VCP NW 1742

REMEDIAL INVESTIGATION WORK PLAN
NORTHSHORE DOWNTOWN BOTHELL PROPERTIES
BOTHELL, WASHINGTON

MARCH 22, 2007

FOR
NORTHSHORE SCHOOL DISTRICT

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Remedial Investigation Work Plan
Northshore Downtown Bothell Properties
Bothell, Washington GEI
File No. 12666-001-03

March 22, 2007

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REMEDIAL INVESTIGATION WORK PLAN
NORTHSHORE DOWNTOWN BOTHELL PROPERTIES
BOTHELL, WASHINGTON
FOR
NORTHSHORE SCHOOL DISTRICT

INTRODUCTION

This work plan describes our proposed scope of services to perform a Remedial Investigation (RI) at the Northshore Downtown Bothell Properties in Bothell, Washington. The properties currently are owned by the Northshore School District. The Northshore Downtown Bothell Properties, referred to herein as the "site", are roughly bounded by Bothell Way NE to the east, NE 188th Street to the north, 96th Avenue NE to the west and NE 183rd Street to the south. The site is shown relative to surrounding features on Figure 1. The 26.68-acre site consists of seven tax parcels, as shown on Figure 2. The site is developed with former elementary and junior high schools (currently used for other uses), prefabricated offices, bus/transportation facility, storage buildings, maintenance shops, and a building that contains an indoor swimming pool. Pop Keeney Field, an outdoor sports stadium, covers the northwest portion of the site, but is not part of a potential real estate transfer, so is not included in this RI.

We understand that the Northshore School District is considering selling the property and is in preliminary discussions with the City of Bothell. We understand that the existing buildings are likely to be removed and the site redeveloped for mixed use (residential/commercial). We further understand that for the purpose of Ecology's Voluntary Cleanup Program and Ecology's review, that the site will not include the pool building area. Ecology is conducting a cleanup action related to releases at the off-property BP gasoline station immediately north of the pool building. Therefore, the BP "site" extends onto and includes the pool building area. As a result, the pool building area is excluded from this work plan.

PURPOSE

This work plan is based on the findings and recommendations of a Phase I environmental site assessment (ESA) completed by Shockey/Brent and a Phase II ESA completed by GeoEngineers in November 2005. The purpose of this study is to complete a remedial investigation consistent with the Model Toxics Control Act (MTCA). This remedial investigation, together with the results of the Phase II ESA, will fulfill the following objectives:

- Characterize the hydrogeologic regime underlying the site to evaluate the potential for contamination that may be migrating on site from off-site sources.
- Provide for a supplemental evaluation of the nature and extent of contamination on the site. Further evaluate localized areas of contaminated soil and groundwater at the site, as identified in the 2005 Phase II ESA, and evaluate soil and groundwater in areas that were previously unexplored.
- Support the District in evaluating the results of the RI, communicating with other stakeholders such as the District's legal counsel, Washington State Department of Ecology, the City of Bothell and/or any other potential buyers of the site. Development and analysis of a Feasibility Study and Cleanup Action Plan, including estimated cleanup costs are considered possible future services that can be completed under a separate scope and fee estimate.

PREVIOUS ENVIRONMENTAL ASSESSMENTS

PHASE I ESA

Shockey/Brent performed a Phase I ESA for the site in November and December 2005 and presented their findings in a report dated January 2006. The purpose of the Phase I ESA was to identify recognized environmental conditions (RECs) in connection with the site. The Phase I ESA was completed in general accordance with American Society for Testing and Materials (ASTM) Standard E 1527-00 for Phase I ESAs. The Phase I ESA concluded that there was a long history of commercial use warranting Phase II ESA soil and groundwater testing.

PHASE II ESA

A Phase II ESA was performed at the site by GeoEngineers in December 2005, concurrently with the Phase I ESA. The results of the Phase II ESA were presented in a final report dated July 28, 2006. The Phase II ESA was developed to address the preliminary findings of the Phase I ESA which were provided to us verbally during November 2005. The Phase II ESA included completing a subcontracted geophysical reconnaissance (to identify possible underground storage tanks), advancing eighteen direct-push borings, and observing near-surface soil conditions at five locations. The Phase II ESA was limited to explorations that focused on the following areas: the Maintenance Building, the Anderson Building, the Ricketts Building and the active fueling area. Chemical analytical results from 11 soil and four groundwater samples submitted for chemical analysis indicated that petroleum hydrocarbons were detected in soil and/or groundwater at concentrations greater than current Model Toxics Control Act (MTCA) Method A cleanup levels at four locations in the Maintenance Shop/Bus Maintenance Shop area (steam cleaning area, east hydraulic hoist and former used oil UST [two locations]). The extent of contamination was not fully evaluated.

Additionally, our report concluded that although field screening and chemical analytical results did not indicate the likely wide-scale presence of petroleum-contaminated soil or groundwater beneath the other areas of the site explored, including the heating oil USTs at the Northshore Pool Building (B-1), near the Anderson Building (B-2), at the Ricketts Building (B-3), at the cold storage building (B-4 and B-4a), and the diesel and gasoline USTs and fuel dispensers at the active fueling area (B-15, B-15a, B-16 and B-16a), it was possible that contamination could be identified in unexplored areas of the site, or at different locations near the identified source areas that were explored during the study.

AREAS WARRANTING ADDITIONAL STUDY

Based on the results of the Phase II ESA, our review of the finalized Phase I ESA and conversations with the District, the following areas warrant additional study to supplement the Phase II ESA.

- **Gasoline Station Plume (northeast portion of site).** The extent of the gasoline-contaminant plume from the adjacent gasoline station to the north of the Northshore Pool Building is unknown. The hydrocarbon contaminant plume is documented to have migrated beneath the Northshore Pool Building, but is not documented south of the building. We understand that the Washington State Department of Ecology (Ecology) has been involved in assessing and remediating the known release of hydrocarbons from the service station property. Therefore, this work plan does not further address this area, other than to review cleanup plans to be prepared by Ecology and to suggest locations of compliance monitoring wells that Ecology could install after their upcoming remedial action is completed. We have outlined four possible monitoring well locations that Ecology could install around the Pool Building (Figure 3) and suggested chemical analytical testing (Table 1). If Ecology does not agree to the suggested investigation, the district could implement the identified tasks.

- **Chemical Storage Building Area.** The former Handball Court/Storage Building located east of Pop Keeney field contains a locked area at the south end used for temporary storage of wastes, such as old paint and items with PCB-containing oil, prior to disposal at licensed facilities. The Phase I ESA indicates a floor drain is located at this building; we understand that the drain is located at the opposite end of the building from the waste storage area. There is a possibility of a release of contaminants to the subsurface beneath this building.
- **Possible Former Residence USTs.** Several residences were located on the site prior to development with Northshore School District buildings. Some of these buildings used heating oil, which may have been stored in aboveground or underground storage tanks. The exact location of these residences is not known. A number of lots were recorded on the western third of the current Bus Barn area. As described in the Phase I ESA report, the U.S. EPA notes removal of three USTs when the Bus Barn was constructed in 1966. Another UST was removed during parking lot development and Bus Barn expansion in 1987, according to the Phase I ESA.
- **Horse Creek Culvert.** According to the Phase I ESA report, the U.S. EPA, their consultant and the City of Bothell tracked releases of hydrocarbons at the outfall of Horse Creek in and prior to 2005. Horse Creek extends roughly north-south beneath the site within a culvert. While there is no available data that suggests that the site was a source of the hydrocarbon impacts, further assessment is warranted. The Northshore School District has plugged floor drains in the Maintenance Shop and placed oil/water separators at the steam cleaning area and active fueling area since the releases were first recorded. There is a possibility of residual contamination along the storm drains that formerly were in use for these areas. The storm drains and surrounding soil were not assessed during the Phase II ESA. Catch basins located in potential contaminant source areas, storm drains and sewer line connections are shown in Figure 4.
- **Steam Clean and Bus Maintenance Area.** Hydrocarbon contamination was observed in the steam clean and bus maintenance area during our initial study. Therefore, additional evaluation is warranted in this area (which also includes supplementing the limited initial soil and groundwater testing at the active fueling facility location).

Based on a review of the final Phase I ESA, the results of the limited preliminary site characterization and our experience at similar sites, the following potential concerns warrant additional study:

- Groundwater sampling along the downgradient property lines is warranted to assess whether any groundwater contaminant plume is migrating off site.
- The vicinity of a generator and nearby drains in the Anderson Building complex has not been addressed.
- Possible heating oil tanks were located at the Bus Dispatch Office in the Active Fueling/Bus Barn area, and at the westernmost Maintenance Shop. The vicinity of these buildings has not been explored.
- Solvent-related volatile organic compounds (VOCs) and metals were not analyzed in the initial soil and/or groundwater sampling program.
- Soil and groundwater adjacent to the on-site storm drains were not assessed.

SCOPE OF SERVICES

Our specific scope of services was developed to address the additional environmental concerns summarized above, and to further characterize groundwater conditions beneath the site, including groundwater flow direction and gradient. Our specific scope of services is as follows:

1. Conduct a brief site visit to confirm catch basin and drain locations in areas of potential concern.

2. Review U.S. Environmental Protection Agency (EPA) files regarding previous Horse Creek releases as the files become available. Prepare a memorandum summarizing our review.

3. Complete a Voluntary Cleanup Program application and Terrestrial Ecological Evaluation form for the site on behalf of Northshore School District.

4. Prepare a work plan (this document). First issue the work plan as a draft document and respond to comments by Northshore School District, William Joyce (the District's legal counsel) and the City of Bothell's environmental consultant.

5. Update our Health and Safety Plan (HASP) for use by GeoEngineers' personnel during the field activities.

6. Retain public and private utility locating services to identify and locate underground utilities in the exploration areas.

7. Monitor the advancement of 22 soil borings (designated as DP-01 through DP-06 and MW-01 through MW-16). The borings will be advanced using direct-push drilling methods to a depth to approximately 15 feet below ground surface (bgs). The boring locations are shown on Figures 1 through 3, and the rationale and testing program is presented in Table 1. A sampling and analysis plan is presented as Appendix A.

   Investigative derived waste (i.e., soil cuttings and well development and purge water) generated during the field activities will be stored in 55-gallon steel drums at a secure location on the site as designated by the Northshore School District. Chemical analytical results will be used to characterize drummed material for off-site disposal, if necessary.

8. Collect near-continuous soil samples from each boring. Each sample will be field screened using visual, water sheen and headspace vapor screening methods. Field screening results and any observed changes in soil conditions will be used to determine the sampling depth interval selected for chemical analysis of soil. A GeoEngineers' geologist or environmental scientist/engineer will observe conditions during drilling and maintain a detailed log of each boring.

9. Submit selected soil sample(s) from each boring for chemical analyses as described in Table 1. If field screening results indicate potential contamination in direct push (DP) borings not designated as wells, then discrete, one-time, groundwater samples also will be obtained from these borings for chemical analysis as described in Table 1. The Northshore School District realizes that the analytical results for grab groundwater samples tend to bias high; therefore, these data will be used as a screening tool only. If contaminants are detected, the Northshore School District will consider whether to install a monitoring well(s) at this/these locations at a future date.

10. Install groundwater monitoring wells in 16 of the borings to depths to approximately 15 feet bgs. The wells will be constructed of pre-packed 1.5-inch-diameter well screens from approximately 3 feet to 13 feet bgs and completed in accordance with the *Washington State Department of Ecology Minimum Standards for Construction and Maintenance of Wells* [173-160 WAC]. See Table 1 for a description of which borings will be completed as monitoring wells.

11. Develop each monitoring well by purging approximately five well volumes of water.

12. Obtain groundwater samples from the 16 new monitoring wells using low-flow sampling techniques. Purge each well until pH, temperature and conductivity measurements of purge water stabilize. Submit the samples for chemical analyses, as described in Table 1.

13. Evaluate the chemical analytical results relative to Ecology's MTCA Method A cleanup levels for unrestricted land use.

14. Prepare a written report documenting the results of the RI. The RI report will include a discussion of contamination relative to the MTCA Method A cleanup levels, estimated extent of contamination, and a Conceptual Site Model (CSM) to identify potential environmental receptors and exposure pathways.

15. Attend up to eight (approximately monthly) meetings with Northshore School District, the City of Bothell, Shockey/Brent, the District's legal counsel, and/or Ecology, as requested by the Northshore School District (via Laura Brent or Dan Vaught), to discuss the proposed study, results of our study and potential future steps in the remediation/cleanup process.

SCHEDULE

The remedial investigation will be completed as soon as practical after the Ecology site manager under the Voluntary Cleanup Program has provided feedback on this work plan to the Northshore School District. The schedule then will depend on driller availability.

LIMITATIONS

GeoEngineers' Scope of Work specifically excludes the investigation, detection or assessment of the presence of biological compounds that are deemed pollutants in or around any structure. Accordingly, this report includes no interpretations, recommendations, findings, or conclusions for the purpose of detecting, assessing, or abating biological pollutants. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria, and viruses, and/or any of their byproducts.

Our services are for the exclusive use of our client. No other party may rely on the product of our services unless we agree in advance to such reliance in writing. This is to provide our firm with reasonable protection against open-ended liability claims by third parties with whom there would otherwise be no contractual limits to their actions.

TABLE 1. PROPOSED EXPLORATION PROGRAM

Boring No.	Purpose			Media To Be Tested	Chemical of Concern	EPA/Ecology Methodology	Depth of Soil Samples	No. of Samples for Analysis
	Boring Depth	Soil Samples	Groundwater					
DP-01	12-15ft	Continuous	Yes	Soil/Water	Diesel BETX PAHs and Naphthalenes	NWTPH-Dx 8021B/5035 8270-SIM	Surface to 15 feet	1 soil 1 water
	Assess soil conditions at the location of a temporary diesel generator (Contingency)							
DP-02	12-15ft	Continuous	Yes	Soil/Water	Diesel PAHs and Naphthalenes	NWTPH-Dx 8270-SIM	Surface to 15 feet	1 soil 1 water
	Assess soil and groundwater conditions to establish the lateral and vertical extent of the contaminant plume observed at 2005 boring B-10A, and assess potential impacts from the maintenance shop near Horse Creek							
DP-03	12-15ft	Continuous	Possibly	Soil	Gasoline BETX Diesel and Motor Oil VOCs PAHs and Naphthalenes PCBs MTCA Metals	NWTPH-Gx 8021B/5035 NWTPH-Dx 8260B (groundwater/ possibly soil) 8270-SIM 8082 6000/7000 Series	Surface to 15 feet	1-2 soil
	Assess soil conditions in vicinity of catch basin near City Maintenance Building.							
DP-04	12-15ft	Continuous	Yes	Soil/Water	Gasoline BETX Diesel and Motor Oil VOCs PAHs and Naphthalenes MTCA Metals	NWTPH-Gx 8021B/5035 NWTPH-Dx 8260B (groundwater/ possibly soil) 8270-SIM 6000/7000 Series	Surface to 15 feet	1-2 soil 1 Water
	Assess soil conditions downgradient of Bus Dispatch Office (possible former UST) and toward Horse Creek alignment.							
DP-05	12-15ft	Continuous	Yes	Soil/Water	Diesel BETX PAHs and Naphthalenes	NWTPH-Dx 8021B/5035 8270-SIM	Surface to 15 feet	1-2 soil 1 Water
	Assess soil conditions in vicinity of former residences (possible heating oil)							

Boring No.	Purpose			Media To Be Tested	Chemical of Concern	EPA/Ecology Methodology	Depth of Soil Samples	No. of Samples for Analysis
	Boring Depth	Soil Samples	Groundwater					
DP-06	12-15ft	Continuous	Possibly	Soil/Water	Gasoline BETX Diesel and Motor Oil VOCs PAHs and Naphthalenes PCBs MTCA Metals	NWTPH-Gx 8021B/5035 NWTPH-Dx 8260B (groundwater/ possibly soil) 8270-SIM 8082 6000/7000 Series	Surface to 15 feet	1-2 soil 1 Water
	Assess soil conditions in vicinity of the catch basin near the bus barn.							
Ecology 1	12-15ft	Continuous	Yes	Soil/Water	Gasoline BETX	NWTPH-Gx 8021B/5035	Surface to 15 feet	1-2 soil 1 water
	Assess groundwater and soil conditions downgradient from off-site source							
Ecology 2	12-15ft	Continuous	Possibly	Soil/Water	Gasoline BETX	NWTPH-Gx 8021B/5035	Surface to 15 feet	1-2 soil 1 water
	Assess groundwater and soil conditions downgradient from off-site source							
Ecology 3	12-15ft	Continuous	Possibly	Soil/Water	Gasoline BETX	NWTPH-Gx 8021B/5035	Surface to 15 feet	1-2 soil 1 water
	Assess groundwater and soil conditions downgradient from off-site source							
Ecology 4	12-15ft	Continuous	Yes	Soil/Water	Gasoline BETX	NWTPH-Gx 8021B/5035	Surface to 15 feet	1-2 soil 1 water
	Assess groundwater and soil conditions downgradient from off-site source							
MW-01	12-15ft	Continuous	Yes	Soil/Water	Gasoline BETX Diesel and Motor Oil VOCs PAHs and Naphthalenes MTCA Metals	NWTPH-Gx 8021B/5035 NWTPH-Dx 8260B (groundwater/ possibly soil) 8270-SIM 6000/7000 Series	Surface to 15 feet	1-2 soil 1 water
	Assess groundwater and soil conditions in the vicinity of a heating oil AST at Anderson Building complex and obtain data in the vicinity of 2005 boring B-2 (visible slight sheen from a depth of approximately 10 feet)							
MW-02	12-15ft	Continuous	Yes	Soil/Water	HCID, with potential followup VOCs PAHs and Naphthalenes PCBs MTCA Metals	NWTPH-HCID/5035 8260B (groundwater/ possibly soil) 8270-SIM 8082 6000/7000 Series	Surface to 15 feet	1-2 soil 1 water
	Establish soil and groundwater conditions in the vicinity of hazardous waste storage area.							

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awfully close?

Boring No.	Purpose			Media To Be Tested	Chemical of Concern	EPA/Ecology Methodology	Depth of Soil Samples	No. of Samples for Analysis
	Boring Depth	Soil Samples	Groundwater					
MW-03	12-15ft	Continuous	Yes	Soil/Water	Gasoline BETX Diesel and Motor Oil VOCs PAHs and Naphthalenes PCBs MTCA Metals	NWTPH-Gx 8021B/5035 NWTPH-Dx 8260B (groundwater/ possibly soil) 8270-SIM 8082 6000/7000 Series	Surface to 15 feet	1-2 soil
	Assess soil conditions in vicinity of catch basin near City Maintenance Building.							
MW-04	12-15ft	Continuous	Yes	Soil/Water	NWTPH-Gx 8021B/5035 8021B/8260B NWTPH-Dx 8270-SIM 6000/7000 Series	NWTPH-Gx 8021B/5035 8021B/8260B NWTPH-Dx 8270-SIM 6000/7000 Series	Surface to 15 feet	1-2 soil 1 water
	Assess soil and groundwater conditions in the vicinity of downgradient of possible historic Horse Creek channel and the active fuel dispensers and USTs, and establish lateral and vertical extent of contaminant plume observed in soil from 2005 boring B-16.							
MW-05	12-15ft	Continuous	Yes	Soil/Water	Gasoline BETX MTBE, EDB/EDC Diesel PAHs and Naphthalenes Lead	NWTPH-Gx 8021B/5035 8021B/8260B NWTPH-Dx 8270-SIM 6000/7000 Series	Surface to 15 feet	1-2 soil 1 water
	Assess soil and groundwater conditions in the vicinity of the active fuel dispensers and possible historic Horse Creek channel							
MW-06	12-15ft	Continuous	Yes	Soil/Water	Gasoline BETX Diesel and Motor Oil VOCs PAHs and Naphthalenes MTCA Metals	NWTPH-Gx 8021B/5035 NWTPH-Dx 8260B (groundwater/ possibly soil) 8270-SIM 6000/7000 Series	Surface to 15 feet	1-2 soil 1 water
	Assess soil and groundwater conditions downgradient of the bus wash area and in vicinity of possible historic Horse Creek channel							

Boring No.	Purpose			Media To Be Tested	Chemical of Concern	EPA/Ecology Methodology	Depth of Soil Samples	No. of Samples for Analysis
	Boring Depth	Soil Samples	Groundwater					
MW-07	12-15ft	Continuous	Yes	Soil/Water	Gasoline BETX Diesel and Motor Oil VOCs PAHs and Naphthalenes MTCA Metals	NWTPH-Gx 8021B/5035 NWTPH-Dx 8260B (groundwater/ possibly soil) 8270-SIM 6000/7000 Series	Surface to 15 feet	1-2 soil 1 water
	Assess soil and groundwater conditions within the bus maintenance shop in the vicinity of a hoist and former floor drain, and establish the vertical extent of contaminants observed in 2005 boring B-12 (moderate to heavy sheen from a depth of approximately 2 to 9 feet)							
MW-08	12-15ft	Continuous	Yes	Soil/Water	Gasoline BETX Diesel and Motor Oil VOCs PAHs and Naphthalenes MTCA Metals	NWTPH-Gx 8021B/5035 NWTPH-Dx 8260B (groundwater/ possibly soil) 8270-SIM 6000/7000 Series	Surface to 15 feet	1-2 soil 1 water
	Assess soil and groundwater conditions and potential impacts to Horse Creek in the vicinity of the maintenance shop/steam cleaning area, and establish the lateral and vertical extent of contaminants observed in 2005 borings B-10 and B-10A (visible heavy sheen from a depth of approximately 4 to 7 feet).							
MW-09	12-15ft	Continuous	Yes	Soil/Water	Gasoline BETX Diesel and Motor Oil VOCs PAHs and Naphthalenes PCBs MTCA Metals	NWTPH-Gx 8021B/5035 NWTPH-Dx 8260B (groundwater/ possibly soil) 8270-SIM 8082 6000/7000 Series	Surface to 15 feet	1-2 soil 1 water
	Assess soil and groundwater conditions downgradient of a former waste oil UST and in vicinity of inactive fuel USTs; establish the lateral and vertical extent of contaminants observed in 2005 boring B-13 (visible heavy sheen from a depth of approximately 6 feet)							
MW-10	12-15ft	Continuous	Yes	Soil/Water	Diesel BETX PAHs and Naphthalenes	NWTPH-Dx 8021B/5035 8270-SIM	Surface to 15 feet	1-2 soil 1 water
	Assess soil and groundwater conditions in vicinity of heating oil UST at Ricketts Building.							
MW-11	12-15ft	Continuous	Yes	Soil/Water	Diesel BETX PAHs and Naphthalenes	NWTPH-Dx 8021B/5035 8270-SIM	Surface to 15 feet	1-2 soil 1 water
	Assess soil and groundwater conditions at side of Ricketts Building opposite from heating oil UST and likely site downgradient well							

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Boring No.	Purpose			Media To Be Tested	Chemical of Concern	EPA/Ecology Methodology	Depth of Soil Samples	No. of Samples for Analysis
	Boring Depth	Soil Samples	Groundwater					
MW-12	12-15ft	Continuous	Yes	Soil/Water	HCID, with potential followup VOCs PAHs and Naphthalenes	NWTPH-HCID/5035 8260B (groundwater/ possibly soil) 8270-SIM	Surface to 15 feet	1-2 soil 1 water
	Assess soil and groundwater conditions near downgradient property boundary and provide information for groundwater flow direction analysis							
MW-13	12-15ft	Continuous	Yes	Soil/Water	HCID, with potential followup VOCs PAHs and Naphthalenes	NWTPH-HCID/5035 8260B (groundwater/ possibly soil) 8270-SIM	Surface to 15 feet	1-2 soil 1 water
	Assess soil and groundwater conditions near downgradient property boundary and provide information for groundwater flow direction analysis							
MW-14	12-15ft	Continuous	Yes	Soil/Water	HCID, with potential followup VOCs PAHs and Naphthalenes	NWTPH-HCID/5035 8260B (groundwater/ possibly soil) 8270-SIM	Surface to 15 feet	1-2 soil 1 water
	Assess soil and groundwater conditions near downgradient property boundary and provide information for groundwater flow direction analysis							
MW-15	12-15ft	Continuous	Yes	Soil/Water	Diesel BETX PAHs and Naphthalenes	NWTPH-Dx 8021B/5035 8270-SIM	Surface to 15 feet	1-2 soil 1 water
	Assess soil and groundwater conditions in the vicinity of possible former heating oil UST and provide information for groundwater flow direction analysis.							
MW-16	12-15ft	Continuous	Yes	Soil/Water	HCID, with potential followup VOCs PAHs and Naphthalenes	NWTPH-HCID/5035 8260B (groundwater/ possibly soil) 8270-SIM	Surface to 15 feet	1-2 soil 1 water
	Assess soil and groundwater conditions near downgradient of storage building and provide information for groundwater flow direction analysis							

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Notes:

For suggested Ecology wells 1 through 4, we understand that Ecology has already tested for a full range of hydrocarbon contaminants in the area of the pool building. Therefore, our plan suggests only testing for NWTPH-G/BETX compounds. If additional study finds evidence of other hydrocarbons that may be migrating toward the pool building area, it would be prudent for Ecology to include these compounds in any future monitoring program.

HCID= qualitative hydrocarbon identification

VOCs = volatile organic compounds (includes BETX)

BETX = benzene, ethylbenzene, toluene and xylenes

MTCA Metals = arsenic, cadmium, chromium, mercury and lead

PAHs = polycyclic aromatic hydrocarbons

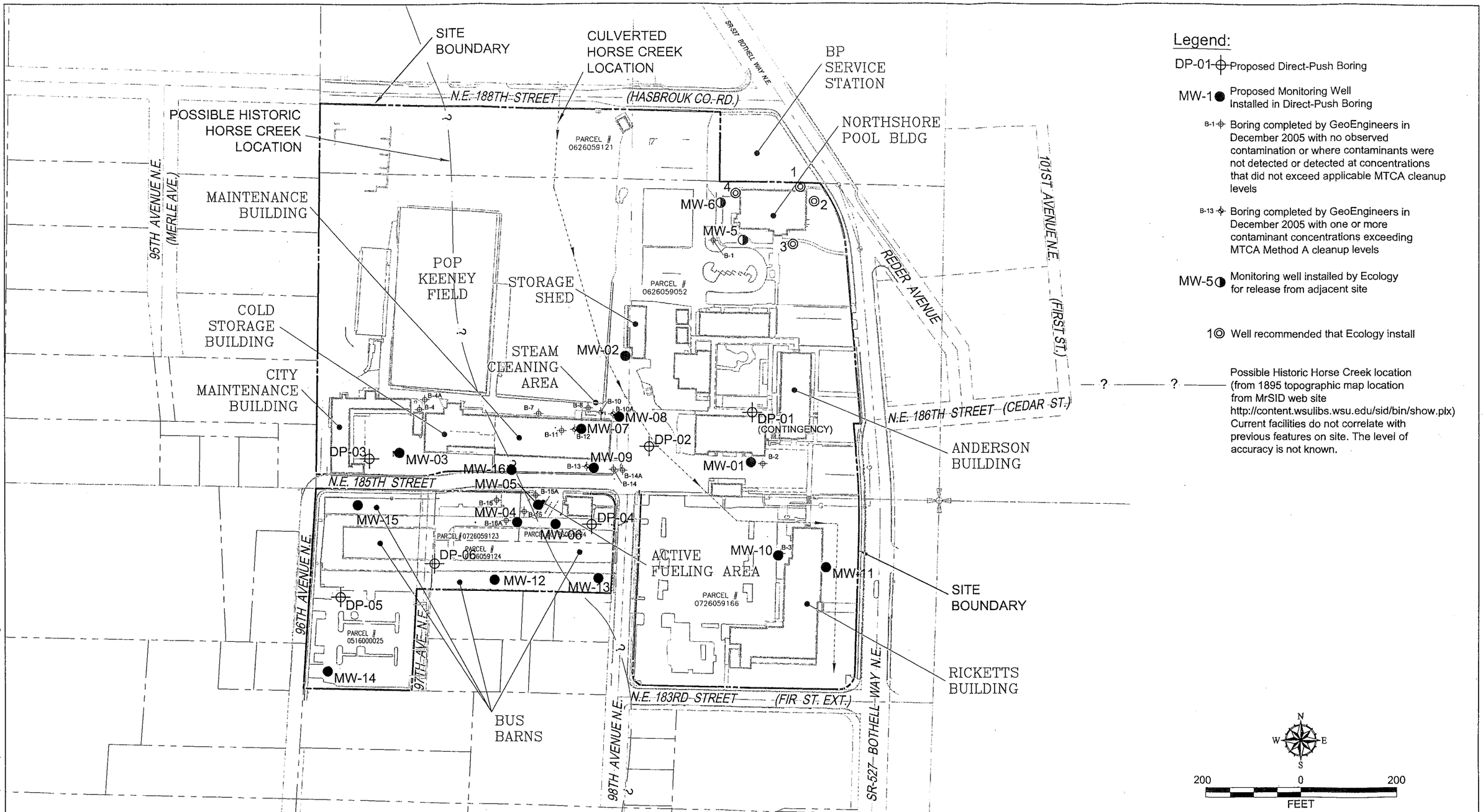
MTBE = methyl tertiary-butyl ether

EDB/EDC = 1-2 dibromoethane and 1-2 dichoroethane

PCBs = polychlorinated biphenyls

UST = underground storage tank

AST = aboveground storage tank



Legend:

DP-01 ⊕ Proposed Direct-Push Boring

MW-1 ● Proposed Monitoring Well Installed in Direct-Push Boring

B-1 ⊕ Boring completed by GeoEngineers in December 2005 with no observed contamination or where contaminants were not detected or detected at concentrations that did not exceed applicable MTCA cleanup levels

B-13 ⊕ Boring completed by GeoEngineers in December 2005 with one or more contaminant concentrations exceeding MTCA Method A cleanup levels

MW-5 ◑ Monitoring well installed by Ecology for release from adjacent site

1 ◎ Well recommended that Ecology install

— ? — ? — Possible Historic Horse Creek location (from 1895 topographic map location from MrSID web site http://content.wsulibs.wsu.edu/sid/bin/show.plx) Current facilities do not correlate with previous features on site. The level of accuracy is not known.

Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: CAD files provided by Pace Engineers, 12/28/05 and COUGHLIN-PORTER-LUNDEEN, 12/05-06. Site details developed from aerial photo obtained from King County GIS Center iMAP (http://www.metrokc.gov/gis/mapportal/iMAP), 1/11/06.

Site Plan

Northshore Downtown Bothell Properties
Bothell, Washington

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Figure 1

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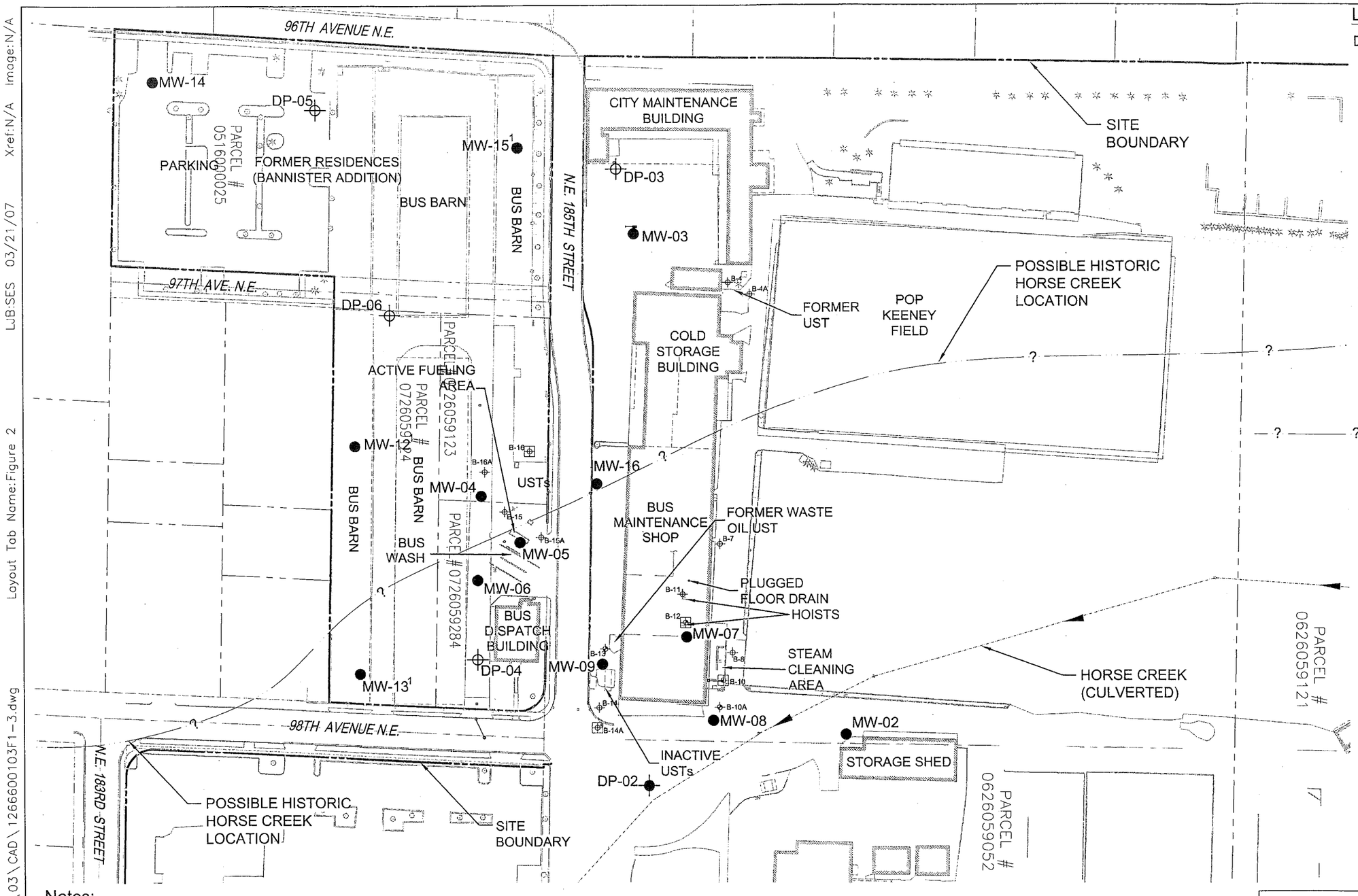

Legend:

DP-01 Proposed Direct-Push Boring

MW-1 Proposed Monitoring Well Installed in Direct-Push Boring

B-1 Boring completed by GeoEngineers in December 2005 with no observed contamination or where contaminants were not detected or detected at concentrations that did not exceed applicable MTCA cleanup levels

B-13 Boring completed by GeoEngineers in December 2005 with one or more contaminant concentrations exceeding MTCA Method A cleanup levels

MW-5 Monitoring well installed by Ecology for release from adjacent site

1 Well recommended that Ecology install

UST = Underground Storage Tank

Possible Historic Horse Creek location (from 1895 topographic map location from MrSID web site http://content.wsulibs.wsu.edu/sid/bin/show.plx)
Current facilities do not correlate with previous features on site. The level of accuracy is not known.

Notes:

1. Boring location may be adjusted in the field to outside of the bus barn if clearance does not allow an adequate monitoring well installation.
2. The locations of all features shown are approximate.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: CAD files provided by Pace Engineers, 12/28/05 and COUGHLIN-PORTER-LUNDEEN, 12/05-06. Site details developed from aerial photo obtained from King County GIS Center iMAP (http://www.metrokc.gov/gis/mapportal/iMAP), 1/11/06.

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FEET

Detail Site Plan
West Portion

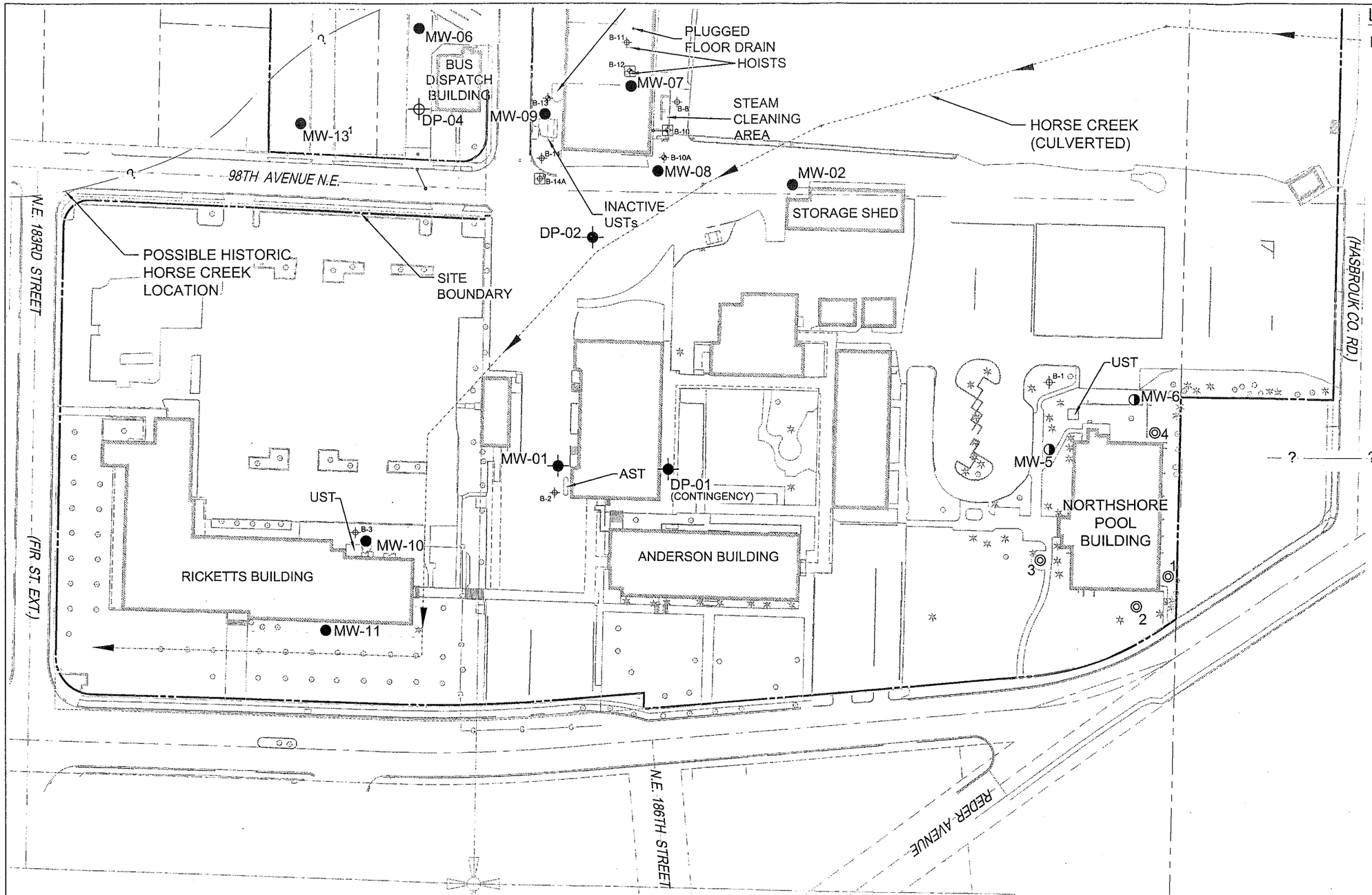
Northshore Downtown Bothell Properties
Bothell, Washington

GEOENGINEERS

Figure 2

REDM \P:\ 12666001\03\CAD\1266600103F1-3.dwg Layout Tab Name:Figure 2 LJB:SES 03/21/07 Xref:N/A Image:N/A

REDM\P:\1266600103\03\CAD\1266600103F1-3.dwg Layout Tab Name:Figure 3 LJB:SES 03/21/07 Xref:N/A Image:N/A



Legend:

- DP-01 Proposed Direct-Push Boring
- MW-1 Proposed Monitoring Well Installed in Direct-Push Boring
- B-1 Boring completed by GeoEngineers in December 2005 with no observed contamination or where contaminants were not detected or detected at concentrations that did not exceed applicable MTCA cleanup levels
- B-13 Boring completed by GeoEngineers in December 2005 with one or more contaminant concentrations exceeding MTCA Method A cleanup levels
- MW-5 Monitoring well installed by Ecology for release from adjacent site
- 1 Well recommended that Ecology install
- UST = Underground Storage Tank
- AST = Aboveground Storage Tank
- Possible Historic Horse Creek location (from 1895 topographic map location from MrSID web site http://content.wsulibs.wsu.edu/sid/bin/show.plx) Current facilities do not correlate with previous features on site. The level of accuracy is not known.

Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: CAD files provided by Pace Engineers, 12/28/05 and COUGHLIN-PORTER-LUNDEEN, 12/05-06. Site details developed from aerial photo obtained from King County GIS Center iMAP (http://www.metrokc.gov/gis/mapportal/iMAP), 1/11/06.

