | 4 | 3 | 2 | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE / REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	TPH - HCID	EPA Priority Metals (13)	EPA 8270 PAH	VOC EPA 8260B	PCB EPA 8082	TOC EPA 415.1	Organochlorine Pesticides EPA 8081A		HOLD					MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	TP-24/S-1	12-8-08 / 757	X	X												S	3		
2	TP-24/S-2	818	X	X	X	X	X	X											
3	TP-25/S-1	854	X	X															
4	TP-26/S-1	924	X	X															
5	TP-27/S-1	1035	X	X															
6	TP-28/S-2	1204	X	X															
7	TP-29/S-1	1322	X	X															
8	TP-30/S-1	1339	X	X															
9	TP-28/S-1	12-8-08 1158									X								
10	TP-30/S 2	12-8-08 1355									X								

RELEASED BY: Doreen Hood	DATE: 12-8-08	RECEIVED BY: Imanna Eble	DATE: 12/9/08
PRINT NAME: Doreen Hoodelson	FIRM: PBS	PRINT NAME: Brianna Farley	FIRM: TAP
	TIME: 1530		TIME: 0915
RELEASED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME:	FIRM:	PRINT NAME:	FIRM:
	TIME:		TIME:

ADDITIONAL REMARKS:

TEMP: 4.1c

PAGE 1 OF 1

TAL-1000(0408)

TestAmerica Sample Receipt Checklist

Received by: *(section A)*
Date: 12/9/08
Time: 1915
Initials: TF

Unpacked by: *(section B)*
Date: 12/9/08
Initials: TF

Logged-in by:
Date: 12/9/08
Initials: [illegible]

Work Order No. PR10286
Client: PBS Bend
Project: DSL

Temperature out of range:
___Not enough Ice
___No Ice
___Ice Melted
___W/in 4 Hours
___Other:_____

***ESI Clients *(see Section C)*

Digi #1
Digi #2

Cooler Temperature (IR): 4.1 °C plastic (glass) NA *(oil/air samples, ESI client)*

Temperature Blank: _____ °C

A

Custody Seals: (#____)

Signature: Y N Dated:_____
X None

Container Type:
1 #Cooler(s)
____#Box(s)
____None (___#Other:_____)

Coolant Type:
____Gel Ice
X Loose Ice
____None

Packing Material:
X Bubble Bags
____Styrofoam Cubbies
____Peanuts
____None (____Other:_____)

Received from:
____TA Courier
____Senvoy
____UPS
X Fed Ex
____Client
____TDP
____DHL
____SDS
____Mid-Valley
____GS/TA
____GS/Senvoy
____Other:
_____

B

Sample Status:
(If N circled, see NOD)

General:			
Intact?	Y	N	
# Containers Match COC?	Y	N	none given
IDs Match COC?	Y	N	
For Analyses Requested:			
Cyanide Checked?	Y	N	NA
Correct Type & Preservation?	Y	N	
Adequate Volume?	Y	N	
Within Hold Time?	Y	N	
Volatiles/ Oil Quality:			
VOAs/ Syringes free of Headspace?	Y	N	NA
TB on COC? not provided	Y	N	NA
Metals:			
HNO3 Preserved?	Y	N	NA
Dissolved Metals Filtered?	Y	N	NA

FED EX/ UPS: Was the tracking paper keepable? YES NO

If circled NO, what is the Tracking number? _____

FED EX Goldstreak UPS DHL Other: _____

C

***ESI Clients Only:

Temperature Blank: _____ °C not provided Digi: # 1 #2

All preserved bottles checked	Y	N	NA	*(voas/soils/all unp.)*
All preserved accordingly?	Y	N *(see NOD)*	NA	*(voas/soils/all unp.)*

Project Managers:

Comments:_____

*PM Reviewed:*_____ *(Initial/Date)*

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

ORELAP#: OR100021

Amended Report

February 02, 2009

Toby Scott
PBS Engineering - Bend
390 NE Emerson Ave Suite C
Bend, OR 97701

RE: DSL

Enclosed are the results of analyses for samples received by the laboratory on 12/31/08 10:00.
The following list is a summary of the Work Orders contained in this report, generated on 02/02/09 12:15.

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

Work Order	Project	ProjectNumber
PRL0903	DSL	80416 Phase 2

TestAmerica Portland

Estella K Rieben

Estella Rieben, Project Manager

Amended Report

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Amended Report

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VP-2 /S-2	PRL0903-01	Soil	12/30/08 09:15	12/31/08 10:00

TestAmerica Portland

Estella K Rieben

Estella Rieben, Project Manager

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Amended Report

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Analytical Case Narrative

TestAmerica - Portland, OR

PRL0903

This is an "amended report". The PCB analysis was initially missed and is now included in this data set.

TestAmerica Portland

Estella K Rieben

Estella Rieben, Project Manager

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Amended Report

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Hydrocarbon Identification per NW-TPH Methodology

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0903-01 (VP-2 /S-2)			**Soil**			**Sampled: 12/30/08 09:15**				
Gasoline Range Hydrocarbons	NWTPH HCID	ND	----	22.5	mg/kg dry	1x	9010103	01/06/09 15:20	01/06/09 17:14	
Diesel Range Hydrocarbons	"	ND	----	56.3	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	"	ND	----	113	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane				*97.5%*		*50 - 150 %*	"			"

TestAmerica Portland

Estella K Rieben

Estella Rieben, Project Manager

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Amended Report

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0903-01 (VP-2 /S-2)			**Soil**			**Sampled: 12/30/08 09:15**				
Antimony	EPA 6020	ND	-----	0.547	mg/kg dry	1x	9010069	01/05/09 13:59	01/06/09 18:07	
Arsenic	"	ND	-----	0.547	"	"	"	"	"	
Beryllium	"	ND	-----	0.547	"	"	"	"	"	
Cadmium	"	ND	-----	0.547	"	"	"	"	"	
Chromium	"	**24.6**	-----	0.547	"	"	"	"	"	
Copper	"	**31.1**	-----	2.19	"	"	"	"	01/07/09 13:18	
Lead	"	**0.946**	-----	0.547	"	"	"	"	01/06/09 18:07	
Nickel	"	**78.4**	-----	1.09	"	"	"	"	"	
Selenium	"	ND	-----	0.547	"	"	"	"	"	
Silver	"	ND	-----	0.547	"	"	"	"	"	
Thallium	"	ND	-----	0.547	"	"	"	"	"	
Zinc	"	**32.4**	-----	2.19	"	"	"	"	"	

TestAmerica Portland

Estella K Rieben

Estella Rieben, Project Manager

Amended Report

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Amended Report

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Total Mercury per EPA Method 7471A

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0903-01 (VP-2 /S-2)				**Soil**		**Sampled: 12/30/08 09:15**				
Mercury	EPA 7471A	ND	----	0.0921	mg/kg dry	1x	9010125	01/06/09 16:13	01/07/09 16:11	

TestAmerica Portland

Estella K Rieben

Estella Rieben, Project Manager

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Amended Report

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Polychlorinated Biphenyls per EPA Method 8082

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0903-01 (VP-2 /S-2)			**Soil**			**Sampled: 12/30/08 09:15**				**H**
Aroclor 1016	EPA 8082	ND	----	37.4	ug/kg dry	1x	9010787	01/27/09 17:35	01/29/09 04:36	
Aroclor 1221	"	ND	----	75.2	"	"	"	"	"	
Aroclor 1232	"	ND	----	37.4	"	"	"	"	"	
Aroclor 1242	"	ND	----	37.4	"	"	"	"	"	
Aroclor 1248	"	ND	----	37.4	"	"	"	"	"	
Aroclor 1254	"	ND	----	37.4	"	"	"	"	"	
Aroclor 1260	"	ND	----	37.4	"	"	"	"	"	
Surrogate(s): Decachlorobiphenyl				*94.2%*		*16 - 149 %*	"			"

TestAmerica Portland

Estella K Rieben

Estella Rieben, Project Manager

Amended Report

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Amended Report

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Volatile Organic Compounds per EPA Method 8260B

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0903-01 (VP-2 /S-2)			**Soil**			**Sampled: 12/30/08 09:15**				
Acetone	EPA 8260B	ND	----	2750	ug/kg dry	1x	9010015	01/02/09 10:17	01/02/09 13:36	
Benzene	"	ND	----	22.0	"	"	"	"	"	
Bromobenzene	"	ND	----	110	"	"	"	"	"	
Bromochloromethane	"	ND	----	110	"	"	"	"	"	
Bromodichloromethane	"	ND	----	110	"	"	"	"	"	
Bromoform	"	ND	----	110	"	"	"	"	"	
Bromomethane	"	ND	----	551	"	"	"	"	"	
2-Butanone (MEK)	"	ND	----	1100	"	"	"	"	"	
n-Butylbenzene	"	ND	----	551	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	110	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	110	"	"	"	"	"	
Carbon disulfide	"	ND	----	1100	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	110	"	"	"	"	"	
Chlorobenzene	"	ND	----	110	"	"	"	"	"	
Chloroethane	"	ND	----	110	"	"	"	"	"	
Chloroform	"	ND	----	110	"	"	"	"	"	
Chloromethane	"	ND	----	551	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	110	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	110	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	551	"	"	"	"	"	
Dibromochloromethane	"	ND	----	110	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	110	"	"	"	"	"	
Dibromomethane	"	ND	----	110	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	110	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	110	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	110	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	551	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	110	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	110	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	110	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	110	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	110	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	110	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	110	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	110	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	110	"	"	"	"	"	

TestAmerica Portland

Estella K Rieben

Estella Rieben, Project Manager

Amended Report

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Volatile Organic Compounds per EPA Method 8260B

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0903-01 (VP-2 /S-2)			**Soil**			**Sampled: 12/30/08 09:15**				
cis-1,3-Dichloropropene	EPA 8260B	ND	-----	110	ug/kg dry	1x	9010015	01/02/09 10:17	01/02/09 13:36	
trans-1,3-Dichloropropene	"	ND	-----	110	"	"	"	"	"	
Ethylbenzene	"	ND	-----	110	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	441	"	"	"	"	"	
2-Hexanone	"	ND	-----	1100	"	"	"	"	"	
Isopropylbenzene	"	ND	-----	220	"	"	"	"	"	
p-Isopropyltoluene	"	ND	-----	220	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	-----	551	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	-----	110	"	"	"	"	"	
Methylene chloride	"	ND	-----	551	"	"	"	"	"	
Naphthalene	"	ND	-----	220	"	"	"	"	"	
n-Propylbenzene	"	ND	-----	110	"	"	"	"	"	
Styrene	"	ND	-----	110	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	-----	110	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	-----	110	"	"	"	"	"	
Tetrachloroethene	"	ND	-----	110	"	"	"	"	"	
Toluene	"	ND	-----	110	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	-----	110	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	110	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	-----	110	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	-----	110	"	"	"	"	"	
Trichloroethene	"	ND	-----	110	"	"	"	"	"	
Trichlorofluoromethane	"	ND	-----	110	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	-----	110	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	-----	110	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	-----	110	"	"	"	"	"	
Vinyl chloride	"	ND	-----	110	"	"	"	"	"	
o-Xylene	"	ND	-----	110	"	"	"	"	"	
m,p-Xylene	"	ND	-----	220	"	"	"	"	"	

Surrogate(s):	*4-BFB*	*97.4%*	*75 - 125 %*	*0.01x*	"
	1,2-DCA-d4	*98.6%*	*75 - 125 %*	"	"
	Dibromofluoromethane	*95.8%*	*75 - 125 %*	"	"
	Toluene-d8	*100%*	*75 - 125 %*	"	"

TestAmerica Portland

Estella K Rieben

Estella Rieben, Project Manager

Amended Report

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Amended Report

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Polynuclear Aromatic Compounds per EPA 8270M-SIM