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FEET

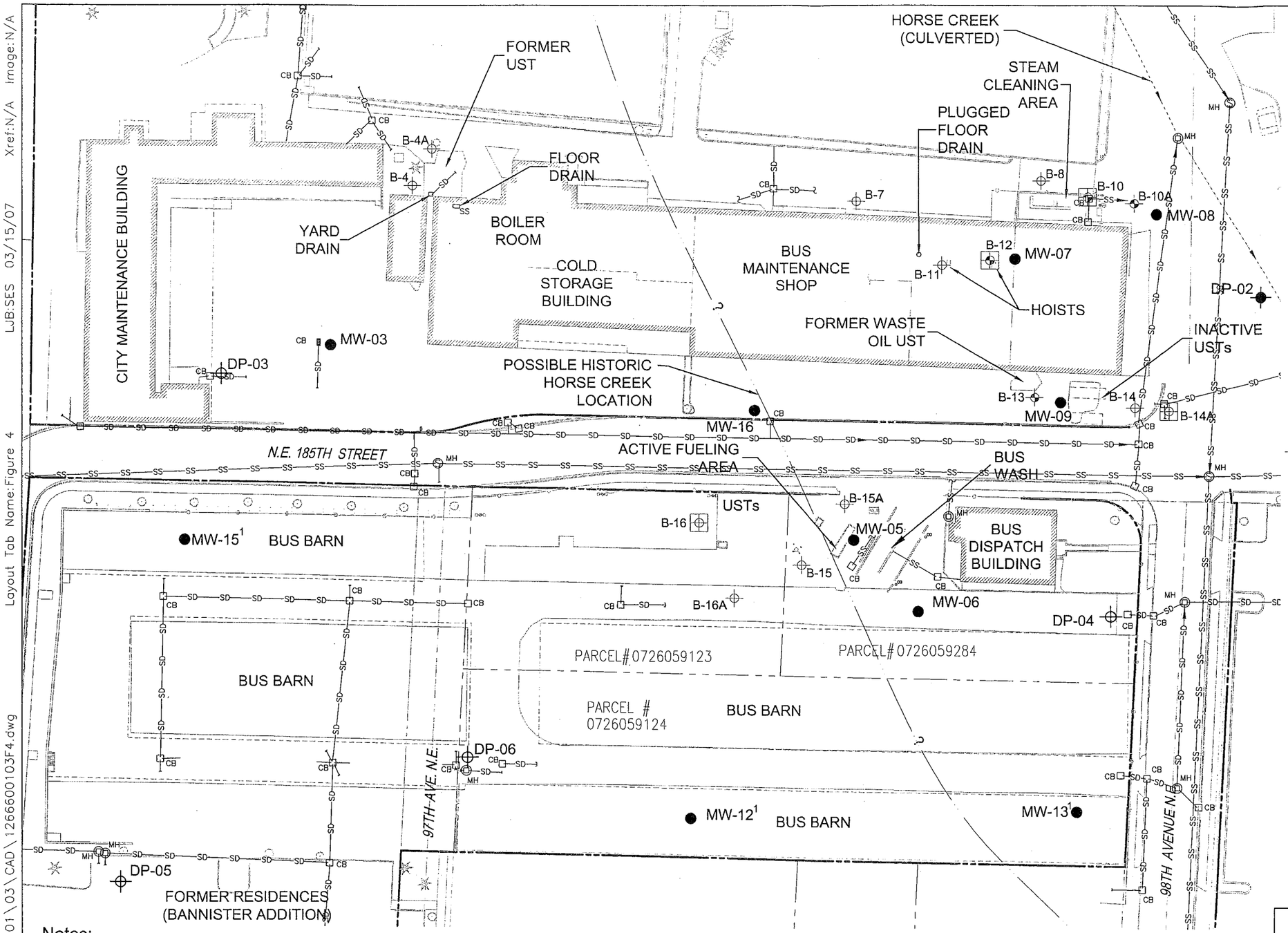
Detail Site Plan
East Portion

Northshore Downtown Bothell Properties
Bothell, Washington

GEOENGINEERS

Figure 3

REDM\P:\1266001\03\CAD\1266001 03F4.dwg Layout Tab Name:Figure 4 LUB:SES 03/15/07 Xref:N/A Image:N/A



Legend:

- B-1 Boring completed by GeoEngineers in December 2005 with no observed contamination or where contaminants were not detected or detected at concentrations that did not exceed applicable MTCA cleanup levels
- B-13 Boring completed by GeoEngineers in December 2005 with one or more contaminant concentrations exceeding MTCA Method A cleanup levels
- MW-5 Monitoring well installed by Ecology for release from adjacent site
- UST = Underground Storage Tank
- AST = Aboveground Storage Tank
- CB Catch Basin
- MH Storm Drain Manhole
- MH Sanitary Sewer Manhole
- ? ? Possible Historic Horse Creek location (from 1895 topographic map location from MrSID web site http://content.wsulibs.wsu.edu/sid/bin/show.plx) Current facilities do not correlate with previous features on site. The level of accuracy is not known.
- SD Storm Drain Line
- SS Sanitary Sewer Line

Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: CAD files provided by Pace Engineers, 12/28/05 and COUGHLIN-PORTER-LUNDEEN, 12/05-06. Site details developed from aerial photo obtained from King County GIS Center iMAP (http://www.metrokc.gov/gis/mapportal/iMAP), 1/11/06.

N W E S

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FEET

Detail Site Plan
Drains in Maintenance & Fueling Areas

Northshore Downtown Bothell Properties
Bothell, Washington

GEOENGINEERS

Figure 4

GeoEngineers

Appendix A
Northshore School District
Downtown Bothell Properties
Remedial Investigation
Sampling and Analysis Plan

APPENDIX A

NORTHSHORE SCHOOL DISTRICT DOWNTOWN BOTHELL PROPERTIES REMEDIAL INVESTIGATION SAMPLING AND ANALYSIS PLAN

SAMPLE LOCATIONS

Soil and groundwater samples will be obtained from 22 direct-push borings (DP-01 through DP-06, and MW-01 through MW-16), as shown on Figures 1 through 4.

SAMPLE COLLECTION

- Soil samples will be retrieved from each interval using a split-barrel sampler fitted with a disposable Teflon sleeve. The sleeve will be cut open with a sharp tool and a portion of the interval will be placed in sample containers supplied by the analytical laboratory for potential chemical analysis. Another portion of soil from the interval will be placed in a plastic bag for field screening. Except for analysis by EPA Method 5035, the sample jar will be filled completely and sealed with a screw cap to eliminate headspace. Samples for analysis of EPA Method 5035 (extraction for volatiles) will be obtained in the following manner: a 10-gram aliquot will be obtained using a laboratory-provided syringe and placed in a laboratory-prepared sample container preserved with methanol.
- Each monitoring well will be sampled after purging the well using dedicated Tygon tubing and a peristaltic pump. The well will be purged until three consecutive measurements of pH, conductivity and temperature are within 5 percent. The samples will be drawn through the Tygon tubing and placed into laboratory-prepared containers. Sample containers will be filled completely to minimize headspace and sealed with a screw cap. Laboratory-prepared preservative will be used if the method requires it. Grab groundwater samples from direct-push borings will be obtained in the same manner except that purging will not be completed before the sample is obtained.

ANALYTES

Chemicals of concern are those associated with storage of heating and automotive fuel, and fueling and repair of vehicles. The analytes that will be tested are provided in Table 1.

ANALYTICAL LABORATORY

Samples will be analyzed at:

CCI Analytical Laboratories, Inc.
8620 Holly Drive
Everett, WA 98208
Tel: (425) 356-2600
Fax: (425) 356-2626

Normal method turnaround times for the chemical analyses will be requested.

SAMPLE HANDLING

Samples will be stored in a cooler containing blue ice pending delivery to the laboratory. Standard chain-of-custody procedures will be followed from the time the samples are obtained until they are delivered to the laboratory. Samples will be analyzed within method holding times, as summarized in Table 1.

DECONTAMINATION

A new pair of gloves will be worn before each sampling attempt, whether soil or groundwater sampling. Dedicated Tygon tubing will be used to sample each monitoring well, and each groundwater sample will be placed in containers provided by the analytical laboratory. The drilling sampler will be decontaminated between each sampling attempt using a LiquiNox or Alconox wash solution and distilled water rinse. We do not anticipate using any other sampling equipment that will need to be decontaminated between sampling sites.

Table 1. Analytical Methods, Sample Containers, Holding Times And Detection Levels For Analyses

Analysis	Method	Minimum Sample Size	Sample Container	Sample Holding Time	Default Reporting Limit
BETX (soil)	EPA 8021B with EPA 5035 extraction	50 grams	4 oz. jar methanol vial	14 days	B = 0.03 mg/kg TE = 0.05 mg/kg X = 0.2 mg/kg
BETX (water)	EPA 8021B	120 mL	(3) - 40 mL glass VOA vials	14 days	BTE = 1.0 ug/l X = 3.0 ug/l
Qualitative Hydrocarbon Identification (soil)	Ecology NWTPH-HCID	50 grams	4 oz. jar	14 days	NA
Qualitative Hydrocarbon Identification (water)	Ecology NWTPH-HCID	1 liter	1 liter amber glass	7 days	NA
Gasoline-range Hydrocarbons (soil)	Ecology NWTPH-GX	50 grams	4 oz. jar	14 days	3.0 mg/kg
Gasoline-range Hydrocarbons (water)	Ecology NWTPH-GX	50 grams	4 oz. jar	14 days	50 ug/l
Diesel- and Heavy oil-range Hydrocarbons (soil)	Ecology NWTPH-Dx with acid-silica gel cleanup	50 grams	4 oz. jar	14 days	25 mg/kg
Diesel- and Heavy oil-range Hydrocarbons (water)	Ecology NWTPH-Dx	400 mL	1/2 liter amber glass with Teflon-lined cap	7 days	250 ug/l
Volatile Organic Compounds (VOCs) (soil)	EPA 8260B	50 grams 5035 kit	4 oz. jar methanol vial and two empty vials	48 hours to freeze empty vials 14 days to test sample	Depends on compound (Will request that reporting limit is less than MTCA Method A cleanup level)
Volatile Organic Compounds (VOCs) (water)	EPA 8260B	120 mL	(3) - 40 mL glass VOA vials	14 days	Depends on compound (Will request that reporting limit is less than MTCA Method A cleanup level)
Polycyclic Aromatic Hydrocarbons (PAHs) and Naphthalenes (soil)	EPA 8270-SIM	50 grams	4 oz. jar	14 days	0.02 or 0.03 mg/kg
Polycyclic Aromatic Hydrocarbons (PAHs) and Naphthalenes (water)	EPA 8270-SIM	1 liter	1 liter amber glass	7 days	0.02 ug/l each

Analysis	Method	Minimum Sample Size	Sample Container	Sample Holding Time	Default Reporting Limit
MTBE, EDB, EDC (soil)	EPA 8021B/ 8260B	50 grams 5035 kit	4 oz. jar methanol vial and two empty vials	48 hours to freeze empty vials 14 days to test sample	0.01 mg/kg each
MTBE, EDB, EDC (water)	EPA 8021B/ 8260B/504	120 mL	(3) - 40 mL glass VOA vials	14 days	MTBE = 3 ug/l EDB/ EDC = 2 ug/l each
Polychlorinated Biphenyl Compounds (PCBs) (soil)	EPA 8082	100 grams	4 oz. jar	14 days	0.1 mg/kg each
Polychlorinated Biphenyl Compounds (PCBs) (water)	EPA 8082	1 liter	1 liter amber glass	7 days	0.1 ug/l each; CCI will J-flag hits above Method Detection Limit of 0.04 ug/l
MTCA Metals (As, Cd, Cr, Pb, Hg) (soil)	EPA 6000/7000 series	50 grams	4 oz. jar	6 months 28 days for Hg	As = 0.84 mg/kg Cd = 0.10 mg/kg Cr = 0.13 mg/kg Pb = 0.72 mg/kg Hg = 0.02 mg/kg
Total MTCA Metals (As, Cd, Cr, Pb, Hg) (water)	EPA 6000/7000 series	100 mL	½ liter plastic HNO3	6 months 28 days for Hg	As = 0.004 mg/l Cd = 0.005 mg/l Cr = 0.007 mg/l Pb = 0.003 mg/l Hg = 0.002 mg/l
Dissolved MTCA Metals (As, Cd, Cr, Pb, Hg) (water)	EPA 6000/7000 series	100 mL	½ liter plastic HNO3	6 months 28 days for Hg	As = 0.004 mg/l Cd = 0.005 mg/l Cr = 0.007 mg/l Pb = 0.003 mg/l Hg = 0.002 mg/l

Notes:

B = Benzene
T= Toluene
E = Ethylbenzene
X = Xylenes
MTBE = methyl tertiary-butyl ether
EDB = 1-2 dibromoethane
EDC = 1-2 dichoroethane
As = Arsenic
Cd = Cadmium
Cr = Chromium
Pb = Lead
Hg = Mercury
VOA = Volatile Organic Analysis
mL = milliliter ug/l = micrograms per liter mg/l = milligrams per liter mg/kg = milligrams per kilogram

Public Health
Seattle & King County

HEALTHY PEOPLE. HEALTHY COMMUNITIES.

Dorothy F. Teeter, MHA, *Interim Director and Health Officer*

February 20, 2007

Edna E. Case
1809 W 2nd St
Grandview, WA 98930

Dear Ms. Case:

Public Health –Seattle & King County has completed the site hazard assessment (SHA) of the Ultra Custom Care Cleaners site (18304 Bothell Way NE, Bothell, WA), as required under the Model Toxics Control Act. This site's hazard ranking, an estimation of the potential threat to human health and/or the environment relative to all other Washington state sites assessed at this time, has been determined to be a 3, where 1 represents the highest relative risk and 5 the lowest.

For your information, Ecology will be publishing the ranking of this and other recently assessed sites in the February 21, 2007 Special Issue of the Site Register. The site hazard ranking will be used in conjunction with other site-specific considerations in determining Ecology's priority for future actions.

Please contact me at (206) 296-4724 if you have any questions relating to the SHA of your site. If you have any inquiries/comments about the site scoring/ranking process, please call Michael Spencer at (360) 407-7195. For inquiries regarding any further activities at your site now that it is on Ecology's Hazardous Sites List, please call Louise Bardy at (425) 649-7209.

Sincerely,

Peter Isaksen, Environmental Health Specialist
Public Health – Seattle & King County

PI:sf

cc: Michael Spencer, Washington Department of Ecology
Louise Bardy, Washington Department of Ecology

Environmental Health Services Division
999 Third Avenue, Suite 700 • Seattle, WA 98104-4039
T 206-205-4394 F 206-296-0189 TTY Relay: 711
www.metrokc.gov/health

City of Seattle
Gregory J. Nickels, *Mayor*

King County
Ron Sims, *Executive*

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
PO Box 47600 • Olympia, WA 98504-7600 • 360-407-6000
TTY 711 or 800-833-6388 (for the speech or hearing impaired)

September 8, 2006

Edna E. Case
1809 West 2nd Street
Grandview, WA 98930

Subject: Site Hazard Assessment – Ultra Custom Care Cleaners
Ecology Facility Site ID: 379891

Dear Ms. Case:

The Department of Ecology (Ecology) will conduct a site hazard assessment (SHA) of Ultra Custom Care Cleaners, 18304 Bothell Way N.E., Bothell, WA 98011, under the Model Toxics Control Act (MTCA), Chapter 173-340-320 WAC. This site has been on Ecology's Confirmed and Suspected Contaminated Sites List, awaiting assessment, since November 1, 2002. This assessment will be performed by Peter Isaksen, Public Health – Seattle & King County. He will contact you in the near future to arrange a suitable time for a site visit, as necessary.

The purpose of an SHA is to gather information on past/present waste management activities, along with other basic site-specific environmental data, in order to score the site following the Washington Ranking Method (WARM) Scoring Manual guidelines. Potential/actual threats to human health and the environment are evaluated for each applicable migration route, with a resultant "hazard ranking" for the site determined.

Sites are ranked on a scale of one to five, with one representing the highest level of concern, and five the lowest, relative to all other assessed/ranked sites in the state. The level of relative concern may be such that a recommendation of "No Further Action" (NFA) is made, and your site will then be removed from Ecology's Integrated Site Information System (ISIS) list.

For your information, Ecology will publish a notice in an upcoming issue of the Site Register that an SHA is scheduled for this site. This notice may evoke media inquiries. Likewise, the outcome of the SHA, either as a ranked site or a determination as NFA, will be published in the Site Register.

In addition to any required fieldwork, the following information will be considered in scoring this site:

- Ecology Northwest Regional Office Site Files
- Public Health – Seattle & King County Site Files

You are requested to submit any additional environmental information regarding this site to:

Mr. Peter Isaksen
Environmental Health
Public Health – Seattle & King County
999 Third Avenue, Suite 700
Seattle, WA 98104-4099

Additional data could include any environmental assessments or laboratory analyses which have been conducted regarding this site and which have not previously been submitted to Ecology. Every attempt will be made to obtain the most recent and accurate data for scoring your site. If you have better information or comments on the adequacy of the data we already have, please let us know as soon as possible. The final site rank and eventual site priority will be based primarily on the information used in the scoring. Your active participation in the assessment and scoring process is important to insure that only the best data available is used.

Fact sheets describing Site Hazard Assessments, the Washington Ranking Method and the Hazardous Sites List are enclosed for your information, as well as a copy of the ISIS Site Data Summary Sheet for this site. If you have any questions please call me at (360) 407-7195 or Peter Isaksen (206) 296-4724.

Sincerely,

Michael J. Spencer
Site Hazard Assessments
Toxics Cleanup Program

MJS:ms
Enclosures (4)

cc: Peter Isaksen, Public Health – Seattle & King County
Louise Bardy, Ecology Northwest Regional Office

WORKSHEET 1
Summary Score Sheet

SITE INFORMATION:

Name: **Ultra Custom Care Cleaners**
Address: **18304 Bothell Way NE**
City: **Bothell** County: **King** State: **WA** Zip: **98011**
Section/Township/Range: **07/ T27N/ R05E**
Latitude: **47° 45' 39.8934"** Longitude: **-122° 12' 25.7603"**

FS ID #: **379891**

Site scored/ranked for the February 21, 2007 update

Site Description

The Ultra Custom Care Cleaners site consists of one parcel of land, 11,057 square feet in area located in Bothell, Washington. The site is almost entirely covered by concrete and asphalt covered parking areas and by one building. The building contains three businesses, including the Ultra Custom Care dry-cleaning business, Franks Hair Design, a hair salon and the Laundry Basket, a laundromat. The building was built in 1967 and covers 4,104 square feet. There are open soils along the back wall of the building. The back wall appears to be built along the east property line of the parcel with no setback. The site and the surrounding neighborhood are served by the City of Bothell Sewer and Water Departments. Storm water from the site is collected in surface drains, travels by a storm water pipe system and discharges to a drainage area 1,025 feet south of the site. The storm water then goes to the Sammamish River which runs from east to west, south of the site. The river drains to Lake Washington, and eventually to Puget Sound at the Ballard Locks. There are living quarters within 100 feet of the building in the form of houses to the northeast. The site is across Bothell Way from an alternative High School.

Background

The current building was built over the site of a previous building. This original building was located on the southwestern portion of the parcel and was built in 1948. A business called the Rain Check Cleaners occupied the building. It is believed this business used Tetrachloroethylene in its dry cleaning operations. Farallon Consulting LLC, Issaquah, WA had conducted a subsurface investigation at the site in 2002. Farallon sent a letter to the Washington State Department of Ecology (Ecology) notifying them of the presence of Tetrachloroethylene (PCE) and its breakdown products Trichloroethylene (TCE), and cis-1,2-Dichloroethylene (DCE) in groundwater at the site. These levels were shown to be above Washington States Model Toxic Control Act (MTCA) Method A Cleanup Levels for groundwater in a report called Subsurface Investigation Report, Ultra Custom Care Cleaners Property, Farallon Consulting LLC on file at Ecology's Northwest Regional office (NWRO) library. Steve Bremer and Neil Wood from NWRO conducted an Initial Investigation in October of 2002. The site was listed on Ecology's Confirmed and Suspected Contaminated Sites and an Early Notice letter was sent to the owners of the site to advise them of the listing on November 1, 2002.

The most recent environmental study for this site was conducted by Environmental Partners Inc, and was completed November 30, 2004. The document is titled Chlorinated VOC nature and Extent Investigation Letter Report, Case Property, 18300-18304 Bothell Way NE, Bothell, Washington, EPI Project No. 46101.0. Further study was conducted at the site to determine where the high levels of contamination found in the groundwater study above could have come from. The results seem to show a source for this contamination to be in the area of the former building occupied by Rain Check Cleaners. Selected significant results for continued contamination above MTCA Method A Cleanup Levels are listed in the following section. (Note, not all sampling information has been provided below due to space limitations, please refer to the Environmental Partners Inc report listed above and on file at NWRO.)

Results of Analysis

Table 1. Selected Groundwater sampling analytical results EPA Method 8260, Environmental Partners Inc, Issaquah WA, November 30, 2004

Analyte	B-1:9 (ug/L)	B-2:9 (ug/L)	B-3:9 (ug/L)	B-4:9 (ug/L)	B-10 (ug/L)	B-16 (ug/L)	Standard	ug/L (ppb)
Tetrachloroethylene (PCE)	6400	14	410	1900	23	30	MTCA A ULU*	5
Trichloroethylene (TCE)	110	ND<2	ND<2	210	ND<2	ND<2	"	5
Cis-1,2-Dichloroethylene	31	ND<2	ND<2	160	ND<2	ND<2	MTCA B ULU**	80

*MTCA A ULU refers to the Model Toxics Control Act Table 720-1 Method A Cleanup Levels for Ground Water.
** MTCA B ULU refers to the CLARC Version 3.1 Method B Cleanup Levels for Ground Water.
Yellow Color highlights levels above cleanup standards.

Site Hazard Assessment

A Site Hazard Assessment site visit was conducted by Peter Isaksen, Public Health – Seattle & King County on January 23, 2007. The entire site was covered by building, concrete and asphalt. There were no visible changes at the surface of the site to indicate cleanup efforts had begun.

Pathway Information

Subsurface **Soils** at the site were documented to have been impacted by dry cleaning contaminants and their breakdown products. The contamination is mostly covered by building and hard surfaces, however some migration has been shown to have occurred in the unsaturated soils zone due to the volatile nature of the contaminants.

The **Surface Water Pathway** is not likely a significant route of potential exposure at this site because the contamination appears to be subsurface, and the site is capped by asphalt and concrete. However due to the volatile nature of the contamination and the presence of foundation footing drains, there is still potential for surface water to be affected by contamination from this site. The **Air Pathway**, is a significant route of potential exposure due to the volatile nature of any remaining contamination, and the fact that there are houses within 100 feet of the site.

Groundwater sampling data is available for this site and shows that the contamination remains above MTCA Method A Cleanup levels (and/or Method B levels) for dry cleaning products and their breakdown products. However, it appears no public water supplies are at risk from any remaining subsurface contamination. The residents in this neighborhood and most nearby neighborhoods are served by the City of Bothell Public Water System. This system has its source in the Cascade Mountain Range in far eastern King County. The nearest public well appears to be over a mile away to the north, and appears to be upgradient from the soils of this site.

Conclusions/Recommendation

Soils and groundwater have been shown to be contaminated by dry cleaning products and their breakdown products at this site. The main cause of the contamination seems to be from the soils near the former Rain Check Cleaners building. The current owner of the site is planning a clean up for the contamination, but is unsure of a method to employ, and has no timetable in place for the effort.

SPECIAL CONSIDERATIONS (include limitations in site file data or data which cannot be accommodated in the model, but which are important in evaluating the risk associated with the site, or any other factor(s) over-riding a decision of no further action for the site):

The Air Environmental Route is not scored due to a lack of environmental toxicity data.

ROUTE SCORES:

Surface Water/Human Health:	**7.0**	Surface Water/Environmental.:	**8.9**
Air/Human Health:	**44.4**	Air/Environmental:	**NS**
Groundwater/Human Health:	**41.5**		

OVERALL RANK: 3

WORKSHEET 2
Route Documentation

1. **SURFACE WATER ROUTE**

   a. List those substances to be considered for scoring: Source: 1

   Tetrachloroethylene (PCE), Trichloroethylene (TCE), and cis-1,2-Dichloroethylene

   Explain basis for choice of substance(s) to be used in scoring.

   Analytical results from soil and water sampling indicate the presence of these hazardous substances at levels which exceed our current Method A cleanup levels.

   b. List those management units to be considered for scoring: Source 1

   Surface and subsurface soils

   c. Explain basis for choice of unit to be used in scoring:

   Spills/discharges caused soil contamination

2. **AIR ROUTE**

   a. List those substances to be considered for scoring: Source: 1

   PCE, TCE and cis-1,2-Dichloroethylene

   b. Explain basis for choice of substance(s) to be used in scoring:

   Analytical results from soil and water sampling indicate the presence of these hazardous substances at levels which exceed our current Method A cleanup levels.

   c. List those management units to be considered for scoring: Source: 1

   Surface and subsurface soils

   d. Explain basis for choice of unit to be used in scoring:

   Spills/discharges caused soil contamination

3. **GROUNDWATER ROUTE**

   a. List those substances to be considered for scoring: Source: 1

   PCE, TCE and cis-1,2-Dichloroethylene

   b. Explain basis for choice of substance(s) to be used in scoring:

   Analytical results from soil and water sampling indicate the presence of these hazardous substances at levels which exceed our current Method A cleanup levels.

List those management units to be considered for scoring: Source: 1

Surface and subsurface soils

Explain basis for choice of unit to be used in scoring:

Spills/discharges caused soil contamination

WORKSHEET 4
Surface Water Route

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human Toxicity

	Substance	Drinking Water Standard (µg/L)	Value	Acute Toxicity (mg/kg-bw)	Value	Chronic Toxicity (mg/kg/day)	Value	Carcinogenicity		Value
								WOE	PF*	
1	Tetrachloroethylene (PCE)	5	8	800 (rat)	5	0.01	3	B2	0.051	4
2	Trichloroethylene (TCE)	5	8	2402 (mus)	3	-	ND	B2	0.011	4
3	Cis-1,2-Dichloroethylene	70	6	-	ND	0.01	3	-	-	ND

Potency Factor

Source: 1, 2
Highest Value: 8
(Max = 10)
Plus 2 Bonus Points? Yes
Final Toxicity Value: 10
(Max = 12)

1.2 Environmental Toxicity

	Substance	Acute Water Quality Criteria		Non-Human Mammalian Acute Toxicity	
		(µg/L)	Value	(mg/kg)	Value
1	Tetrachloroethylene (PCE)	5280	2		
2	Trichloroethylene (TCE)	45000	2		
	Cis-1,2-Dichloroethylene	11600	2		

Source: 1, 2
Highest Value: 2
(Max = 10)

1.3 Substance Quantity

Explain Basis: Unknown. Sampling has not determined the extent of contamination, nor has located the highest contaminated soils. Use Default.

Source: 1, 3
Value: 1
(Max = 10)

2.0 MIGRATION POTENTIAL

		Source	Value
2.1	**Containment:** Management unit scored as a spills/discharges/contaminated soil, with ineffectively maintained run-on/runoff controls (mostly covered). **Explain basis:** While most of the site is capped (parking lots, buildings, etc), it is believed the foundation footing drains discharge to storm water.	1, 3	4 (Max = 10)
2.2	**Surface Soil Permeability:** site consists of gravelly sand and sand	3, 10	1 (Max = 7)
2.3	**Total Annual Precipitation:** average annual precipitation for Bothell, WA = 40 in	3, 9	3 (Max = 5)
2.4	**Max 2yr/24hr Precipitation:** 1.5 in	3	2 (Max = 2)
2.5	**Flood Plain:** Not in a flood plain	3	0 (Max = 2)
2.6	**Terrain Slope:** Piped	3, 10	3 (Max = 5)

3.0 TARGETS

		Source	Value
3.1	**Distance to Surface Water:** 1025 feet	3, 6	7 (Max = 10)
3.2	**Population Served within 2 miles (see WARM Scoring Manual Regarding Direction):** $\sqrt{0} = 0$	3, 7	0 (Max = 75)
3.3	**Area Irrigated by surface water within 2 miles : (0.75)*√ # acres =** $.75 * \sqrt{0} = 0$	3, 6	0 (Max = 30)
3.4	**Distance to Nearest Fishery Resource:** 1455 feet, Sammamish River	3, 6	9 (Max = 12)
3.5	**Distance to, and Name(s) of, Nearest Sensitive Environment(s):** 1025 ft, Bothell Landing City Park	3, 6	9 (Max = 12)

4.0 RELEASE

Explain Basis: Not documented	Source: 3 **Value: 0** (Max = 5)

WORKSHEET 5
Air Route

1.0 SUBSTANCE CHARACTERISTICS

1.1. Introduction

1.2 Human Toxicity										
	Substance	Air Standard (µg/m³)	Value	Acute Toxicity (mg/ m³)	Value	Chronic Toxicity (mg/kg/day)	Value	Carcinogenicity		Value
								WOE	PF*	
1	Tetrachloroethylene (PCE)	1.1	9	-	ND	-	ND	B2	-	ND
2	Trichloroethylene (TCE)	0.0091	10	-	ND	-	ND	B2	0.017	4
3	Cis-1,2-Dichloroethylene	2630.7	1	6500	3	-	ND	-	-	ND

* *Potency Factor*

Source: 1, 2, 3

Highest Value: 10
(Max = 10)

Plus 2 Bonus Points? 2

Final Toxicity Value: 12
(Max = 12)

1.3 Mobility (Use numbers to refer to above listed substances)				
	1.3.1 Gaseous Mobility	1.3.2 Particulate Mobility		
	Vapor Pressure(s) (mmHg)	Soil Type	Erodibility	Climatic Factor
1	18, Value = 4	Gravel, Sand	22	10 – 30
2	58, Value = 4			
3	210, Value = 4			

Source: 3
Value: 4
(Max = 4)

Source: 3, 10
Value: 0
(Max = 4)

1.4 Highest Human Health Toxicity/ Mobility Matrix Value (from Table A-7)

Final Matrix Value: 24
(Max = 24)

1.5	Environmental Toxicity/Mobility					
	Substance	**Non-human Mammalian Inhalation Toxicity (mg/m^3)**	**Acute Value**	**Mobility (mmHg)**	**Value**	**Matrix Value**
1	Tetrachloroethylene (PCE)	No Data	-	18	4	-
2	Trichloroethylene (TCE)	No Data	-	58	4	-
	Cis-1,2-Dichloroethylene	No Data	-	210	4	-

Highest Environmental Toxicity/Mobility Matrix Value (from Table A-7) = **Final Matrix Value: NS**
(Max = 24)

1.6	Substance Quantity	
	Explain Basis: Unknown. Sampling has not determined the extent of contamination, nor has located the highest contaminated soils. Use Default.	Source: 3, 8 **Value: 1** (Max = 10)

2.0 MIGRATION POTENTIAL

		Source	Value
2.1	**Containment:** Uncontaminated soil cover <2 feet thick	7	**5** (Max = 10)

3.0 TARGETS

		Source	Value
3.1	**Nearest Population:** 75' to nearest house	3, 7	**10** (Max = 10)
3.2	**Distance to [and name(s) of] nearest sensitive environment(s) [fisheries excluded]:** Bothell Landing City Park ~450'		**10** (Max = 7)
3.3	**Population within 0.5 miles: √ pop.** = ~1657 Units * 3 residents = 4971 √4971 = 70.51	3, 6	**71** (Max = 75)

4.0 RELEASE

Explain Basis for scoring a release to air: Not documented	Source: 3, 8 **Value: 0** (Max = 5)

WORKSHEET 6
Groundwater Route

1.0 SUBSTANCE CHARACTERISTICS

1.2 Human Toxicity

	Substance	Drinking Water Standard (µg/L)	Value	Acute Toxicity (mg/ kg-bw)	Value	Chronic Toxicity (mg/kg/day)	Value	Carcinogenicity		Value
								WOE	PF*	
1	Tetrachloroethylene (PCE)	5	8	800 (rat)	5	0.01	3	B2	0.051	4
2	Trichloroethylene (TCE)	5	8	2402 (mus)	3	-	ND	B2	0.011	4
3	Cis-1,2-Dichloroethylene	70	6	-	ND	0.01	3	-	-	ND

* *Potency Factor*

Source: 1, 2

Highest Value: 8
(Max = 10)

Plus 2 Bonus Points? 2

Final Toxicity Value: 10
(Max = 12)

1.2 Mobility (use numbers to refer to above listed substances)

Cations/Anions [Coefficient of Aqueous Migration (K)] OR	Solubility (mg/L)
1=	1= 150, Value = 2
2=	2= 1100, Value = 3
3=	3= 3500, Value = 3

Source: 3

Value: 3
(Max = 3)

1.3 Substance Quantity:

Explain basis: Unknown. Sampling has not determined the extent of contamination, nor has located the highest contaminated soils. Use Default.	Source: 1, 3 **Value: 1** (Max=10)

2.0 MIGRATION POTENTIAL

		Source	Value
2.1	**Containment (explain basis):** While most of the site is capped (parking lots, buildings, etc), groundwater contamination has been documented.	3	10 (Max = 10)
2.2	**Net precipitation:** Bothell 2N: 27.3" – 5.4" = 21.9"	2	3 (Max = 5)
2.3	**Subsurface hydraulic conductivity:** the site consists of gravel, and sand	3	4 (Max = 4)
2.4	**Vertical depth to groundwater:** Measured at 9' below ground surface	3, 5	8 (Max = 8)

3.0 TARGETS

		Source	Value
3.1	**Groundwater usage:** Public supply, but alternate sources available with minimum hookup requirements	3	4 (Max = 10)
3.2	**Distance to nearest drinking water well:** ~5800 **feet**	3, 5	1 (Max = 5)
3.3	**Population served within 2 miles:** √ **pop.** = √39 = 6.24	3, 7	7 (Max = 100)
3.4	**Area irrigated by (groundwater) wells within 2 miles:** **(0.75)*√# acres** = 0.75 * √0= 0	3, 6	0 (Max = 50)

4.0 RELEASE

	Source	Value
Explain basis for scoring a release to groundwater: Confirmed by analysis	1, 3	5 (Max = 5)

SOURCES USED IN SCORING

1. Chlorinated VOC Nature and Extent Investigation Letter Report, Case Property, 18300-18304 Bothell, WA, EPI project number 46101.0, November 30, 2004, by Environmental Partners, Issaquah, WA
2. Washington State Department of Ecology, Toxicology Database for Use in Washington Ranking Method Scoring, January 1992
3. Washington State Department of Ecology, WARM Scoring Manual, April 1992.
4. Washington Climate – Net Rainfall Table
5. Washington State Department of Ecology, Water Well Reports
6. Public Health Seattle & King County, Environmental Health Envision Group B Water System Data
7. Washington State Department of Health, Office of Drinking Water website for public water supplies, http://www4.doh.wa.gov/SentryInternet/Disclaimer.aspx?Page=/SentryInternet/FindWaterSystem.aspx
8. Ultra Custom Care Cleaners file, WSDOE records at the Northwest Regional Office

9. Western Regional Climate Center's Historical Climate Information
10. National Resources Conservation Service Soil Survey Data of King County, WA, King County GIS

150 0 150 300 450 Feet

Ultra Custom Care Cleaners
Site Hazard Assessment
18304 Bothell Way NE
Bothell, WA 98011

Legend

Bothell Storm sewers

King County Streets

Ultra Custom Care Cleaners Site

Image T26R05_05n100.sid

N

150 0 150 300 450 Feet

Ultra Custom Care Cleaners
Site Hazard Assessment
18304 Bothell Way NE
Bothell, WA 98011

Legend

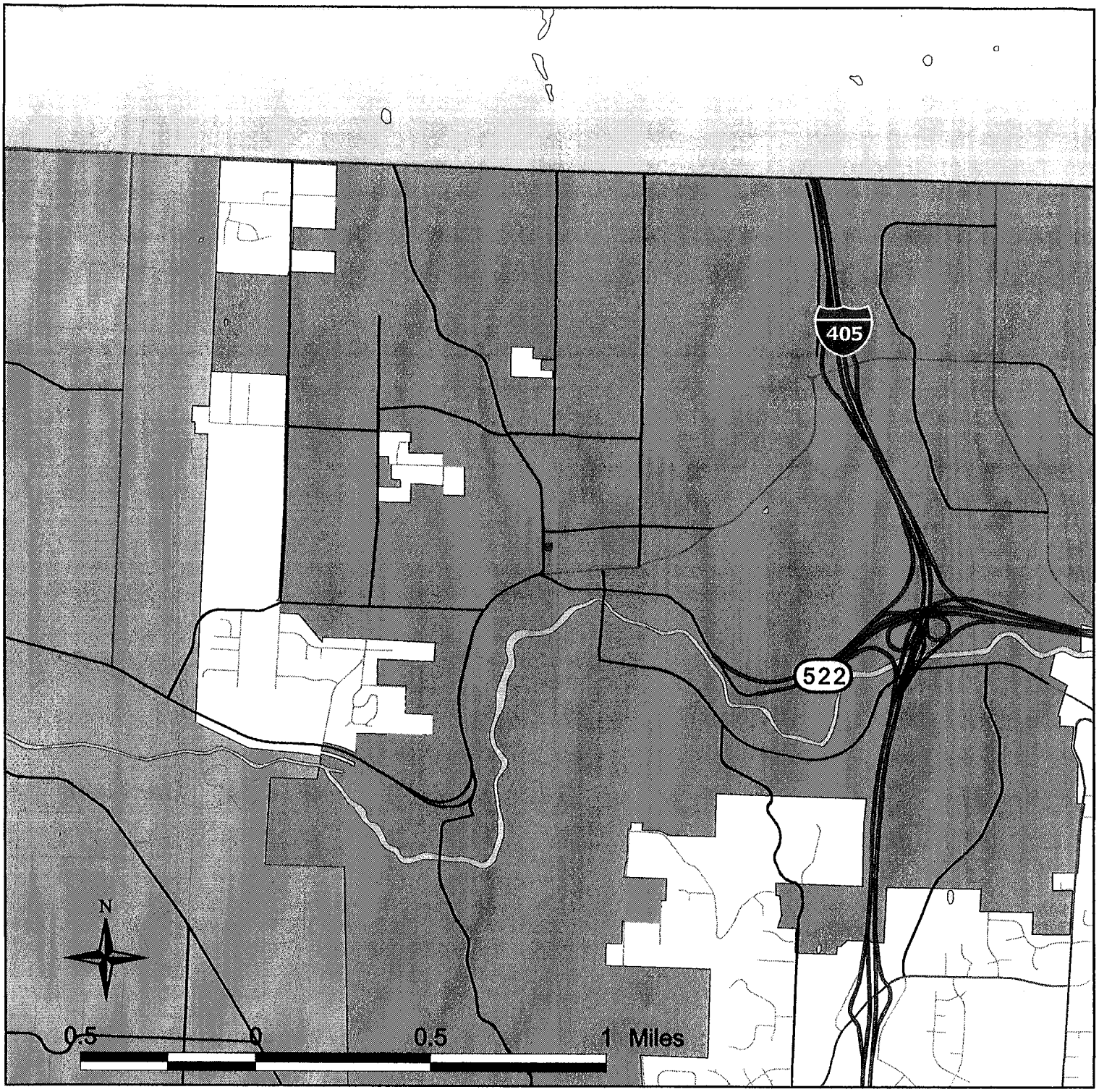
Bothell Storm sewers

King County Streets

Ultra Custom Care Cleaners Site

Image T26R05_05n100.sid

N



Municipal Boundary Map
Ultra Custom Care Cleaners
18304 Bothell Way NE
Bothell, WA 98011

Public Health
Seattle & King County
HEALTHY PEOPLE. HEALTHY COMMUNITIES.