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0903-01 (VP-2 /S-2)			**Soil**			**Sampled: 12/30/08 09:15**				
Acenaphthene	EPA 8270m	ND	----	15.1	ug/kg dry	1x	9010132	01/07/09 08:35	01/07/09 15:31	
Acenaphthylene	"	ND	----	15.1	"	"	"	"	"	
Anthracene	"	ND	----	15.1	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	15.1	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	15.1	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	15.1	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	15.1	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	15.1	"	"	"	"	"	
Chrysene	"	ND	----	15.1	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	15.1	"	"	"	"	"	
Fluoranthene	"	ND	----	15.1	"	"	"	"	"	
Fluorene	"	ND	----	15.1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	15.1	"	"	"	"	"	
Naphthalene	"	ND	----	15.1	"	"	"	"	"	
Phenanthrene	"	ND	----	15.1	"	"	"	"	"	
Pyrene	"	ND	----	15.1	"	"	"	"	"	
Surrogate(s):	*Fluorene-d10*			*75.8%*		*24 - 125 %*	"			"
	Pyrene-d10			*68.6%*		*41 - 141 %*	"			"
	Benzo (a) pyrene-d12			*66.3%*		*38 - 143 %*	"			"

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Estella Rieben, Project Manager

Amended Report

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Amended Report

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Percent Dry Weight (Solids) per Standard Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0903-01 (VP-2 /S-2)				**Soil**		**Sampled: 12/30/08 09:15**				
% Solids	NCA SOP	**88.8**	-----	0.0100	% by Weight	1x	9010036	01/02/09 14:46	01/02/09 14:46	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Organic Carbon, Total (TOC)

TestAmerica Tacoma

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRL0903-01 (VP-2 /S-2)			**Soil**			**Sampled: 12/30/08 09:15**				
Total Organic Carbon	9060 STD	ND	----	2000	mg/Kg	1x	39933	01/15/09 14:56	01/15/09 14:56	

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Amended Report

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Hydrocarbon Identification per NW-TPH Methodology - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9010103 **Soil Preparation Method: EPA 3550 Fuels**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9010103-BLK1)								**Extracted: 01/06/09 15:20**						
Gasoline Range Hydrocarbons	NWTPH HCID	ND	---	20.0	mg/kg wet	1x	--	--	--	--	--	--	01/06/09 16:15	
Diesel Range Hydrocarbons	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
Heavy Oil Range Hydrocarbons	"	ND	---	100	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 115%*			*Limits: 50-150%*	"							*01/06/09 16:15*	
Duplicate (9010103-DUP1)					**QC Source: PRL0903-01**			**Extracted: 01/06/09 15:20**						
Gasoline Range Hydrocarbons	NWTPH HCID	ND	---	22.5	mg/kg dry	1x	ND	--	--	--	NR	(50)	01/06/09 16:44	
Diesel Range Hydrocarbons	"	ND	---	56.3	"	"	ND	--	--	--	NR	"	"	
Heavy Oil Range Hydrocarbons	"	ND	---	113	"	"	ND	--	--	--	NR	"	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 104%*			*Limits: 50-150%*	"							*01/06/09 16:44*	

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Amended Report

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9010069 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9010069-BLK1)								Extracted: 01/05/09 13:59						
Antimony	EPA 6020	ND	---	0.485	mg/kg wet	1x	--	--	--	--	--	--	01/06/09 17:53	
Arsenic	"	ND	---	0.485	"	"	--	--	--	--	--	--	"	
Beryllium	"	ND	---	0.485	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.485	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.485	"	"	--	--	--	--	--	--	"	
Copper	"	ND	---	1.94	"	"	--	--	--	--	--	--	01/07/09 13:03	
Lead	"	ND	---	0.485	"	"	--	--	--	--	--	--	01/06/09 17:53	
Nickel	"	ND	---	0.971	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.485	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.485	"	"	--	--	--	--	--	--	"	
Thallium	"	ND	---	0.485	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	1.94	"	"	--	--	--	--	--	--	"	
LCS (9010069-BS1)								Extracted: 01/05/09 13:59						
Antimony	EPA 6020	4.67	---	0.485	mg/kg wet	1x	--	4.85	96.1%	(80-120)	--	--	01/06/09 18:00	
Arsenic	"	8.93	---	0.485	"	"	--	9.71	92.0%	"	--	--	"	
Beryllium	"	9.32	---	0.485	"	"	--	"	95.9%	"	--	--	"	
Cadmium	"	9.22	---	0.485	"	"	--	"	95.0%	"	--	--	"	
Chromium	"	8.88	---	0.485	"	"	--	"	91.4%	"	--	--	"	
Copper	"	8.18	---	1.94	"	"	--	"	84.3%	"	--	--	01/07/09 13:10	
Lead	"	8.99	---	0.485	"	"	--	"	92.6%	"	--	--	01/06/09 18:00	
Nickel	"	8.99	---	0.971	"	"	--	"	92.6%	"	--	--	"	
Selenium	"	9.03	---	0.485	"	"	--	"	93.0%	"	--	--	"	
Silver	"	4.62	---	0.485	"	"	--	4.85	95.2%	"	--	--	"	
Thallium	"	8.75	---	0.485	"	"	--	9.71	90.2%	"	--	--	"	
Zinc	"	9.25	---	1.94	"	"	--	"	95.3%	"	--	--	"	
Duplicate (9010069-DUP1)				QC Source: PRL0903-01				Extracted: 01/05/09 13:59						
Antimony	EPA 6020	ND	---	0.541	mg/kg dry	1x	ND	--	--	--	NR	(40)	01/06/09 18:14	
Arsenic	"	ND	---	0.541	"	"	ND	--	--	--	17.7%	"	"	
Beryllium	"	ND	---	0.541	"	"	ND	--	--	--	13.9%	"	"	
Cadmium	"	ND	---	0.541	"	"	ND	--	--	--	NR	"	"	
Chromium	"	29.6	---	0.541	"	"	24.6	--	--	--	18.5%	"	"	
Copper	"	35.1	---	2.17	"	"	31.1	--	--	--	12.1%	"	01/07/09 13:26	
Lead	"	0.823	---	0.541	"	"	0.946	--	--	--	13.9%	"	01/06/09 18:14	
Nickel	"	86.1	---	1.08	"	"	78.4	--	--	--	9.35%	"	"	
Selenium	"	ND	---	0.541	"	"	ND	--	--	--	7.73%	"	"	
Silver	"	ND	---	0.541	"	"	ND	--	--	--	0.966%	"	"	
Thallium	"	ND	---	0.541	"	"	ND	--	--	--	61.7%	"	"	R4