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Peter Isaksen, Environmental Health GIS, February 12, 2007

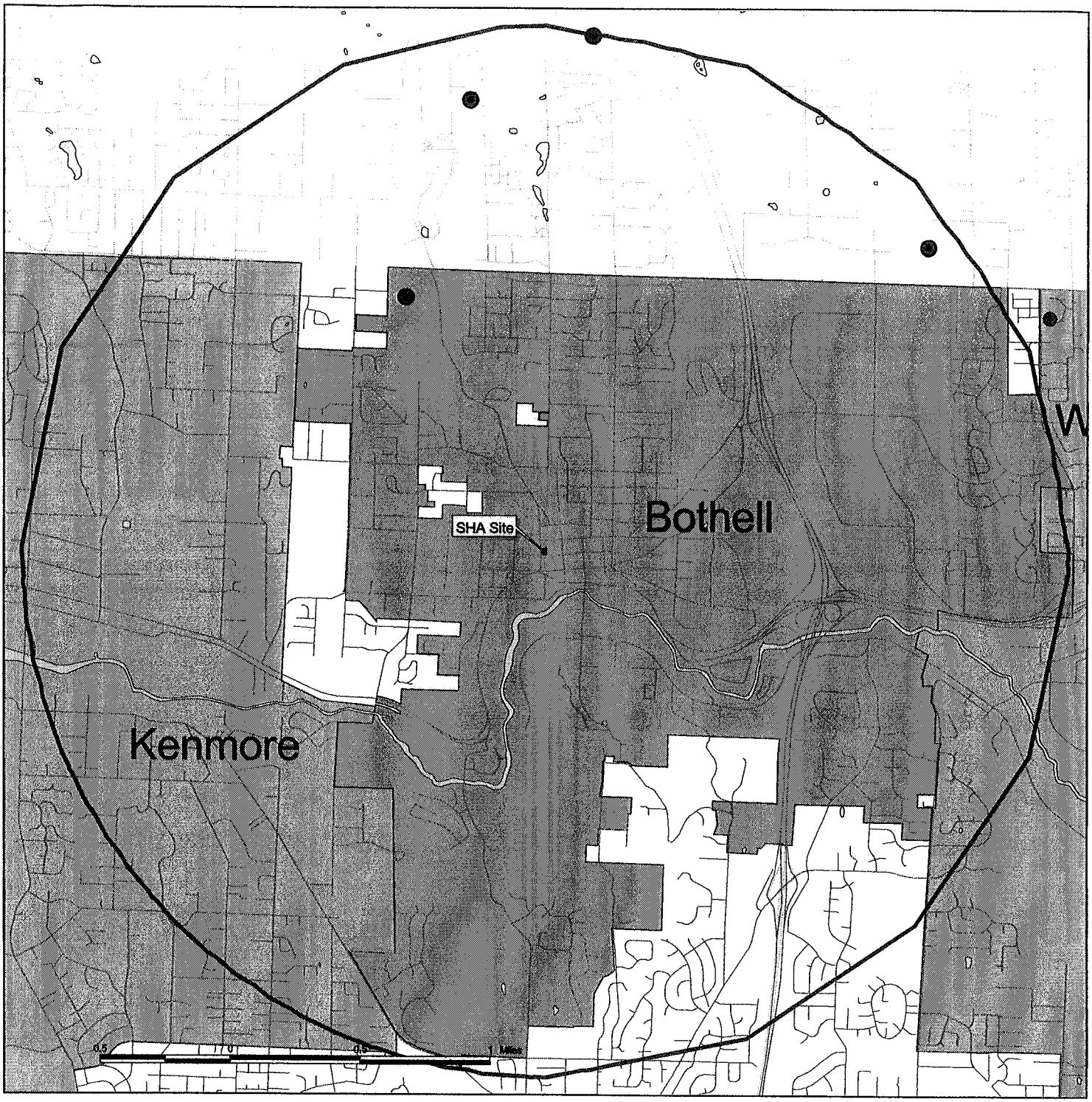
Legend

Ultra Custom Care Cleaners SHA Site

King County Streets
- Freeway
- Primary
- Collector
- Minor
- Local

Open Water
- Rivers and Lakes
- Wetland

King County Municipal Boundaries
- Bothell
- Kenmore
- King County Boundary
- Snohomish County



Site Hazard Assessment
Wells Within a
Two Mile Radius

Ultra Custom Care Cleaners
18304 Bothell Way
Bothell, WA 98011

N

Public Health
Seattle & King County
HEALTHY PEOPLE. HEALTHY COMMUNITIES.

Legend

- 2 Mile Buffer of Ultra Custom Care Site
- Group B Well Locations Within Two Mile Radius
- Ultra Custom Care Cleaners Site
- Group B Wells
- King County Streets
- Snohomish County Roads

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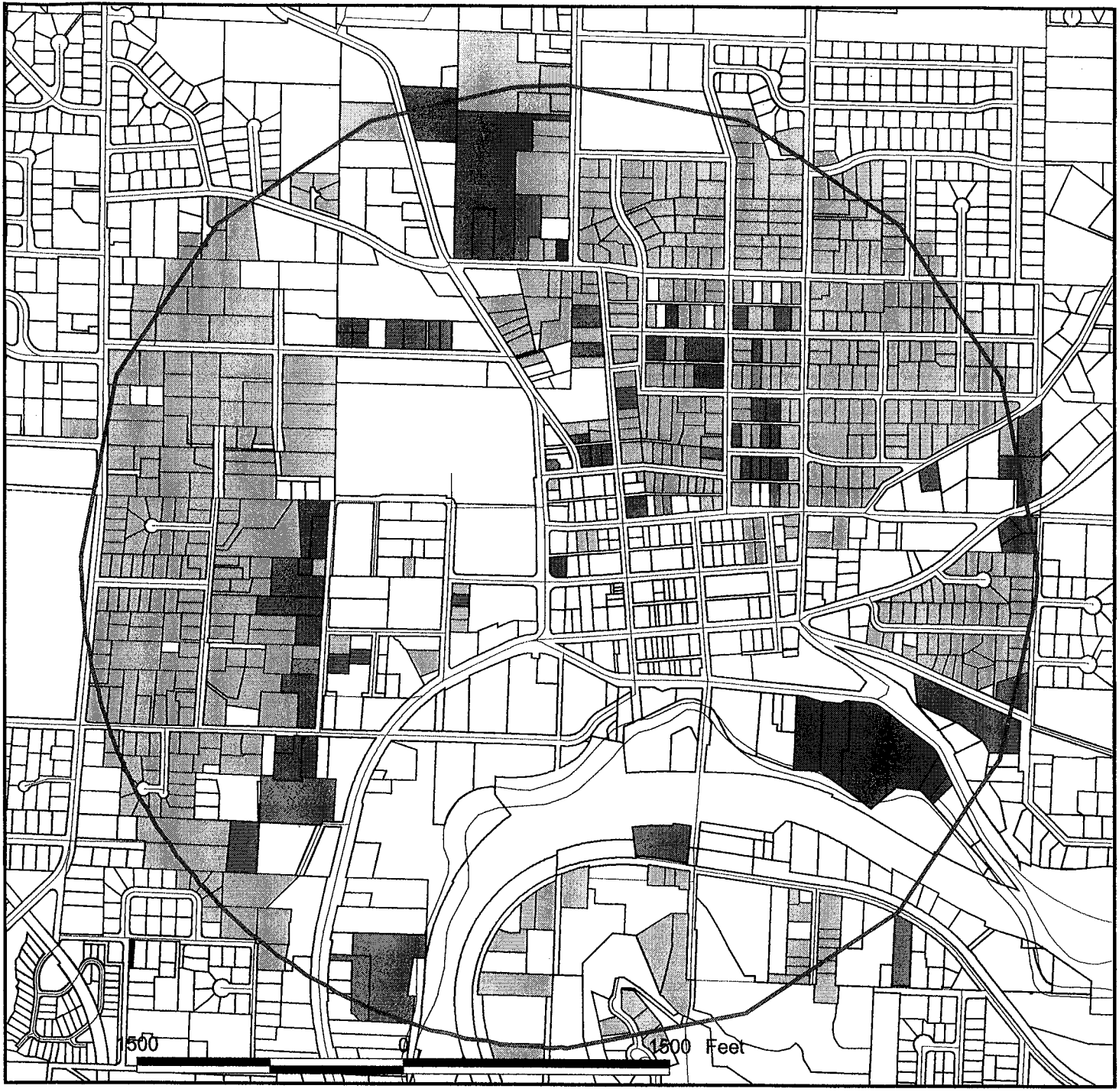
Peter Isaksen, Environmental Health GIS, February 7, 2006



Site Hazard Assessment
Ultra Custom Care Cleaners
18304 Bothell Way NE
Bothell, WA 98011

Population Within One-half Mile
From King County Situs Data
Population = 4971

N

Legend

- Ultra Custom Care Cleaners Site
- Half-Mile Buffer of Ultra Custom Care Cleaners Site
- Mobil Home Park, 97 Units
- Residential Parcels, 571 units
- Condominium, 202 Units
- Apartments, 787 Units
- King County Streets
- Parcel

Open Water

- Rivers and Lakes
- Wetland

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Peter Isaksen, Environmental Health GIS, February 7, 2007

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SUBSURFACE INVESTIGATION REPORT

ULTRA CUSTOM CLEANERS PROPERTY
18300 – 18304 BOTHELL WAY NORTHEAST
BOTHELL, WASHINGTON

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FIGURES

Figure 1 Site Vicinity

Figure 2 PCE Concentrations in Soil and Water

Figure 3 Potentiometric Surface Contour Map

TABLES

Table 1 Summary of Soil Analytical Results

Table 2 Groundwater Elevations

Table 3 Summary of Water Analytical Results

APPENDICES

Appendix A Boring Logs

Appendix B Laboratory Analytical Reports

1.0 INTRODUCTION

Farallon Consulting, L.L.C. (Farallon) has prepared this report to document the results of the subsurface investigation conducted at the Ultra Custom Care Cleaners property, located at 18300-18304 Bothell Way Northeast in Bothell, Washington (the Site; Figure 1). The subsurface investigation was conducted for the city of Bothell in accordance with the *Proposal for Subsurface Investigation*, prepared by Farallon and dated January 25, 2002. The subsurface investigation was conducted as an independent remedial action in accordance with the Washington State Department of Ecology (Ecology) Model Toxics Control Act (MTCA) Cleanup Regulations, Chapter 173-340 of the Washington Administrative Code (WAC), amended February 2001. The objectives of the subsurface investigation included:

- To assess potential source area(s) at the Site and to characterize the on-site distribution of the dry cleaning solvent tetrachloroethene (PCE) and associated degradation compounds, such as trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride previously identified in soil and groundwater at the Site; and
- To evaluate the potential for off-site sources that may be discharging PCE or associated degradation compounds to the stormwater sewer system upgradient of the Site.

Presented below is an overview of the relevant background information on the Site, a description of the field work conducted for the subsurface investigation, the results of the subsurface investigation, and conclusions.

2.0 BACKGROUND INFORMATION

The Site covers approximately 11,057 square feet including an asphalt parking area on the west half and a single-story brick building on the east half of the Site. The building is currently occupied by Ultra Custom Cleaners (Cleaners), Frank's Barber Shop, and Nu Life Laundromat from north to south (Figure 2).

Prior to the subsurface investigation, Farallon reviewed the following documentation provided by Ogden Murphy Wallace, P.L.L.C., counsel for the city of Bothell:

- *Phase I Environmental Site Assessment* (Phase I ESA), dated June 12, 2001, prepared by EHS International, Inc. (EHS) for the Bothell Police Department; and
- *Phase II Environmental Site Assessment and Limited Hazardous Materials Survey* (Phase II ESA), dated August 15, 2001, prepared by EHS for the Bothell Police Department;

According to the Phase I ESA, the Site was owned by the town of Bothell until 1944 and was undeveloped. A commercial building was constructed on the Site in 1948 and operated as a restaurant. The current building on site was reportedly constructed in 1967 and remodeled in 1979. Reportedly, dry cleaning operations have existed at the Site from the late 1960s to the present; however, Farallon's review of the King County Tax Assessor records in the Phase I ESA report indicates that Raincheck Cleaners was present at the Site as early as 1955 in a former building located on the southwest portion of the Site.

The Phase I ESA identified a number of recognized environmental conditions (RECs) for the Site. The RECs included chemical storage and contaminated soil/groundwater based on historical dry cleaning operations at the Site since 1968 and underground storage tanks (USTs) located in close proximity to the Site. Based on these RECs, EHS recommended a Phase II ESA.

The Phase II ESA performed by EHS included: advancing four borings (SB-1 through SB-4) to a total depth of 12 feet below ground surface (bgs), and collection of soil and groundwater reconnaissance samples; collection of surface water and sediment samples from two stormwater catch basins (SS-1 and SS-2); and a hazardous materials survey (Figure 2). Analytical results of soil, sediment, groundwater reconnaissance, and surface water samples for halogenated volatile organic compounds (HVOCs) by the United States Environmental Protection Agency (EPA) Method 8260B detected concentrations of PCE and associated degradation compounds.

Surface water samples collected from stormwater catch basins SS-1 and SS-2 (Figure 2) contained concentrations of 500 micrograms per liter (µg/l) and 25 µg/l PCE, respectively. The surface water sample collected from catch basin SS-1, located adjacent to the northeast corner of the existing building, suggests that a source of PCE is located in the immediate vicinity. In addition, a sediment sample collected from the bottom of catch basin SS-2 detected low concentrations of PCE and associated degradation compounds.

The presence of concentrations of PCE and degradation compounds, including TCE and cis-1,2-DCE, in the shallow soil samples collected from borings SB-1 through SB-4, and the sediment sample from stormwater catch basin SS-2, was indicative of an older release and volatilization of PCE from contaminated shallow groundwater beneath the Site. Based on the southern groundwater flow direction reported in the Phase II ESA, PCE detected in shallow groundwater at boring location SB-4 indicated migration of concentrations of PCE in groundwater from a potential source area at the northeast end to the southern portion of the Site (Figure 2).

Typical source areas identified by Farallon at other dry cleaner sites include releases from dry cleaning machines, PCE stills, floor drains and associated sanitary and storm sewer lines, chemical and waste storage areas, and waste disposal areas (e.g., dumpsters and disposal to the ground surface). Subsurface utilities such as sanitary and storm sewer lines can provide preferential transport pathways from the point(s) of release. The Phase I and II ESAs conducted at this Site were not focused on the locations of most of these typical dry cleaner site source areas.

Based on the available information, Farallon identified the following data gaps regarding the source and distribution of PCE and associated degradation compounds at the Site:

- Potential on-site source locations were not identified;
- The potential for an off-site, upgradient source to contribute PCE and associated degradation compounds detected in water and a sediment sample collected from the northeastern catch basin was not assessed;
- The locations of potential on-site preferential contaminant migration pathways were not identified;
- The distribution of PCE and associated degradation compounds in soil and groundwater had not been characterized; and
- The gradient and approximate direction of groundwater flow had not been determined.

The scope of work developed for the subsurface investigation was designed to address these data gaps.

3.0 SUBSURFACE INVESTIGATION

The purpose of the subsurface investigation was to identify the potential source(s) of PCE and to characterize the distribution of PCE and associated degradation compounds in soil and groundwater at the Site. The subsurface investigation also included a historical records review to evaluate the potential for off-site sources of contamination. The scope of work for the subsurface investigation conducted by Farallon included the following:

- Site Reconnaissance and Historical Review;
- Subsurface Utility Survey;
- Soil Sampling;
- Monitoring Well Development and Groundwater Sampling; and
- Preparation of this Subsurface Investigation Report.

3.1 SITE RECONNAISSANCE AND HISTORICAL REVIEW

Farallon performed a site reconnaissance in January 2002 prior to conducting the field work to identify potential on-site source areas and preferential migration pathways such as sanitary and storm drain lines, floor drains, former and existing locations of dry cleaning equipment, chemical and waste storage areas, and potential waste disposal areas at the Site. Farallon reviewed available city of Bothell building records and subsurface utility maps, and interviewed city of Bothell employees regarding the Site. The city of Bothell did not have specific maps, plans or other information regarding the utilities on site. Therefore, the historical review was supplemented with a specialized utility locate to trace the existing sanitary sewer for the building as described below in Section 4.2.

In addition, Farallon reviewed historical Sanborn Fire Insurance Maps for the Site and vicinity at the Bellevue Regional Library. Only the 1926 and 1929 maps were available for review. Both maps showed the Site developed with a single-family residence. Residences occupied the adjacent properties to the north and northeast. The east adjacent property appeared to be occupied by a blacksmith business. Fir Street was adjacent to the south and a highway was adjacent to the west. No potential contaminant sources were identified on the Sanborn Fire Insurance Maps reviewed; however, the Sanborn Maps were not conclusive at identifying potential historical contaminant sources between the period of 1929 and the present.

3.2 SUBSURFACE UTILITY SURVEY

A specialized subsurface utility survey was performed on February 25, 2002, by a plumbing subcontractor under the supervision of Farallon. The specialized subsurface utility survey included tracing the sanitary sewer line from several locations inside the dry cleaners using snaking techniques and a cable camera. This information was used to identify potential sources and preferential migration pathways, and to select soil and groundwater sample locations for the subsurface investigation. Prior to performing the drilling activities, Farallon also utilized the

one-call utility location service and a private utility location service to confirm the location of subsurface utilities.

During the specialized utility survey, two side sewer lines were identified at the northern and southern ends of the dry cleaners (Figure 2). The northern side sewer line consists of 2-inch diameter piping that connects to the floor drains inside the dry cleaner and extends from the northeast corner of the building to the northwest corner of the Site. The exact location of this northern side sewer line was not determined west of the northwest catch basin because the signal transmission used by the locating equipment to trace the sewer line was lost. The southern side sewer line connects to the bathroom sink and toilet in the dry cleaner and extends west from the southern wall of the dry cleaners into the parking lot where the signal transmission used by the locating equipment to trace the sewer line was lost (Figure 2). The location of the connection between the sewer main in the street and the southern-side sewer line was not determined. Dye testing results indicated that both the northern and the southern side sewers are connected to the sanitary sewer manhole located in the street adjacent to the northwest corner of the Site.

Mr. Jon Morrow of the city of Bothell conducted dye testing at the Site after the subsurface investigation was completed. Dye was injected into the floor drain located in the northeast corner of the dry cleaners and into the toilet at the dry cleaners on March 7 and April 2, 2002, respectively. According to Mr. Morrow, the dye test results indicated that all of the drains and plumbing tested flowed to the sanitary sewer manhole located in the street adjacent to the northwest corner of the Site (Figure 2).

3.3 SOIL SAMPLING AND MONITORING WELL INSTALLATION

A total of six borings were drilled at the Site during the subsurface investigation and monitoring wells were installed in three of the borings. On February 25, 2002, three borings (SB-5 through SB-7) were advanced beneath the floor of the dry cleaner in the vicinity of the current dry cleaning machine and floor drains, located along the east wall of the building, to evaluate these potential source areas (Figure 2). Farallon contracted with Cascade Drilling Inc. of Bothell, Washington, to drill the borings using hand-held hydraulic-push drilling methods.

Each boring was continuously sampled to a total depth of approximately 6 feet bgs where groundwater was first encountered. A Farallon scientist supervised advancement of the borings and documented the lithology of the soil in accordance with the Unified Soil Classification System (USCS). The soil samples were field screened for potential evidence of contamination by visual observation, odor, and using a photoionization detector (PID) to detect volatile organic compounds (VOCs). Soil samples were transferred directly from the dedicated plastic sampling liners into a laboratory-prepared sample container and placed on ice pending transport to the analytical laboratory. Based on the field screening results, one soil sample from each boring was selected for laboratory analysis. The boring logs are included in Appendix A.

The soil samples selected for laboratory analysis were from intervals above the groundwater table to characterize HVOC concentrations in the unsaturated zone. The soil samples were submitted to OnSite Environmental Inc., (OnSite) of Redmond, Washington, for analysis of

HVOCs by EPA Method 8260B. The results of the soil and reconnaissance sample analyses are presented in Section 3.5.

Three monitoring wells (MW-1 through MW-3) were installed on site between February 19 and 25, 2002 (Figure 2) by Cascade Drilling Inc. A truck-mounted drill rig using hollow-stem auger drilling methods was used to advance and install monitoring wells MW-1 and MW-2, and a limited-access hollow-stem auger drill rig was used to advance and install monitoring well MW-3.

Monitoring well MW-1 was located in the south-central (downgradient) portion of the Site near the former Raincheck Cleaners building. Monitoring wells MW-2 and MW-3 were placed in the vicinity of the northwestern and northeastern storm drain catch basins, respectively. The location of monitoring well MW-3 was also adjacent to the back door of the dry cleaner, which is a potential source area where chemical and used filter storage, and waste disposal typically occur at dry cleaning businesses. Farallon collected soil and groundwater samples from the monitoring wells to:

- Assess potential source areas that may be contributing to groundwater contamination (the northern storm drain catch basins);
- Evaluate groundwater conditions in the south end of the property where a former "laundry/cleaning" business may have used dry cleaning chemicals.
- Define the lateral extent of PCE and associated degradation compounds in on-site groundwater;
- Assess basic groundwater geochemistry; and
- Evaluate hydrogeologic characteristics such as groundwater flow and hydraulic gradient.

Soil at each well boring was continuously sampled to the total depth drilled. A Farallon scientist supervised advancement of the borings and documented the lithology in accordance with the USCS. The soil samples were field screened for potential evidence of contamination by visual observation, odor, and using a PID to detect VOCs. Soil samples were transferred directly from the dedicated plastic sampling liners into a laboratory-prepared sample container and placed on ice pending transport to the analytical laboratory. Based on the field screening results, one soil sample from each boring was selected for laboratory analysis. The boring logs are included in Appendix A.

The soil samples selected for laboratory analysis were typically from intervals above the groundwater table to characterize HVOC concentrations in the unsaturated zone, with the exception of one soil sample from boring MW-2, which was collected at the contact between the unsaturated and saturated zones. The soil samples were submitted to OnSite for analysis of HVOCs by EPA Method 8260B. The results of the soil sample analyses are presented in Section 3.5.

The soil sample collected from boring MW-2 was also analyzed by Ecology Method NWTPH-Gx to screen for Stoddard solvent, which was a common solvent used in dry cleaning operations prior to 1970. The soil sample collected from boring MW-2 was selected for

Stoddard solvent analysis because of elevated PID readings and a strong chemical odor noted during drilling.

The monitoring wells were constructed of 2-inch diameter, Schedule 40 PVC with a 10-foot length of 0.010-slot screen. A number 2/12 sand filter pack was placed from the bottom of the well to approximately 2 feet above the top of the screened interval. A bentonite seal was placed from the top of the filter pack to just below grade and the wells were completed to grade with a flush-mounted steel wellhead monument set in concrete. The total depth of the wells ranged from 13.5 to 15 feet bgs. The screened interval was selected based on the depth to first encountered groundwater during drilling. Well construction details are provided for each well on the Log of Well forms in Appendix A.

3.4 MONITORING WELL DEVELOPMENT AND GROUNDWATER SAMPLING

Boring MW-1 was advanced to a total depth of 30 feet bgs for the purpose of investigating subsurface soil stratigraphy for the potential presence of a confining soil layer. A reconnaissance groundwater sample was collected from the bottom of boring MW-1 and submitted for analysis for HVOCs to characterize the groundwater quality of the deeper portion of the shallow aquifer. Upon completion of the reconnaissance groundwater sampling, the boring was backfilled with bentonite to 15.5 feet bgs and monitoring well MW-1 was constructed to a total depth of approximately 14.5 feet bgs.

The groundwater monitoring wells were developed following installation and the top of the well casings were surveyed with respect to an arbitrary on-site datum to assess the direction of groundwater flow and the hydraulic gradient. The wells were allowed to stabilize for a minimum of 48 hours prior to groundwater level monitoring and collection of groundwater samples.

The three monitoring wells were purged and sampled on March 6, 2002. A minimum of three well casing volumes of groundwater was purged from each well prior to sampling. Well purging and sampling was performed using dedicated disposable plastic bailers. Farallon measured pH, dissolved oxygen, temperature, specific conductance, and oxidation-reduction potential during well purging to confirm stabilization of groundwater conditions prior to sampling.

Groundwater samples collected from the monitoring wells were submitted to OnSite for analysis of HVOCs by EPA Method 8260B. In addition, a groundwater sample was collected from monitoring well MW-2 and submitted for analysis by Ecology Method NWTPH-Gx to screen for Stoddard solvent.

All soil cuttings, decontamination water, and other wastewater generated during the subsurface investigation were placed in appropriately labeled 55-gallon steel drums and stored on site. The analytical results of the soil and groundwater samples will be used to develop a waste profile and select the appropriate disposal option.

3.5 SOIL ANALYTICAL RESULTS

The soil encountered in the six borings advanced by Farallon and previous borings advanced during the Phase II ESA at the Site consisted predominantly of a poorly graded, fine- to medium-grained sand with trace silt and minor, discontinuous interbeds of silty sand and gravel to the total depth drilled of 30 feet bgs. No laterally continuous or thick fine-grained soil layer was encountered in the borings advanced by Farallon or during the Phase II ESA at the Site. Groundwater was encountered between 5 and 8 feet bgs at the time of drilling.

PID readings, recorded during drilling, of the three borings completed inside the building (SB-5 through SB-7) were highest near the surface and decreased with depth. No odors were noted with the exception of a slight solvent odor in the soil sample collected from boring SB-7 between 0.33 to 3 feet bgs. Due to the low volumes of soil contained in the 2-inch split spoon sampler, headspace readings were collected between soil samples. Soil samples from depths closest to the highest PID readings and/or odors were submitted for laboratory analysis.

PID readings during drilling of the three monitoring well borings (MW-1 through MW-3) were highest in soil samples collected from boring MW-2. A strong chemical odor was noted in soil samples collected from boring MW-2 between 1 to 10 feet bgs. PID readings generally decreased in soil samples collected below 12 feet bgs in borings MW-1 and MW-2. PID readings in soil samples collected from boring MW-3 varied without a trend. Either the soil sample with the highest PID reading and/or odor, or the soil sample from the soil/water interface, was submitted for laboratory analysis.

Soil analytical results are summarized in Table 1. The laboratory analytical reports for the soil samples collected during this subsurface investigation are included as Appendix B. Concentrations of PCE above the laboratory method reporting limit were detected in the shallow soil sample from every boring drilled at the Site. Also, concentrations of one or more of the following constituents: TCE, methylene chloride, and 1,2-dichlorobenzene were detected above their laboratory method reporting limits in at least one soil sample. However, none of the analytes were detected at concentrations exceeding their respective MTCA cleanup levels. Additionally, methylene chloride is a common laboratory solvent and may have been introduced during sample preparation by the laboratory.

Results of TPH-G analysis for the soil sample collected from monitoring well MW-2 indicated that compounds eluted in the gasoline range; however, the chromatogram for this analysis was not representative of petroleum hydrocarbons or Stoddard solvent. The laboratory indicated that the chromatogram was not typical of gasoline-range petroleum hydrocarbons and may be representative of a chemical mixture similar to Pine-Sol cleaning product rather than gasoline-range petroleum hydrocarbons.

3.6 GROUNDWATER ANALYTICAL RESULTS

A shallow groundwater-bearing zone was encountered between approximately 5 and 8 feet bgs at the Site in the poorly graded sand. The inferred groundwater flow direction is to the south-

southwest with a calculated gradient of 0.026 feet/foot. The depth to groundwater measurements and calculated groundwater elevations relative to an arbitrary datum are summarized in Table 2.

Groundwater analytical results are summarized in Table 3. The laboratory analytical reports for the groundwater samples collected during this subsurface investigation are included in Appendix B.

The groundwater sample collected from monitoring well MW-1 contained 880 µg/l PCE and 18 µg/l TCE. These concentrations exceeded the MTCA Method A cleanup levels for PCE and TCE of 5 µg/l. PCE was detected at a concentration of 29 µg/l in the groundwater reconnaissance sample collected from monitoring well MW-1 between 26 and 29 feet bgs. Concentrations of the following constituents: chloroform, cis-1,2-DCE, and trans 1,2-DCE were also detected in the groundwater sample from monitoring well MW-1 above the laboratory reporting method limit but below their respective MTCA Method A or B cleanup levels.

Concentrations of PCE were detected in groundwater samples collected from monitoring wells MW-2 and MW-3 (0.41 µg/l and 4.7 µg/l, respectively), and chloroform was detected in the groundwater sample collected from monitoring well MW-3 (0.44 µg/l), above the laboratory reporting limit but below the MTCA Method A or B cleanup levels. Stoddard solvent was not detected in the TPH-G analysis of the groundwater sample collected from monitoring well MW-2. The laboratory stated that the chromatogram for this groundwater sample appeared to indicate the presence of a chemical mixture similar to Pine-Sol cleaning product.

4.0 CONCLUSIONS

The subsurface investigation conducted at the Site by Farallon was performed as an independent remedial action in accordance with Ecology's MTCA Chapter 173-340 WAC. The subsurface investigation consisted of: a review of previous environmental site assessments conducted by others; a historical records review to identify potential off-site contaminant sources; an on-site subsurface utility investigation to identify potential contaminant sources and preferential migration pathways; advancing six soil borings at the Site to evaluate soil conditions; and completing three of the borings as monitoring wells. The following conclusions are based on the results of this subsurface investigation:

- The historical records review was not conclusive at evaluating potential off-site contaminant sources due to the timeframe (1920s) of available records.

- Two sanitary side-sewer lines were identified on site. The side sewer line that parallels the north side of the building is connected to the floor drains inside the dry cleaner and the other side-sewer line that parallels the south wall of the dry cleaner is connected to the bathroom sink and toilet inside the dry cleaner. Based on the dye testing results conducted by the city of Bothell, both sanitary sewer lines appear to connect to the manhole located in the street at the northwest corner of the Site.

- Concentrations of PCE were detected in soil and groundwater samples collected from borings near the side-sewer lines (MW-2, MW-3, SB-1, SB-3, and SB-4; Figure 2). However, the concentrations did not confirm that a release had occurred from either of the side-sewer lines.

- Soil underlying the Site is comprised predominantly of a poorly graded fine- to medium-grained sand. No confining layer/aquitard was encountered to the maximum depth drilled of 30 feet bgs.

- Soil samples collected from borings inside the building contained concentrations of PCE, but did not confirm that releases had occurred from the floor drains or dry cleaning equipment.

- Soil and groundwater samples collected near the northeast and northwest storm drain catch basins contained concentrations of PCE but did not confirm that releases of PCE occurred from the storm drain catch basins.

- The inferred groundwater flow direction is to the south-southwest with a 0.026 feet/foot gradient.

- No HVOCs were detected in soil samples at concentrations exceeding respective MTCA Method A or B cleanup levels. However, concentrations of PCE were detected above the laboratory reporting limit at every location sampled. The distribution of PCE in soil is

likely due to volatilization of PCE from shallow groundwater and absorption onto overlying soil in the vadose (unsaturated) zone.

- The groundwater analytical results indicate a source of PCE is present at the Site based on the relatively low concentration of PCE (4.7 µg/l) detected in the groundwater sample collected from the up-gradient monitoring well MW-3 and the higher concentration of PCE (880 µg/l) detected in the groundwater sample collected from the down-gradient monitoring well MW-1.

- The contaminant concentrations detected in groundwater samples collected from monitoring well MW-1 suggest that off-site migration of contaminants to the south-southwest is likely.

- The deeper reconnaissance groundwater sample collected from boring MW-1 detected a concentration of 29 µg/l PCE that is also above the MTCA Method A cleanup level of 5 µg/l for PCE. Therefore, the vertical extent of groundwater contamination above the MTCA Method A cleanup level at the site has not been determined.

- Based on the data from the Phase II ESA and the results of this subsurface investigation, the on-site plume of PCE in groundwater appears to extend from the northeast corner of the Site and follows the groundwater flow direction to the south-southwest.

- The presence of the PCE degradation products TCE, cis-1,2-DCE, and trans 1,2-DCE suggest that the release is not recent.

The historical records review was not conclusive at evaluating potential off-site contaminant sources. The potential source areas at the Site, identified in Farallon's *Proposal for Subsurface Investigation*, were investigated as proposed. Soil and groundwater analytical results indicate that there is a PCE source area on site; however, a specific source area(s) was not identified at the locations investigated. Potential on-site preferential contaminant migration pathways have been identified and the groundwater flow direction and gradient have been determined. The on-site distribution of PCE and associated degradation compounds in soil and groundwater has been determined with the exception of the vertical extent in groundwater at the location of monitoring well MW-1. The extent and distribution of contaminants in soil and groundwater off site were not included in Farallon's scope of work for this subsurface investigation.

5.0 LIMITATIONS

The conclusions and recommendations contained in this report/assessment are based on professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location and are subject to the following inherent limitations:

- **Accuracy of Information.** Certain information utilized by Farallon in this report/assessment has been obtained, reviewed, and evaluated from various sources believed to be reliable. Although Farallon's conclusions, opinions, and recommendations are based in part on such information, Farallon's services did not include the verification of its accuracy or authenticity. Should such information prove to be inaccurate or unreliable, Farallon reserves the right to amend or revise its conclusions, opinions, and/or recommendations.

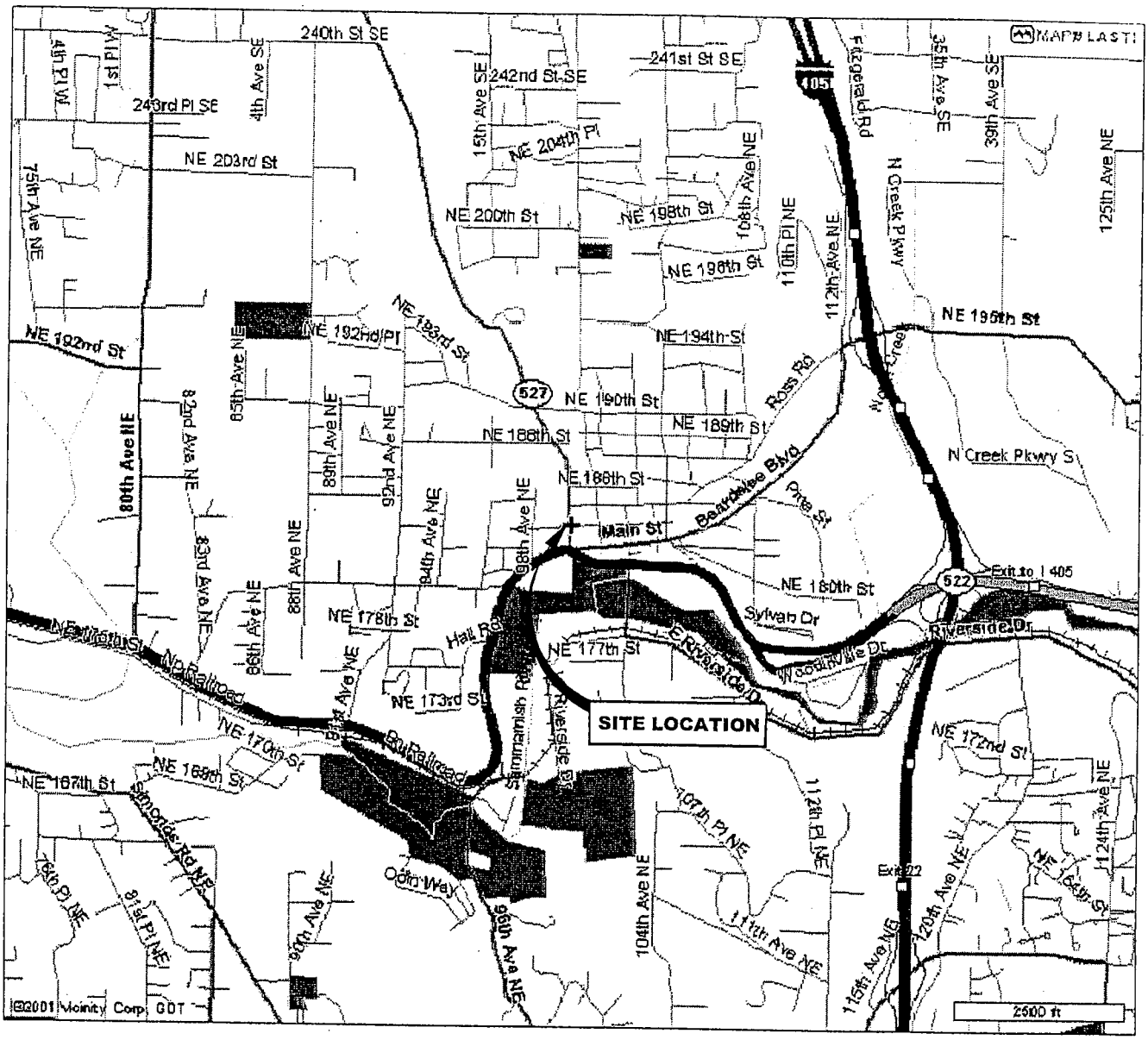
- **Reconnaissance.** Farallon performed a reconnaissance of the Site that is the subject of this report/assessment to document current conditions. Farallon focused on areas deemed more likely to exhibit hazardous materials conditions, while other areas received limited attention or were inaccessible at the time of our reconnaissance.

- **Limitations.** Because Farallon's report is based on information, the accuracy of which has not been determined, and because Farallon's observations made during site reconnaissance are limited, Farallon cannot and does not guarantee that the site is free of hazardous or potentially hazardous materials or conditions, or that latent or undiscovered conditions will not become evident in the future. Since site activities beyond our control could change at any time after the completion of this report/assessment, our observations, findings, and opinions can only be considered valid as of the date of the report hereof. This report/assessment is prepared in accordance with the client contract and currently accepted industry standards, and no other warranties, representations, or certifications are made. Unless stated otherwise herein, this report is intended for and restricted to the sole use of the city of Bothell and their agents. Any use, interpretation, or reliance upon this report/assessment by anyone other than the city of Bothell and their agents is at the sole risk of that party, and Farallon shall have no liability for such unauthorized use, interpretation, or reliance.

FIGURES

SUBSURFACE INVESTIGATION
Ultra Custom Care Cleaners Property
18300 – 18304 Bothell Way Northeast
Bothell, Washington

Farallon PN: 773-001



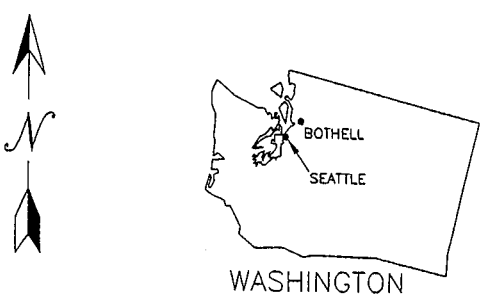


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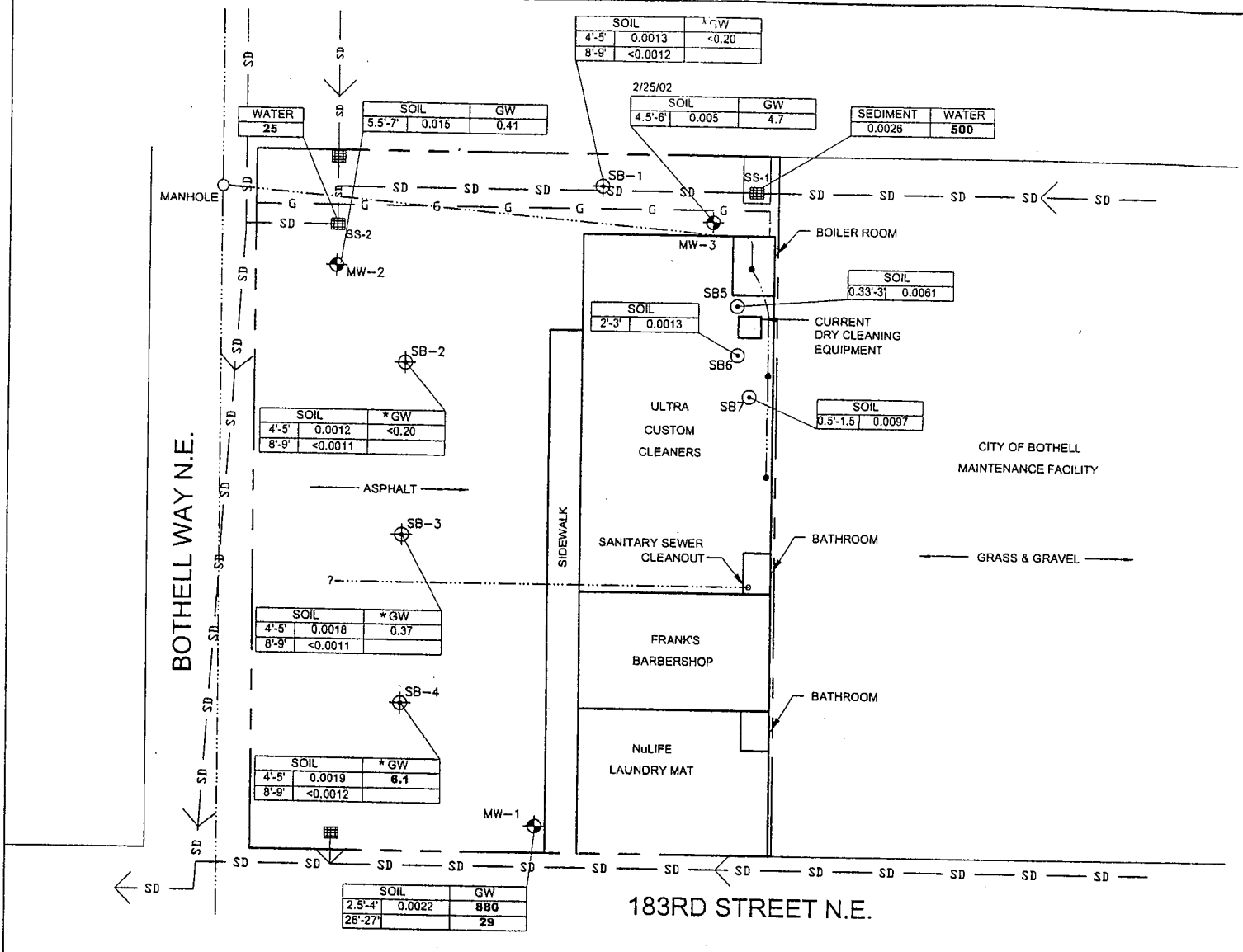
FIGURE 1

SITE VICINITY

ULTRA CUSTOM CLEANERS SITE
18300 BOTHELL WAY NE
BOTHELL, WASHINGTON

FARALLON PN: 773-001

Drawn By: DEW	Checked By: RC	Date: 12/17/01	Disk Reference: 773001



LEGEND

MW-1 — GROUNDWATER MONITORING WELL LOCATION (FARALLON 2/2002)

SB-3 — SOIL BORING LOCATION (IT CORPORATION 7/2001)

SB5 — SOIL BORING LOCATION (FARALLON 2/2002)

GW/*GW/ WATER 25 — GROUNDWATER SAMPLE, RECONNAISSANCE GROUNDWATER SAMPLE, WATER SAMPLE; PCE CONCENTRATION IN MICROGRAMS PER LITER

SOIL 0.5'-1.5 0.0097 — SOIL SAMPLE; PCE CONCENTRATION IN MILLIGRAMS PER KILOGRAM; DEPTH IN FEET BELOW GROUND SURFACE

25 — BOLD INDICATES CONCENTRATION EXCEEDS MTCA METHOD A CLEANUP LEVEL

PCE = TETRACHLOROETHENE

STORM DRAIN CATCH BASIN

APPROXIMATE PROPERTY BOUNDARY

SD — APPROXIMATE LOCATION OF UNDERGROUND STORM SEWER LINE AND FLOW DIRECTION

SANITARY SEWER

G — NATURAL GAS LINE

FLOOR DRAIN

0 30 60

APPROXIMATE SCALE IN FEET

N

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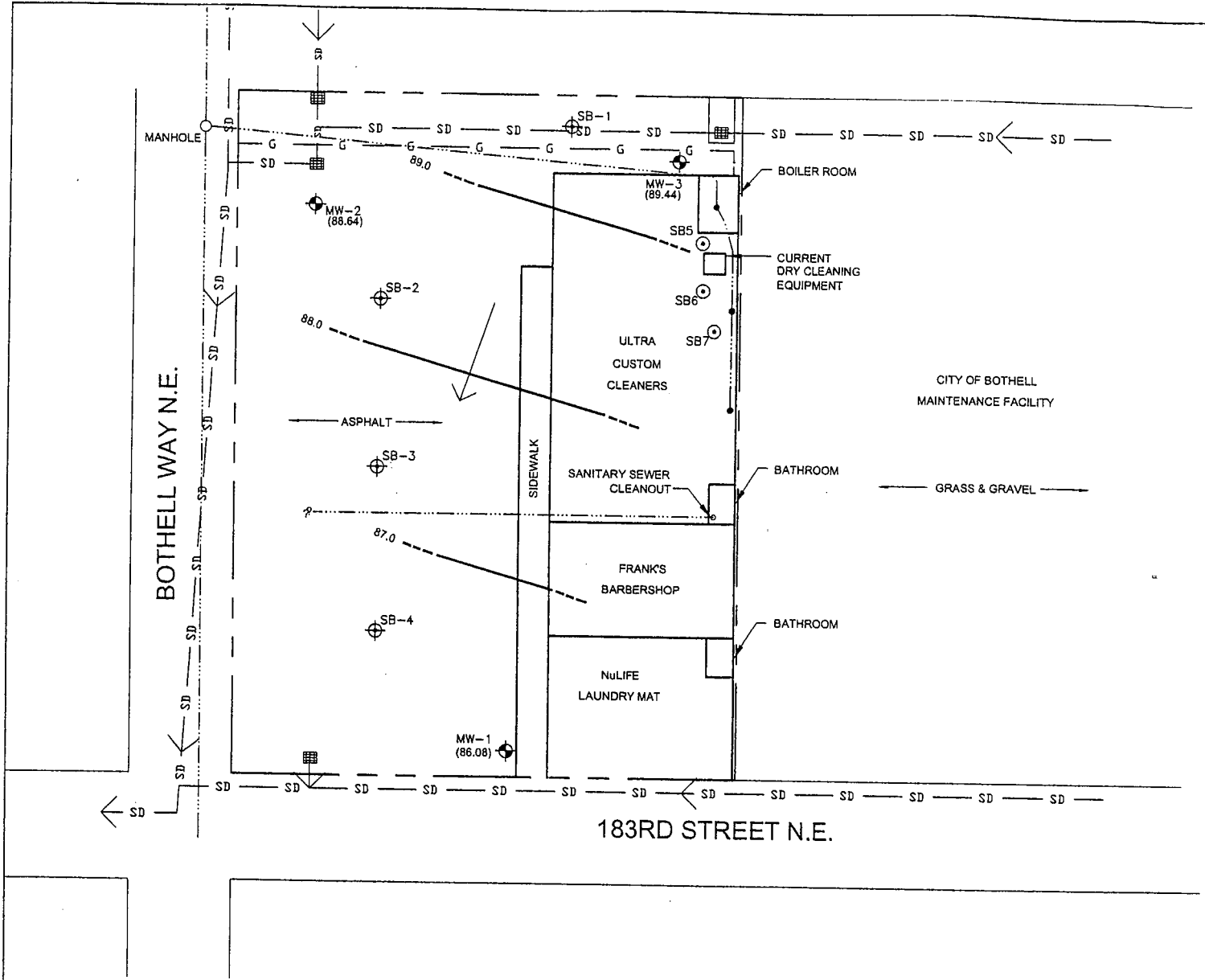
FIGURE 2

PCE CONCENTRATIONS IN SOIL AND WATER
ULTRA CUSTOM CLEANERS SITE
18300 BOTHELL WAY NE
BOTHELL, WASHINGTON

FARALLON PN: 773-001

Drawn By: DEW	Checked By: RC	Date: 4/16/02	Disk Reference: 773001



LEGEND

MW-1 (86.08) — GROUNDWATER MONITORING WELL LOCATION AND GROUNDWATER ELEVATION IN FEET (FARALLON 2/2002)

SB-3 — SOIL BORING LOCATION (IT CORPORATION 7/2001)

SB5 — SOIL BORING LOCATION (FARALLON 2/2002)

88.0 — GROUNDWATER LEVEL CONTOUR LINE AND ELEVATION IN FEET MEASURED TO ARBITRARY DATUM

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

STORM DRAIN CATCH BASIN

APPROXIMATE PROPERTY BOUNDARY

SD — APPROXIMATE LOCATION OF UNDERGROUND STORM SEWER LINE AND FLOW DIRECTION

SANITARY SEWER

G — NATURAL GAS LINE

FLOOR DRAIN

0 30 60

APPROXIMATE SCALE IN FEET

N

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FIGURE 3

POTENTIOMETRIC SURFACE CONTOUR MAP
ULTRA CUSTOM CLEANERS SITE
18300 BOTHELL WAY NE
BOTHELL, WASHINGTON

FARALLON PN: 773-001

Drawn By: DEW	Checked By: RC	Date: 4/16/02	Disk Reference: 773001

TABLES

SUBSURFACE INVESTIGATION
Ultra Custom Care Cleaners Property
18300 – 18304 Bothell Way Northeast
Bothell, Washington

Farallon PN: 773-001

Table 1
Summary of Soil Analytical Results
Ultra Custom Cleaners
Bothell, Washington
Farallon PN: 773-001

Sample Identification	Date Sampled	Sampled By	Depth (ft)[1]	Detected Volatile Organic Compounds in Soil (milligrams per kilogram)					
				Tetrachloroethene	Trichloroethene	(cis) 1,2-Dicholorethene	Methylene Chloride	TPH-G[2]	1,2-Dichlorobenzene
MW1-2.5-4	2/19/02	Farallon	2.5-4	0.0022	<0.0011	<0.0011	<0.0057	—	<0.0011
MW2-5.5-7	2/19/02	Farallon	5.5-7	0.015	0.0019	<0.0011	0.029 [3]	**1,800** [4]	0.0012
MW3-4.5-6	2/25/02	Farallon	4.5-6	0.005	<0.0013	<0.0013	<0.0063	—	<0.0013
SB-1-4	7/19/01	IT Corporation	4-5	0.0013	<0.0011	<0.0011	<0.0054	—	<0.0011
SB-1-8	7/19/01	IT Corporation	8-9	<0.0012	<0.0012	<0.0012	0.0062 [3]	—	<0.0012
SB-2-4	7/19/01	IT Corporation	4-5	0.0012	<0.0011	<0.0011	<0.0054	—	<0.0011
SB-2-8	7/19/01	IT Corporation	8-9	<0.0011	<0.0011	<0.0011	<0.0057	—	<0.0011
SB-3-4	7/19/01	IT Corporation	4-5	0.0018	<0.0013	<0.0013	<0.0063	—	<0.0013
SB-3-8	7/19/01	IT Corporation	8-9	<0.0011	<0.0011	<0.0011	<0.0055	—	<0.0011
SB-4-4	7/19/01	IT Corporation	4-5	0.0019	<0.0011	<0.0011	<0.0054	—	<0.0011
SB-4-8	7/19/01	IT Corporation	8-9	<0.0023	<0.0012	<0.0012	0.0079 [3]	—	<0.0012
SB5-0.33-3	2/25/02	Farallon	0.33-3	0.0061	<0.0011	<0.0011	<0.0056	—	<0.0011
SB6-2-3	2/25/02	Farallon	2-3	0.0013	<0.0011	<0.0011	<0.0053	—	<0.0011
SB7-0.5-1.5	2/25/02	Farallon	0.5-1.5	0.0097	<0.0011	<0.0011	<0.0054	—	<0.0011
Sediment Sample									
SS-2	7/19/01	IT Corporation		0.0019	0.012	0.0026	<0.0060	—	<0.0012
MTCA Method A or B Cleanup Levels for Soil[5]				0.05	0.03	800	0.02	1,000	7,200

NOTE:

[1]Depth in feet below ground level.

— = not analyzed

[2]Analyzed by Ecology Method NWTPH-G for Stoddard solvents.

[3]Methylene chloride is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

[4]Laboratory indicated that TPH-G result was most likely related to a chemical similar to Pine-Sol cleaning product rather than gasoline-range petroleum hydrocarbons or Stoddard solvent.

[5]MTCA Chapter 173-340 WAC.

< denotes result is less than laboratory practical quantitation limit or analyte not detected at or above the reporting limit.

Table 2
Groundwater Elevations
Ultra Custom Cleaners
Bothell, Washington
Farallon PN: 773-001

Well Identification	Top of Well Head (feet)[1]	2/25/02		3/6/02	
		Depth to Water (feet bTOC)[2]	Groundwater Elevation (feet)	Depth to Water (feet bTOC)[2]	Groundwater Elevation (feet)
MW-1	94.15	8.14	86.01	8.07	86.08
MW-2	94.28	5.71	88.57	5.59	88.69
MW-3	94.38	5.07	89.31	4.94	89.44

NOTE:

[1]Elevation measured to arbitrary on-site datum.

[2]bTOC denotes below top of PVC casing.

Table 3
Summary of Water Analytical Results
Ultra Custom Cleaners
Bothell, Washington
Farallon PN: 773-001

	Groundwater Analytical Results (micrograms per liter)										Cleanup Levels[2]
	Groundwater Samples			Groundwater Reconnaissance Samples					Stormwater Samples[1]		
Sample ID	MW-1	MW-2	MW-3	MW1-26-29-W	SB-1	SB-2	SB-3	SB-4	SS-1	SS-2	
Date Sampled	3/6/02	3/6/02	3/6/02	2/19/02	7/19/01	7/19/01	7/19/01	7/19/01	7/19/01	7/19/01	
Sampled By	Farallon	Farallon	Farallon	Farallon	IT Corp.	IT Corp.	IT Corp.	IT Corp.	IT Corp.	IT Corp.	
Depth (ft)[3]	NA	NA	NA	26-29	NA	NA	NA	NA	NA	NA	
Groundwater Elevation (ft)[4]	86.1	88.7	89.4	NA	NA	NA	NA	NA	NA	NA	
Analyte:											
Tetrachloroethene	**880**	0.41	4.7	**29**	<0.20	<0.20	0.37	**6.1**	**500**	**25**	5
Trichloroethene	**18**	<0.20	<0.20	0.21	<0.20	<0.20	<0.20	<0.20	**300**	**7.6**	5
(cis)1,2-Dichloroethene	36	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	**390**	3.4	80
(trans) 1,2-Dichloroethene	0.38	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<20	<0.20	160
Vinyl Chloride	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	**26**	<0.20	0.2
Methylene Chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**120**[5]	<1.0	5
Dichlorodifluoromethane	<0.20	<0.20	<0.20	<0.20	0.22	<0.20	<0.20	0.2	<20	<0.20	1,600
Chloroform	2	<0.20	0.44	2.30	0.70	0.24	<0.20	0.39	<20	<0.20	7.17
TPH-G[6]	—	<100	—	—	—	—	—	—	—	—	1,000

NOTE:

[1]Concentrations compared to groundwater cleanup levels may not be applicable.

[2]MTCA Chapter 173-340 WAC Method A or B Cleanup Levels for Groundwater.

[3]Depth in feet below ground level.

[4]Elevation in feet above relative on-site datum.

[5]Methylene chloride is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

[6]Analyzed by Ecology Method NWTPH-Gx.

— = not analyzed

IT Corp. = IT Corporation

MTCA = Model Toxics Control Act

NA = not available/applicable

TPH-G = total petroleum hydrocarbons as gasoline

APPENDIX A
BORING LOGS

SUBSURFACE INVESTIGATION
Ultra Custom Care Cleaners Property
18300 – 18304 Bothell Way Northeast
Bothell, Washington

Farallon PN: 773-001

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LOG OF WELL MW-1

Ultra Custom Cleaners Property
City of Bothell
Bothell, Washington

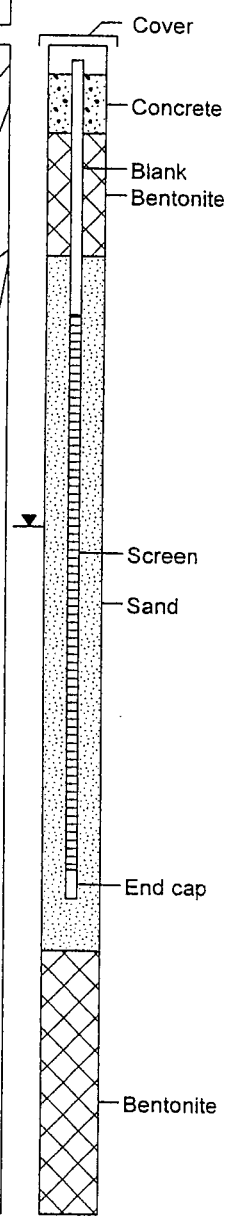
Farallon PN: 773-001

Logged By: John Schmitt

Date/Time Started	: 02/19/02 11:30	Drilling Method	: HSA 4.25" x 8"
Date/Time Completed	: 02/19/02 14:15	Sampler Type	: D + M, 300 lb hammer
Equipment	: CME 75	Depth Of Water ATD	: 8 feet
Drilling Company	: Cascade	Total Well Depth	: 15 feet
Drilling Forman	: Scott Krueger	Total Boring Depth	: 29.5 feet

Depth in Feet	Sample Interval	% Recovery	Blow Counts 6/6/6	Sample ID	Sample Analyzed	PID (units)	USCS	GRAPHIC	DESCRIPTION
0							GP		0'-0.33' ASPHALT 0.33' - 1.0' GRAVEL, angular (roadbase) with sand. Hand dug.
			3/4/3	MW1 1-2.5	X	165	SP		1.0' - 2.5' SAND, fine to medium grained, trace silt, brown, loose, slightly moist, no odor.
		100	5/6/8	MW1 2.5-4.0		193	SM		2.5' - 3.5' Becomes fine grained. 3.5' - 3.7' SAND, fine grained, with silt, brown, slightly moist, no odor.
5		100	7/8/11	MW1 4-5.5			SP		3.7' - 4.0' SAND, medium grained, trace silt, brown, loose, slightly moist, no odor.
		100	11/12/13	MW1 5.5-7					4.0' - 7.0' Becomes fine to medium grained, medium dense, moist.
		100	11/13/13	MW1 7-8.5		144			7.0' - 8.5' Becomes grey-brown, very moist to wet.
		100	18/18/19	MW1 8.5-10					8.5' - 10.0' Becomes medium grained, minor rounded gravel, wet.
10		100	18/20/26	MW1 10-11.5		128			10.0' - 11.5' Same as above with rounded gravel, becomes dense.
		100	15/16/18	MW1 11.5-13					11.5' - 13.0' No gravel, minor silt, medium dense.
		100	12/12/12	MW1 13-14.5		80.9			
15		100	14/15/15	MW1 14.5-16					14.5' - 16.0' Becomes fine to medium grained.
		100	15/16/17	MW1 16-17.5					
		100	15/15/17	MW1 17.5-19		25.9			
20		100	18/20/20	MW1 19-20.5					

Well: MW-2
Elevation (TOC): 99.41



WELL INFORMATION
Grout: Bentonite chips
Casing: 2" Schedule 40 PVC
Screen: 2" Schedule 40 0.010-inch slotted PVC
Sand Pack: #2/12 sand

Well elevation relative to arbitrary site datum.

LOG OF WELL MW-1

04-12-2002 F:\Drafting\Projects\773\mw1.bor

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LOG OF WELL MW-1

Ultra Custom Cleaners Property
City of Bothell
Bothell, Washington

Farallon PN: 773-001

Logged By: John Schmitt

Date/Time Started	: 02/19/02 11:30	Drilling Method	: HSA 4.25" x 8"
Date/Time Completed	: 02/19/02 14:15	Sampler Type	: D + M, 300 lb hammer
Equipment	: CME 75	Depth Of Water ATD	: 8 feet
Drilling Company	: Cascade	Total Well Depth	: 15 feet
Drilling Forman	: Scott Krueger	Total Boring Depth	: 29.5 feet

Well: MW-2
Elevation (TOC): 99.41

Depth in Feet	Sample Interval	% Recovery	Blow Counts 6/6/6	Sample ID	Sample Analyzed	PID (units)	USCS	GRAPHIC	DESCRIPTION
20		100	18/20/20	MW1 19-20.5					
		100	15/18/20	MW1 20.5-22					
		80	15/18/18	MW1 22-23.5		14.5	SP		22.0' - 24.5' Same as above, trace silt.
		100	18/20/20	MW1 23.5-25					
25							GP		24.5' - 25.0' Sandy GRAVEL, fine to medium grained, rounded, wet, trace silt, no odor.
		100	16/20/27	MW1 25-26.5					25.0' - 26.5' SAND, fine to medium, trace silt, grey brown, dense, wet, no odor.
		100	18/20/22	MW1 26.5-28			SP		26.5' - 28.0' Becomes medium dense.
		20	20/22/25	MW1 28-29.5		13.6			28.0' - 29.5' Becomes dense.
30									Boring completed at 29.5 feet.
									Water sample (MW1-26-29-W) collected using temporary screen from 26'-29'.
35									
40									

Bentonite

WELL INFORMATION
Grout: Bentonite chips
Casing: 2" Schedule 40 PVC
Screen: 2" Schedule 40 0.010-inch slotted PVC
Sand Pack: #2/12 sand

Well elevation relative to arbitrary site datum.

LOG OF WELL MW-1

(Page 2 of 2)

FARALLON CONSULTING
320 3rd Ave. NE, Suite 200
Issaquah, WA 98027

LOG OF WELL MW-2

Ultra Custom Cleaners Property
City of Bothell
Bothell, Washington

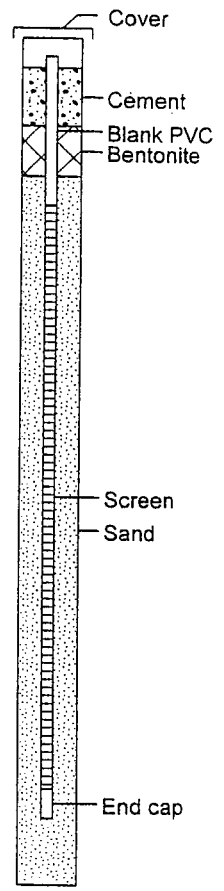
Farallon PN: 773-001

Logged By: John Schmitt

Date/Time Started	: 02/19/02 14:40	Drilling Method	: HSA 4.25" x 8"
Date/Time Completed	: 02/19/02 16:10	Sampler Type	: D + M, 300 lb hammer
Equipment	: CME 75	Depth Of Water ATD	: 5 feet
Drilling Company	: Cascade	Total Well Depth	: 13.5 feet
Drilling Forman	: Scott Krueger	Total Boring Depth	: 14.5 feet

Depth in Feet	Sample Interval	% Recovery	Blow Counts 6/6/6	Sample ID	Sample Analyzed	PID (units)	USCS	GRAPHIC	DESCRIPTION
0							GP		0' - 0.33' ASPHALT
									0.33' - 1.0' GRAVEL, angular (roadbase) with sand.
							SP		1.0' - 2.5' SAND, fine to medium grained, trace silt, grey-brown, loose, slightly moist. Hand dug to 2.5 feet.
		100	5/6/6	MW2 2.5-4		151			2.5' - 4.0' Slight chemical odor (sharp).
5		100	6/6/8	MW2 4-5.5		280			4.0' - 5.5' Becomes medium grained, brown, moist to wet. Chemical odor, (sharp).
		100	18/20/20	MW2 5.5-7	X	855			5.5' - 7.0' Becomes fine to medium grained, medium dense, wet. Strong, sharp chemical odor.
		100	18/20/20	MW2 7-8.5		139			7.0' - 8.5' Becomes medium grained, grey-brown.
		100	15/18/18	MW2 8.5-10		374			8.5' - 10.0' Trace gravel.
10							GP		10.0' - 10.5' GRAVEL, fine to medium, with coarse sand, grey-brown, medium dense, wet, no odor.
		80	12/12/13	MW2 10-11.5		360			
		100	16/16/16	MW2 11.5-13		121	SP		10.5' - 11.5' SAND, medium to coarse grained, minor gravel, fine to medium grained, rounded, grey-brown, medium dense, wet, no odor.
		80	-	MW2 13-14.5		93.8			11.5' - 13.0' Same as above with minor cobbles.
15									13.0' - 14.5' Becomes fine to medium grained, with medium grained, rounded gravel.
20									Boring completed to 14.5'

Well: MW-2
Elevation (TOC): 99.54



WELL INFORMATION
Grout: Bentonite chips
Casing: 2" Schedule 40 PVC
Screen: 2" Schedule 40 0.010 slotted PVC
Sand Pack: #2/12 sand

Well elevation relative to arbitrary site datum

LOG OF WELL MW-2

04-12-2002 F:\Drafting\Projects\773\mw2.bor

FARALLON CONSULTING
320 3rd Ave. NE, Suite 200
Issaquah, WA 98027

LOG OF WELL MW-3

Ultra Custom Cleaners Property
City of Bothell
Bothell, Washington

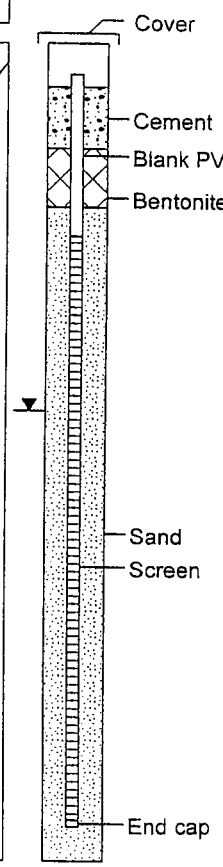
Farallon PN: 773-001

Logged By: John Schmitt

Date/Time Started	: 02/25/02 10:00	Drilling Method	: Auger 4.25" x 8"
Date/Time Completed	: 02/25/02 12:30	Sampler Type	: D + M, 140 lb hammer
Equipment	: CME 55 Limited Access	Depth Of Water ATD	: 5.75 feet
Drilling Company	: Cascade	Total Well Depth	: 13.5 feet
Drilling Forman	: Andy	Total Boring Depth	: 14 feet

Depth in Feet	Sample Interval	% Recovery	Blow Counts 6/6/6	Sample ID	Sample analyzed	PID (units)	USCS	GRAPHIC	DESCRIPTION
0									ASPHALT
				MW3-1.5		57			0.33' - 3.5' SAND,fine to medium grained, minor gravel, minor cobbles and trace silt, brown, slightly moist, no odor.
		100	10/15/30	MW3 3.0-4.5		35.5			Hand dug to 3'.
5		100	13/29/40	MW3 4.5-6.0	X	12			3.5' - 3.7' Becomes fine grained, minor silt, no gravel, medium dense. 3.7'-4.5' Becomes fine to medium grained, trace silt, slightly moist, no odor.
		100	50 for 6	MW3 7.5-8.0		38.2	SP		4.5' Becomes dense, very moist to wet.
		100	50 for 6	MW3 8.0-8.5		47.4			
		100	50 for 6	MW3 8.5-9.0		8.0			1' heave at 8.0'
		100	39/50 for 6	MW3 9.0-10.0		39.4			0.5' heave at 9.0'
10		100	40/50 for 6	MW3 10.0-11.0		70.6			
		100	50 for 6	MW3 12.5-13.0		34.4			
		0	50 for 6						2' heave at 13.5'.
15									Boring completed at 14 feet
20									

Well: MW-3
Elevation (TOC): 98.64



WELL INFORMATION
Grout: Bentonite chips
Casing: 2" Schedule 40 PVC
Screen: 2" Schedule 40 0.010 slotted PVC
Sand Pack: #2/12 sand

Well elevation relative to arbitrary site datum

LOG OF WELL MW-3

(Page 1 of 1)

FARALLON CONSULTING
320 3rd Ave. NE, Suite 200
Issaquah, WA 98027

LOG OF BORING SB-5

Ultra Custom Cleaners Property
City of Bothell
Bothell, Washington

Farallon PN: 773-001

Logged By: John A. Schmitt

Date/Time Started : 2/25/02 13:30
Date/Time Completed : 2/25/02 14:05
Drilling Company : Cascade
Drilling Forman : Lynn Gobel
Drilling Method : Hand Geoprobe

Sampler Type : 2" Split Spoon
Depth Of Water ATD : 5.5 feet
Total Depth : 6.0 feet

Depth in Feet	Sample Interval	% Recovery	Sample ID	Sample analyzed	PID (units)	USCS	GRAPHIC	DESCRIPTION	Water Level	Depth in Feet
0								CONCRETE		0
		50	SB5-0.33-3.0	X	256	SP		0.33' - 3.0' SAND, fine to medium grained, with fine, rounded gravel, trace silt, light brown, slightly moist, no odor.		
								2.0' - 2.5' Becomes darker brown.		
		100	SB5 3.0-3.5		150			3.0' - 3.5' Becomes brown, moist, no gravel.		
								3.5' - 3.7' Minor silt, slightly moist.		
								3.7' - 6.0' Trace silt.		
5		100	SB5 5.0-6.0		118			5.5' Becomes wet.	▼	5
								Boring completed to 6.0 feet.		
10										10
15										15
20										20

ABBREVIATIONS

ATD = at time of drilling

LOG OF BORING SB-5

(Page 1 of 1)

FARALLON CONSULTING
320 3rd Ave. NE, Suite 200
Issaquah, WA 98027

LOG OF BORING SB-6

Ultra Custom Cleaners Property
City of Bothell
Bothell, Washington

Farallon PN: 773-001

Logged By: John A. Schmitt

Date/Time Started : 2/25/02 14:05
Date/Time Completed : 2/25/02 14:35
Drilling Company : Cascade
Drilling Forman : Lynn Gobel
Drilling Method : Hand Geoprobe

Sampler Type : 2" Split Spoon x 3'
Depth Of Water ATD : 5.5 feet
Total Depth : 6.0 feet

Depth in Feet	Sample Interval	% Recovery	Sample ID	Sample analyzed	PID (units)	USCS	GRAPHIC	DESCRIPTION	Water Level	Depth in Feet
0								CONCRETE		0
	☒	50	SB6 0.5-1.0			SP		0.33' - 2.0' SAND, fine to medium grained, minor gravel, fine, rounded, trace silt, brown, moist, no odor.		
	☒	50	HS 1.0-2.0		219					
	☒	50	SB6 2.0-3.0	X				2.0' - 3.5' No gravel.		
	☒	100	SB6 3.0-4.0					3.5' - 3.7' Minor silt, brown, slightly moist.		
	☒	100	HS 4.0-5.0		100			3.7' - 6.0' Trace silt, moist.		
5	☒	100	SB6 5.0-6.0					5.5' Becomes wet.	▼	5
								Boring completed to 6.0 feet.		
10										10
15										15
20										20

ABBREVIATIONS

ATD = at time of drilling
HS = Headspace only, no analytical sample collected.

LOG OF BORING SB-6

(Page 1 of 1)

FARALLON CONSULTING
320 3rd Ave. NE, Suite 200
Issaquah, WA 98027

LOG OF BORING SB-7

Ultra Custom Cleaners Property
City of Bothell
Bothell, Washington

Farallon PN: 773-001

Logged By: John A. Schmitt

Date/Time Started	: 2/25/02 14:35	Sampler Type	: 2" Split Spoon
Date/Time Completed	: 2/25/02 14:55	Depth Of Water ATD	: 5.5 feet
Drilling Company	: Cascade	Total Depth	: 6.0 feet
Drilling Forman	: Lynn Gobel		
Drilling Method	: Hand Geoprobe		

Depth in Feet	Sample Interval	% Recovery	Sample ID	Sample analyzed	PID (units)	USCS	GRAPHIC	DESCRIPTION	Water Level	Depth in Feet
0								CONCRETE		0
		50	SB7 0.5-1.5	X		SP		0.33' - 3.0' SAND, fine to medium grained, with medium, rounded gravel, trace silt, brown, moist, slight solvent odor.		
		50	HS 1.5-2.0		77					
		50	SB7 2.0-3.0							
		100	SB7 3.0-4.0					3.0' - 4.5' Same as above, no gravel, no odor.		
		100	HS 4.0-5.0		64			4.5' - 5.0' Same as above with fine, rounded gravel.		
5		100	SB7 5.0-6.0					5.0' - 6.0' Same as above, no gravel.	▼	5
								Boring completed to 6.0 feet.		
10										10
15										15
20										20

ABBREVIATIONS

ATD = at time of drilling
HS = Headspace only, no analytical sample collected.

LOG OF BORING SB-7

(Page 1 of 1)

APPENDIX B
LABORATORY ANALYTICAL REPORTS

SUBSURFACE INVESTIGATION
Ultra Custom Care Cleaners Property
18300 – 18304 Bothell Way Northeast
Bothell, Washington

Farallon PN: 773-001

OnSite Environmental Inc.
Analytical Testing and Mobile Laboratory Services

March 1, 2002

RECEIVED
MAR 4 - 2002
BY:

Kim Saganski
Farallon Consulting, LLC
320 3rd Avenue NE, Suite 200
Issaquah, WA 98027

Re: Analytical Data for Project 773-001
Laboratory Reference No. 0202-101

Dear Kim:

Enclosed are the analytical results and associated quality control data for samples submitted on February 19, 2002.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881 • Fax (425) 885-4603

Date of Report: March 1, 2002
Samples Submitted: February 19, 2002
Lab Traveler: 02-101
Project: 773-001

NWTPH-Gx

Date Extracted: 2-21-02
Date Analyzed: 2-21&22-02

Matrix: Soil
Units: mg/Kg (ppm)

Client ID: **MW2-5.5-7**
Lab ID: 02-101-02

	Result	Flags	PQL
Benzene	**ND**		0.011
Toluene	**ND**		0.057
Ethyl Benzene	**ND**		0.057
m,p-Xylene	**ND**		0.057
o-Xylene	**ND**		0.057
TPH-Gas	**1800**	**Z**	28
Surrogate Recovery: Fluorobenzene	83%		

Date of Report: March 1, 2002
Samples Submitted: February 19, 2002
Lab Traveler: 02-101
Project: 773-001

NWTPH-Gx
METHOD BLANK QUALITY CONTROL

Date Extracted: 2-21-02
Date Analyzed: 2-21-02

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: MB0221S2

	Result	Flags	PQL
Benzene	**ND**		0.010
Toluene	**ND**		0.050
Ethyl Benzene	**ND**		0.050
m,p-Xylene	**ND**		0.050
o-Xylene	**ND**		0.050
TPH-Gas	**ND**		5.0

Surrogate Recovery:
Fluorobenzene 91%

Date of Report: March 1, 2002
Samples Submitted: February 19, 2002
Lab Traveler: 02-101
Project: 773-001

NWTPH-Gx
DUPLICATE QUALITY CONTROL

Date Extracted: 2-21-02
Date Analyzed: 2-21&22-02

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID:	02-101-02 **Original**	02-101-02 **Duplicate**	**RPD**	**Flags**
Benzene	**ND**	**ND**	NA	
Toluene	**ND**	**ND**	NA	
Ethyl Benzene	**ND**	**ND**	NA	
m,p-Xylene	**ND**	**ND**	NA	
o-Xylene	**ND**	**ND**	NA	
TPH-Gas	**313**	**254**	21	
Surrogate Recovery:				
Fluorobenzene	83%	88%		

Date of Report: March 1, 2002
Samples Submitted: February 19, 2002
Lab Traveler: 02-101
Project: 773-001

NWTPH-Gx
MS/MSD QUALITY CONTROL

Date Extracted: 2-21-02
Date Analyzed: 2-21-02

Matrix: Soil
Units: mg/Kg (ppm)

Spike Level: 1.00 ppm

Lab ID:	02-107-02 **MS**	Percent Recovery	02-107-02 **MSD**	Percent Recovery	**RPD**	**Flags**
Benzene	**0.799**	**80**	**0.785**	**78**	1.8	
Toluene	**0.775**	**78**	**0.763**	**76**	1.6	
Ethyl Benzene	**0.816**	**82**	**0.804**	**80**	1.5	
m,p-Xylene	**0.789**	**79**	**0.777**	**78**	1.6	
o-Xylene	**0.809**	**81**	**0.796**	**80**	1.6	

Surrogate Recovery:

Fluorobenzene	86%	85%

Date of Report: March 1, 2002
Samples Submitted: February 19, 2002
Lab Traveler: 02-101
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Date Extracted:	2-25-02
Date Analyzed:	2-25-02
Matrix:	Soil
Units:	mg/Kg (ppm)
Lab ID:	02-101-02
Client ID:	**MW2-5.5-7**

Compound	**Results**	**Flags**	**PQL**
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0011
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0057
Chloroethane	ND		0.0011
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Iodomethane	ND		0.0057
Methylene Chloride	0.029	H	0.0057
(trans) 1,2-Dichloroethene	ND		0.0011
1,1-Dichloroethane	ND		0.0011
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	0.0019		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0057
(cis) 1,3-Dichloropropene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	0.015		0.0011
1,3-Dichloropropane	ND		0.0011

Date of Report: March 1, 2002
Samples Submitted: February 19, 2002
Lab Traveler: 02-101
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

Lab ID: 02-101-02
Client ID: MW2-5.5-7

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Bromoform	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	0.0012		0.0011
1,2,4-Trichlorobenzene	ND		0.0057
Hexachlorobutadiene	ND		0.0011
1,2,3-Trichlorobenzene	ND		0.0057
	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	117	65-125
Toluene, d8	88	77-116
4-Bromofluorobenzene	84	67-133

Date of Report: March 1, 2002
Samples Submitted: February 19, 2002
Lab Traveler: 02-101
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Date Extracted:	2-25-02
Date Analyzed:	2-25-02
Matrix:	Soil
Units:	mg/Kg (ppm)
Lab ID:	02-101-14
Client ID:	**MW1-2.5-4**

Compound	**Results**	**Flags**	**PQL**
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0011
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0011
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Iodomethane	ND		0.0057
Methylene Chloride	ND		0.0057
(trans) 1,2-Dichloroethene	ND		0.0011
1,1-Dichloroethane	ND		0.0011
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0011
(cis) 1,3-Dichloropropene	ND		0.0057
(trans) 1,3-Dichloropropene	ND		0.0011
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	0.0022		0.0011
1,3-Dichloropropane	ND		0.0011

Date of Report: March 1, 2002
Samples Submitted: February 19, 2002
Lab Traveler: 02-101
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

page 2 of 2

Lab ID: 02-101-14
Client ID: MW1-2.5-4

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Bromoform	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0011
1,2,4-Trichlorobenzene	ND		0.0057
Hexachlorobutadiene	ND		0.0011
1,2,3-Trichlorobenzene	ND		0.0057
	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	102	65-125
Toluene, d8	108	77-116
4-Bromofluorobenzene	100	67-133

Date of Report: March 1, 2002
Samples Submitted: February 19, 2002
Lab Traveler: 02-101
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Date Extracted: 2-25-02
Date Analyzed: 2-25-02

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: MB0225S1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.001
Chloromethane	ND		0.001
Vinyl Chloride	ND		0.001
Bromomethane	ND		0.005
Chloroethane	ND		0.001
Trichlorofluoromethane	ND		0.001
1,1-Dichloroethene	ND		0.001
Iodomethane	ND		0.005
Methylene Chloride	ND		0.005
(trans) 1,2-Dichloroethene	ND		0.001
1,1-Dichloroethane	ND		0.001
2,2-Dichloropropane	ND		0.001
(cis) 1,2-Dichloroethene	ND		0.001
Bromochloromethane	ND		0.001
Chloroform	ND		0.001
1,1,1-Trichloroethane	ND		0.001
Carbon Tetrachloride	ND		0.001
1,1-Dichloropropene	ND		0.001
1,2-Dichloroethane	ND		0.001
Trichloroethene	ND		0.001
1,2-Dichloropropane	ND		0.001
Dibromomethane	ND		0.001
Bromodichloromethane	ND		0.001
2-Chloroethyl Vinyl Ether	ND		0.005
(cis) 1,3-Dichloropropene	ND		0.001
(trans) 1,3-Dichloropropene	ND		0.001
1,1,2-Trichloroethane	ND		0.001
Tetrachloroethene	ND		0.001
1,3-Dichloropropane	ND		0.001

Date of Report: March 1, 2002
Samples Submitted: February 19, 2002
Lab Traveler: 02-101
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Lab ID: MB0225S1

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.001
1,2-Dibromoethane	ND		0.001
Chlorobenzene	ND		0.001
1,1,1,2-Tetrachloroethane	ND		0.001
Bromoform	ND		0.001
Bromobenzene	ND		0.001
1,1,2,2-Tetrachloroethane	ND		0.001
1,2,3-Trichloropropane	ND		0.001
2-Chlorotoluene	ND		0.001
4-Chlorotoluene	ND		0.001
1,3-Dichlorobenzene	ND		0.001
1,4-Dichlorobenzene	ND		0.001
1,2-Dichlorobenzene	ND		0.001
1,2-Dibromo-3-chloropropane	ND		0.001
1,2,4-Trichlorobenzene	ND		0.005
Hexachlorobutadiene	ND		0.001
1,2,3-Trichlorobenzene	ND		0.005
	ND		0.001

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	124	65-125
Toluene, d8	106	77-116
4-Bromofluorobenzene	95	67-133

Date of Report: March 1, 2002
Samples Submitted: February 19, 2002
Lab Traveler: 02-101
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
MS/MSD QUALITY CONTROL

Date Extracted: 2-25-02
Date Analyzed: 2-25-02

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: 02-101-14

Compound	Spike Amount	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
1,1-Dichloroethene	0.0500	0.0297	59	0.0347	69	16	
Benzene	0.0500	0.0505	101	0.0555	111	9.4	
Trichloroethene	0.0500	0.0435	87	0.0493	99	12	
Toluene	0.0500	0.0534	107	0.0592	118	10	
Chlorobenzene	0.0500	0.0494	99	0.0553	111	11	

Date of Report: March 1, 2002
Samples Submitted: February 19, 2002
Lab Traveler: 02-101
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

Date Extracted:	2-26-02
Date Analyzed:	2-26-02
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	02-101-15
Client ID:	**MW1-26-29-W**

Compound	**Results**	**Flags**	**PQL**
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		1.0
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	2.3		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	0.21		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	29		0.20
1,3-Dichloropropane	ND		0.20

Date of Report: March 1, 2002
Samples Submitted: February 19, 2002
Lab Traveler: 02-101
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

page 2 of 2

Lab ID: 02-101-15
Client ID: MW1-26-29-W

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	110	71-133
Toluene, d8	98	80-151
4-Bromofluorobenzene	80	75-139

Date of Report: March 1, 2002
Samples Submitted: February 19, 2002
Lab Traveler: 02-101
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Date Extracted:	2-26-02
Date Analyzed:	2-26-02
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	MB0226W1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		1.0
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20

Date of Report: March 1, 2002
Samples Submitted: February 19, 2002
Lab Traveler: 02-101
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Lab ID: MB0226W1

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		0.20
1,2,4-Trichlorobenzene	ND		1.0
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	103	71-133
Toluene, d8	96	80-151
4-Bromofluorobenzene	85	75-139

Date of Report: March 1, 2002
Samples Submitted: February 19, 2002
Lab Traveler: 02-101
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
SB/SBD QUALITY CONTROL

Date Extracted: 2-26-02
Date Analyzed: 2-26-02

Matrix: Water
Units: ug/L (ppb)

Lab ID: SB0226W1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	RPD	Flags
1,1-Dichloroethene	10.0	6.96	70	7.50	75	7.4	
Benzene	10.0	10.1	101	10.7	107	6.0	
Trichloroethene	10.0	8.70	87	8.99	90	3.3	
Toluene	10.0	10.1	101	10.5	105	3.5	
Chlorobenzene	10.0	9.78	98	9.54	95	2.5	

Date of Report: March 1, 2002
Samples Submitted: February 19, 2002
Lab Traveler: 02-101
Project: 773-001

% MOISTURE

Date Analyzed: 2-21-02

Client ID	Lab ID	% Moisture
MW2 - 5.5-7	02-101-02	12
MW1 - 2.5-4	02-101-14	13

OnSite Environmental Inc.

DATA QUALIFIERS AND ABBREVIATIONS

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

D - Data from 1:____ dilution.

E - The value reported exceeds the quantitation range, and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

G - Insufficient sample quantity for duplicate analysis.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeniety. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

O - Hydrocarbons outside the defined gasoline range are present in the sample; NWTPH-Dx recommended.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a silica gel cleanup procedure.

Y - Sample extract treated with an acid cleanup procedure.

Z – Gasoline result attributed to a single peak. Suggest a full 8260B analysis.