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Estella Rieben, Project Manager

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Amended Report

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9010069 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (9010069-DUP1)					QC Source: PRL0903-01				Extracted: 01/05/09 13:59					
Zinc	EPA 6020	32.8	---	2.17	mg/kg dry	1x	32.4	--	--	--	1.07%	(40)	01/06/09 18:14	
Matrix Spike (9010069-MS1)					QC Source: PRL0903-01				Extracted: 01/05/09 13:59					
Antimony	EPA 6020	4.22	---	0.547	mg/kg dry	1x	ND	5.47	77.2%	(70-130)	--	--	01/06/09 18:29	
Arsenic	"	10.7	---	0.547	"	"	0.530	10.9	93.3%	(75-125)	--	--	"	
Beryllium	"	9.82	---	0.547	"	"	0.180	"	88.2%	"	--	--	"	
Cadmium	"	11.1	---	0.547	"	"	ND	"	102%	"	--	--	"	
Chromium	"	41.9	---	0.547	"	"	24.6	"	159%	"	--	--	"	MHA
Copper	"	42.8	---	2.19	"	"	31.1	"	108%	"	--	--	01/07/09 13:40	
Lead	"	10.9	---	0.547	"	"	0.946	"	91.4%	"	--	--	01/06/09 18:29	
Nickel	"	105	---	1.09	"	"	78.4	"	240%	"	--	--	"	MHA
Selenium	"	10.5	---	0.547	"	"	0.0601	"	95.8%	"	--	--	"	
Silver	"	5.35	---	0.547	"	"	0.0437	5.47	97.0%	"	--	--	"	
Thallium	"	9.94	---	0.547	"	"	0.0820	10.9	90.2%	"	--	--	"	
Zinc	"	44.9	---	2.19	"	"	32.4	"	114%	"	--	--	"	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Total Mercury per EPA Method 7471A - Laboratory Quality Control Results

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QC Batch: 9010125 **Soil Preparation Method: EPA 7471A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9010125-BLK1)									**Extracted: 01/06/09 16:13**					
Mercury	EPA 7471A	ND	---	0.100	mg/kg wet	1x	--	--	--	--	--	--	01/07/09 15:50	
LCS (9010125-BS1)									**Extracted: 01/06/09 16:13**					
Mercury	EPA 7471A	0.635	---	0.100	mg/kg wet	1x	--	0.625	102%	(80-120)	--	--	01/07/09 15:52	
LCS Dup (9010125-BSD1)									**Extracted: 01/06/09 16:13**					
Mercury	EPA 7471A	0.639	---	0.100	mg/kg wet	1x	--	0.625	102%	(80-120)	0.569%	(20)	01/07/09 15:57	
Duplicate (9010125-DUP1)					**QC Source: PRL0903-01**				**Extracted: 01/06/09 16:13**					
Mercury	EPA 7471A	ND	---	0.0988	mg/kg dry	1x	ND	--	--	--		(40)	01/07/09 15:59	
Matrix Spike (9010125-MS1)					**QC Source: PRL0903-01**				**Extracted: 01/06/09 16:13**					
Mercury	EPA 7471A	0.608	---	0.0927	mg/kg dry	1x	ND	0.579	105%	(75-125)	--	--	01/07/09 16:01	
Matrix Spike Dup (9010125-MSD1)					**QC Source: PRL0903-01**				**Extracted: 01/06/09 16:13**					
Mercury	EPA 7471A	0.677	---	0.103	mg/kg dry	1x	ND	0.644	105%	(75-125)	10.8%	(40)	01/07/09 16:05	

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390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Polychlorinated Biphenyls per EPA Method 8082 - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9010787 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9010787-BLK1)								**Extracted: 01/27/09 17:35**						
Aroclor 1016	EPA 8082	ND	---	33.2	ug/kg wet	1x	--	--	--	--	--	--	01/29/09 15:12	
Aroclor 1221	"	ND	---	66.9	"	"	--	--	--	--	--	--	"	
Aroclor 1232	"	ND	---	33.2	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	33.2	"	"	--	--	--	--	--	--	"	
Aroclor 1248	"	ND	---	33.2	"	"	--	--	--	--	--	--	"	
Aroclor 1254	"	ND	---	33.2	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	33.2	"	"	--	--	--	--	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 94.3%*			*Limits: 16-149%*	*"*							*01/29/09 15:12*	
LCS (9010787-BS1)								**Extracted: 01/27/09 17:35**						
Aroclor 1016	EPA 8082	312	---	33.0	ug/kg wet	1x	--	330	94.4%	(57-135)	--	--	01/29/09 15:35	
Aroclor 1260	"	302	---	33.0	"	"	--	"	91.6%	(60-135)	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 94.1%*			*Limits: 16-149%*	*"*							*01/29/09 15:35*	
Matrix Spike (9010787-MS1)					**QC Source: PSA0708-01**			**Extracted: 01/27/09 17:35**						
Aroclor 1016	EPA 8082	365	---	36.6	ug/kg dry	1x	ND	366	99.6%	(37-145)	--	--	01/29/09 14:27	
Aroclor 1260	"	353	---	36.6	"	"	ND	"	96.3%	(25-144)	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 96.7%*			*Limits: 16-149%*	*"*							*01/29/09 14:27*	
Matrix Spike Dup (9010787-MSD1)					**QC Source: PSA0708-01**			**Extracted: 01/27/09 17:35**						
Aroclor 1016	EPA 8082	363	---	36.7	ug/kg dry	1x	ND	368	98.8%	(37-145)	0.434%	(26)	01/29/09 14:50	
Aroclor 1260	"	348	---	36.7	"	"	ND	"	94.7%	(25-144)	1.31%	(30)	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 96.3%*			*Limits: 16-149%*	*"*							*01/29/09 14:50*	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