ND - Not Detected at PQL
MRL - Method Reporting Limit
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: FARALLON
Project No.: 773-001
Project Name: UltraCustom Care Laundry
Project Manager: Kim Saganski

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☒ Standard (Hydrocarbon analyses: 5 days, All other analyses: 7 days)
☐ _____ (other)

Project Manager: DB

Laboratory No. 02-101

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/~~BTEX~~	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C	PCB's by 8082	Pesticides by 8081	Herbicides by 8151A	Total RCRA Metals (8)	Priority Pollutant Metals (13)	TCLP Metals	VPH	EPH					% Moisture
1	~~MW1~~ MW2-2.5-4	2/15/02	1448	S	1					H															
2	MW2-5.5-7	↓	1450	↓	↓		X			X															X
3	MW2-8.5-10		1454																						X
4	MW2-11.5-13		1500																						X
5	MW2-13-14.5		1505																						
—																									
—																									
—																									
—																									
—																									
—																									
—																									

RELINQUISHED BY	DATE	RECEIVED BY	DATE
John Schmitt	2/19/02	Stacey Duran	2-19-02
FIRM: FARALLON	TIME: 1725	FIRM: OnSite Environmental	TIME: 5:30pm
RELINQUISHED BY	DATE	RECEIVED BY	DATE
FIRM	TIME	FIRM	TIME
REVIEWED BY		DATE REVIEWED	

COMMENTS:
H = Hold
(X) Added 2/21/02 [illegible]

Chromatographs with final report ☐

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Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Farallon Consulting
Project No.: 773-001
Project Name: Ultra Custom Care
Project Manager: Kim Sosinski

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☒ Standard (Hydrocarbon analyses: 5 days, All other analyses: 7 days)
☐ _____ (other)

Project Manager:

Laboratory No. 02-101

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C	PCB's by 8082	Pesticides by 8081	Herbicides by 8151A	Total RCRA Metals (8)	Priority Pollutant Metals (13)	TCLP Metals	VPH	EPH					% Moisture
6	MW1-25-26.5	2-14-02	1242	Soil	1					H															
7	MW1-7-8.5	2-14-02	12:12	Soil	1																				
8	MW1-8.5-13	"	12:13	"	"																				
9	MW1-19-22.5	"	12:27	"	"																				
10	MW1-5.5-7	"	1209	"	"																				
11	MW1-4-5.5	"	1205	"	"																				
12	MW1-13-14.5	"	1220	"	"																				
13	MW1-1-2.5	"	1159	"	"																				
14	MW1-2.5-4	"	1200	"	"					(X)															(X)
15	MW1-26-29-W	2-19-02	1310	H_2O	3					(X)															
–																									
–																									

RELINQUISHED BY	DATE	RECEIVED BY	DATE
JOHN SCHMITT	2/19/02	Stacey Dunn	2-19-02
FIRM: Farallon	TIME: 1725	FIRM: OnSite Environmental	TIME: 5:30 pm
RELINQUISHED BY	DATE	RECEIVED BY	DATE
FIRM	TIME	FIRM	TIME
REVIEWED BY		DATE REVIEWED	

COMMENTS:
H = Hold
(X) Added 2/21/02 SSC

Chromatographs with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy

OnSite Environmental Inc.
Analytical Testing and Mobile Laboratory Services

PROJECT

RECEIVED
MAR 11 2002
BY:

March 5, 2002

Kim Saganski
Farallon Consulting, LLC
320 3rd Avenue NE, Suite 200
Issaquah, WA 98027

Re: Analytical Data for Project 773-001
Laboratory Reference No. 0202-149

Dear Kim:

Enclosed are the analytical results and associated quality control data for samples submitted on February 27, 2002.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881 • Fax (425) 885-4603

Date of Report: March 5, 2002
Samples Submitted: February 27, 2002
Lab Traveler: 02-149
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

Date Extracted:	3-4-02
Date Analyzed:	3-4-02
Matrix:	Soil
Units:	mg/Kg (ppm)
Lab ID:	02-149-03
Client ID:	**MW3-4.5-6.0**

Compound	**Results**	**Flags**	**PQL**
Dichlorodifluoromethane	ND		0.0013
Chloromethane	ND		0.0013
Vinyl Chloride	ND		0.0013
Bromomethane	ND		0.0013
Chloroethane	ND		0.0013
Trichlorofluoromethane	ND		0.0013
1,1-Dichloroethene	ND		0.0013
Iodomethane	ND		0.0063
Methylene Chloride	ND		0.0063
(trans) 1,2-Dichloroethene	ND		0.0013
1,1-Dichloroethane	ND		0.0013
2,2-Dichloropropane	ND		0.0013
(cis) 1,2-Dichloroethene	ND		0.0013
Bromochloromethane	ND		0.0013
Chloroform	ND		0.0013
1,1,1-Trichloroethane	ND		0.0013
Carbon Tetrachloride	ND		0.0013
1,1-Dichloropropene	ND		0.0013
1,2-Dichloroethane	ND		0.0013
Trichloroethene	ND		0.0013
1,2-Dichloropropane	ND		0.0013
Dibromomethane	ND		0.0013
Bromodichloromethane	ND		0.0013
2-Chloroethyl Vinyl Ether	ND		0.0063
(cis) 1,3-Dichloropropene	ND		0.0013
(trans) 1,3-Dichloropropene	ND		0.0013
1,1,2-Trichloroethane	ND		0.0013
Tetrachloroethene	0.0050		0.0013
1,3-Dichloropropane	ND		0.0013

Date of Report: March 5, 2002
Samples Submitted: February 27, 2002
Lab Traveler: 02-149
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

Lab ID: 02-149-03
Client ID: MW3-4.5-6.0

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.0013
1,2-Dibromoethane	ND		0.0013
Chlorobenzene	ND		0.0013
1,1,1,2-Tetrachloroethane	ND		0.0013
Bromoform	ND		0.0013
Bromobenzene	ND		0.0013
1,1,2,2-Tetrachloroethane	ND		0.0013
1,2,3-Trichloropropane	ND		0.0013
2-Chlorotoluene	ND		0.0013
4-Chlorotoluene	ND		0.0013
1,3-Dichlorobenzene	ND		0.0013
1,4-Dichlorobenzene	ND		0.0013
1,2-Dichlorobenzene	ND		0.0013
1,2-Dibromo-3-chloropropane	ND		0.0063
1,2,4-Trichlorobenzene	ND		0.0013
Hexachlorobutadiene	ND		0.0063
1,2,3-Trichlorobenzene	ND		0.0013

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	107	65-125
Toluene, d8	110	77-116
4-Bromofluorobenzene	102	67-133

Date of Report: March 5, 2002
Samples Submitted: February 27, 2002
Lab Traveler: 02-149
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

Date Extracted:	3-4-02
Date Analyzed:	3-4-02
Matrix:	Soil
Units:	mg/Kg (ppm)
Lab ID:	02-149-10
Client ID:	**SB5-0.33-3.0**

Compound	**Results**	**Flags**	**PQL**
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0011
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0056
Chloroethane	ND		0.0011
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Iodomethane	ND		0.0056
Methylene Chloride	ND		0.0056
(trans) 1,2-Dichloroethene	ND		0.0011
1,1-Dichloroethane	ND		0.0011
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0011
(cis) 1,3-Dichloropropene	ND		0.0056
(trans) 1,3-Dichloropropene	ND		0.0011
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	0.0061		0.0011
1,3-Dichloropropane	ND		0.0011

Date of Report: March 5, 2002
Samples Submitted: February 27, 2002
Lab Traveler: 02-149
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

Lab ID: 02-149-10
Client ID: **SB5-0.33-3.0**

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Bromoform	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0011
1,2,4-Trichlorobenzene	ND		0.0056
Hexachlorobutadiene	ND		0.0011
1,2,3-Trichlorobenzene	ND		0.0056
	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	119	65-125
Toluene, d8	110	77-116
4-Bromofluorobenzene	95	67-133

Date of Report: March 5, 2002
Samples Submitted: February 27, 2002
Lab Traveler: 02-149
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

Date Extracted: 3-4-02
Date Analyzed: 3-4-02

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: 02-149-14
Client ID: SB6-2.0-3.0

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0011
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0011
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Iodomethane	ND		0.0053
Methylene Chloride	ND		0.0053
(trans) 1,2-Dichloroethene	ND		0.0011
1,1-Dichloroethane	ND		0.0011
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0053
(cis) 1,3-Dichloropropene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	0.0013		0.0011
1,3-Dichloropropane	ND		0.0011

Date of Report: March 5, 2002
Samples Submitted: February 27, 2002
Lab Traveler: 02-149
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

page 2 of 2

Lab ID: 02-149-14
Client ID: SB6-2.0-3.0

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Bromoform	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0053
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0053
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	122	65-125
Toluene, d8	108	77-116
4-Bromofluorobenzene	96	67-133

Date of Report: March 5, 2002
Samples Submitted: February 27, 2002
Lab Traveler: 02-149
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Date Extracted:	3-4-02
Date Analyzed:	3-4-02
Matrix:	Soil
Units:	mg/Kg (ppm)
Lab ID:	02-149-17
Client ID:	**SB7-0.5-1.5**

Compound	**Results**	**Flags**	**PQL**
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0011
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0011
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Iodomethane	ND		0.0054
Methylene Chloride	ND		0.0054
(trans) 1,2-Dichloroethene	ND		0.0011
1,1-Dichloroethane	ND		0.0011
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0054
(cis) 1,3-Dichloropropene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	0.0097		0.0011
1,3-Dichloropropane	ND		0.0011

Date of Report: March 5, 2002
Samples Submitted: February 27, 2002
Lab Traveler: 02-149
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

Lab ID: 02-149-17
Client ID: SB7-0.5-1.5

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Bromoform	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0011
1,2,4-Trichlorobenzene	ND		0.0054
Hexachlorobutadiene	ND		0.0011
1,2,3-Trichlorobenzene	ND		0.0054
	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	117	65-125
Toluene, d8	111	77-116
4-Bromofluorobenzene	96	67-133

Date of Report: March 5, 2002
Samples Submitted: February 27, 2002
Lab Traveler: 02-149
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Date Extracted:	3-4-02
Date Analyzed:	3-4-02
Matrix:	Soil
Units:	mg/Kg (ppm)
Lab ID:	MB0304S1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0010
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0010
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Iodomethane	ND		0.0010
Methylene Chloride	ND		0.0050
(trans) 1,2-Dichloroethene	ND		0.0050
1,1-Dichloroethane	ND		0.0010
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.0010
(cis) 1,3-Dichloropropene	ND		0.0050
(trans) 1,3-Dichloropropene	ND		0.0010
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	ND		0.0010
1,3-Dichloropropane	ND		0.0010
	ND		0.0010

Date of Report: March 5, 2002
Samples Submitted: February 27, 2002
Lab Traveler: 02-149
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Lab ID: MB0304S1

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Bromoform	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0010
1,2,4-Trichlorobenzene	ND		0.0050
Hexachlorobutadiene	ND		0.0010
1,2,3-Trichlorobenzene	ND		0.0050
	ND		0.0010

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	102	65-125
Toluene, d8	111	77-116
4-Bromofluorobenzene	103	67-133

Date of Report: March 5, 2002
Samples Submitted: February 27, 2002
Lab Traveler: 02-149
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
MS/MSD QUALITY CONTROL

Date Extracted: 3-4-02
Date Analyzed: 3-4-02

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: 02-149-03

Compound	Spike Amount	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
1,1-Dichloroethene	0.0500	0.0362	72	0.0367	73	1.6	
Benzene	0.0500	0.0593	119	0.0612	122	3.2	
Trichloroethene	0.0500	0.0524	105	0.0537	107	2.4	
Toluene	0.0500	0.0633	127	0.0648	130	2.3	
Chlorobenzene	0.0500	0.0552	110	0.0580	116	4.9	

Date of Report: March 5, 2002
Samples Submitted: February 27, 2002
Lab Traveler: 02-149
Project: 773-001

% MOISTURE

Date Analyzed: 3-4-02

Client ID	Lab ID	% Moisture
MW3-4.5-6.0	02-149-03	21
SB5-0.33-3.0	02-149-10	10
SB6-2.0-3.0	02-149-14	5.0
SB7-0.5-1.5	02-149-17	7.0

OnSite Environmental Inc.

DATA QUALIFIERS AND ABBREVIATIONS

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

D - Data from 1:____ dilution.

E - The value reported exceeds the quantitation range, and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

G - Insufficient sample quantity for duplicate analysis.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeniety. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

O - Hydrocarbons outside the defined gasoline range are present in the sample; NWTPH-Dx recommended.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a silica gel cleanup procedure.

Y - Sample extract treated with an acid cleanup procedure.

Z -

ND - Not Detected at PQL
MRL - Method Reporting Limit
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Fax: (425) 885-4603 • Phone: (425) 883-3881

Company: FARALLON
Project No.: 773-001
Project Name: ULTRA CUSTOM CARE - BOTHELL
Project Manager: KIM SIAGANSKI

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☒ Standard (Hydrocarbon analyses: 5 days, All other analyses: 7 days)
☐ _____ (other)

Project Chemist: [illegible]

Laboratory No. 02-149

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C	PCB's by 8082	Pesticides by 8081	Total RCRA Metals (8)	TCLP Metals	VPH	EPH							% Moisture
1	MW3-1.5	2/25/02	1045	S	1																				
2	MW3-3.0-4.5		1050																						
3	MW3-4.5-6.0		11:00							X															X
4	MW3-7.5-8.0		1105																						
5	MW3-8.0-8.5		1110																						
6	MW3-8.5-9.0		1113																						
7	MW3-9.0-10.0		1125																						
8	MW3-10.0-11.0		1130																						
9	MW3-12.5-13.0		1145																						
10	SB5-0.33-3.0		1345							X															X
11	SB5-3.0-3.5		1400																						
12	SB5-5.0-6.0		1402																						

RELINQUISHED BY	DATE	RECEIVED BY	DATE
John [illegible]	2/27/02	Laura Kent	2-27-02
FIRM: FARALLON	TIME: 11:00	FIRM: OSE	TIME: 11:00
RELINQUISHED BY	DATE	RECEIVED BY	DATE
FIRM	TIME	FIRM	TIME

REVIEWED BY
DATE REVIEWED

COMMENTS:

Chromatographs with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Fax: (425) 885-4603 • Phone: (425) 883-3881

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Day
- ☐ 3 Day
- ☒ Standard (Hydrocarbon analyses: 5 days, All other analyses: 7 days)
- ☐ _____ (other)

Project Chemist: DR

Laboratory No. 02-149

Company: FARALLON

Project No.: 773-001

Project Name: ULTRA CUSTOM CARE - BOTHELL

Project Manager: KIM SAGANSKI

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C	PCB's by 8082	Pesticides by 8081	Total RCRA Metals (8)	TCLP Metals	VPH	EPH						% Moisture
13	SB6- 0.5-1.0	2/25/02	1410	S	1																			
14	SB6- 2.0-3.0	↓	1410	↓	↓					X														X
15	SB6- 3.0-4.0		1430																					
16	SB6- 5.0-6.0		1433																					
17	SB7- 0.5-1.5		1438							X														X
18	SB7- 2.0-3.0		1436																					
19	SB7- 3.0-4.0		1450																					
20	SB7- 5.0-6.0		1450																					

RELINQUISHED BY	DATE	RECEIVED BY	DATE
John Selstt	2/27/02	Laura Kent	2-27-02
FIRM: FARALLON	TIME: 11:00	FIRM: OSE	TIME
RELINQUISHED BY	DATE	RECEIVED BY	DATE
FIRM	TIME	FIRM	TIME

REVIEWED BY

DATE REVIEWED

COMMENTS:

Chromatographs with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy

OnSite Environmental Inc.
Analytical Testing and Mobile Laboratory Services

PROJECT

March 14, 2002

RECEIVED
MAR 1 8 2002
BY:

Kim Saganski
Farallon Consulting, LLC
320 3rd Avenue NE, Suite 200
Issaquah, WA 98027

Re: Analytical Data for Project 773-001
Laboratory Reference No. 0203-039

Dear Kim:

Enclosed are the analytical results and associated quality control data for samples submitted on March 6, 2002.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881 • Fax (425) 885-4603

Date of Report: March 14, 2002
Samples Submitted: March 6, 2002
Lab Traveler: 03-039
Project: 773-001

Case Narrative

Samples were collected on March 6, 2002. Samples were maintained at the laboratory at 4°C and followed SW846 analysis and extraction methods.

NWTPH Gx Analysis

Any QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Halogenated Volatiles EPA 8260B Analysis

Any QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: March 14, 2002
Samples Submitted: March 6, 2002
Lab Traveler: 03-039
Project: 773-001

NWTPH-Gx

Date Extracted: 3-7-02
Date Analyzed: 3-7-02

Matrix: Water
Units: ug/L (ppb)

Client ID: **MW-2**
Lab ID: 03-039-03

	Result	Flags	PQL
TPH-Gas	**ND**		100
Surrogate Recovery:			
Fluorobenzene	97%		

Date of Report: March 14, 2002
Samples Submitted: March 6, 2002
Lab Traveler: 03-039
Project: 773-001

NWTPH-Gx
METHOD BLANK QUALITY CONTROL

Date Extracted: 3-7-02
Date Analyzed: 3-7-02

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0307W1

	Result	Flags	PQL
TPH-Gas	**ND**		100
Surrogate Recovery:			
Fluorobenzene	98%		

Date of Report: March 14, 2002
Samples Submitted: March 6, 2002
Lab Traveler: 03-039
Project: 773-001

NWTPH-Gx
DUPLICATE QUALITY CONTROL

Date Extracted: 3-7-02
Date Analyzed: 3-7-02

Matrix: Water
Units: ug/L (ppb)

Lab ID:	02-152-06 **Original**	02-152-06 **Duplicate**	**RPD**	**Flags**
TPH-Gas	**ND**	**ND**	NA	
Surrogate Recovery:				
Fluorobenzene	97%	99%		

Date of Report: March 14, 2002
Samples Submitted: March 6, 2002
Lab Traveler: 03-039
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

Date Extracted:	3-12-02
Date Analyzed:	3-12-02
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	03-039-01
Client ID:	**MW-1**

Compound	**Results**	**Flags**	**PQL**
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	0.38		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	36		0.20
Bromochloromethane	ND		0.20
Chloroform	2.0		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	18		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	880		20
1,3-Dichloropropane	ND		0.20

Date of Report: March 14, 2002
Samples Submitted: March 6, 2002
Lab Traveler: 03-039
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

Lab ID: 03-039-01
Client ID: MW-1

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	122	71-133
Toluene, d8	106	80-151
4-Bromofluorobenzene	83	75-139

Date of Report: March 14, 2002
Samples Submitted: March 6, 2002
Lab Traveler: 03-039
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

Date Extracted:	3-14-02
Date Analyzed:	3-14-02
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	03-039-02
Client ID:	**MW-3**

Compound	**Results**	**Flags**	**PQL**
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		1.0
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	0.44		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		0.20
(cis) 1,3-Dichloropropene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	4.7		0.20
	ND		0.20

Date of Report: March 14, 2002
Samples Submitted: March 6, 2002
Lab Traveler: 03-039
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

Lab ID: 03-039-02
Client ID: MW-3

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	127	71-133
Toluene, d8	99	80-151
4-Bromofluorobenzene	75	75-139

Date of Report: March 14, 2002
Samples Submitted: March 6, 2002
Lab Traveler: 03-039
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

Date Extracted: 3-14-02
Date Analyzed: 3-14-02

Matrix: Water
Units: ug/L (ppb)

Lab ID: 03-039-03
Client ID: MW-2

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		1.0
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		0.20
(cis) 1,3-Dichloropropene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	0.41		0.20
	ND		0.20

Date of Report: March 14, 2002
Samples Submitted: March 6, 2002
Lab Traveler: 03-039
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

Lab ID: 03-039-03
Client ID: MW-2

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	128	71-133
Toluene, d8	99	80-151
4-Bromofluorobenzene	77	75-139

Date of Report: March 14, 2002
Samples Submitted: March 6, 2002
Lab Traveler: 03-039
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Date Extracted: 3-12-02
Date Analyzed: 3-12-02

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0312W1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		1.0
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		0.20
(cis) 1,3-Dichloropropene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
	ND		0.20

Date of Report: March 14, 2002
Samples Submitted: March 6, 2002
Lab Traveler: 03-039
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Lab ID: MB0312W1

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	130	71-133
Toluene, d8	102	80-151
4-Bromofluorobenzene	79	75-139

Date of Report: March 14, 2002
Samples Submitted: March 6, 2002
Lab Traveler: 03-039
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Date Extracted: 3-14-02
Date Analyzed: 3-14-02

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0314W1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20

Date of Report: March 14, 2002
Samples Submitted: March 6, 2002
Lab Traveler: 03-039
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Lab ID: MB0314W1

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	124	71-133
Toluene, d8	98	80-151
4-Bromofluorobenzene	78	75-139

Date of Report: March 14, 2002
Samples Submitted: March 6, 2002
Lab Traveler: 03-039
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
SB/SBD QUALITY CONTROL

Date Extracted: 3-14-02
Date Analyzed: 3-14-02

Matrix: Water
Units: ug/L (ppb)

Lab ID: SB0314W1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	RPD	Flags
1,1-Dichloroethene	10.0	7.86	79	8.06	81	2.5	
Benzene	10.0	11.1	111	11.2	112	0.44	
Trichloroethene	10.0	8.77	88	9.10	91	3.7	
Toluene	10.0	10.4	104	10.8	108	3.2	
Chlorobenzene	10.0	9.41	94	9.65	97	2.6	

OnSite Environmental Inc.

DATA QUALIFIERS AND ABBREVIATIONS

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

D - Data from 1:____ dilution.

E - The value reported exceeds the quantitation range, and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

G - Insufficient sample quantity for duplicate analysis.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeniety. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

O - Hydrocarbons outside the defined gasoline range are present in the sample; NWTPH-Dx recommended.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a silica gel cleanup procedure.

Y - Sample extract treated with an acid cleanup procedure.

Z -

ND - Not Detected at PQL
MRL - Method Reporting Limit
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: FARALLON
Project No.: 773-001
Project Name: ULTRA CUSTOM CARE - BOTHELL
Project Manager: KIM SAGANSKI

Turnaround Request (in working days)
(Check One)
- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Day
- ☐ 3 Day
- ☒ Standard (Hydrocarbon analyses: 5 days, All other analyses: 7 days)
- ☐ _____ (other)

Project Manager: DB

Laboratory No. 03-039

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/~~BTEX~~	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C	PCB's by 8082	Pesticides by 8081	Herbicides by 8151A	Total RCRA Metals (8)	Priority Pollutant Metals (13)	TCLP Metals	VPH	EPH					% Moisture
1	MW-1	3/6/02	1504	W	3					X															
2	MW-3	↓	1555	↓	↓					X															
3	MW-2		1643				X			X															

RELINQUISHED BY	DATE	RECEIVED BY	DATE
JOHN SCHMITT	3/6/02	STACEY DUNAN	3-6-02
FIRM: FARALLON	TIME: 1800	FIRM: OnSite Environmental	TIME: 6:00 pm
RELINQUISHED BY	DATE	RECEIVED BY	DATE
FIRM	TIME	FIRM	TIME

REVIEWED BY

DATE REVIEWED

COMMENTS:

Chromatographs with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy

RECEIVED
AUG 31 1992
DEPT. OF ECOLOGY

SEACOR

August 24, 1990

Mr. Warren Gray
Director of Public Works
18305 - 101st Avenue N.E.
Bothell, WA 98011

Dear Mr. Gray:

UNDERGROUND STORAGE TANK CLOSURE, BOTHELL CITY HALL, 18305 - 101ST AVENUE N.E., BOTHELL, WASHINGTON

SEACOR is pleased to submit the attached closure report for the removal of two underground gasoline storage tanks at the Bothell City Hall complex at 18305 - 101st Avenue N.E., Bothell, Washington. This report documents the tank removal and inspection, soil conditions in the tank excavation, soil sampling techniques and locations, and results of soil sample analysis. This project was completed in accordance with our proposal dated July 10, 1990.

Based upon visual observations made during the tank removal, and upon the results of analytical soil testing, it appears that the only petroleum-affected soil in the tank excavation was a small amount of soil (less than 1 cubic yard) surrounding the fill pipes for the two tanks. Soil analysis indicated that the concentration of petroleum hydrocarbons in this soil was approximately 11 parts per million (ppm), which is well below the draft Washington Department of Ecology (Ecology) cleanup standard of 100 ppm. No other soil samples analyzed had detectable concentrations of petroleum hydrocarbons. Based on this information, all soil excavated during the removal of the storage tanks at this site was replaced in the excavation.

SEACOR believes that the City of Bothell has sucessfully completed tank closure in accordance with all state and local regulations, policies, and procedures. No further action is recommended.

Sincerely,

Carol A. Hutley

Carol A. Hutley, P.E.
Associate Engineer

Carol Hutley for DPC

Del Christenson
Principle Scientist

330 112th Northeast
#104
Bellevue, WA 98004
206.646.0280

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Appendix A Photographs

Appendix B Analytical Soil Test Results and Chain-of-Custody Records

1.0 INTRODUCTION

This report documents the removal of two underground gasoline storage tanks at Bothell City Hall, located at 18305 - 101st Avenue N.E. in Bothell, Washington. The report includes a site description, a discussion of the tank removal and soil sampling procedures, soil sample results, and conclusions.

1.1 Site Description

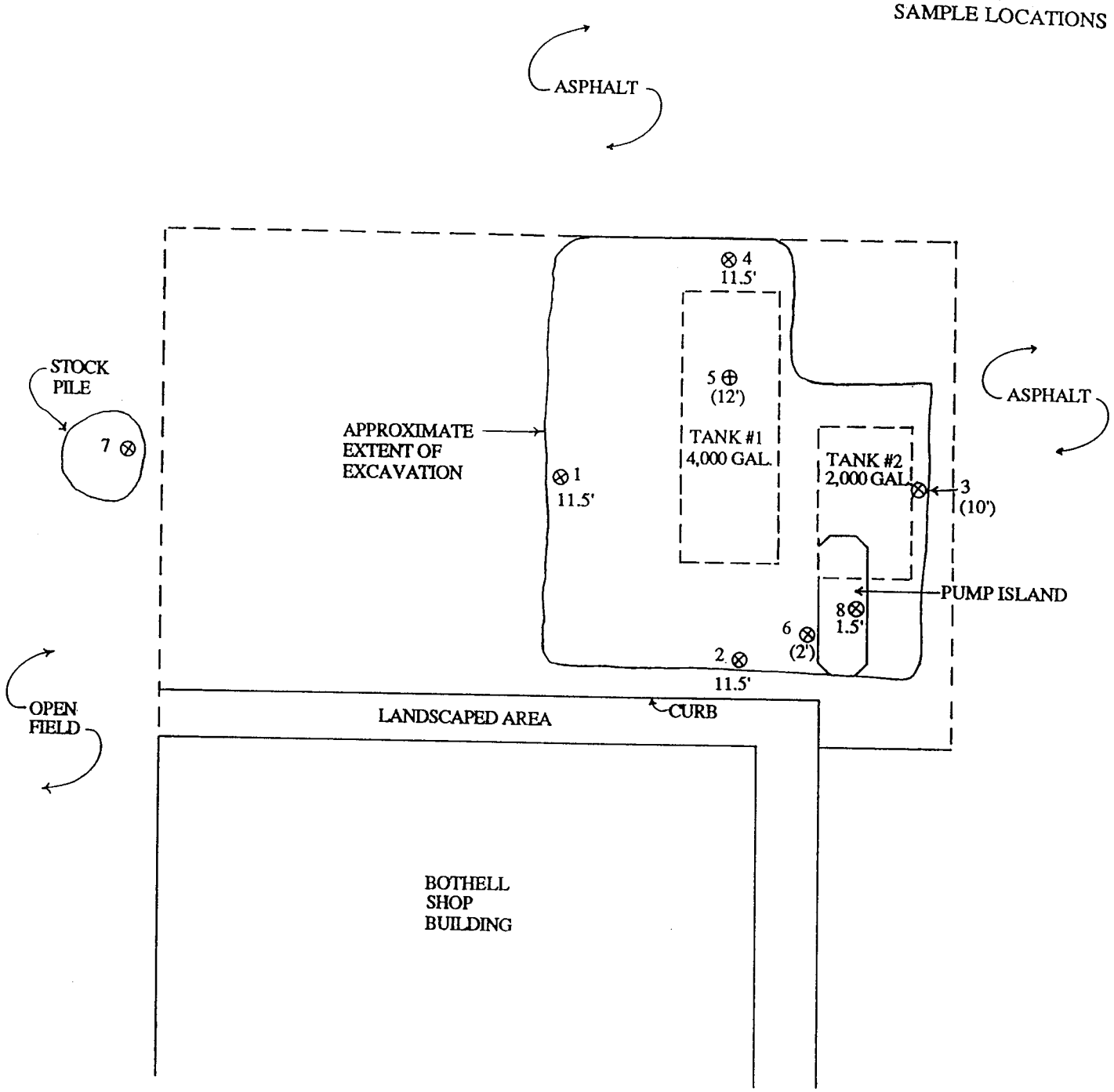
Bothell City Hall is a small complex consisting of an office building, a shop building, and surrounding parking and landscaped areas (see Figure 1). Two underground gasoline tanks estimated to be over twenty years old were present at the site. The larger tank (Tank #1) had a capacity of approximately 4,000 gallons. The smaller tank (Tank #2) had a capacity of 2,000 gallons. The tanks were installed side by side in the northwest corner of the site, under a paved parking area.

1.2 Scope of Work

The City of Bothell contracted directly with A-1 Petroleum Construction, Inc. of Snohomish, Washington for removal of the underground tanks. The City contracted with SEACOR to provide environmental engineering and consulting services associated with the tank removal. The specific scope of services provided by SEACOR included:

- Observation of the tank removal and inspection of the tanks for signs of leakage (i.e. holes and loose fittings);
- Documentation of the tank removal via photographs;
- Inspection of the tank excavation and soil headspace analysis with a photoionization trace gas detector (PID) to evaluate whether petroleum effected soil was present;
- Collection of soil samples as recommended by the Washington Department of Ecology (DOE) for tank closure, and, as necessary to confirm the presence or absence of petroleum hydrocarbon contamination at the site.
- Preparation of this closure report.

FIGURE 1
SITE PLAN
SAMPLE LOCATIONS



LEGEND

⊗ SOIL SAMPLE LOCATION

(XX) DEPTH OF SOIL SAMPLE

N

0' 10'
SCALE

SEACOR

2.0 TANK REMOVAL

The two underground storage tanks were inerted and removed on July 16, 1990. The removal was observed by Ms. Carol Hutley of SEACOR, and was documented with photographs (see Appendix A).

The tank removal began with excavation of the larger underground tank herein referred to as Tank #1. The asphalt covering the tank area had been previously removed leaving the work area accessible. The top of Tank #1, which was approximately 3-1/2 feet below existing ground, was exposed using a backhoe. The excavated soil was then evaluated with a PID to estimate the level of petroleum hydrocarbons present. With the exception of a small cone (6-inch base) of soil surrounding the tank fill pipe, all soil samples analyzed yielded PID readings below 10 parts per million (ppm). These concentrations are considered quite low. Soil directly surrounding the fill pipe yielded PID readings generally between 20 and 30 ppm. This soil was slightly darker in color than other soil in the excavation, and had a slight odor. Based on this information, soil within a 12-inch radius of the fill pipe was segregated and stockpiled on a sheet of heavy weight plastic. The pile was covered with additional plastic sheeting pending the results of analytical soil analysis to determine the extent of petroleum hydrocarbon contamination. As the remainder of Tank #1 was exposed, the PID was used to monitor petroleum hydrocarbon levels in the soil and in the air near the excavation. No further areas of concern were identified. The tank was removed from the excavation and examined closely for signs of leakage. The tank appeared to be in relatively good condition, and no holes were observed. Following inspection, the tank was photographed and loaded on a truck for disposal at Northwest EnviroService in Seattle, Washington. Soil samples were collected from the excavation per the DOE recommendations for tank closure.

Tank #2 was located approximately 9 feet east of Tank #1. The top of this tank was encountered approximately 3-1/2 feet beneath the existing ground surface. Soil excavated above the top of this tank was also tested with the PID to estimate petroleum hydrocarbon levels. As in the case of Tank #1, the only area of concern was a small cone of soil near the fill pipe. The material within a 12-inch radius of the fill pipe was segregated, and was stockpiled with the soil removed around the fill pipe for Tank #1. Tank #2 was then fully exposed and removed from the excavation. This tank was also in good condition and had no apparent holes or leaks. The tank was photographed and loaded for transport to Northwest EnviroService. Soil samples were collected as necessary to document tank closure.

After the excavation was complete, in situ and excavated soils were examined in order to determine the type of geologic material present beneath the site. Primarily, two types of soil were encountered. The native material in this area, which is Everett gravelly sandy loam, is somewhat excessively drained soil that is underlain by very gravelly sand. The fill material in the excavation was medium brown gravelly sand. No groundwater was encountered during the excavation. The drainage potential of these two soils may account for the good condition of the storage tanks.

3.0 SOIL SAMPLING AND ANALYSIS

Soil samples taken at this site were collected with a clean stainless steel scoop. Prior to the collection of each sample, the scoop was cleaned in an aqueous solution of trisodium phosphate, rinsed in tap water, and rinsed a second time in distilled, deionized water. Samples were contained in clean glass jars with Teflon lined screw caps, and were stored in a cooler on ice pending delivery to North Creek Analytical for analysis.

Five discrete soil samples (1 - 5) were collected in the tank excavation. One sample was collected from the base of each sidewall of the excavation and one sample was collected from the bottom of the excavation. This is the number of sampling procedure recommended by the DOE for tank closure. Two additional samples (6 and 8) were collected from beneath the pump island and supply line locations, respectively. Sample number 7 was collected from the stockpile material, which was excavated from around the tank fill pipes. The location and depth of each sample is shown on Figure 1.

Soil samples from this site were submitted to North Creek Analytical of Bothell, Washington for analysis. All samples were analyzed to quantify TPH (total petroleum hydrocarbons) and BTEX (benzene, toluene, ethyl benzene, and xylene), utilizing EPA methods 8015 (modified) and 8020 respectively. Since one or both of the tanks originally contained leaded gasoline, sample 5 was also analyzed for organic lead. Sample 7 , the stockpile sample, contained TPH at a concentration of 11 ppm. The draft DOE level is 100 ppm as stated in the "Cleanup Standards Amendments to Model Toxics Control Act Cleanup Regulation" dated March 1990. No BTEX was detected in this sample. No other samples contained detectable levels of TPH or BTEX, and there was no detectable organic lead in Sample 5. Analytical results and Chain-of-Custody records are contained in Appendix B. Analytical results are summarized in Table 1.

TABLE 1

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLING

Sample No.	Location	TPH (ppm)	BTEX (ppm)	Lead
1	West wall of excavation	ND	ND	--
2	South wall of excavation	ND	ND	--
3	East wall of excavation	ND	ND	--
4	North wall of excavation	ND	ND	--
5	Bottom of excavation	ND	ND	ND
6	Under supply line location	ND	ND	--
7	Stockpile	11	ND	--
8	Under pump island	ND	ND	--

ND = Not detected
-- = Not analyzed

4.0 CONCLUSIONS

Based upon observations made during the tank removal, and on analytical test results, it appears that, with the exception of a very small amount of soil near the tank fill pipes, there was no petroleum-effected soil at this site. Laboratory analysis of the soil excavated near the fill pipes yielded a TPH concentration of only 11 ppm and no detectable concentrations of BTEX compounds. Since the level of TPH is significantly below draft DOE cleanup standards, and because the amount of soil involved is extremely small (approximately 1 cubic yard), replacing this soil in the excavation would constitute proper handling of this material.

SEACOR believes that based on current state and local regulations, procedures, and policies, the City of Bothell has met or exceeded all requirements for tank closure at this site. No further action is recommended.

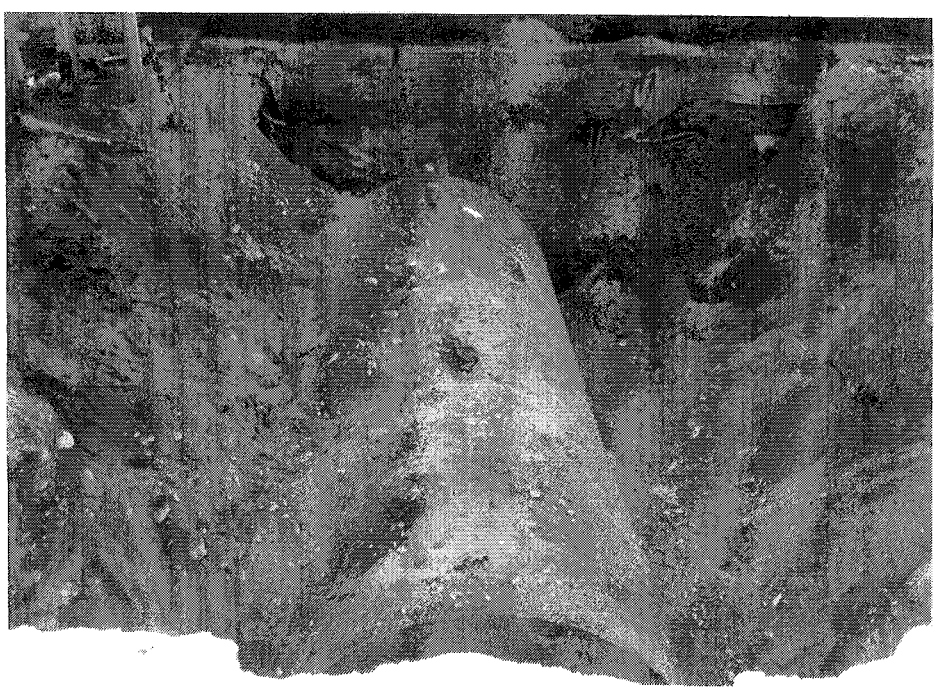
The findings and conclusions documented in this report have been prepared for specific application to this project and have been developed in a manner consistent with that level of care and skill normally exercised by members of the environmental science profession currently practicing under similar conditions in the area. No warranty, expressed or implied, is made. This report is for the exclusive use of the City of Bothell and their representatives.

APPENDIX A

PHOTOGRAPHS

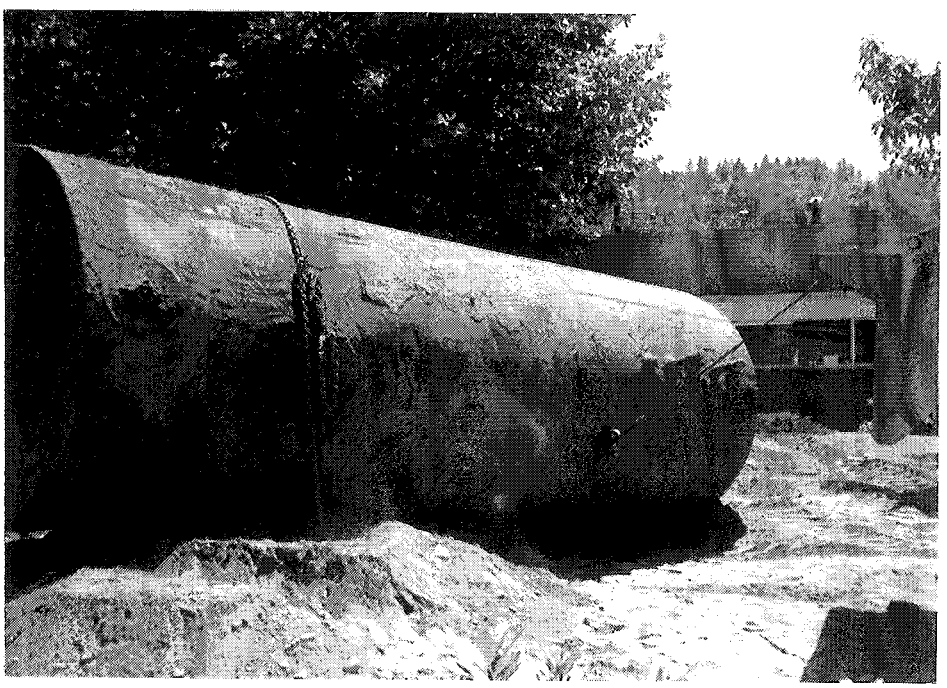
Project Site:
Bothell City Hall Complex
18305 - 101st Avenue N.E.
Bothell, WA 98011

A-1 Petroleum Construction, Inc. inerting the storage tanks prior to removal

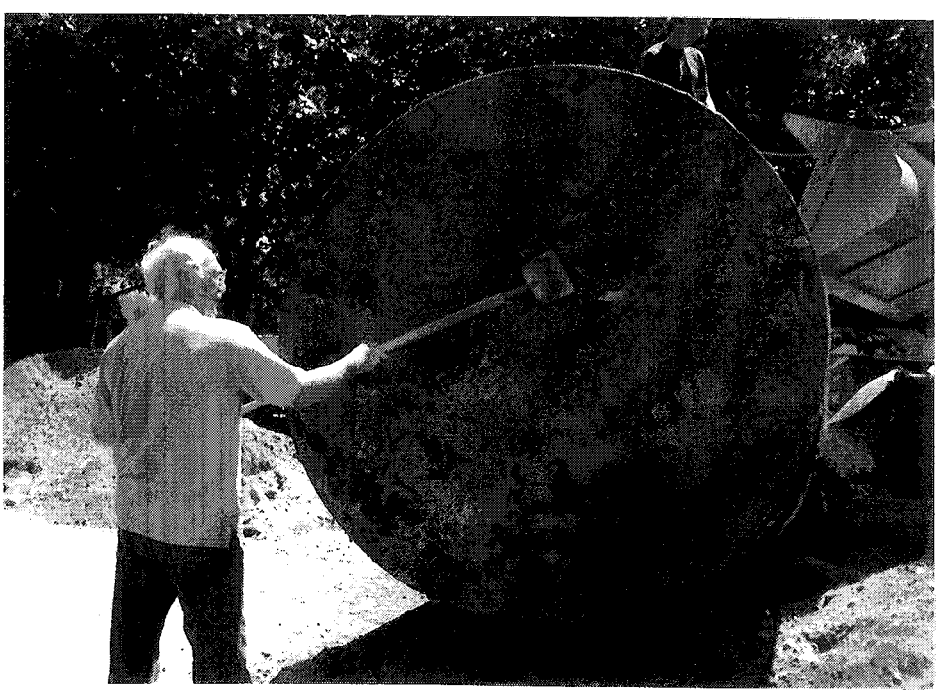


Excavation to remove the 4,000 gallon underground gasoline storage tank

Removal of the 4,000 gallon underground gasoline storage tank

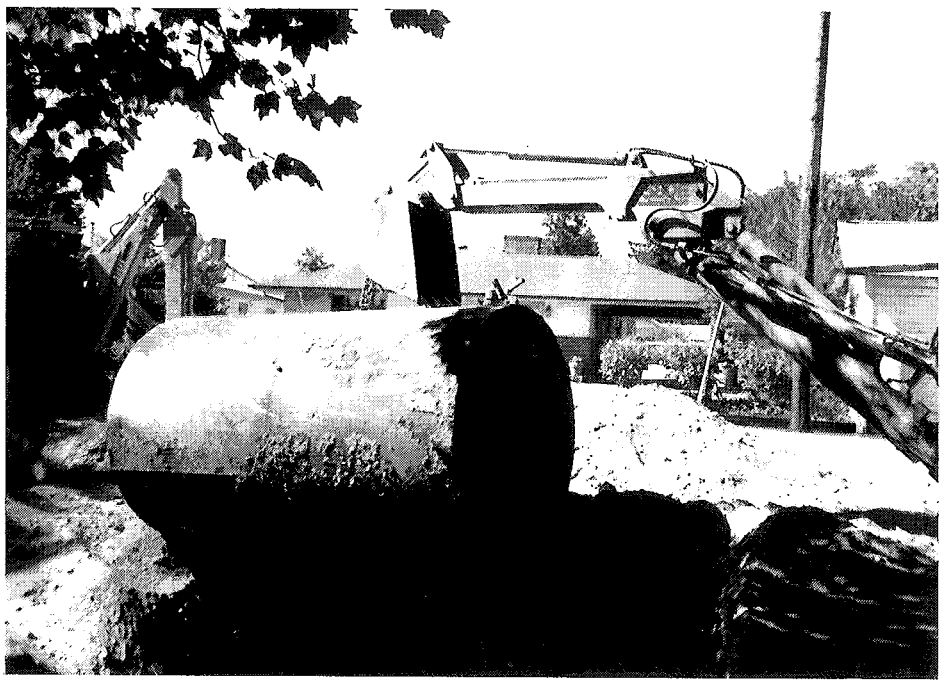


Top view of the 4,000 gallon tank prior to scraping and inspection

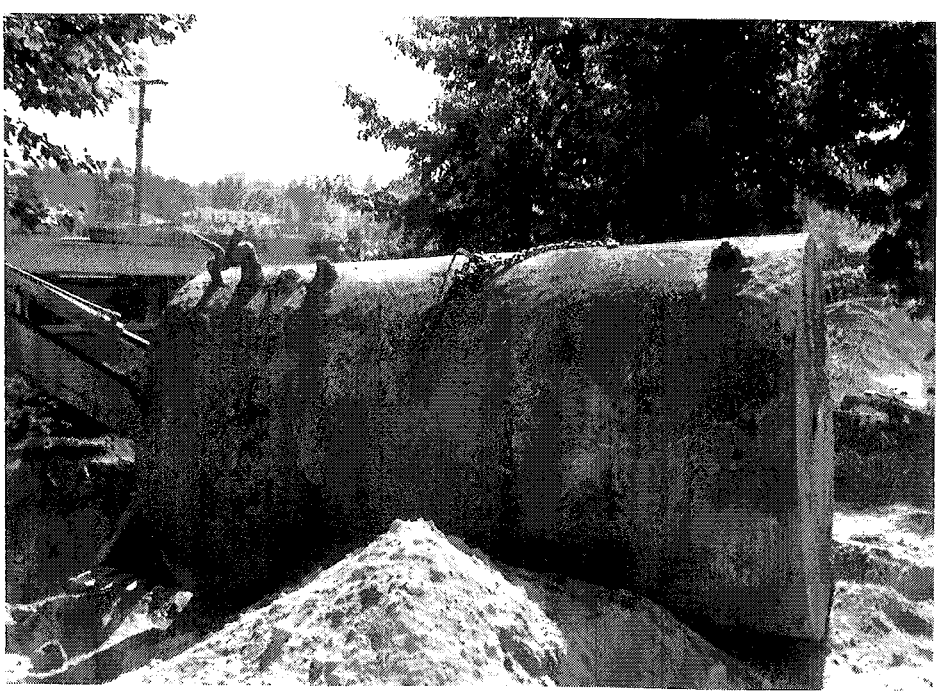


Inspection of the 4,000 gallon tank for holes or signs of leakage

Excavation to remove 2,000 gallon underground gasoline storage tank



Removal of 2,000 gallon underground gasoline storage tank



2,000 gallon storage tank prior to scraping and inspection

APPENDIX B

ANALYTICAL SOIL TEST RESULTS AND CHAIN-OF-CUSTODY RECORDS

NORTH CREEK ANALYTICAL

18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011
Phone (206) 481-9200 • FAX (206) 485-2992

SEACOR	Client Project ID:	00030-001-01	Sampled:	Jul 17, 1990
330 112th Avenue N.E., #104	Matrix Descript:	Soil	Received:	Jul 18, 1990
Bellevue, WA 98004	Analysis Method:	EPA 5030/8015/8020	Analyzed:	Jul 19, 1990
Attention: Carol Hutley	First Sample #:	007-0194	Reported:	Jul 24, 1990

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
007-0194	1,West wall ctr ±12'	N.D.	N.D.	N.D.	N.D.	N.D.
007-0195	2, South wall ctr ±12	N.D.	N.D.	N.D.	N.D.	N.D.
007-0196	3, East wall ctr ±11'	N.D.	N.D.	N.D.	N.D.	N.D.
007-0197	4, North wall ctr ±12'	N.D.	N.D.	N.D.	N.D.	N.D.
007-0198	5, Bottom north end of T2 ±12'	N.D.	N.D.	N.D.	N.D.	N.D.
007-0199	6, Under supply line ±2.0'	N.D.	N.D.	N.D.	N.D.	N.D.
007-0200	Stockpile	11	N.D.	N.D.	N.D.	N.D.
007-0503	#8	N.D.	N.D.	N.D.	N.D.	N.D.
Detection Limits:		**1.0**	**0.050**	**0.10**	**0.10**	**0.10**

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

NORTH CREEK ANALYTICAL

Scot Cocanour
Laboratory Director

Please Note:
Sample # 007-0503 was analyzed on 7/28/90.

SEACOR

CHAIN-OF-CUSTODY RECORD

SEACOR 330 112th Ave. NE, #104 Bellevue, WA 98004	PHONE: (206) 646-0280	PROJECT MANAGER: Del Christenson	PROJECT NUMBER/NAME: 60030-001-01
SAMPLER: (Sign and print name) CAROL HUDLEY Carol Hudley	LABORATORY: NORTH CREEK ANALYTICAL		LABORATORY ID NUMBER:

SAMPLE ID NUMBER	DATE	TIME	SAMPLE TYPE	STATION/LOCATION	ANALYSIS REQUESTED/REMARKS
1	7/17/90	2:15	grab	West wall - ctr ±12 feet	8015 Mod. & 8020 (Combination)
2		2:20	grab	Southwall - ctr ±12 feet	8015 Mod. & 8020 (Combination)
3		4:15	grab	Eastwall - ctr ± 11 feet	8015 Mod. & 8020 (Combination)
4		2:25	grab	Northwall - ctr ± 12 feet	8015 Mod. & 8020 (Combination)
5		2:10	grab	Bottom - north end of T2 ± 12'	8015 Mod & 8020 (Combination)
6		4:05	grab	Under supply line ±2.0'	8015 Mod. + 8020 (Combination)
7		4:10	grab	Under Pump Island ±18"	8015 Mod. + 8020 (Combination)

RELINQUISHED BY: (Signature)	DATE: 7/17	RECIEVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE:	RECIEVED BY: Signature
Carol Hudley	TIME: 4:20			TIME:	
RELINQUISHED BY: (Signature)	DATE:	RECIEVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE:	RECIEVED BY: Signature
	TIME:			TIME:	
RELINQUISHED BY: (Signature)	DATE:	RECIEVED FOR LABORATORY BY: (Signature)			REMARKS:
	TIME:	Scot Cocan 7/17 pm			

Results to Carol Hudley please

SEACOR

CHAIN-OF-CUSTODY RECORD

SEACOR 330 112th Ave. NE, #104 Bellevue, WA 98004	PHONE: (206) 646-0280	PROJECT MANAGER: Del Christenson	PROJECT NUMBER/NAME: Bothell UST 30-001-01
SAMPLER: (Sign and print name) Carol Hutley	LABORATORY: North Creek Analytical		LABORATORY ID NUMBER:

SAMPLE ID NUMBER	DATE	TIME	SAMPLE TYPE	STATION/LOCATION	ANALYSIS REQUESTED/REMARKS
8	7-16-90	4:30	grab	Under pump island	8015/8020

RELINQUISHED BY: (Signature) Carol Hutley	DATE: 7-27-90 TIME: 12:25	RECIEVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE: TIME:	RECIEVED BY: Signature
RELINQUISHED BY: (Signature)	DATE: TIME:	RECIEVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE: TIME:	RECIEVED BY: Signature
RELINQUISHED BY: (Signature)	DATE: TIME:	RECIEVED FOR LABORATORY BY: (Signature)			REMARKS:

PHASE II ENVIRONMENTAL SITE ASSESSMENT
Beta Bothell Landing Property
Parcels No. 9457200015 & 9457200020
Bothell, Washington

HWA Project No. 2007-098-22

Prepared for
City of Bothell

November 1, 2007

HWA GEOSCIENCES INC.

- *Geotechnical Engineering*
- *Hydrogeology*
- *Geoenvironmental Services*
- *Inspection & Testing*

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PHASE II ENVIRONMENTAL SITE ASSESSMENT
BETA BOTHELL LANDING PROPERTY
BOTHELL, WASHINGTON

1.0 INTRODUCTION

This report presents the results of the HWA GeoSciences Inc. (HWA) Phase II Environmental Site Assessment (ESA) conducted for Perteet Engineering, Inc. (Perteet) and the City of Bothell (City) at the Beta Bothell Landing property (subject property), part of the Bothell Crossroads Project (Figure 1).

1.1 SITE LOCATION AND DESCRIPTION

The subject property is located at 18120 and 18132 Bothell Way, and 10001 Woodinville Drive, Bothell, Washington, Parcels No. 9457200015 and 9457200020. The work was conducted for Perteet and the City, which is considering purchase of the subject property. Figure 2 shows the subject property site plan.

The subject property consists of an approximately rectangular lot located adjacent south of the intersection of Bothell Way and Woodinville Drive. The site is accessed from Bothell Way and Woodinville Drive on the north and Northeast 180th Street on the south.

The subject property is developed with two single-story restaurants in the northeast and northwest corners of the subject property and two multi-tenant retail and office buildings in the southern portion of the subject property. The remainder of the subject property is covered with asphalt-paved parking and landscaping. A 48-inch concrete storm drain conveying Horse Creek extends through the north and eastern portion of the property, with the creek daylighting at the east property boundary (Figure 2).

1.2 AUTHORIZATION / SCOPE OF WORK

HWA's work for this project was authorized under two contracts, one with City of Bothell dated June 26, 2007, for the first round of investigation, and one with Perteet Engineering, Inc. dated July 25, 2007, for the follow-on investigation. HWA's scope of work for this project is summarized below:

1) Review available data
2) Prepare project work plan, and health and safety plan
3) Conduct a geophysical reconnaissance
4) Drill and sample soil probes (e.g., Geoprobe)
5) Collect soil samples from soil probes
6) Collect ground water samples from selected soil probes

7) Submit samples for laboratory analysis
8) Prepare site assessment report

1.3 Objectives

The purpose of this site assessment was to investigate the potential presence of soil or ground water contamination that may present liability issues, health and safety concerns during construction, delay or affect construction, or require additional investigation or remediation costs, to support property transaction and future construction.

The primary historical environmental concerns at the site are associated with 1) former gas stations, 2) the presence of undocumented fill beneath the site, and 3) multiple potential off site sources of contamination.

1.4 Previous Site Assessment Results

The Riley Group, Inc. (Riley) completed a Phase I ESA at the subject property in May 2007. Based on Riley's research and review of previous site reports, two service stations were previously located at the northeast and northwest corners of the property. These service stations were reportedly located on site between the 1930's and 1970's. The stations were demolished during site reconstruction in the 1970's and underground storage tanks (USTs) associated with the stations were reported to have been removed.

In 1998, the City purchased the north central portion of the site at 10001 Woodinville Way as part of a roadway widening and rotunda park project. In the course of site excavation, five USTs and associated petroleum-affected soils were discovered. The USTs were assumed to have been associated with one of the former service stations. At the time of the discovery, excavation was limited to the City property boundary. The City removed approximately 385 tons of petroleum-affected soils. Petroleum hydrocarbon and aromatic hydrocarbon concentrations remaining in the excavation sidewalls exceeded Washington State Department of Ecology (Ecology) Model Toxics Cleanup Act (MTCA) cleanup levels. The excavation was backfilled with clean imported soils. A visqueen barrier was placed around the excavation limits to minimize recontamination of soil from adjacent impacted soils.

Kleinfelder, Inc. performed a Phase II ESA at the subject property in 1999 by to delineate soil and ground water impacts in the vicinity of the adjacent City UST site. Kleinfelder completed GeoProbe borings, and identified gasoline, diesel, oil, and benzene in soil and ground water. Kleinfelder supplemented the Phase II in 1999 with the installation of four monitoring wells at the subject property to monitor ground water impacts and flow direction. Kleinfelder's initial ground water sampling found petroleum hydrocarbons in ground water above cleanup levels. Subsequent ground water sampling events from the four monitoring wells indicated that petroleum concentrations in ground water were

decreasing, and results from Kleinfelder's most recent sampling event (April, 2006) were below MTCA cleanup levels. Kleinfelder did not test for chlorinated solvents (e.g. PCE, TCE, DCE) in any of these investigations.

The property owner filed a restrictive covenant on the subject property in January, 2002 acknowledging that impacted soils and ground water remained at the property. Ecology issued an interim No Further Action (NFA) determination of the site in 2002 for soils only. The site was later removed from the Voluntary Cleanup Program in 2006 due to the lack of further activity, such as monitoring or remediation. The 2002 NFA was also rescinded at this time, due to cleanup exceedances.

A supplemental ground water monitoring report was prepared for the property in 2006 by Kleinfelder, Inc. The sampling results found that the apparent extent of petroleum-affected ground water at the site had decreased, and appeared to be limited to the north-central portion of the subject property.

2.0 SAMPLE LOCATIONS AND METHODS

HWA conducted the exploration program in July 2007. The program consisted of a geophysical reconnaissance to search for abandoned USTs, 22 direct-push soil probe borings, soil and ground water sampling, and sampling four existing ground water wells. Figures 2 and 3 show the boring and sample locations. Appendix A contains the Sampling and Analysis Plan which describes the site investigation methodologies. Appendix B contains the boring logs.

2.1 ELECTROMAGNETIC/GROUND PENETRATING RADAR SURVEY

On July 3, 2007, Geo Recon International, Seattle Washington, under subcontract to HWA, performed a ground-penetrating radar (GPR) survey to evaluate the presence of USTs at the northern portion of the subject property, in the area of former gas stations and previously removed USTs.

GPR is a geophysical method in which a high frequency electromagnetic signal is emitted into the ground during a linear traverse. Reflections of this signal are recorded and processed to yield a visual image (cross-section) of the subsurface. GPR is a useful tool for determining depth, shape and orientation of buried objects based on density differences.

Multiple east-west traverses were completed across the northern portion of the subject property in the vicinity of the former reported service stations. One anomaly was identified during the GPR investigation. This one anomaly was positively identified as the Horse Creek storm drain, and GeoRecon completed transits across the storm drain at multiple locations to asses its location and depth. Anomalies representative of suspected USTs were not identified. Other anomalies such as buried objects, or significant density differences in fill or soils, were not identified by the GPR.

2.2 SOIL SAMPLE COLLECTION

Under subcontract to HWA, ESN Northwest of Lacey, Washington, (ESN), a licensed drilling contractor, drilled 22 soil borings on July 9 and 10 and August 9, 2007, at the locations shown on Figures 2 and 3. HWA sampled soils to depths of up to 20 feet below ground surface (bgs).

ESN employed a mobile drive-point sampling device (e.g., Geoprobe) to collect soil and ground water samples. The device consists of a hydraulic drive assembly mounted on a pickup truck. Steel pipe (2 inch diameter) was driven into the ground using a hydraulic impact driver. Soil samples were then retrieved through the stainless-steel sampler with a high-density polyethylene (HDPE) liner.

HWA field staff collected continuous depth soil samples. Soil samples were placed in labeled laboratory-provided sample containers using nitrile gloves and clean stainless steel spoons. Samples were placed in a cooler with "blue ice" for transport to the laboratory under chain-of-custody protocol.

HWA collected four to five soil samples from each soil boring. Soil samples selected for analyses were collected at the soil-ground water interface, typically four to eight feet bgs, although selected shallower samples were also collected to assess shallow fill soils. The remaining samples were archived by the laboratory for contingent analyses, if necessary. All samples were field screened using a photo ionization detector (PID). Soil boring logs are included in Appendix B.

2.3 Ground Water Sample Collection

HWA collected ground water samples from eight of the soil borings using low flow sample methods in accordance with the sampling and analysis plan. Ground water was encountered at depths of four to eight feet bgs. Ground water samples were retrieved using a peristaltic pump through a retractable stainless steel screen (well point) driven into native soils. New pump tubing was used at each location. Dissolved metals samples were filtered through a dedicated disposable 0.45-micron glass fiber filter at the time of sample collection.

Four existing ground water monitoring wells at the site were also sampled on July 19, 2007. Monitoring wells were sampled using low-flow sampling methodology. The wells were purged using a peristaltic pump at a low pumping rate to minimize aquifer drawdown and to ensure sampled water represents aquifer conditions. New pump tubing was used at each location. Samples were collected after pH, conductivity, temperature, and dissolved oxygen field readings from periodic monitoring had stabilized.

Samples were pumped directly into the appropriate containers, as provided by the laboratory. Samples were placed in a cooler with blue ice for transport to the laboratory under chain-of-custody protocol.

2.4 Field Screening Instruments

HWA conducted field screening of soil from the borings for the presence of volatile organic vapors using a Mini-Rae PGM 75 photoionization detector (PID). Visual indications of contamination and odor were also noted. Although the PID is not capable of quantifying or identifying specific organic compounds, this instrument is capable of measuring relative concentrations of a variety of organic vapors with ionization potentials less than the energy of the ultraviolet source (in this case, 10.6 eV). The PID is useful for providing qualitative information with respect to the presence and relative concentration of organic vapors. PID readings are shown on the boring logs.

The PID was calibrated with 100 parts per million isobutylene standard at the beginning of the day. Fifty to 100 milliliters of soil from a discrete depth were placed in a plastic bag, sealed, and permitted to sit at least 10 minutes prior to analyzing the vapor in the sample bag. The bag was then perforated by the PID sample tip to obtain the reading. Samples were screened with the PID when sufficient sample volume was available. Exact depths of field PID sample screening and concentration values were recorded on the boring logs.

2.5 Decontamination Methods

To prevent potential cross-contamination of samples, ESN cleaned drilling rods between each boring. All sampling equipment was decontaminated prior to use with detergent solution, potable water, and deionized water.

2.6 Investigation Derived Waste

The soil cuttings and decontamination water from the field investigation were placed in sealed drums at the site pending analytical results. The cuttings and water were then disposed of by Bravo Environmental as non-hazardous waste. Disposable personal protective equipment (e.g., nitrile gloves) was discarded off-site as ordinary solid waste.

3.0 SAMPLE ANALYSES

CCI Analytical Laboratories of Everett, Washington, analyzed the samples for total petroleum hydrocarbons in the gasoline, diesel and oil range, metals, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and polychlorinated biphenyls (PCBs) by using the following test methods:

- Washington state total petroleum hydrocarbons in the gasoline range (method NWTPH-Gx).
- Washington state total petroleum hydrocarbons in the diesel-range extended (method NWTPH-Dx) quantified against diesel, transformer oil, and/or heavy oil standards if any of these petroleum fractions were positively identified. Silica gel/acid cleanup was used to prevent roots and other non-contaminant organic material in the soil samples from affecting analytical results.
- VOCs using EPA method 5053A/8260.
- SVOCs using EPA method 8270.
- PCBs using EPA method 8082.
- Total RCRA Metals (soil) (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver), by U.S. Environmental Protection Agency (EPA) method 6010B/7471A.
- Total and Dissolved RCRA Metals – (water) (arsenic, barium, cadmium, chromium, lead, selenium, and silver) by EPA Method 200.8, and mercury by EPA Method 7470A

Appendix C contains the complete laboratory analytical packages, including chain-of custody forms.

3.1 Quality Control Review

HWA reviewed quality control results of the analytical data. Surrogate recoveries, method blanks, laboratory duplicates, matrix spikes, and matrix spike duplicates were all within control limits with the following exceptions:

- Diesel-range hydrocarbon results in soil sample BH-4-6 are biased high due to volatile range product overlap.
- Volatile-range results in soil sample BH-3-6 are biased high due to semivolatile range product overlap.
- Gasoline and diesel petroleum range hydrocarbon and aromatic hydrocarbon surrogates were diluted out of calibration range for samples collected on July 9. Associated compounds were detected, in samples BH-3-6 and BH-4-6 and are discussed above.

- Volatile organic compound surrogate recovery was outside of control limits for samples collected on July 10. Associated compounds were not detected, and no corrective actions were taken.
- Aromatic hydrocarbon detection limits for soil sample BH-21-6 are elevated due to interference within the sample
- A methylene chloride detection in soil sample BH-20-6 was attributed to laboratory contamination.

The analyses of the soil samples and water samples collected on July 9, 10, 19, and August 9, 2007 were determined to be acceptable for their intended use.

4.0 RESULTS

4.1 Subsurface Conditions

Geologic information for the subject property was obtained from a map titled *Composite Geologic Map of the Sno-King Area, Central Puget Lowland, Washington* (Booth, et al., 2004). According to the map, surficial soils in the vicinity of the subject property are primarily recent alluvium, most likely deposited by the adjacent Sammamish River.

Based on HWA's observations at the subject property, soil at the site typically consisted of approximately three to eight feet of silty sand fill over alluvial soil consisting of interbedded silt and peat. Interbedded alluvial sand and silt was encountered between 11 and 20 feet bgs.

Ground water was encountered in the borings at depths of approximately four to eight feet bgs. Ground water in the existing monitoring wells was encountered between approximately 5.5 and 9.5 feet bgs. Based on previous water level surveys at the site, ground water flow is to the south-southeast, toward the Sammamish River (Riley Group, 2007). Soil boring logs are included as Appendix B.

4.2 Analytical Results

Soil analytical results are summarized in Table 1. Ground water analytical results are summarized in Table 2.

TABLE 1
SOIL ANALYTICAL DATA
(all results in milligrams per kilogram (mg/kg) except as noted)

	Boring	BH-2-6	BH-3-6	BH-3-10	BH-4-6	BH-5-6	BH-5-10	BH-6-6	BH-13-6	BH-14-2	BH-14-6	BH-15-2	BH-15-6	BH-18-10	BH-19-6	BH-20-6	BH-21-6	BKGD	MTCA Method A/B Cleanup Level
	Location	W of USTs, N prop. line	SE of USTs	SE of USTs	NE prop. corner	E edge UST impacts	E edge UST impacts	W edge UST impacts	Fill soils, central prop.	Fill soils, S central prop.	Fill soils, S central prop.	Fill soils, SW prop.	Fill soils, SW prop.	Upgradient, NW prop. corner	Upgradient, NE prop. corner	Upgradient, N prop. Line	Upgradient, N prop. Line		
	Sample interval, ft bgs	6-8'	6-8'	10-12	6-8'	6-8'	10-12	6-8'	6-8'	2-4'	6-8'	2-4'	6-8'	10-12'	6-8'	6-8'	6-8'		
Petroleum Hydrocarbons	Gasoline Range	<3	**1200**	<3	**650**	**140**	<3	<3		<3				<6.3	<6.3	**9.1**	<4.9		100/30*
	Diesel Range	<25	**9300**	<25	**670**	<25		<25	<25	<25	<25	<25	<25		<30	<29	**1500**		2000
	Oil Range	<50	<1000	**120**	<50	<50		<50	**65**	<50	<50	<50	<50		**270**	<57	**2500**		2000
Aromatic Hydrocarbons	Benzene	<0.03	**0.39**	<0.03	<0.03	**0.05**	<0.03	<0.03		<0.03		<0.03		<0.02	<0.02	<0.02	<0.049		0.03
	Toluene	<0.05	**1.2**	<0.05	<0.05	**0.11**	<0.05	<0.05		<0.05		<0.05		<0.063	<0.063	<0.059	<0.25		7
	Ethylbenzene	<0.05	**1.3**	<0.05	**1**	**0.4**	<0.05	<0.05		<0.05		<0.05		<0.063	<0.063	<0.059	<0.25		6
	Xylenes	<0.2	**2.7**	<0.2	<0.2	**1.5**	<0.2	<0.2		<0.2		<0.2		<0.063	<0.063	<0.059	**0.3**		9
VOCs (µg/kg)	Methylene Chloride				<0.2	<0.2								<0.063	<0.063	**0.0037*** **	<0.14		20
SVOCs	Naphthalene		**0.97**																5 (total naphthalenes)
	1-Methylnapthalene		**92**																
	2-Methylnapthalene		**150**																
	Acenaphthylene		**1.8**																NE
	Acenapthene		**7**																4800 (B)
	Fluorene		**9.5**																3200 (B)
	Phenanthrene		**13**																NE
	Anthracene		**1.1**																24000 (B)
	Fluoranthene		**0.18**																3200 (B)
	Pyrene		**0.41**																24000 (B)
	Chrysene		**0.07**																NE
PCBs			ND																1 (total PCBs)
RCRA Metals	Arsenic		<5.0						**5.5**	<5.0	<5.0	<5.0	<5.0					7	20
	Barium		**44**						**98**		**140**		**62**						5600 (B)
	Chromium		**31**						**22**	**40**	**30**	**32**	**37**					48	19/2000**
	Lead		<5.0						**110**	<5.0	**59**	**16**	<5.0					24	250
	Mercury		**0.02**						**0.06**	**0.02**	**0.08**	<0.02	**0.08**					0.07	2

Notes:

MTCA A / B – Ecology MTCA Method A / B soil cleanup levels, Chapter 173-340 WAC, shown for reference only. These cleanup levels may not apply at this site, and are provided as a screening level indication of the environmental quality of the site only.

BKGD - Natural Background Soil Metals Concentrations in Washington State (Ecology, 1994)

µg/kg – micrograms per kilogram

NE – Not Established

< - not detected at listed reporting limit

ND – None of the selected analytes detected. For VOCs SVOCs, and metals, no other method listed analytes detected above reporting limits. See Appendix C for a full list of analytes

Bold – Analyte Detected

Bold / highlighted – Analyte exceeds cleanup level

* - The Method A Soil cleanup levels for gasoline mixtures without benzene and the total of ethylbenzene, toluene, and xylenes are less than 1% of the gasoline mixture are 100 mg/kg/all other mixtures are 30 mg/kg

** - The Method A soil cleanup levels for Chromium are 19 mg/kg for Cr VI and 2000 mg/kg for Cr III. Analyses are for total chromium.

*** - Detection attributed to laboratory contaminant

TABLE 2
GROUND WATER ANALYTICAL DATA
(all results in milligrams per liter (mg/l) except as noted)

Boring		BH-2-W	BH-6-W	BH-8-W	BH-9-W	BH-11W	BH-12-W	BH-15-W	BH-17-W	BH-18-W	BH-19-W	BH-20-W	BH-21-W	BH-22-W	MW-1	MW-2	MW-3	MW-4	MTCA Method A/B Cleanup level
Location		Est. western GW plume boundary	Est. southwestern GW plume boundary	Approx 1999 south GW plume boundary	Approx 1999 south GW plume boundary	Fill soils, central prop.	Upgradient, northwest prop. Corner	Fill soils, southwest prop.	Upgradient, north prop. Line	Upgradient, northwest prop. Corner	Upgradient, northeast prop. Corner	Upgradient, north prop. Line	Upgradient, north prop. Line	Upgradient, former remed. Area	Downgradient southeast	East soil plume	Central soil plume	Downgradient south	
Approximate Depth to Water (ft bgs)		6.5	7	8	7.5	4	8	8	7	7	10	6	7	8	6.88	9.58	5.54	6.92	
Field Parameters	pH														6.57	6.77	6.58	6.6	
	Conductivity (mS/cm)														230	189.4	283	338	
	Temperature (C)														15.7	15.1	19.7	17.6	
	Dissolved Oxygen (mg/l)														0.14	0.34	0.22	0.2	
Petroleum Hydrocarbons	Gasoline Range	<50	<50	<50	<50	<50	**86**	<50	<100	<400	<100	<100	<100	<100	<50	<50	<50	<50	800/1000*
	Diesel Range	<130	<130	<130	<130	**150**	<130	<130			<270	<280	<260	<270	<130	<130	<130	<130	500
	Oil Range	<250	<250	<250	<250	<250	<250	<250			<440	<450	<410	<440	<250	<250	<250	<250	500
Aromatic Hydrocarbons	Benzene	<2	<1	<1	<1	<2	<2	<1	<1	<4	<1	<1	<1	<1	<2	<2	**17**	<2	5
	Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<4	**1.1**	<1	**1.4**	**1.6**	<1	<1	<2	<1	1000
	Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	**12**	<1	<1	<1	<1	<1	<1	<2	<1	700
	Xylenes	<3	<3	<3	<3	<3	<3	<3	**1.3**	<4	**1.9**	<1	**1.8**	**2.6**	<3	<3	<2	<3	1000
VOCs	1,2-DCA	<2	<2	<2	<2	<2	**4**		**0.51**	**16**	<0.2	<0.4	<0.2	<0.2	<2	<2	<2	<2	5
	1,2-DCP	<2	<2	<2	<2	<2	<2		<0.2	**0.31**	<0.2	<0.4	<0.2	<0.2	<2	<2	<2	<2	
	cis-1,2-DCE	<2	<2	<2	<2	<2	<2		<0.2	<0.2	<0.2	**0.83**	**1.8**	**3.2**	<2	<2	**2**	<2	8 (B)
	TCE	<2	<2	<2	<2	<2	<2		<0.2	<0.2	<0.2	**3.2**	**5.8**	**0.84**	<2	<2	<2	<2	5
	n-Propyl Benzene	<2	<2	<2	<2	<2	<2								<2	<2	**5**	<2	NE
	PCE	<2	<2	<2	<2	<2	<2		<0.2	<0.2	<0.2	**74**	**7.4**	<0.2	<2	**17**	<2	<2	5
RCRA Metals**	Arsenic					**49/4**		**68/56**											5
	Barium					**1200/240**		**1000/380**											560 (B)
	Cadmium					**6/<5**		**12/<5**											5
	Chromium					**260/<7**		**200/<7**											50
	Lead					**95/<3**		**25/<3**											15
	Mercury					**0.41/<0.2**		**0.16/<0.2**											2

Notes:

MTCA A / B – Ecology MTCA Method A / B soil cleanup levels, Chapter 173-340 WAC, shown for reference only. These cleanup levels may not apply at this site, and are provided as a screening level indication of the environmental quality of the site only.

µg/L- micrograms per liter

< - not detected at listed reporting limit

Blank – Not Analyzed

Bold – detected

Bold / highlighted – Analyte exceeds cleanup level

* - The Method A Ground Water cleanup levels for gasoline mixtures without benzene and the total of ethylbenzene, toluene, and xylenes are less than 1% of the gasoline mixture are 800 mg/l/all other mixtures are 1000 mg/l

** Metals results are listed for total/dissolved concentrations.

No other hydrocarbons, VOCs or RCRA metals were detected above laboratory reporting limits (see Appendix C for complete list of compounds analyzed).

1,2-DCA – 1,2-Dichloroethane

1,2-DCP - 1,2-Dichloropropane

cis-1,2-DCE - cis-1,2-Dichloroethylene

TCE – Trichloroethylene

PCE- Tetrachloroethylene

5.0 DISCUSSION

5.1 SOIL

Of the 16 soil samples analyzed, four samples contained petroleum hydrocarbon concentrations exceeding Ecology MTCA Method A cleanup levels. These samples, BH-3-6, BH-4-6, BH-5-6, and BH-21-6 were all collected in the vicinity of the known UST release (Figure 4). A deeper sample soil sample collected from the boring with the highest petroleum concentration (HWA-B3-10) also contained petroleum hydrocarbons, but at concentrations below the cleanup level. Samples collected at borings BH-2 and BH-6 to the west and southwest of the former UST area did not contain detectable concentrations of petroleum hydrocarbons. A sample collected from fill soils at boring BH-13 (BH-13-6) contained a detectable concentration of oil-range petroleum hydrocarbons, but the concentration was well below the Method A cleanup level. This detection is not likely associated with the historic UST releases at the subject property, and is most likely due to minor soil impacts from imported fill. Selected samples collected from other site borings did not contain detectable concentrations of petroleum hydrocarbons.

Aromatic hydrocarbons were detected in four soil samples. Benzene was detected in soil samples BH-3-6, and BH-5-6 and exceeded the Method A cleanup level. These samples also contained gasoline-range hydrocarbons, and are associated with the former UST locations (Figure 4). Toluene, ethylbenzene, and xylenes were also detected in these samples, but below cleanup levels. Ethylbenzene was also detected in sample BH-4-6, but below the Method A cleanup level. Xylenes were detected in sample BH-21-6, but below the Method A cleanup level.

The sample containing the highest petroleum concentrations (BH-3-6) was also analyzed for SVOCs and PCBs. The SVOCs naphthalene and methylnaphthalene were detected at concentrations above Method A cleanup levels. Other SVOCs were detected, but at concentrations below cleanup levels. These SVOCs are likely associated with diesel-range petroleum hydrocarbons at that location. PCBs were not detected in the sample.

Metals were detected in selected soil samples BH-3-6, BH-13-6, BH-14-2, BH-14-6, BH-15-2, and BH-15-6. None of the detected metals exceeded MTCA cleanup levels. Lead was elevated above background soil concentrations (Ecology, 1994) in two samples, BH-BH-16-6, and BH-14-6. These concentrations are likely representative of metals in imported fill at the property.

The VOC methylene chloride was detected in soil sample BH-21-6, but this was attributed to a laboratory contaminant (see Section 3.0). VOCs were not detected in the remaining soil samples.

Analytical results for the remaining soil samples either did not detect the selected analytes, or the analyte concentrations were below cleanup limits.

Soil samples collected at the site further delineated the areas of petroleum-affected soils at the northern portion of the subject property (Figure 4). The City property (Rotunda Park) was not sampled and is assumed to be clean based on the 1998 soil remediation, although some potential for re-contamination exists.

Fill soils in the southern portion of the property appeared to be generally unaffected, with the exception of low concentrations of petroleum hydrocarbons at one location (BH-13) and slightly elevated lead concentrations (BH-13, BH-16). This is most likely representative of imported fill at the property, and may not represent on-site sources. The detected concentrations were below cleanup levels.

5.2 Ground Water

HWA collected ground water samples from selected borings and the four monitoring wells at the subject property. Ground water samples collected from the existing site monitoring wells and borings in the vicinity of the UST release area indicated that the extent of the petroleum-affected ground water plume appears to be similar to the extent estimated based on the 2005 ground water sampling (Figure 4).

Gasoline-range petroleum hydrocarbons were also detected in sample BH-12-W, and diesel-range petroleum hydrocarbons were detected in sample BH-11-W at concentrations below Method A cleanup levels. BH-12 is located at the northwest property boundary and was intended to be representative of upgradient conditions. Ground water samples collected at boring BH-17 and BH-18, located on either side of BH-12, did not detect gasoline-range petroleum hydrocarbons. BH-11 is located in an area of fill soils in the southern portion of the subject property. The low petroleum concentration may be associated with imported fill soils at the site. Soil samples from BH-11 were not analyzed, however, a soil sample collected from boring BH-13, north of the BH-11, had a low concentration oil-range petroleum hydrocarbons. This is most likely representative of imported fill at the property, and may not represent on-site sources.

The aromatic hydrocarbon benzene was detected in monitoring well sample MW-3 above cleanup levels. This well is located within the area of previously-reported petroleum hydrocarbon ground water impacts (Figure 4). Benzene was not detected in the remaining samples. Toluene was detected in samples BH-19, BH-21, and BH-22.

Ethylbenzene was detected in boring BH-18. Xylenes were detected in borings BH-17, BH-19, BH-21, and BH-22. None of these detections exceeded cleanup levels.

The VOC tetrachloroethylene (PCE) was detected above cleanup levels in the ground water sample collected from monitoring well MW-2 and borings BH-20 and BH-21. The VOC cis,1,2-dichorloethylene (cis,1,2-DCE) was detected in ground water samples collected from monitoring well MW-3 and borings BH-20, BH-21, and BH-22. Trichloroethylene (TCE) was detected in samples collected from borings BH-20, BH-21, and BH-22. TCE exceeded the cleanup level in boring BH-21. Cis,1,2-DCE and TCE are degradation products of PCE. n-Propyl Benzene (a constituent of gasoline) was also detected at monitoring well MW-3. These monitoring wells and borings are located in the northeast portion of the subject property and along the north property line (Figure 5).

The VOC 1,2-dichoroethane (1,2-DCA) was detected in ground water samples BH-12, BH-17, and BH-18. The concentration was above the cleanup level in the sample collected at boring BH-18. 1,2 Dichloropropane was also detected at boring BH-18. These borings are located at the northwest property boundary and were intended to be representative of upgradient conditions (Figure5). These compound are also breakdown products of PCE.

Sources of these VOCs are likely upgradient (north and northeast) of the subject property, since chlorinated VOCs were not detected in soil samples collected at the subject property. Two dry cleaner sites with known soil and ground water releases of PCE are located north and northeast of the subject property. These sites include 1) Bothell Service Center, 18107 Bothell Way NE, and 2) Ultra Custom Care Cleaners, 18304 Bothell Way NE.

The highest concentrations of PCE and TCE in ground water were detected in BH-20, BH-21, and MW-2, in the northeast portion of the site. DCE, DCA and DCP detected in the northwestern portion of the site may indicate a separate chlorinated solvent plume, as these PCE breakdown products are typically found at the downgradient end of a PCE plume. Additional off-site explorations would be needed to more positively attribute a particular off site source to the solvent impacts detected at the subject property. Additional explorations would need to investigate 1) ground water quality at and downgradient of the suspected source sites, 2) regional ground water gradients, and 3) potential impacts of underground utilities and/or naturally occurring preferential flow pathways for contaminant migration.

Ground water samples collected from boring BH-11 and BH-15 were analyzed for total and dissolved RCRA metals. Total (unfiltered sample) metals results showed elevated concentrations of arsenic, barium, cadmium, chromium, lead, and mercury. These results were likely biased high due to sample turbidity, which is common in Geoprobe borings where ground water samples can not be collected without some entrained soil particles.

Total metals concentrations in these samples are typically artificially elevated due to leaching of metals from the soil by the nitric acid used as a sample preservative. Dissolved metals results (field filtered through a 0.45 micron filter) for the same samples showed generally lower metals concentrations (below MTCA cleanup levels), with the exception of arsenic in BH-15. The MTCA allows filtered ground water samples in cases where "*a properly constructed monitoring well cannot be sufficiently developed to provide low turbidity water samples.*"

Elevated arsenic was not detected in the corresponding soil sample. Elevated ground water arsenic concentrations in alluvial aquifers of Snohomish and King Counties have been well documented as a regional issue, and are not likely the result of activities at this site.

Analytical results for the remaining ground water samples either did not detect the selected analytes, or the analyte concentrations were below applicable cleanup limits.

5.3 SUMMARY

Ground water at the site appears to have been affected by multiple sources. The ground water impacts from historic UST releases at the property appear to be limited, and the area of petroleum hydrocarbon-impacted ground water is shown on Figure 4.

VOCs were detected in ground water samples at the northwest and northeast portions of the property (Figure 5). The VOC detection at the northeast portion of the site appear to be either from an unknown historic on-site source, or from suspected upgradient sources to the north-northeast of the subject property. The VOCs detected at the northwest corner of the site are likely sources from an off-site source to the north-northwest.

Soil and ground water in the southern portion of the site may have limited impacts from imported fill soils and organic soils.

5.4 CLEANUP LEVELS

Laboratory analytical data were compared to the MTCA Method A and/or Method B cleanup levels, as a screening level evaluation of the environmental quality of the subject property. Method A values are intended to be protective of all exposure pathways, but are only provided for a limited list of contaminants. The Method B soil values shown are for the "soil direct contact (ingestion)" pathway. Method B soil values for the "protection of ground water" pathway require site specific risk calculations, and are not provided herein. Both method A and B levels are unlikely to be used at the same site.