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QC Batch: 9010015 **Soil Preparation Method: EPA 5035A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9010015-BLK1)								Extracted: 01/02/09 10:17						
Acetone	EPA 8260B	ND	---	2490	ug/kg wet	1x	--	--	--	--	--	--	01/02/09 12:41	
Benzene	"	ND	---	19.9	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	498	"	"	--	--	--	--	--	--	"	
2-Butanone (MEK)	"	ND	---	996	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	498	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	996	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	498	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	498	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	498	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	

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Estella K Rieben

Estella Rieben, Project Manager

Amended Report

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THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9010015 **Soil Preparation Method: EPA 5035A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9010015-BLK1)								**Extracted: 01/02/09 10:17**						
Hexachlorobutadiene	EPA 8260B	ND	---	398	ug/kg wet	1x	--	--	--	--	--	--	01/02/09 12:41	
2-Hexanone	"	ND	---	996	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	199	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	199	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	498	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	498	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	199	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	99.6	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	199	"	"	--	--	--	--	--	--	"	

Surrogate(s):	*4-BFB*	*Recovery: 99.6%*	*Limits: 75-125%*	*0.01x*	*01/02/09 12:41*
	1,2-DCA-d4	*100%*	*75-125%*	*"*	*"*
	Dibromofluoromethane	*97.1%*	*75-125%*	*"*	*"*
	Toluene-d8	*101%*	*75-125%*	*"*	*"*

TestAmerica Portland

Estella K Rieben

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Amended Report

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9010015 **Soil Preparation Method: EPA 5035A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9010015-BS1)								**Extracted: 01/02/09 10:17**						
Benzene	EPA 8260B	1560	---	18.8	ug/kg wet	1x	--	1880	83.1%	(81.9-125)	--	--	01/02/09 10:42	
Chlorobenzene	"	1580	---	93.9	"	"	--	"	84.4%	(79.2-125)	--	--	"	
1,1-Dichloroethene	"	1520	---	93.9	"	"	--	"	81.1%	(66.1-125)	--	--	"	
Toluene	"	1580	---	93.9	"	"	--	"	84.0%	(80-125)	--	--	"	
Trichloroethene	"	1590	---	93.9	"	"	--	"	84.5%	(76-125)	--	--	"	
Surrogate(s): 4-BFB		*Recovery: 101%*			*Limits: 75-125%*	*0.01x*							*01/02/09 10:42*	
1,2-DCA-d4		*96.4%*			*75-125%*	"							"	
Dibromofluoromethane		*97.6%*			*75-125%*	"							"	
Toluene-d8		*98.3%*			*75-125%*	"							"	
Matrix Spike (9010015-MS1)					**QC Source: PRL0903-01**			**Extracted: 01/02/09 10:17**						
Benzene	EPA 8260B	2050	---	21.8	ug/kg dry	1x	ND	2180	94.2%	(68.5-125)	--	--	01/02/09 11:17	
Chlorobenzene	"	2040	---	109	"	"	ND	"	93.5%	(65.9-125)	--	--	"	
1,1-Dichloroethene	"	2010	---	109	"	"	ND	"	92.4%	(55.8-125)	--	--	"	
Toluene	"	2060	---	109	"	"	ND	"	94.4%	(70.3-125)	--	--	"	
Trichloroethene	"	2050	---	109	"	"	ND	"	94.2%	(65.5-125)	--	--	"	
Surrogate(s): 4-BFB		*Recovery: 106%*			*Limits: 75-125%*	*0.01x*							*01/02/09 11:17*	
1,2-DCA-d4		*103%*			*75-125%*	"							"	
Dibromofluoromethane		*104%*			*75-125%*	"							"	
Toluene-d8		*106%*			*75-125%*	"							"	
Matrix Spike Dup (9010015-MSD1)					**QC Source: PRL0903-01**			**Extracted: 01/02/09 10:17**						
Benzene	EPA 8260B	1960	---	22.1	ug/kg dry	1x	ND	2210	88.4%	(68.5-125)	4.74%	(25)	01/02/09 11:45	
Chlorobenzene	"	1920	---	111	"	"	ND	"	86.6%	(65.9-125)	6.05%	"	"	
1,1-Dichloroethene	"	1910	---	111	"	"	ND	"	86.3%	(55.8-125)	5.27%	"	"	
Toluene	"	1940	---	111	"	"	ND	"	87.6%	(70.3-125)	6.02%	"	"	
Trichloroethene	"	1930	---	111	"	"	ND	"	87.3%	(65.5-125)	5.99%	"	"	
Surrogate(s): 4-BFB		*Recovery: 102%*			*Limits: 75-125%*	*0.01x*							*01/02/09 11:45*	
1,2-DCA-d4		*99.6%*			*75-125%*	"							"	
Dibromofluoromethane		*100%*			*75-125%*	"							"	
Toluene-d8		*102%*			*75-125%*	"							"	

TestAmerica Portland

Estella K Rieben

Estella Rieben, Project Manager

Amended Report

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Amended Report

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9010132 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9010132-BLK1)								Extracted: 01/07/09 08:35						
Acenaphthene	EPA 8270m	ND	---	13.4	ug/kg wet	1x	--	--	--	--	--	--	01/07/09 14:35	
Acenaphthylene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	13.4	"	"	--	--	--	--	--	--	"	
Surrogate(s): Fluorene-d10		*Recovery: 92.8%*			*Limits: 24-125%*	"							*01/07/09 14:35*	
Pyrene-d10		*75.9%*			*41-141%*	"							"	
Benzo (a) pyrene-d12		*71.9%*			*38-143%*	"							"	
LCS (9010132-BS1)								Extracted: 01/07/09 08:35						
Acenaphthene	EPA 8270m	197	---	13.4	ug/kg wet	1x	--	166	119%	(33-139)	--	--	01/07/09 15:03	
Benzo (a) pyrene	"	146	---	13.4	"	"	--	"	88.0%	(45-149)	--	--	"	
Pyrene	"	144	---	13.4	"	"	--	"	86.3%	(39-138)	--	--	"	
Surrogate(s): Fluorene-d10		*Recovery: 107%*			*Limits: 24-125%*	"							*01/07/09 15:03*	
Pyrene-d10		*77.3%*			*41-141%*	"							"	
Benzo (a) pyrene-d12		*83.8%*			*38-143%*	"							"	
Matrix Spike (9010132-MS1)					QC Source: PRL0892-01			Extracted: 01/07/09 08:35						
Acenaphthene	EPA 8270m	ND	---	973	ug/kg dry	25x	ND	242	NR	(33-139)	--	--	01/07/09 16:57	RL1
Benzo (a) pyrene	"	180	---	487	"	"	ND	"	74.2%	(45-149)	--	--	"	
Pyrene	"	509	---	487	"	"	165	"	142%	(39-138)	--	--	"	M7
Surrogate(s): Fluorene-d10		*Recovery: 172%*			*Limits: 24-125%*	"							*01/07/09 16:57*	*ZX*
Pyrene-d10		*187%*			*41-141%*	"							"	*ZX*
Benzo (a) pyrene-d12		*67.0%*			*38-143%*	"							"	*Z3*