MTCA Method A levels are intended to provide conservative values, typically for voluntary or routine cleanups. MTCA states that the Method A values "*should not*

automatically be used to define cleanup levels that must be met for financial, real estate, insurance coverage or placement, or similar transactions or purposes. Exceedances of the values in this table do not necessarily mean the soil/water must be restored to these levels at a site".

MTCA Method B cleanup levels are the universal cleanup levels that typically employ risk-based cleanup levels, and likewise do not necessarily trigger any cleanup action. Cleanup levels for a particular site are determined after evaluating appropriate exposure pathway endpoints (e.g., drinking water, nonpotable ground water, surface water, soil, wildlife, etc.) based on site use, contaminant distribution, etc. The actual clean up *standard* is then based on the calculated cleanup levels, measured at the point of compliance.

This site does not currently meet criteria for exclusion from a terrestrial ecological evaluation (TEE), due to the presence of more than 1.5 acres contiguous undeveloped land within 500 feet of the site. Exclusion from a TEE could potentially be implemented at the site if soil contamination were covered by buildings, paved roads, pavement, or other physical barriers that will prevent plants or wildlife from being exposed. TEE ecological indicator soil concentrations for protection of terrestrial plants and animals for petroleum hydrocarbons are lower than human health-based Method A or B cleanup levels. These values are conservative, and intended to be protective in the absence of a site ecological evaluation. Performing a simplified or site specific TEE may result in higher values once pathways are established, and risk factors calculated.

6.0 REFERENCES

Booth et al., 2004, *Composite Geologic Map of the Sno-King Area, Central Puget Lowland, Washington,* Published by the Seattle-Area Geologic Mapping Project.

City of Bothell, undated, *Horse Creek Mystery Spill, Bothell Washington Draft Summary of Document/Data Review.*

ERM, *Interim Site Remediation Summary Report Bothell Service Center / Simon & Son Fine Dry Cleaning,* March 25, 2002.

Riley Group, *Draft Phase I Environmental Site Assessment, Bothell Landing Property #1*, May 29, 2007.

Washington State Department of Ecology, *Model Toxics Control Act Cleanup Regulation, Chapter 173-340 WAC*, Publication No. 94-06, February 12, 2001.

Washington State Department of Ecology, *Natural Background Soil Metals Concentrations in Washington State*, Toxics Cleanup Program, Publication No. 94-115, Charles San Juan, October 1994.

7.0 LIMITATIONS

We have prepared this report for use by City of Bothell and Perteet Engineering, Inc., in design of a portion of this project. These data and report should be provided to prospective contractors for their bidding or estimating purposes, but the conclusions and interpretations presented should not be construed as a warranty of the subsurface conditions. The conclusions expressed by HWA are based solely on material referenced in this report. Observations were made under the conditions stated. Within the limitations of scope, schedule and budget, our investigation was performed in accordance with generally accepted professional consulting principles and practices in the area at the time the report was prepared. No warranty, expressed or implied, is made. Experience has shown that subsurface soil and ground water conditions can vary significantly over small distances. It is always possible that contamination may exist in areas that were not sampled. If, during future site operations, subsurface conditions are encountered which vary appreciably from those described herein, HWA should be notified for review of the recommendations of this report, and revision of such if necessary. We are not

responsible for the impacts of any changes in environmental standards, practices or regulation subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

This firm does not practice or consult in the field of safety engineering. We do not direct the contractor's operations, and we cannot be responsible for the safety of personnel other than our own on the site; the safety of others is the responsibility of the contractor. The contractor should notify the owner if he/she considers any of the recommended actions presented herein unsafe.

We appreciate the opportunity to provide professional services on this project. Please feel free to call us if you have any questions or need more information.

Sincerely,

HWA GEOSCIENCES INC.

State of Washington
Hydrogeologist
132
Licensed Geologist

VANCE ATKINS

11/1/07

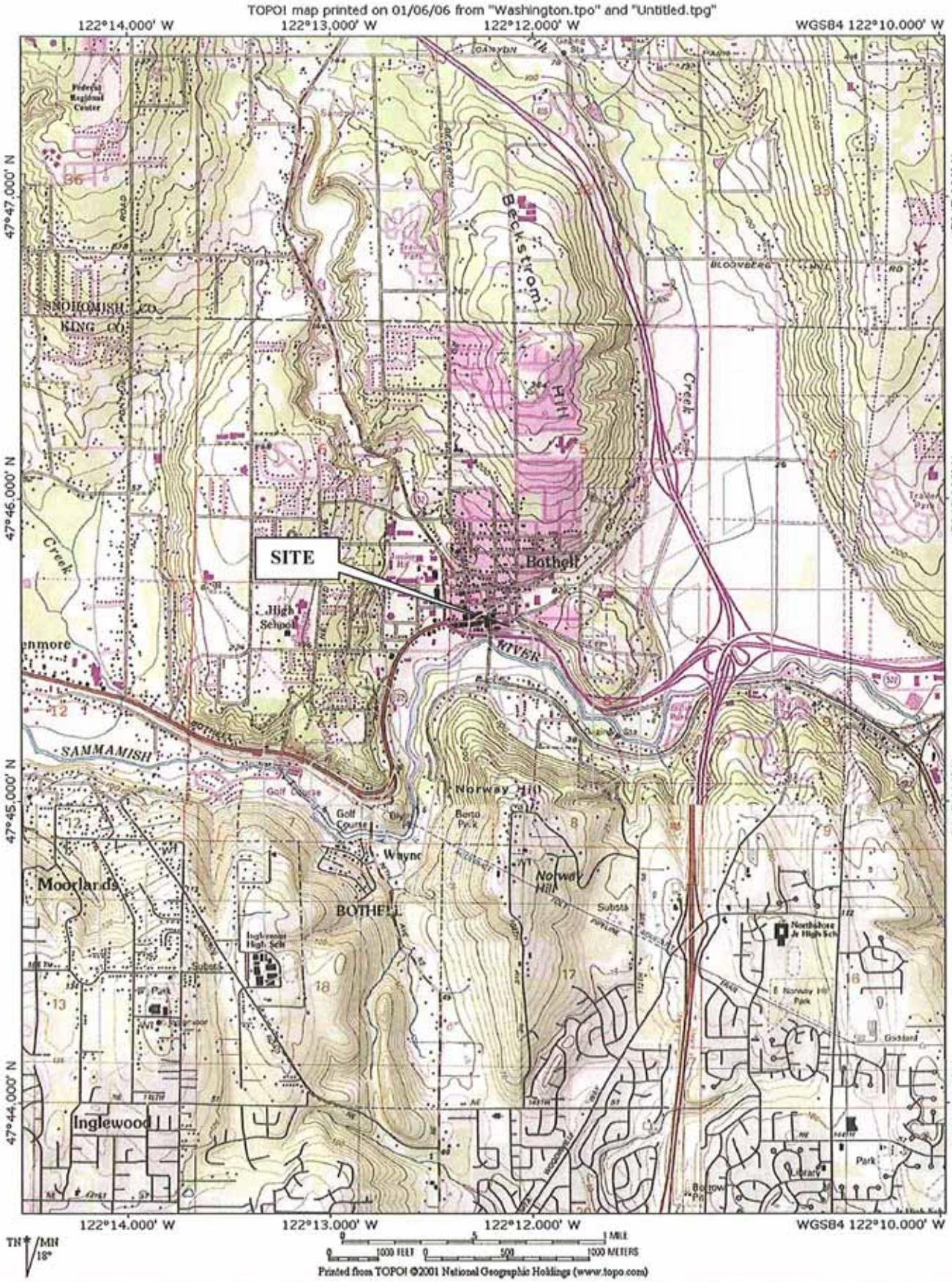
Vance Atkins, LG, LHG
Senior Hydrogeologist

State of Washington
Hydrogeologist
170
Licensed Geologist

Arnon Sugar

11-1-07

Arnie Sugar, LG, LHG
Vice President



SITE VICINITY

FIGURE NO.

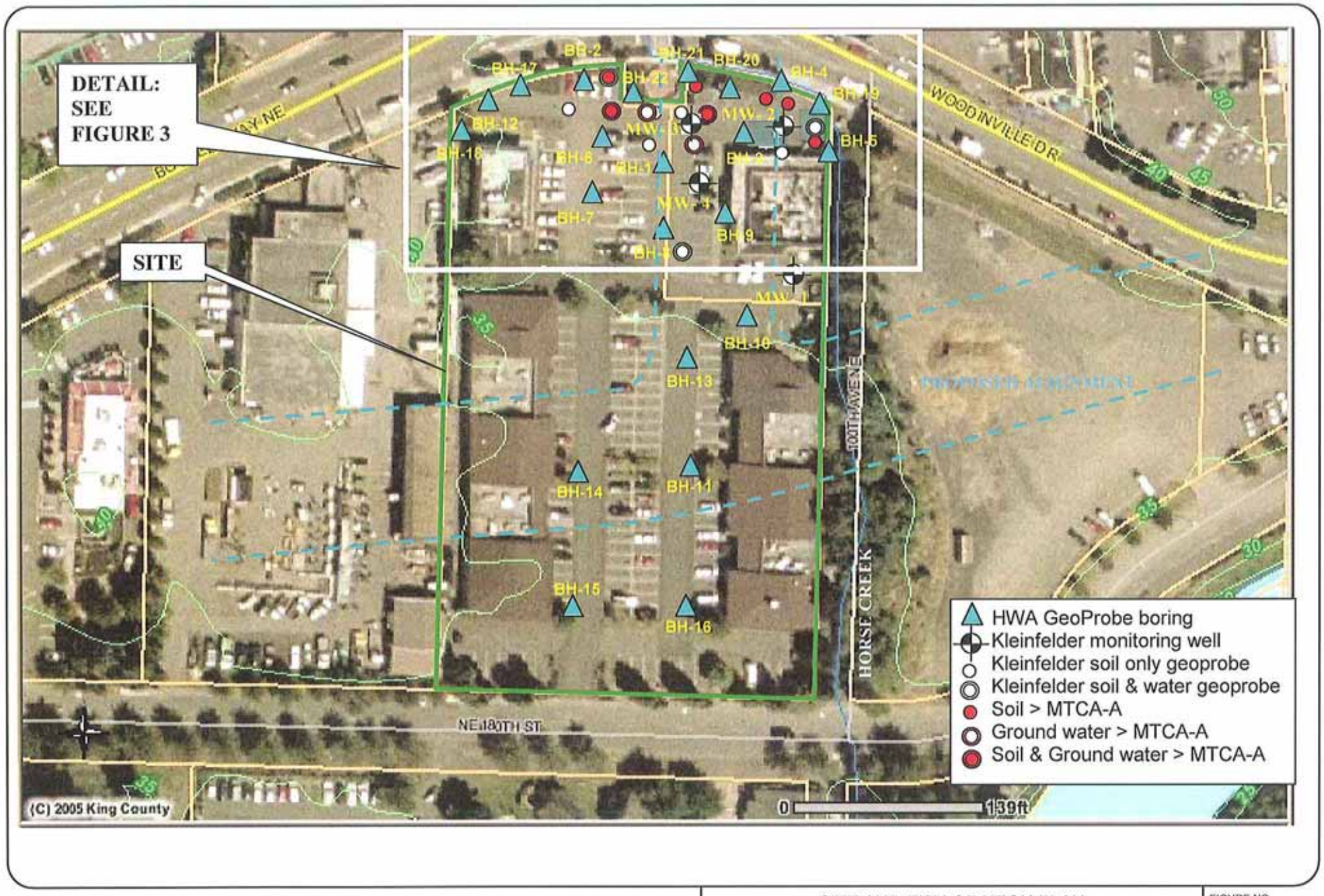
1

HWA GEOSCIENCES INC.

BETA BOTHELL LANDING PROPERTY
PHASE II ENVIRONMENTAL SITE ASSESSMENT
BOTHELL CROSSROADS PROJECT
BOTHELL, WASHINGTON

PROJECT NO.

2007-098



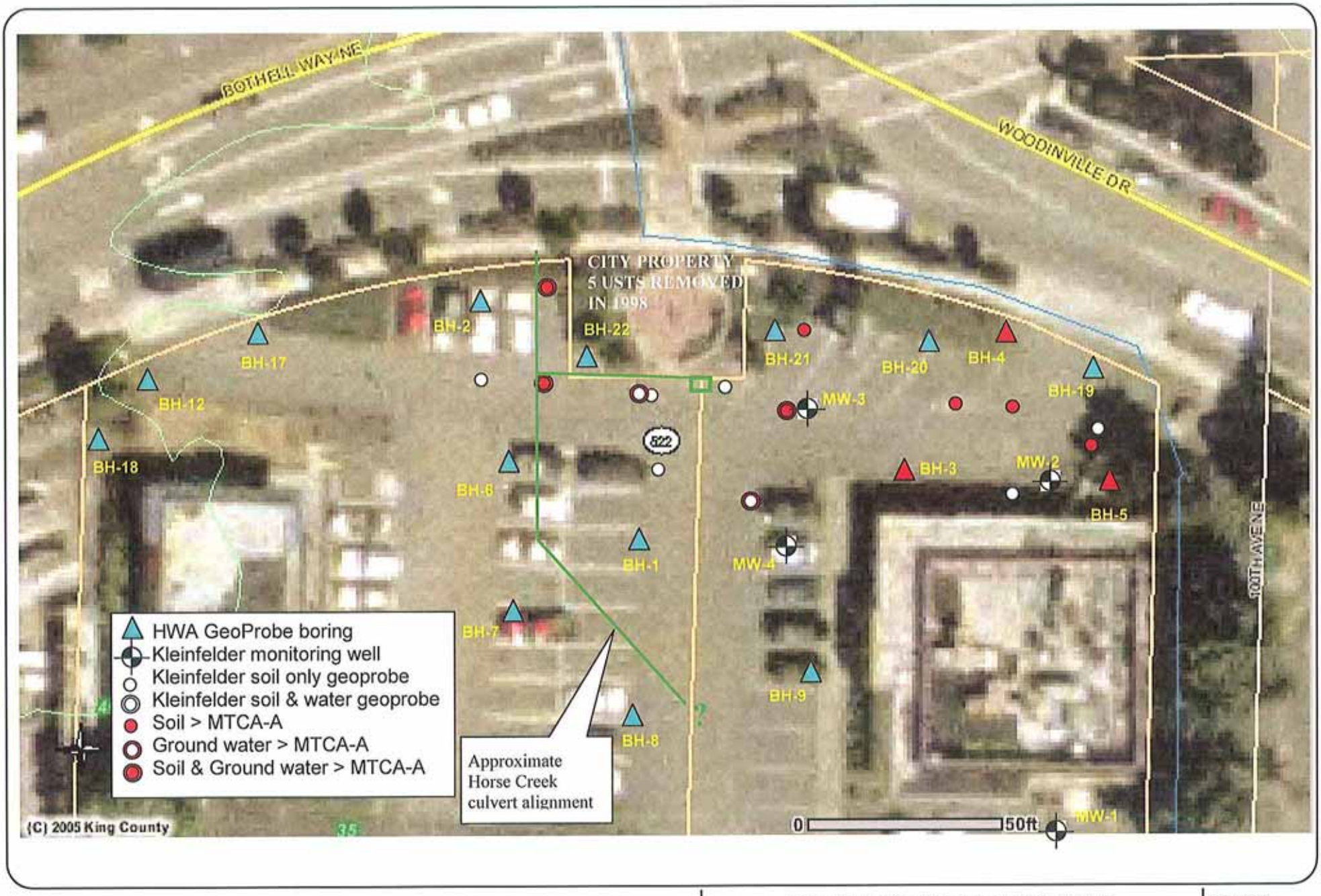
HWA GEOSCIENCES INC.

SITE AND EXPLORATION PLAN

BETA BOTHELL LANDING PROPERTY
PHASE II ENVIRONMENTAL SITE ASSESSMENT
BOTHELL CROSSROADS PROJECT
BOTHELL, WASHINGTON

FIGURE NO. 2

PROJECT NO. 2007-098



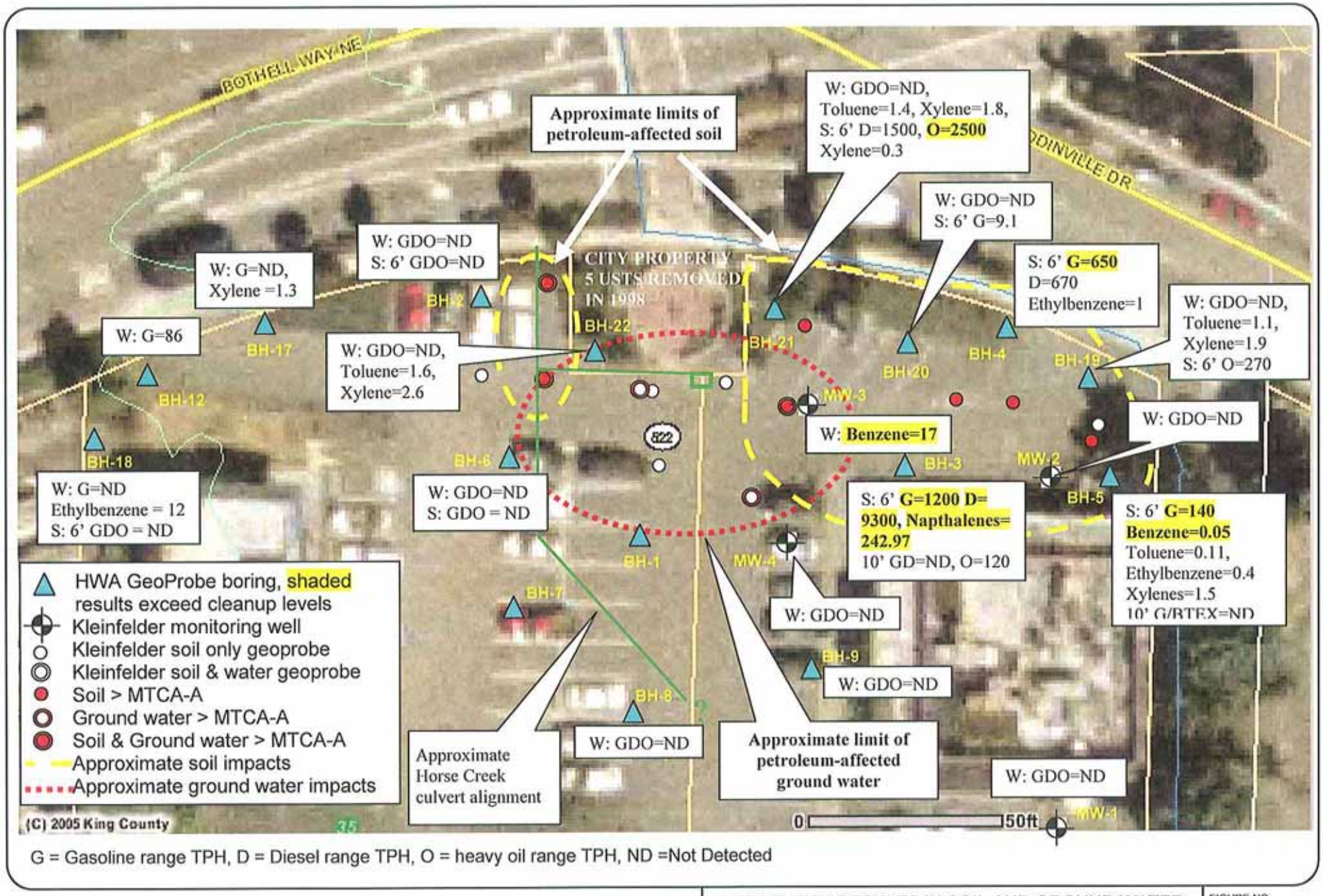
HWA GEOSCIENCES INC.

SITE AND EXPLORATION PLAN, DETAIL

BETA BOTHELL LANDING PROPERTY
PHASE II ENVIRONMENTAL SITE ASSESSMENT
BOTHELL CROSSROADS PROJECT
BOTHELL, WASHINGTON

FIGURE NO. 3

PROJECT NO. 2007-098



G = Gasoline range TPH, D = Diesel range TPH, O = heavy oil range TPH, ND =Not Detected

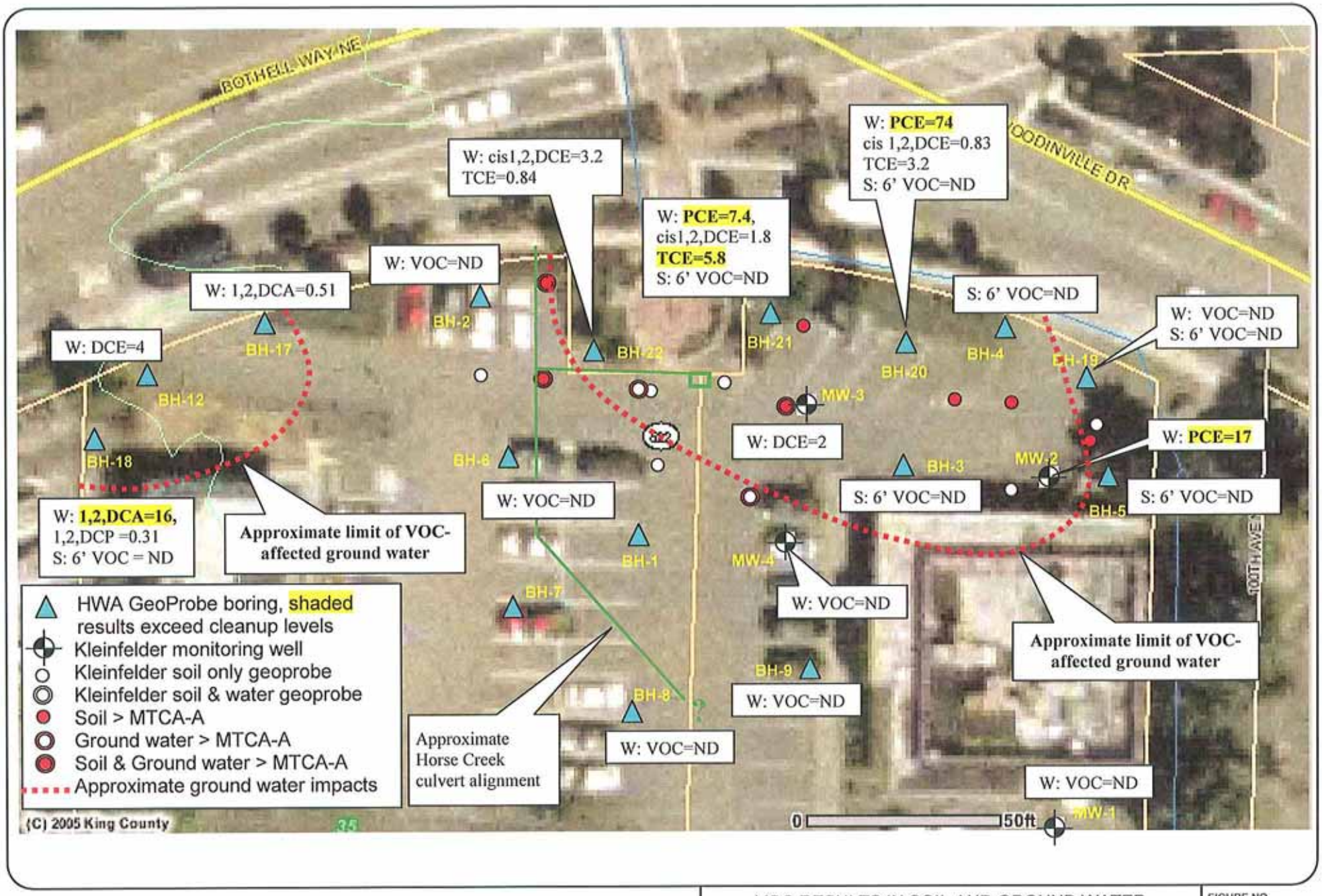
HWA GEOSCIENCES INC.

PETROLEUM RESULTS IN SOIL AND GROUND WATER

BETA BOTHELL LANDING PROPERTY
PHASE II ENVIRONMENTAL SITE ASSESSMENT
BOTHELL CROSSROADS PROJECT
BOTHELL, WASHINGTON

FIGURE NO. 4

PROJECT NO. 2007-098



HWA GEOSCIENCES INC.

VOC RESULTS IN SOIL AND GROUND WATER

BETA BOTHELL LANDING PROPERTY
PHASE II ENVIRONMENTAL SITE ASSESSMENT
BOTHELL CROSSROADS PROJECT
BOTHELL, WASHINGTON

FIGURE NO. 5

PROJECT NO. 2007-098

APPENDIX A

SAMPLING AND ANALYSIS PLAN

SOIL & GROUND WATER SAMPLING
BETA BOTHELL LANDING PROPERTY
BOTHELL, WASHINGTON
SAMPLING AND ANALYSIS PLAN

Project No. 2007-098

July 1, 2007

Prepared For

City of Bothell

HWA GEOSCIENCES INC.

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SOIL & GROUND WATER SAMPLING
BETA BOTHELL LANDING PROPERTY
BOTHELL, WASHINGTON
SAMPLING AND ANALYSIS PLAN

1.0 INTRODUCTION

This Sampling and Analysis plan provides the scope and rationale for HWA GeoSciences Inc. (HWA's) field sampling efforts associated with a site investigation conducted for the City of Bothell at the Beta Bothell Landing property in Bothell, Washington (subject property).

HWA prepared this plan in accordance with our understanding of the project, and Chapter 173-340-820 WAC in the Washington State Model Toxics Control Act (MTCA) Cleanup Regulations. The body of this plan outlines our field sampling and laboratory analytical methods.

1.1 PURPOSE AND OBJECTIVES

The purpose of this investigation is to investigate the potential presence and extent of soil and ground water impacts at the subject property.

1.2 PROJECT ORGANIZATION

Personnel involved with this project and roles are listed below:

- Arnie Sugar, HWA project manager (425) 774-0106, cell (206) 794-3130
- Vance Atkins, HWA task manager (425) 774-0106, cell (206) 794-3124
- Jeff Speck, HWA (425) 774-0106, cell (206) 794-3128
- Steven Morikawa, P.E., Capital Program Manager, City of Bothell project manager (425) 486-2768, ext. 4443
- Kathi Thompson, Pharos Corporation, property acquisition consultant, Phone (425) 921-1752
- **ALL PUBLIC OR TENANT INQUIRIES WILL BE REFERRED TO KATHI THOMPSON AT PHAROS CORP., PROPERTY ACCESS AGREEMENT IS INCLUDED IN APPENDIX A**
- Dan Hansen, P.E., Perteet project manager 425 252 7700, cell 425 345 8076
- John Musser, Geo Recon International, 206 362 9484
- David Baumeister, OnSite Environmental, Inc. (425) 883-3881 Rush all analytical – 2-5 days
- Anisa, ESN Northwest, Geoprobe subcontractor, 360 459 4670
- Sara Knebel, Knebel Co, 360-691-5910

1.3 PROJECT SCHEDULE

A proposed project schedule is shown below, assuming no delays due to site access issues:

	June	July					August				
Date	25	2	9	16	23	30	6	13	20	27	3
Week	0	1	2	3	4	5	6	7	8	9	10
City NTP	x										
Work plans	xxxxxxxxxxxxxx	.		.	.	.	.	.	.	.	.
Schedule subs	xxxxxxxxxxxxxx	.		.	.	.	.	.	.	.	.
Underground utilities		xxx	.	.	.	.	.	.	.	.	
Geoprobe			xx	.	.	.	.	.	.	.	.
Lab analysis				xxxxxxxx	.	.	.	.	.	.	.
Initial verbal results					X	.	.	.	.	.	.
Perteet contract					x	.	.	.	.	.	.
HSA drilling						xxx	.	.	.	.	.
Lab analysis							xxxxxxxx	.	.	.	.
2nd round verbals								X.	.	.	.
Report, remediation cost estimate								xxxxxxxxxxxxxxxxxxxxxx			

1.4 SITE LOCATION

The Beta Bothell Landing property (subject property) is located at 18120 and 18132 Bothell Way, and 10001 Woodinville Drive, Bothell, Washington, Parcels No. 9457200015 and 9457200020.

1.5 BACKGROUND

We understand the City of Bothell plans to purchase the subject property for rerouting of SR 522, followed by redevelopment of the remainder of the property. The Riley Group, Inc. previously completed a Phase I ESA at the subject property in May, 2007. Recognized environmental conditions identified at the subject property during the Phase I ESA included:

- Historical petroleum hydrocarbon releases to soil and ground water associated with former gas stations on or near the subject property
- Potential for abandoned underground storage tanks (USTs)
- Potential impacts from multiple off site adjacent and nearby properties with documented releases to soil and ground water
- Potential contamination associated with undocumented fill soils at the southern portion of the subject property

2.0 SAMPLING

The scope of work for the environmental assessment is summarized below:

1) Review available data
2) Prepare Sampling & Analysis Plan (SAP), and health and safety plan
3) Conduct geophysical reconnaissance to search for abandoned USTs
4) Locate underground utilities
5) Advance and sample direct push soil probes
6) Collect soil and ground water samples at selected locations and depths
7) Collect ground water samples from 4 existing monitoring wells

8) Submit samples for laboratory analysis
9) Advance and sample hollow stem auger borings
10) Install ground water monitoring wells
11) Collect soil and ground water samples at selected locations and depths
12) Prepare assessment report and remediation cost estimates
13) Assist with Ecology Remedial Action and Brownfields Assessment grant proposals

Planned site sampling is described in the following sections

2.1 GEOPHYSICAL RECONNAISSANCE

A geophysical subconsultant to HWA will conduct geophysical investigations in selected areas to search for abandoned USTs. Geophysical methods may include 1) a magnetic gradiometer, which is used to detect buried ferrous metal objects, and 2) ground penetrating radar (GPR). GPR is a geophysical method in which a high frequency electromagnetic signal is emitted into the ground during a linear traverse. Reflections of this signal are recorded and processed to yield a visual image (cross-section) of the subsurface. GPR is a useful tool for determining depth, shape and orientation of buried objects and subsurface features based on density differences.

2.2 SOIL BORINGS

All borings and wells will be drilled and installed according to Ecology Minimum Standards for Construction and Maintenance of Wells (Chapter 173-160 WAC).

2.2.1 Underground Utilities/Site Access

HWA will attempt to locate underground utilities by calling the Utilities Underground Location Center before drilling. HWA will also subcontract a private locating service (APS, Inc.) to attempt to locate and mark underground utilities at proposed boring locations. PVC and concrete utilities can not be located. HWA will not be held liable for damage to utilities or other underground structures not defined or located for HWA by the City of Bothell or the Utilities Underground Location Center.

This scope assumes HWA will have access to the site. The explorations will require access for a truck-mounted soil probe to selected paved portions of the site for two days (several hours at each location).

ALL PUBLIC OR TENANT INQUIRIES WILL BE REFERRED TO KATHI THOMPSON AT PHAROS CORP., (425) 921-1752.
PROPERTY ACCESS AGREEMENT IS INCLUDED IN APPENDIX A

2.2.2 Direct-push Soil Boring and Sampling

HWA will employ a subcontracted mobile direct-push sampling device (e.g., Geoprobe) to collect soil and ground water samples. Under subcontract to HWA, ESN Northwest (ESN) will drill soil

borings at the approximate locations shown in Figure 3. The device consists of a hydraulic/pneumatic drive assembly mounted on a pickup truck. Steel pipe (1.25-2 inch diameter) is driven into the ground using a pneumatic impact driver (air hammer), then withdrawn. Soil cores within a glycol modified polyethylene terephthalate (PETG) inner sleeve can then be retrieved from the sampler and removed for logging and sampling.

Soil cuttings and all investigation-derived waste will be disposed of off site. We anticipate completing 12 to 18 probe locations in two days. Maximum probe depth will be 20 feet, or probe refusal. We will collect continuous soil core samples. We will submit soil samples and ground water samples (if any is encountered) to a laboratory for analysis.

All field work will be supervised by an HWA geologist or engineer. HWA field staff will collect continuous soil samples. At each sampling interval, HWA will log the soil samples and obtain and record pertinent information including soil sample depths, stratigraphy, ground water occurrence, and any visual or olfactory observations regarding the presence of contamination. HWA will log the sample for lithology and field screen the samples for organic vapors by headspace analysis using a photoionization detector (PID). For each boring, samples with the highest level of organic vapors and/or most discernible visual/olfactory contamination will be shipped to the laboratory for chemical analysis. In the absence of field screening indications, the sample immediately above ground water will be submitted for analysis.

HWA will deliver samples to the laboratory within 24 hours of sampling and will employ full chain-of-custody procedures to allow tracking and handling of the samples.

2.2.3 Hollow Stem Auger Soil Boring and Sampling

HWA will retain a drilling contractor to complete additional soil borings at the site based upon the findings of the direct-push sampling. The drillers will advance the borings with a truck-mounted hollow-stem auger drilling rig, using 5- to 8-inch outside diameter continuous flight augers. They will place all soil boring cuttings in sealed, labeled drums in a selected location at the site pending analytical results. All field work will be supervised by an HWA geologist or engineer.

Maximum boring depth will be approximately 25 feet, based upon filed screening results and ground water presence and depth. HWA field staff (geologist, engineer, or sampler) will collect soil samples at 2.5 to 5 foot intervals, starting at or above five feet below grade. They will collect soil samples through the hollow stem of the auger using a standard split spoon sampler or modified split barrel sampler driven or pushed ahead of the auger bit, depending on soil conditions.

We will submit soil samples and ground water samples (if any is encountered) to a laboratory for analysis.

All field work will be supervised by an HWA geologist or engineer. HWA field staff will collect continuous soil samples. At each sampling interval, HWA will log the soil samples and obtain and

record pertinent information including soil sample depths, stratigraphy, ground water occurrence, and any visual or olfactory observations regarding the presence of contamination. HWA will log the sample for lithology and field screen the samples for organic vapors by headspace analysis using a photoionization detector (PID). For each boring, samples with the highest level of organic vapors and/or most discernible visual/olfactory contamination will be shipped to the laboratory for chemical analysis. In the absence of field screening indications, the sample immediately above ground water will be submitted for analysis.

HWA will deliver samples to the laboratory within 24 hours of sampling and will employ full chain-of-custody procedures to allow tracking and handling of the samples.

2.2.4 Ground Water Sampling – Drive Points / Soil probes

Ground water samples will be collected at selected soil probe borings by installing a temporary ¾-inch diameter PVC well screen (0.010-inch slot) in the borehole. Ground water will be collected using a peristaltic pump and Teflon-lined polyethylene tubing lowered into the screen. New Teflon-lined polyethylene tubing will be used for each ground water sample.

2.2.5 Monitoring Well Construction -Hollow Stem Auger Soil Boring

The monitoring wells will be constructed using 2-inch-diameter, schedule 40, PVC casing, with five to fifteen feet of 0.010-inch, mill slotted well screen, depending on conditions encountered. Data review indicates some sites have two distinct aquifers. Wells shall be completed such that they do not intersect both water-bearing zones through the aquitard between the aquifers. Well screens will be installed to intersect the ground water surface, as determined during drilling.

After drilling has advanced to the desired depth, casing will be installed. A bottom cap will be attached to the lowermost section of screened casing. Screened and blank casing will then be lowered into the center of the temporary drilling casing, one section at a time.

After all of the PVC casing is installed, the top section will be temporarily capped to prevent entry of stray materials. Filter pack in the form of #10-20 mesh silica sand will be introduced into the annular space surrounding the PVC casing, while slowly raising the drilling casing. Sand will be kept in the annular space at all times to ensure complete filling of the well annulus with sand, and to prevent caving or sloughing of the borehole. The sand filter pack will be extended 2-3 feet above the top of the screen. The remainder of the well annulus will be filled to within 18 inches of the surface with hydrated granular or pelletized bentonite, or a bentonite slurry.

Flush mount wellheads will be installed using steel road rated well covers with watertight gaskets. The well covers will be completed flush with existing grade. The wells will be provided with locking caps. HWA will survey the relative elevation of each wellhead.

2.2.6 Well Development

After the wells are installed, they will be developed to improve hydraulic connection and water clarity. Wells with ground water in them will be developed by surging with a surge block and pumping or bailing.

2.2.7 Borehole Abandonment

After all soil borings not converted to monitoring wells reach their maximum depth and are sampled, the holes will be grouted to the ground surface using hydrated granular or powdered bentonite. The drillers will also use concrete or asphalt to patch any boreholes installed through paved surfaces.

2.2.8 Decontamination Procedures

To prevent potential cross-contamination of samples, HWA will maintain appropriate decontamination procedures. Between sampling intervals in each boring, we will wash all sampling devices in a detergent solution, rinse with tap water and then rinse again with deionized water. Drillers will steam clean all augers, probe rods, and other downhole tooling between boring locations.

2.3 FIELD SCREENING

HWA will screen soil samples by photoionization detector (PID) headspace analysis. Although the PID is not capable of quantifying or identifying specific organic compounds, this instrument is capable of measuring relative concentrations of a variety of organic vapors. The geologist/engineer collecting samples will place approximately two ounces of soil in a resealable (i.e. ziplock) plastic bag with ample air headspace. After a minimum of five minutes at ambient temperature, the sampler will agitate the sample for ten seconds, insert the PID probe through a small opening in the plastic bag, and record the highest reading within ten seconds.

2.4 SOIL ANALYSIS

HWA will submit the soil and ground water samples to a Washington Department of Ecology-accredited analytical laboratory for analyses for one or more of the following analytes (based on preliminary data) by using the following test methods:

- Diesel and Oil-Range Hydrocarbons – Washington State Method NWTPH-Dx
- Gasoline-Range Hydrocarbons + BTEX – Washington State Method NWTPH-Gx/BTEX
- EDB/EDC/MTBE - EPA 8021/8260-SIM (if found in ground water)
- Total RCRA Metals - EPA Method #6010/#7471 (arsenic, cadmium, chromium, copper, lead, mercury, silver, and zinc)
- TCLP metals (selected samples based on total metals results)
- Volatile organic compounds (VOCs) - EPA Method #8260
- Polychlorinated biphenyls (PCBs) – EPA Method # 8082

- Polynuclear aromatic hydrocarbons (PAHs) – EPA Method # 8270 SIM

HWA will distribute the analytical testing based on visual and field screening results. Analytical testing will also be in general accordance with MTCA, Chapter 173-360 WAC, Table 830-1, Required Testing for Petroleum Releases, which is reproduced in Appendix B.

HWA will submit the samples for expedited turnaround time analysis (2-5 days). Follow-up analyses, based on initial analytical results (e.g., TCLP testing requested after total metals results) may result in a total turnaround time of up to 1.5 weeks.

Field staff will determine the number, depth and location of samples in the field, based on field screening results. The sample bottle requirements are as follows:

Bottle Type	Method	Holding Time
VOAs – see below	NWTPH-Gx EDB/EDC/MTBE VOCs	see below
8 oz. Glass	NWTPH-Dx PAHs EPA # 8270SIM PCBs # 8081 Metals #6000/7000 series	14 days

After collection, the samples will be labeled, chilled in a cooler to 4°C, and shipped to Onsite Environmental, Inc. (Onsite) for analysis.

2.4.1 Method 5035A for Collection of VOC Soil Samples

Bottle Type	Method	Holding Time
(1) tared VOA w/methanol (high level) (2) tared VOA w/stir bar (low level) (1) 4 oz. glass jar (moisture)	NWTPH-G / 5035A VOCs / 5035A EDB/EDC/MTBE	14 days 48 hrs @4°C then 14 days freeze at lab

<u>VOAs are pre-weighed (tared) at the lab</u>

- Do not add any labels, tape, etc.
- Keep the same cap with each VOA
- Minimize methanol loss: check cap tightness, minimize open times, etc.
- Weigh VOAs on day of sampling (field or office)
- Visual check for methanol loss - check all VOAs prior to sampling for consistency, reference marks when full

- Discard any suspect VOAs, note weights (w/o soil) on COC, methanol levels, etc. in field notebook

Collect Core Sample

- In place soils, surficial or excavation sidewall (<4' deep) - scrape off to fresh soils w/ clean stainless steel spoon, take core sample
- Backhoe bucket - scrape off to fresh soils w/ clean stainless steel spoon, take core sample
- Split spoon - core immediately after opening split spoon, if using liners, core from middle liner or inside end of outer liners (top one is usually slough)
- Geoprobe liner - slice open acetate liner, core immediately after opening

Soil types:

- Cohesive granular - use core
- Cemented (e.g. till) - break up with stainless steel spoon, place in VOA & cap as soon as possible
- Non cohesive (won't stay in core) - place in VOA & cap as soon as possible

Extrude core into VOA

- Wipe threads with clean tissue or dry wipe
- Cap VOA
- Label - ball point pen (e.g., write in the rain) only, no markers

Note in field notebook:

- Soil type, moisture
- Any bias e.g., gravels, organics (avoid both in core sample)
- Weather (temp, humidity, wind)
- Coring method used
- Preservation and storage method used

Note on COC:

- Empty vial weight

Health and Safety issues - Methanol is toxic and flammable

- Skin contact (use gloves), inhalation hazards (ensure adequate ventilation)
- Check shipping restrictions

Cross contamination: Methanol has a high affinity for VOCs (hence its use as a preservative and extraction solvent) and will adsorb VOCs from other sources, e.g., exhaust fumes, spray paint, sharpie, markers, etc.