TestAmerica Portland

Estella K Rieben

Estella Rieben, Project Manager

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9010132 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9010132-MSD1)					**QC Source: PRL0892-01**				**Extracted: 01/07/09 08:35**					
Acenaphthene	EPA 8270m	ND	---	972	ug/kg dry	25x	ND	242	NR	(33-139)		(60)	01/07/09 17:25	RL1
Benzo (a) pyrene	"	181	---	486	"	"	ND	"	74.7%	(45-149)	0.539%	"	"	
Pyrene	"	525	---	486	"	"	165	"	149%	(39-138)	3.02%	"	"	M7
Surrogate(s): Fluorene-d10		*Recovery: 187%*			*Limits: 24-125%*	"							*01/07/09 17:25*	*ZX*
Pyrene-d10		*179%*			*41-141%*	"							*"*	*ZX*
Benzo (a) pyrene-d12		*69.4%*			*38-143%*	"							*"*	*Z3*

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Amended Report

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Percent Dry Weight (Solids) per Standard Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9010036 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (9010036-DUP1)					**QC Source: PRL0903-01**				**Extracted: 01/02/09 14:46**					
% Solids	NCA SOP	89.5	---	0.0100	% by Weight	1x	88.8	--	--	--	0.785%	(20)	01/02/09 14:46	

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Amended Report

PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Organic Carbon, Total (TOC) - Laboratory Quality Control Results

TestAmerica Tacoma

QC Batch: 39933 **Soil Preparation Method: NA**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (580-39933-1)				**QC Source:**				**Extracted: 01/15/09 14:56**						
Total Organic Carbon	9060 STD	ND	---	2000	mg/Kg	1x	--	--	--	--	--	--	01/15/09 14:56	
LCS (580-39933-2)				**QC Source:**				**Extracted: 01/15/09 14:56**						
Total Organic Carbon	9060 STD	4700	---	2000	mg/Kg	1x	--	3400	138%	(13-187)	--	--	01/15/09 14:56	
Duplicate (580-39933-5)				**QC Source: 580-39933-3**				**Extracted: 01/15/09 14:56**						
Total Organic Carbon	9060 STD	12300	---	2000	mg/Kg	1x	12000	--	--	--	1%	(20)	01/15/09 14:56	
Matrix Spike (580-39933-6)				**QC Source: 580-39933-3**				**Extracted: 01/15/09 14:56**						
Total Organic Carbon	9060 STD	29900	---	2000	mg/Kg	1x	12000	19300	92%	(76-128)	--	--	01/15/09 14:56	
Matrix Spike Dup (580-39933-7)				**QC Source: 580-39933-3**				**Extracted: 01/15/09 14:56**						
Total Organic Carbon	9060 STD	29500	---	2000	mg/Kg	1x	12000	19500	89%	(76-128)	1%	(28)	01/15/09 14:56	

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PBS Engineering - Bend	Project Name:	**DSL**	
390 NE Emerson Ave Suite C	Project Number:	80416 Phase 2	Report Created:
Bend, OR 97701	Project Manager:	Toby Scott	02/02/09 12:15

Notes and Definitions

Report Specific Notes:

H	-	Sample analysis performed past method-specified holding time.
M7	-	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
MHA	-	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
R4	-	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
RL1	-	Reporting limit raised due to sample matrix effects.
Z3	-	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
ZX	-	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Portland

Estella K Rieben

Estella Rieben, Project Manager

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11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210 X
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: PR10903

CLIENT: PBS Engineering + Environmental

REPORT TO: Toby Scott

ADDRESS: 390 NE Emerson Bend OR 97701

PHONE: 541.388.9990 FAX: 541.382.5116

INVOICE TO: PBS - Bend

P.O. NUMBER:

PROJECT NAME: DSL

PROJECT NUMBER: 30416.000 PHASE 2

SAMPLED BY:

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: ~~10~~ (STD.) | 7 | 5 | 4 | 3 | 2 | 1 | <1

Petroleum Hydrocarbon Analyses: ~~5~~ (STD.) | 4 | 3 | 2 | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	TPH - HCID	EPA PRIORITY METALS	EPA 8270 PAH	VOC EPA 8260B	PCB EPA 8082	TPC EPA 418.1	ORGANICS EPA 8081A		TPH DS					MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	VP-2/S-2	12-30-08/915	X	X	X	X	X	X								S	3	USE 4oz. containers FIRST !!	
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

RELEASED BY:		DATE: 12/30/08	RECEIVED BY:		DATE: 12/31/08
PRINT NAME: Toby Scott	FIRM: PBS	TIME: 1500 hrs FEDEX	PRINT NAME: Brianna Eatley	FIRM: TAP	TIME: 1000
RELEASED BY:		DATE:	RECEIVED BY:		DATE:
PRINT NAME:	FIRM:	TIME:	PRINT NAME:	FIRM:	TIME:

ADDITIONAL REMARKS:

TEMP: 1.0°C

PAGE 1 OF 1

TAL-1000(0408)

TestAmerica Sample Receipt Checklist

Cooler ID(s):

Received by: *(section A)*
Date: 12/31/05
Time: 1000
Initials: BLE

Unpacked by: *(section B)*
Date: 12/31/05
Initials: BLE

Logged-in by:
Date: 12/31/05
Initials: MM

Work Order No. PR10903
Client: PBS Bend
Project: DSL

Temperature out of range:
___Not enough Ice
___*No Ice*
___*Ice Melted*
___*W/in 4 Hours*
___*Other:*_____

***ESI Clients *(see Section C)*

Digi #1
Digi #2

Cooler Temperature (IR): 1.0 °C plastic (glass) NA *(oil/air samples, ESI client)*

Temperature Blank: _____ °C

A

Custody Seals: (#____)

Signature: Y N Dated:_____
X None

Container Type:
1 #Cooler(s)
___#Box(s)
___None (___#Other:_____)

Coolant Type:
___Gel Ice
X Loose Ice
___None

Packing Material:
X Bubble Bags
___Styrofoam Cubbies
___Peanuts
___None (___Other:_____)

Received from:
___TA Courier
___Senvoy
___UPS
X Fed Ex
___Client
___TDP
___DHL
___SDS
___Mid-Valley
___GS/TA
___GS/Senvoy
___Other:
_____

B

Sample Status:
(If N circled, see NOD)

General:

Intact?	Y	N	
# Containers Match COC?	Y	N	none given
IDs Match COC?	Y	N	

For Analyses Requested:

Cyanide Checked?	Y	N	NA
Correct Type & Preservation?	Y	N	
Adequate Volume?	Y	N	
Within Hold Time?	Y	N	

Volatiles/ Oil Quality:

VOAs/ Syringes free of Headspace?	Y	N	NA
TB on COC? not provided	Y	N	NA

Metals:

HNO3 Preserved?	Y	N	NA
Dissolved Metals Filtered?	Y	N	NA

C

***ESI Clients Only:

Temperature Blank: _____ °C not provided Digi: # 1 #2

All preserved bottles checked Y N NA *(voas/soils/all unp.)*
All preserved accordingly? Y N *(see NOD)* NA *(voas/soils/all unp.)*

FED EX/ UPS: Was the tracking paper keepable? YES NO

If circled NO, what is the Tracking number? _____

FED EX Goldstreak UPS DHL Other: _____

Project Managers:

Comments:_____

*PM Reviewed:*_____ *(Initial/Date)*

PBS | Engineering + Environmental

082374

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 80416.000 Task 0002

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: December 09, 2008

PBS Engineering + Environmental
390 NE Emerson Avenue, Suite C
Bend, OR 97701
541.388.9290, Fax: 541.382.5116

Alex Fischer
Name

Alex Fischer 12/9/08
Authorized Signature **Date**

RECEIVER

Date Received: 12/10/08 8:50

Company: Lab/Cor-Portland
Address: 4321 SW Corbett Ave. #A
Portland, OR 97239
(503) 224-505

Payam Amin
Name

Payam A
Authorized Signature **Date**

Sender's ID No.	Brief Description	Receiver's ID No.
80416.000-0001	Asbestos Bulk	
80416.000-0002		
80416.000-0003		
80416.000-0004		
80416.000-0005		
80416.000-0006		
80416.000-0007		
80416.000-0008		
80416.000-0009		
80416.000-0010		
80416.000-0011		
80416.000-0012		
80416.000-0013		
80416.000-0014		
80416.000-0015		

PBS Engineering + Environmental

082374

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

80416.000-0016	Asbestos Bulk	
80416.000-0017		
80416.000-0018		
80416.000-0019		
80416.000-0020		
80416.000-0021		
80416.000-0022		

Please analyze the enclosed 22 sample(s) for asbestos content using PLM with dispersion staining. PBS requests prior notification if samples will be disposed.

Request verbal results by: _____ AM/PM _____Date.

Please fax and mail the results to the above address.

TURNAROUND DESIRED: **72 Hour**

SPECIAL INSTRUCTIONS: please E-mail Results to alexf@pbsenv.com

Thanks,

LabCor Portland Inc

Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
Fax: (503) 228-8282
http://www.labcorpdx.net

Client: PBS Engineering + Environmental
390 NE Emerson Avenue, Suite C
Bend, OR 97701

Report Number: 082374R01
Report Date: 12/15/2008

P.O. No: n/a

Job Number: 082374
Project Name:
Project Number: 80416.000 Task 0002
Project Notes:

Client Sample ID: 80416.000-0001 **Sample ID:** S1 **Date Analyzed:** 12/12/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl, grey	50 %	-	-	-	**NAD**
Layer 02					
fibrous backing, tan	50 %	45 %	-	-	**45 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	5 %	-	-	-	-	50 %

Comments:

Client Sample ID: 80416.000-0002 **Sample ID:** S2 **Date Analyzed:** 12/12/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
paper, white	25 %	-	-	-	**NAD**
Layer 02					
hard fibrous material, brown	75 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	90 %	-	-	-	-	10 %
Layer 02	-	90 %	-	-	-	-	10 %

Comments:

Client Sample ID: 80416.000-0003 **Sample ID:** S3 **Date Analyzed:** 12/12/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fine compact powder, tan	10 %	-	-	-	**NAD**
Layer 02					
fibrous tarry backing, black	90 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	8 %	-	-	-	-	92 %
Layer 02	-	50 %	-	-	-	-	50 %

Comments:

NVLAP

LabCor Portland Inc
Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
Fax: (503) 228-8282
http://www.labcorpdx.net

Job Number: 082374

Report Number: 082374R01
Report Date: 12/15/2008

Client Sample ID: 80416.000-0004 **Sample ID:** S4 **Date Analyzed:** 12/12/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl, grey	20 %	-	-	-	**NAD**
Layer 02					
fibrous backing, grey	80 %	45 %	-	-	**45 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	5 %	-	-	-	-	50 %

Comments:

Client Sample ID: 80416.000-0005 **Sample ID:** S5 **Date Analyzed:** 12/12/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl, grey	50 %	4 %	-	-	**4 %**
Layer 02					
fibrous backing, tan	50 %	45 %	-	-	**45 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	-	96 %
Layer 02	-	10 %	-	-	-	-	45 %

Comments:

Client Sample ID: 80416.000-0006 **Sample ID:** S6 **Date Analyzed:** 12/12/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
rocky fibrous tar, black	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	15 %	-	-	-	-	85 %

Comments:

NVLAP

LabCor Portland Inc
Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
Fax: (503) 228-8282
http://www.labcorpdx.net

Job Number: 082374

Report Number: 082374R01
Report Date: 12/15/2008

Client Sample ID: 80416.000-0007 **Sample ID:** S7 **Date Analyzed:** 12/12/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl, pink	50 %	-	-	-	**NAD**
Layer 02					
fibrous backing, grey	50 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	80 %	-	-	-	-	20 %

Comments:

Client Sample ID: 80416.000-0008 **Sample ID:** S8 **Date Analyzed:** 12/12/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
rocky fibrous tar, black	50 %	-	-	-	**NAD**
Layer 02					
tar, black	45 %	-	-	-	**NAD**
Layer 03					
fibrous backing, tan	5 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	15 %	-	-	-	-	85 %
Layer 02	-	2 %	-	-	-	-	98 %
Layer 03	-	100 %	-	-	-	-	-

Comments:

Client Sample ID: 80416.000-0009 **Sample ID:** S9 **Date Analyzed:** 12/12/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl, black/white	40 %	-	-	-	**NAD**
Layer 02					
fibrous backing, grey	60 %	45 %	-	-	**45 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	5 %	-	-	-	-	50 %

Comments:

NVLAP

LabCor Portland Inc
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4321 SW Corbett Ave., Ste A
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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
Fax: (503) 228-8282
http://www.labcorpdx.net

Job Number: 082374

Report Number: 082374R01
Report Date: 12/15/2008

Client Sample ID: 80416.000-0010 **Sample ID:** S10 **Date Analyzed:** 12/12/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
hard cementitious material, grey	100 %	12 %	-	-	**12 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
	-	-	-	-	-	-	88 %

Comments:

Client Sample ID: 80416.000-0011 **Sample ID:** S11 **Date Analyzed:** 12/14/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compact fibrous material, brown	100 %	25 %	-	-	**25 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
	-	-	-	-	-	-	75 %

Comments:

Client Sample ID: 80416.000-0012 **Sample ID:** S12 **Date Analyzed:** 12/14/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
hard cementitious material, grey	100 %	10 %	-	-	**10 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
	-	-	-	-	-	-	90 %

Comments:

Client Sample ID: 80416.000-0013 **Sample ID:** S13 **Date Analyzed:** 12/14/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
hard cementitious material, grey	100 %	10 %	-	-	**10 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
	-	-	-	-	-	-	90 %

Comments:

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

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http://www.labcorpdx.net

Job Number: 082374

Report Number: 082374R01
Report Date: 12/15/2008

Client Sample ID: 80416.000-0014 **Sample ID:** S14 **Date Analyzed:** 12/14/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
fibrous sheet, grey	100 %	50 %	-	-	**50 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
	-	-	-	-	-	-	50 %

Comments:

Client Sample ID: 80416.000-0015 **Sample ID:** S15 **Date Analyzed:** 12/14/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
fibrous powder, grey	100 %	40 %	-	-	**40 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
	-	-	-	-	-	-	60 %

Comments:

Client Sample ID: 80416.000-0016 **Sample ID:** S16 **Date Analyzed:** 12/14/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
fibrious material, grey	100 %	65 %	-	-	**65 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
	-	-	-	-	-	-	35 %

Comments:

Client Sample ID: 80416.000-0017 **Sample ID:** S17 **Date Analyzed:** 12/14/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
fibrous powder, tan	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
	6 %	2 %	-	-	-	-	92 %

Comments:

NVLAP

LabCor Portland Inc
Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
Fax: (503) 228-8282
http://www.labcorpdx.net

Job Number: 082374

Report Number: 082374R01
Report Date: 12/15/2008

Client Sample ID: 80416.000-0018 **Sample ID:** S18 **Date Analyzed:** 12/14/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compact chalky material, off-white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	5 %	1 %	-	-	-	-	94 %

Comments:

Client Sample ID: 80416.000-0019 **Sample ID:** S19 **Date Analyzed:** 12/14/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
hard cementitious material, green/grey	100 %	10 %	-	-	**10 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	-	90 %

Comments:

Client Sample ID: 80416.000-0020 **Sample ID:** S20 **Date Analyzed:** 12/14/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
vinyl, tan	100 %	7 %	-	-	**7 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	-	93 %

Comments:

Client Sample ID: 80416.000-0021 **Sample ID:** S21 **Date Analyzed:** 12/14/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
fibrous sheet, tan	100 %	55 %	-	-	**55 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	5 %	-	-	-	-	40 %

Comments:

NVLAP

LabCor Portland Inc

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Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
Fax: (503) 228-8282
http://www.labcorpdx.net

Job Number: 082374

Report Number: 082374R01
Report Date: 12/15/2008

Client Sample ID: 80416.000-0022 **Sample ID:** S22 **Date Analyzed:** 12/14/2008
Client Sample Description: **Analyst:** Payam Amin

Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
paper, tan	5 %	-	-	-	**NAD**
Layer 02					
compact chalky material, white	90 %	-	-	-	**NAD**
Layer 03					
paper, tan	5 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	-	100 %	-	-	-	-	-
Layer 02	-	4 %	-	-	-	-	96 %
Layer 03	-	100 %	-	-	-	-	-

Comments:

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP).
Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM.

Layered samples are considered non-homogeneous."Misc" is miscellaneous. "NAD" is No Asbestos Detected.
Asbestos consists of the following minerals: chrysotile, amosite, crocidolite, tremolite, actinolite, anthophyllite.
Small diameter fibers such as those found in vinyl floor tiles, may not be detected by PLM.
Asbestos detection interferences may result from material binders.
Qualitative and quantitative TEM analysis may be recommended for difficult samples.
Quantitative analysis by PLM point count or TEM is recommended for samples testing at < or = to 1% asbestos.
The following estimate of error for this method by visual estimation of asbestos percent are as follows:
1% asbestos: 0-3% error, 5% asbestos: 1-9% error, 10% asbestos: 5-15% error, 20% asbestos: 10-30% error.
This report pertains only to the samples listed on the report. Report considered valid only when signed by analyst.

Reviewed by:

x Payam Amin

Payam Amin
Analyst

NVLAP