2.5 GROUND WATER SAMPLING

Ground water samples will be collected from the monitoring wells after development, and from four existing monitoring wells. Ground water samples will be retrieved using a peristaltic pump. New pump tubing will be used at each location.

Monitoring wells will be purged before sample collection to obtain groundwater samples that are representative of the formation water. Wells will be purged and sampled using low-flow purging methods. Sampling staff will measure groundwater levels to the nearest 0.01-foot using a decontaminated electronic well probe prior to collection of samples. Prior to collection of groundwater samples, the wells will be purged by pumping a small volume of water to ensure sampled water represents aquifer conditions. The volume pumped will be determined in the field based on stabilization of field parameters: specific conductance, dissolved oxygen, and pH. Wells will be purged by very slowly lowering semi-rigid polyethylene tubing to a depth corresponding to roughly the midpoint of the screen, securing the tubing to prevent vertical movement, connecting it to a peristaltic pump, and then pumping at a rate not to exceed 0.5 liters/minute (0.13 gallons/minute). At a minimum, two pump and tubing volumes will be purged (1/2" I.D. tubing = 0.010 gallon/lineal foot, 0.17" I.D. tubing = 0.001 gallon/lineal foot = 5 ml/lineal foot). Samples will be collected once the parameter values have stabilized over the course of three sets of measurements as follows:

specific conductance	10 μS/cm
dissolved oxygen	2 mg/L
pH	0.1

If a well can be pumped dry prior to reaching the desired purge volume, it will be allowed to recover prior to sampling, using the minimum time between purging and sampling that would allow collection of sufficient sample volume. Samples will be pumped directly into the appropriate containers, as provided by the laboratory. A Field Data Sampling Sheet (provided in Appendix C) will be filled out for each sample. New tubing will be used at each location.

Dissolved metals samples will be filtered through a disposable 0.45-micron filter at the time of sample collection. The filters will attach directly to the discharge tube of the sampling pump. The filter must be changed between sample points, or more frequently if clogging occurs. Samples that have been field-filtered or that require laboratory filtering must be noted on the Chain-of-Custody forms in the comments section. The laboratory will note which samples require filtering on the individual bottle labels.

2.5.1 Ground water Analysis

We will submit ground water samples to the analytical laboratory for the following analyses:

- Diesel and Oil-Range Hydrocarbons – Washington State Method NWTPH-Dx
- Gasoline-Range Hydrocarbons + BTEX – Washington State Method NWTPH-Gx/BTEX
- EDB/EDC/MTBE- EPA 8021/8260-SIM (if found in ground water)
- Total and dissolved RCRA Metals * - EPA Method #6010/#7471 (arsenic, cadmium, chromium, copper, lead, mercury, silver, and zinc)

- Volatile organic compounds (VOCs) - EPA Method #8260
- Polychlorinated biphenyls (PCBs) – EPA Method # 8082
- Polynuclear aromatic hydrocarbons (PAHs) – EPA Method # 8270 SIM

* Collect both filtered (dissolved) and unfiltered (total) metals samples, submit unfiltered (total) initially. OK to decant total metals sample if turbid, by initially collecting in an unpreserved poly bottle, allowing to settle in the cooler, then decanting into the preserved bottle.

The sample bottle requirements are as follows:

Bottle Type	Analytes	PRESERVATIVE
1 liter amber glass	NWTPH-Dx	
(2) 40 ml VOA	NWTPH-Gx	HCl to pH<2
	EDB/EDC/MTBE	
500 ml poly	Total Metals (unfiltered)	HNO_3 to pH<2
500 ml poly	Dissolved metals (filtered)	HNO_3 to pH<2
1 liter poly	Decant bottle	None
(2) 40 ml VOA	VOCs	HCl to pH<2
1 liter amber glass	PCBs	
1 liter amber glass	PAHs	

After collection, the samples will be labeled, chilled in a cooler to 4°C, and shipped to OnSite for analysis. Samples will be submitted for rush laboratory turnaround time (2-5 days).

2.6 QUALITY ASSURANCE/QUALITY CONTROL

Samples will be collected and analyzed with sufficient quality assurance/quality control (QA/QC) to ensure representative and reliable results. The overall QA objective for this investigation is to ensure that all laboratory and field data on which decisions are based are technically sound, statistically valid, and properly documented. There are two parts to the QA/QC program for this project: field and laboratory.

Field QA/QC includes proper documentation of field activities and sampling/handling procedures, as described in Section 2.5. Field QA/QC samples will consist of the following:

SOIL

- None

GROUND WATER

- 1 trip blank per water sample shipment (analysis for TPH-Gas/BTEX or VOCs)
- 1 duplicate for ground water, if sample volume is sufficient

Duplicates are used to confirm analytical results from a given sample point. Duplicate samples are collected in the field using a matching set of laboratory-supplied bottles and sampling from the selected well, as requested. Each duplicate should be sampled by alternating between the regular and the duplicate sample bottles, proceeding in the designated sampling order (VOCs first). The well where the duplicate is collected must be identified on the field sampling data sheet. All duplicates shall be blind-labeled (i.e., the well designation is not listed on the sample bottle or Chain-of-Custody form). Once a duplicate is collected, it is handled and shipped in the same manner as the rest of the samples. Duplicate results will be reported in the laboratory results as separate samples, using the designation DUP-(#).

Split samples are collected when a well is sampled with a third party. Split samples should be collected using the same method as a duplicate, alternating between sample bottles, and proceeding in the designated sampling order. The well at which a split sample is collected must be identified on the field sampling data sheet. Also note the condition of the bottles or preservatives, the sample-collection method (if different from the standard), and the selected third party laboratory.

Trip blanks are used to detect contamination that may be introduced in bottle preparation, in transit to or from the sampling site, or in the field. Trip blanks are samples of volatile-organic-free, laboratory-quality water (Type II reagent grade) that are prepared at the laboratory. They remain with the sample bottles while in transit to the site, during sampling, and during the return trip to the laboratory. Trip blank sample bottles are not opened at any time during this process. Trip blanks are to be reported in the laboratory results as separate samples, using the designation TB-(#). Each sample cooler that includes bottles for VOC analysis must include a trip blank, whether it was requested or not.

Field blanks are used to detect contamination that may be introduced in the field. Field blanks will be prepared in the field by pumping laboratory reagent-quality water through new tubing and into the equipment blank bottles. The location at which the equipment blank is prepared must be identified on the field sampling data sheet. Field blank results will be reported in the laboratory results as separate samples, using the designation FB-(#).

Equipment blanks are not anticipated because dedicated or disposable sampling equipment will be used.

Laboratory QA/QC analyses provide information about accuracy, precision, and detection limits. Method-specific QA/QC samples may include the following, depending on the analysis:

- Method blanks
- Duplicates
- Instrument calibration verification standards
- Laboratory control samples
- Surrogate spiked samples
- Performance evaluation QC check samples

2.6.1 Data Evaluation

Data evaluation will include checking holding times, method blank results, surrogate recovery results, field and laboratory duplicate results, completeness, detection limits, laboratory control sample results, and Chain-of-Custody forms.

2.7 EQUIPMENT DECONTAMINATION

To prevent potential cross-contamination of samples, HWA will maintain appropriate decontamination procedures. Between sampling intervals, we will wash all non-dedicated sampling devices in a detergent solution, rinse with tap water and then rinse again with deionized water.

2.8 FIELD DOCUMENTATION AND CHAIN-OF-CUSTODY

The following sections describe the recording system for documenting all site field activities, and the sample chain-of-custody program.

2.8.1 Field Log Book

An accurate chronological recording of all field activities is vital to the documentation of any environmental investigation. To accomplish this, field team members will maintain field log books providing a daily record of significant events, observations, deviations from the sampling plan and measurements collected during the field activities.

2.8.2 Sample Identification

Following sample collection, field personnel will affix labels to each sample container. Samplers will use waterproof ink, plastic bags, or clear tape to ensure labels remain legible even when wet. Samplers will record the following information on the labels:

- Project name and number
- Sample identification number
- Date and time of collection
- Required test methods
- Name of sample collector

2.8.3 Chain-Of-Custody Record

The objective of the chain-of-custody program is to allow the tracking of possession and handling of individual samples from the time of field collection through laboratory analysis. Once a sample is collected, it becomes part of the chain-of-custody process. A sample is "in custody" when (1) it is in someone's possession, (2) it is within visual proximity of that person, (3) it is in that person's possession, but locked up and sealed (e.g., during transport), or (4) it is in a designated secure sample storage area. Sampling staff will complete a chain-of-custody record which will accompany each batch of samples. The record will contain the following information:

- Project name and number
- Names of sampling team members
- Requested testing program
- Required turnaround time
- Sample number
- Date and time collected
- Sample type
- Number of containers
- Special Instructions
- Signatures of persons involved in the chain of possession

When sample custody is transferred to another individual, the samples must be relinquished by the present custodian and received by the new custodian. This will be recorded at the bottom of the chain-of-custody report where the persons involved will sign, date and note the time of transfer.

Sampling team members will keep sample coolers in locked vehicles while not in active use or visual range. If couriers are used to transport samples, chain of custody seals will be affixed to sample coolers.

3.0 HEALTH AND SAFETY

HWA personnel conducting this field program are required to follow the health and safety protocol presented in the HWA site specific Health and Safety Plan. Subcontractors and other authorized visitors to the site are responsible for their own health and safety. The Health and Safety Plan will be made available to subcontractors and other site visitors who request it. Health and Safety precautions will be communicated to subcontractors by HWA personnel in site safety briefings at the beginning of each field day. To acknowledge review and comprehension of this plan, HWA personnel must sign the appropriate section included in the back of the document.

APPENDIX A

PROPERTY ACCESS AGREEMENT

APPENDIX B

MTCA TABLE 830-1
REQUIRED TESTING FOR PETROLEUM RELEASES

Table 830-1
Required Testing for Petroleum Releases.

	Gasoline Range Organics (GRO) (1)	Diesel Range Organics (DRO) (2)	Heavy Oils (DRO) (3)	Mineral Oils (4)	Waste Oils and Unknown Oil (5)
Volatile Petroleum Compounds					
Benzene	X (6)	X (7)			X (8)
Toluene	X (6)	X (7)			X (8)
Ethyl benzene	X (6)	X (7)			X (8)
Xylenes	X (6)	X (7)			X (8)
n-Hexane	X (9)				
Fuel Additives and Blending Compounds					
Dibromoethane, 1-2 (EDB); and Dichloroethane, 1-2 (EDC)	X (10)				X (8)
Methyl tertiary-butyl ether (MTBE)	X (11)				X (8)
Total Lead and Other Additives	X (12)				X (8)
Other Petroleum Components					
Carcinogenic PAHs		X (13)	X (13)		X (8)
Naphthalenes	X (14)	X (14)	X (14)		X (14)
Other Compounds					
Polychlorinated Biphenyls (PCBs)			X (15)	X (15)	X (8)
Halogenated Volatile Organic Compounds (VOCs)					X (8)
Other	X (16)	X (16)	X (16)	X (16)	X (16)
Total Petroleum Hydrocarbons Methods					
TPH Analytical Method for Total TPH (Method A Cleanup Levels) (17)	NWTPH-Gx	NWTPH-Dx	NWTPH-Dx	NWTPH-Dx	NWTPH-Gx & NWTPH-Dx
TPH Analytical Methods for TPH fractions (Methods B or C) (17)	VPH	EPH	EPH	EPH	VPH and EPH

[Editor's Note: See next page for the footnotes associated with Table 830-1.]

Use of Table 830-1: An "X" in the box means that the testing requirement applies to ground water and soil if a release is known or suspected to have occurred to that medium, unless otherwise specified in the footnotes. A box with no "X" indicates (except in the last two rows) that, for the type of petroleum product release indicated in the top row, analyses for the hazardous substance(s) named in the far-left column corresponding to the empty box are not typically required as part of the testing for petroleum releases. However, such analyses may be required based on other site-specific information. Note that testing for Total Petroleum Hydrocarbons (TPH) is required for every type of petroleum release, as indicated in the bottom two rows of the table. The testing method for TPH depends on the type of petroleum product released and whether Method A or Method B or C is being used to determine TPH cleanup levels. See WAC 173-340-830 for analytical procedures. **The footnotes to this table are important for understanding the specific analytical requirements for petroleum releases.**

Footnotes:

(1) The following petroleum products are common examples of GRO: automotive and aviation gasolines, mineral spirits, stoddard solvents, and naphtha. To be in this range, 90 percent of the petroleum components need to be quantifiable using the NWTPH-Gx; if NWTPH-HCID results are used for this determination, then 90 percent of the "area under the TPH curve" must be quantifiable using NWTPH-Gx. Products such as jet fuel, diesel No. 1, kerosene, and heating oil may require analysis as both GRO and DRO depending on the range of petroleum components present (range can be measured by NWTPH-HCID). (See footnote 17 on analytical methods.)

(2) The following petroleum products are common examples of DRO: Diesel No. 2, fuel oil No. 2, light oil (including some bunker oils). To be in this range, 90 percent of the petroleum components need to be quantifiable using the NWTPH-Dx quantified against a diesel standard. Products such as jet fuel, diesel No. 1, kerosene, and heating oil may require analysis as both GRO and DRO depending on the range of petroleum components present as measured in NWTPH-HCID.

(3) The following petroleum products are common examples of the heavy oil group: Motor oils, lube oils, hydraulic fluids, etc. Heavier oils may require the addition of an appropriate oil range standard for quantification.

(4) Mineral oil means non-PCB mineral oil, typically used as an insulator and coolant in electrical devices such as transformers and capacitors.

(5) The waste oil category applies to waste oil, oily wastes, and unknown petroleum products and mixtures of petroleum and nonpetroleum substances. Analysis of other chemical components (such as solvents) than those listed may be required based on site-specific information. Mixtures of identifiable petroleum products (such as gasoline and diesel, or diesel and motor oil) may be analyzed based on the presence of the individual products, and need not be treated as waste and unknown oils.

(6) When using Method A, testing soil for benzene is required. Furthermore, testing ground water for BTEX is necessary when a petroleum release to ground water is known or suspected. If the ground water is tested and toluene, ethyl benzene or xylene is in the ground water above its respective Method A cleanup level, the soil must also be tested for that chemical. When using Method B or C, testing the soil for BTEX is required and testing for BTEX in ground water is required when a release to ground water is known or suspected.

(7)(a) For DRO releases from other than home heating oil systems, follow the instructions for GRO releases in Footnote (6).

(b) For DRO releases from typical home heating oil systems (systems of 1,100 gallons or less storing heating oil for residential consumptive use on the premises where stored), testing for BTEX is not usually required for either ground water or soil. Testing of the ground water is also not usually required for these systems; however, if the ground water is tested and benzene is found in the ground water, the soil must be tested for benzene.

(8) Testing is required in a sufficient number of samples to determine whether this chemical is present at concentrations of concern. If the chemical is found to be at levels below the applicable cleanup level, then no further analysis is required.

(9) Testing for n-hexane is required when VPH analysis is performed for Method B or C. In this case, the concentration of n-hexane should be deleted from its respective fraction to avoid double-counting its concentration. n-Hexane's contribution to overall toxicity is then evaluated using its own reference dose.

(10) Volatile fuel additives (such as dibromoethane, 1-2 (EDB) (CAS# 106-93-4) and dichloroethane, 1-2 (EDC) (CAS# 107-06-2)) must be part of a volatile organics analysis (VOA) of GRO contaminated ground water. If any is found in ground water, then the contaminated soil must also be tested for these chemicals.

(11) Methyl tertiary-butyl ether (MTBE) (CAS# 1634-04-4) must be analyzed in GRO contaminated ground water. If any is found in ground water, then the contaminated soil must also be tested for MTBE.

(12)(a) For automotive gasoline where the release occurred prior to 1996 (when "leaded gasoline" was used), testing for lead is required unless it can be demonstrated that lead was not part of the release. If this demonstration cannot be made, testing is required in a sufficient number of samples to determine whether lead is present at concentrations of concern. Other additives and blending compounds of potential environmental significance may need to be considered for testing, including: tertiary-butyl alcohol (TBA); tertiary-amyl methyl ether (TAME); ethyl tertiary-butyl ether (ETBE); ethanol: and methanol. Contact the department for additional testing recommendations regarding these and other additives and blending compounds.

(b) For aviation gasoline, racing fuels and similar products, testing is required for likely fuel additives (especially lead) and likely blending compounds, no matter when the release occurred.

(13) Testing for carcinogenic PAHs is required for DRO and heavy oils, except for the following products for which adequate information exists to indicate their absence: Diesel No. 1 and 2, home heating oil, kerosene, jet fuels, and electrical insulating mineral oils. The carcinogenic PAHs include benzo(a)pyrene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, benzo(k)fluoranthene, benzo(a)anthracene, and benzo(b)fluoranthene.

(14)(a) Except as noted in (b) and (c), testing for the non-carcinogenic PAHs, including the "naphthalenes" (naphthalene, 1-methylnaphthalene, and 2-methyl-naphthalene) is not required when using Method A cleanup levels, because they are included in the TPH cleanup level.

(b) Testing of soil for naphthalenes is required under Methods B and C when the inhalation exposure pathway is evaluated.

(c) If naphthalenes are found in ground water, then the soil must also be tested for naphthalenes.

(15) Testing for PCBs is required unless it can be demonstrated that: (1) the release originated from an electrical device manufactured for use in the United States after July 1, 1979; (2) oil containing PCBs was never used in the equipment suspected as the source of the release (examples of equipment where PCBs are likely to be found include transformers, electric motors, hydraulic systems, heat transfer systems, electromagnets, compressors, capacitors, switches and miscellaneous other electrical devices); or, (3) the oil released was recently tested and did not contain PCBs.

(16) Testing for other possible chemical contaminants may be required based on site-specific information.

(17) The analytical methods NWTPH-Gx, NWTPH-Dx, NWTPH-HCID, VPH, and EPH are methods published by the Department of Ecology and available on the department's Internet web site: http://www.ecy.wa.gov/programs/tcp/cleanup.html.

APPENDIX C

CHAIN OF CUSTODY FORM
FIELD SAMPLING DATA SHEET

HWA GEOSCIENCES INC.
19730 64th Ave. W., Suite 200, Lynnwood, WA 98036 (425)774-0106
4500 Kruse Way, Suite 300, Lake Oswego, OR 97035 (503)675-2424

Chain of Custody and Laboratory Analysis Request

DATE: _____

PAGE: _____ of _____

PROJECT NAME: _____ #: _____

SITE CODE: _____

SAMPLERS NAME: _____ PHONE: _____

SAMPLERS SIGNATURE: _____

HWA CONTACT: _____ PHONE: _____

ANALYSIS REQUESTED

HWA SAMPLE ID	DATE	TIME	MATRIX	LAB ID	# OF BOTTLE														REMARKS

PRINT NAME	SIGNATURE	COMPANY	DATE	TIME	REMARKS
Relinquished by:					
Received by:					
Relinquished by:					
Received by:					

DISTRIBUTION: WHITE - Return to HWA; YELLOW - Retain by Lab; PINK - Retain by Sampler

HWA GEOSCIENCES INC.
19730 64th Avenue West, Suite 200 Lynnwood, WA 98036
Tel: 425-774-0106 / Fax: 425-774-2714 / E-Mail: hwa@hongwest.com

FIELD SAMPLING DATA SHEET

Project Name: _____
Project Number: _____
Project Location: _____
Client/Contact: _____

Well Number: _____
Sample Number: _____
Weather: _____
Date: _____

WELL MONITORING:

Time	Well Depth	Depth to Water	Measuring Point (TOC?)	Measuring Point Elevation	Water Level Elevation	Gallons in Well (Pore Volume)

(2" case = 0.163 gal/ft)
(4" case = 0.653 gal/ft)

WELL PURGING:

Time	Method	Gallons	Pore Volumes	pH	Conductivity	Temperature		

WELL SAMPLING:

Time	Sampling Method	Sample Analysis	Container Number	Container Volume	Container Type	Field Filtered (Y/N)	Preservative	Iced (Y/N)

COMMENTS/NOTES: (Include equipment used: Bailers, Filters, Well Probe, pH/Conductivity Meter, etc.)

Total # of Bottles: _____ Sampler: _____ Signature: _____

APPENDIX B

BORING LOGS

RELATIVE DENSITY OR CONSISTENCY VERSUS SPT N-VALUE

COHESIONLESS SOILS			COHESIVE SOILS		
Density	N (blows/ft)	Approximate Relative Density(%)	Consistency	N (blows/ft)	Approximate Undrained Shear Strength (psf)
Very Loose	0 to 4	0 - 15	Very Soft	0 to 2	<250
Loose	4 to 10	15 - 35	Soft	2 to 4	250 - 500
Medium Dense	10 to 30	35 - 65	Medium Stiff	4 to 8	500 - 1000
Dense	30 to 50	65 - 85	Stiff	8 to 15	1000 - 2000
Very Dense	over 50	85 - 100	Very Stiff	15 to 30	2000 - 4000
			Hard	over 30	>4000

USCS SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS			GROUP DESCRIPTIONS	
Coarse Grained Soils	Gravel and Gravelly Soils	Clean Gravel (little or no fines)	GW	Well-graded GRAVEL
			GP	Poorly-graded GRAVEL
	More than 50% of Coarse Fraction Retained on No. 4 Sieve	Gravel with Fines (appreciable amount of fines)	GM	Silty GRAVEL
			GC	Clayey GRAVEL
	Sand and Sandy Soils	Clean Sand (little or no fines)	SW	Well-graded SAND
More than 50% Retained on No. 200 Sieve Size			SP	Poorly-graded SAND
	50% or More of Coarse Fraction Passing No. 4 Sieve	Sand with Fines (appreciable amount of fines)	SM	Silty SAND
			SC	Clayey SAND
Fine Grained Soils	Silt and Clay	Liquid Limit Less than 50%	ML	SILT
			CL	Lean CLAY
			OL	Organic SILT/Organic CLAY
50% or More Passing No. 200 Sieve Size	Silt and Clay	Liquid Limit 50% or More	MH	Elastic SILT
			CH	Fat CLAY
			OH	Organic SILT/Organic CLAY
Highly Organic Soils			PT	PEAT

TEST SYMBOLS

%F	Percent Fines
AL	Atterberg Limits: PL = Plastic Limit, LL = Liquid Limit
CBR	California Bearing Ratio
CN	Consolidation
DD	Dry Density (pcf)
DS	Direct Shear
GS	Grain Size Distribution
K	Permeability
MD	Moisture/Density Relationship (Proctor)
MR	Resilient Modulus
PID	Photoionization Device Reading
PP	Pocket Penetrometer Approx. Compressive Strength (tsf)
SG	Specific Gravity
TC	Triaxial Compression
TV	Torvane Approx. Shear Strength (tsf)
UC	Unconfined Compression

SAMPLE TYPE SYMBOLS

- 2.0" OD Split Spoon (SPT) (140 lb. hammer with 30 in. drop)
- Shelby Tube
- 3-1/4" OD Split Spoon with Brass Rings
- Small Bag Sample
- Large Bag (Bulk) Sample
- Core Run
- Non-standard Penetration Test (3.0" OD split spoon)

GROUNDWATER SYMBOLS

- Groundwater Level (measured at time of drilling)
- Groundwater Level (measured in well or open hole after water level stabilized)

COMPONENT DEFINITIONS

COMPONENT	SIZE RANGE
Boulders	Larger than 12 in
Cobbles	3 in to 12 in
Gravel	3 in to No 4 (4.5mm)
Coarse gravel	3 in to 3/4 in
Fine gravel	3/4 in to No 4 (4.5mm)
Sand	No. 4 (4.5 mm) to No. 200 (0.074 mm)
Coarse sand	No. 4 (4.5 mm) to No. 10 (2.0 mm)
Medium sand	No. 10 (2.0 mm) to No. 40 (0.42 mm)
Fine sand	No. 40 (0.42 mm) to No. 200 (0.074 mm)
Silt and Clay	Smaller than No. 200 (0.074mm)

COMPONENT PROPORTIONS

PROPORTION RANGE	DESCRIPTIVE TERMS
< 5%	Clean
5 - 12%	Slightly (Clayey, Silty, Sandy)
12 - 30%	Clayey, Silty, Sandy, Gravelly
30 - 50%	Very (Clayey, Silty, Sandy, Gravelly)
Components are arranged in order of increasing quantities.	

NOTES: Soil classifications presented on exploration logs are based on visual and laboratory observation. Soil descriptions are presented in the following general order:

Density/consistency, color, modifier (if any) GROUP NAME, additions to group name (if any), moisture content. Proportion, gradation, and angularity of constituents, additional comments. (GEOLOGIC INTERPRETATION)

Please refer to the discussion in the report text as well as the exploration logs for a more complete description of subsurface conditions.

MOISTURE CONTENT

DRY	Absence of moisture, dusty, dry to the touch.
MOIST	Damp but no visible water.
WET	Visible free water, usually soil is below water table.

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Beta Bothell Landing
Bothell, Washington

LEGEND OF TERMS AND SYMBOLS USED ON EXPLORATION LOGS

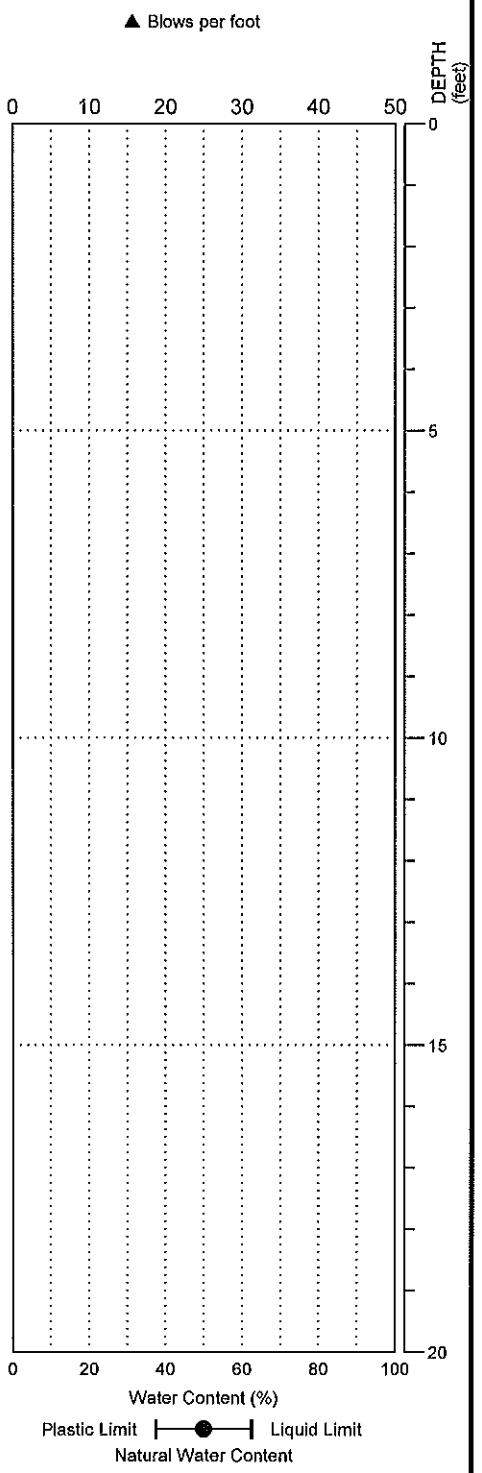
PROJECT NO.: 2007-098-22 FIGURE: B-1

DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 7/10/2007
DATE COMPLETED: 7/10/2007
LOGGED BY: V. Atkins

DEPTH (feet)	SYMBOL	USCS SOIL CLASS	DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	PEN. RESISTANCE (blows/6 inches)	PID (ppm)	GROUNDWATER
0			Asphalt					
		SM	Brown grading gray silty SAND with gravel, gravel to 1", dry grading moist (FILL).		2		0.1	
5		SM	Gray silty SAND and GRAVEL, moist grading wet (ALLUVIUM).		6		0.1	▽
10		OL	Dark brown SILT and PEAT with wood fragments and occasional gray sand lenses, wet.		10		0.1	
		SP	Dark gray medium to coarse SAND with wood fragments, some silt, wet.		12		0.1	
15		SM	Gray fine silty SAND and SILT, wet.					
20			Boring completed to 16 feet bgs. Ground water encontered at 7 feet bgs.					



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-1

PROJECT NO.: 2007-098-22 FIGURE: B-2

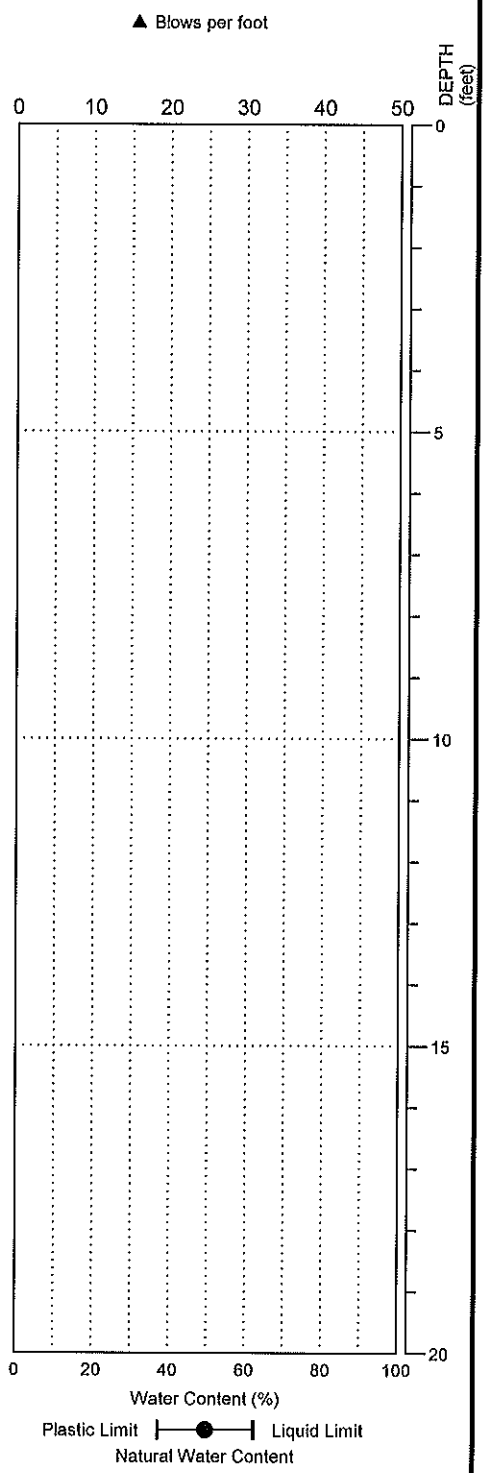
DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 7/9/2007
DATE COMPLETED: 7/9/2007
LOGGED BY: V. Atkins

DEPTH (feet)	SYMBOL	USCS SOIL CLASS	DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	PEN. RESISTANCE (blows/6 inches)	PID (ppm)	GROUNDWATER
0			ASPHALT					
		SM	Brown silty SAND with gravel, medium dense, dry grading moist. (FILL)		2		0.3	
5		SM	Red-brown silty SAND with gravel, medium dense, moist grading wet (ALLUVIUM).		6		2.0	▽
10		OL	Grading dark brown organic SILT with gray medium sand interbedding, moist to wet. Wood fragments		10		0.1	
		SM	Gray grading red-orange silty SAND with silt and clay layers, wet.		14		0.1	
15								
20								

Boring completed to 16 feet bgs.
Ground water encountered at 6.5 feet bgs.
Set temporary screen and collected ground water sample BH-2-W.



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HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-2

PAGE: 1 of 1

PROJECT NO.: 2007-098-22 FIGURE: B-3

BORINGE 2007098.GPJ 11/5/07

DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

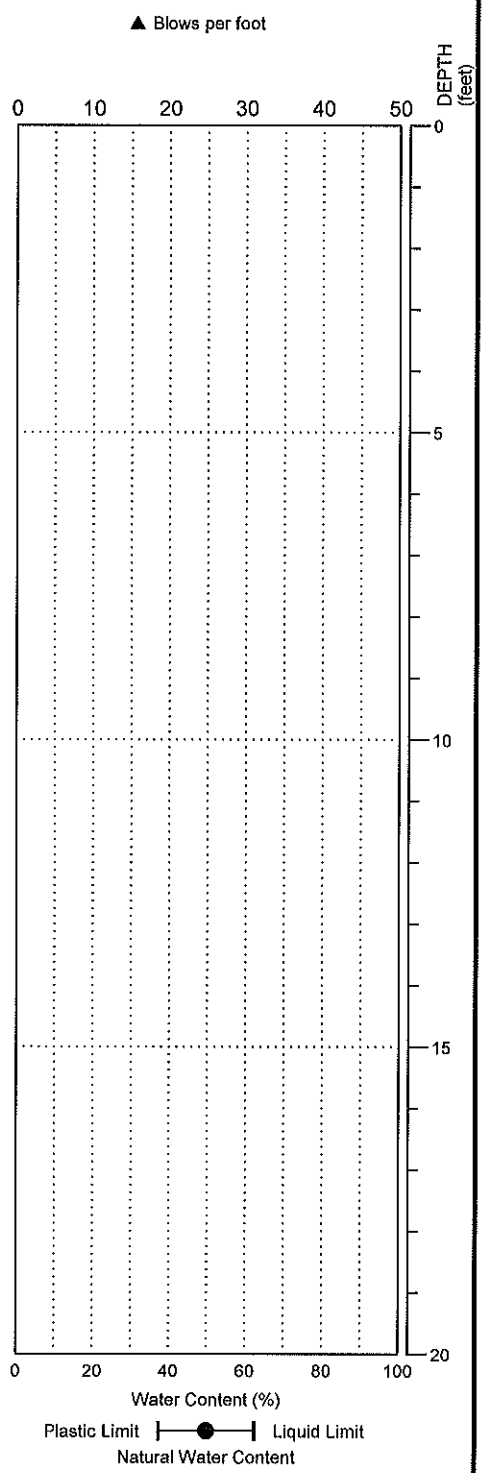
DATE STARTED: 7/9/2007
DATE COMPLETED: 7/9/2007
LOGGED BY: V. Atkins

DEPTH (feet)	USCS SOIL CLASS	DESCRIPTION	SAMPLE NUMBER	PID (ppm)
0		ASPHALT		
	SM	Brown silty SAND with angular gravel, dry. (FILL) Grading gray, moist, slight hydrocarbon odor.	2	29
	SP	Gray grading brown fine to medium SAND, occasional gravel, strong hydrocarbon odor (ALLUVIUM).		
5		Grading wet. No apparent sheen.	6	130
		As above, trace gravel, no odor.		
10	OL	Dark brown organic SILT with wood fragments.	10	0.4
	SP	Dark brown SAND with silt, trace fine gravel.		
	ML	Gray-green SILT with clay, trace fine sand, occasional wood fragments, stiff, moist, low plasticity.		
		Grading brown, with organics, peat	14	0.1
15	SP	Gray medium SAND, wet.		
		As above, grading coarse, with occasional gravel.	18	0.1
20				

SAMPLE TYPE

PEN. RESISTANCE (blows/6 inches)

GROUNDWATER



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HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-3

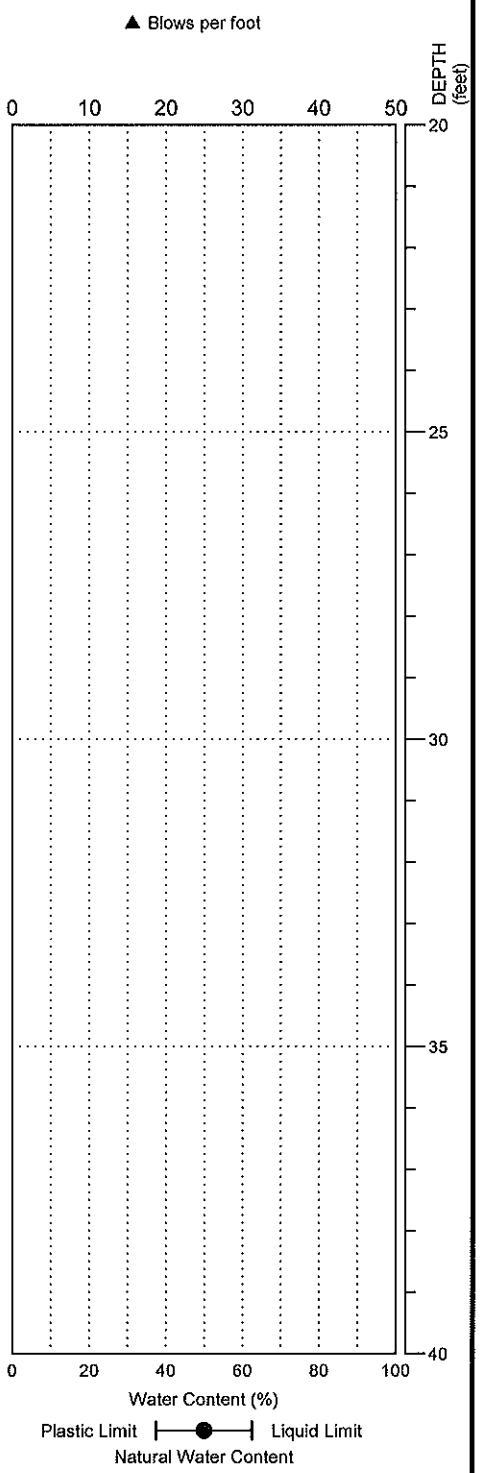
PROJECT NO.: 2007-098-22 FIGURE: B-4

DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 7/9/2007
DATE COMPLETED: 7/9/2007
LOGGED BY: V. Atkins

DEPTH (feet)	SYMBOL	USCS SOIL CLASS	DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	PEN. RESISTANCE (blows/6 inches)	PID (ppm)	GROUNDWATER
20			Boring completed to 20 feet bgs. Ground water encountered at 6.5 feet bgs.					
25								
30								
35								
40								



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HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-3

PROJECT NO.: 2007-098-22 FIGURE: B-4

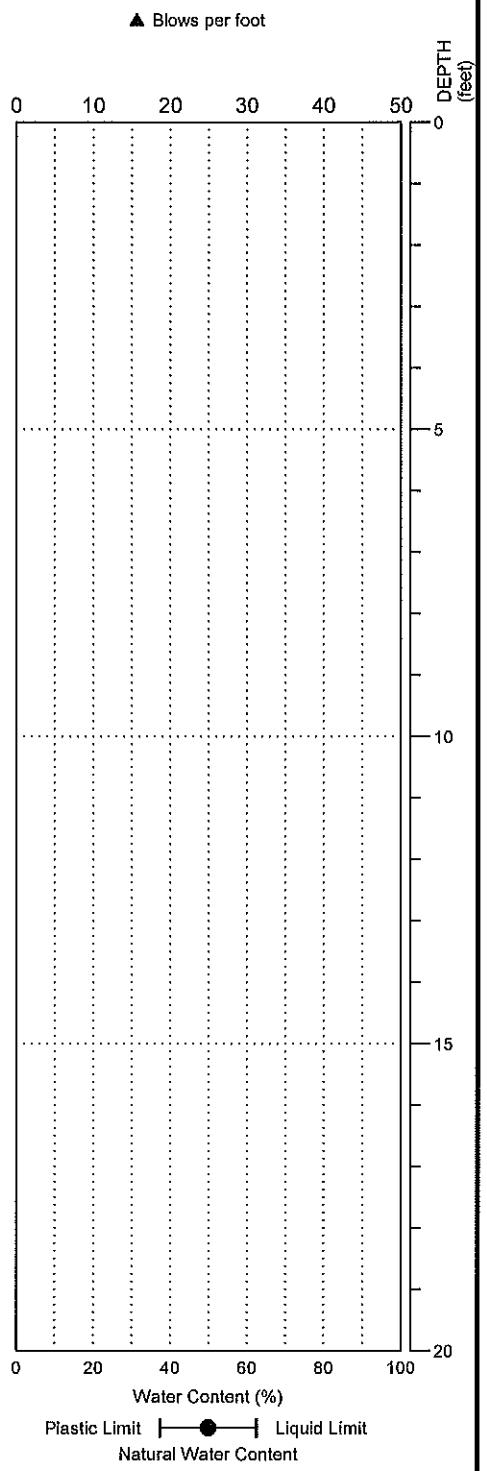
DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 7/9/2007
DATE COMPLETED: 7/9/2007
LOGGED BY: V. Atkins

DEPTH (feet)	SYMBOL	USCS SOIL CLASS	DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	PEN. RESISTANCE (blows/6 inches)	PID (ppm)	GROUNDWATER
0			ASPHALT					
		SM	Brown grading gray silty SAND with gravel, dry. (FILL)					
		SP	Gray silty SAND, decreasing gravel, occasional wood fragments, moist (ALLUVIUM). Slight hydrocarbon odor.		2		3.0	
5			Gray to brown medium SAND with occasional gravel, wood fragments, moist, slight hydrocarbon odor. Grading wet, no sheen.		6		40	▽
		OL	Dark brown organic SILT/PEAT, moist.					
		SM	Grading brown silty medium SAND with silt layers, wet, no hydrocarbon odor.		10		0.4	
		CL	Gray-brown silty CLAY with oxidation/mottling, moist.					
		SM	Red-brown medium silty SAND with oxidation, wet. Grading gray fine silty SAND, wet.		12		0.1	
15								
20								

Boring competed to 16 feet bgs.
Ground water encountered at 7 feet bgs.



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HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-4

PAGE: 1 of 1

PROJECT NO.: 2007-098-22 FIGURE: B-5

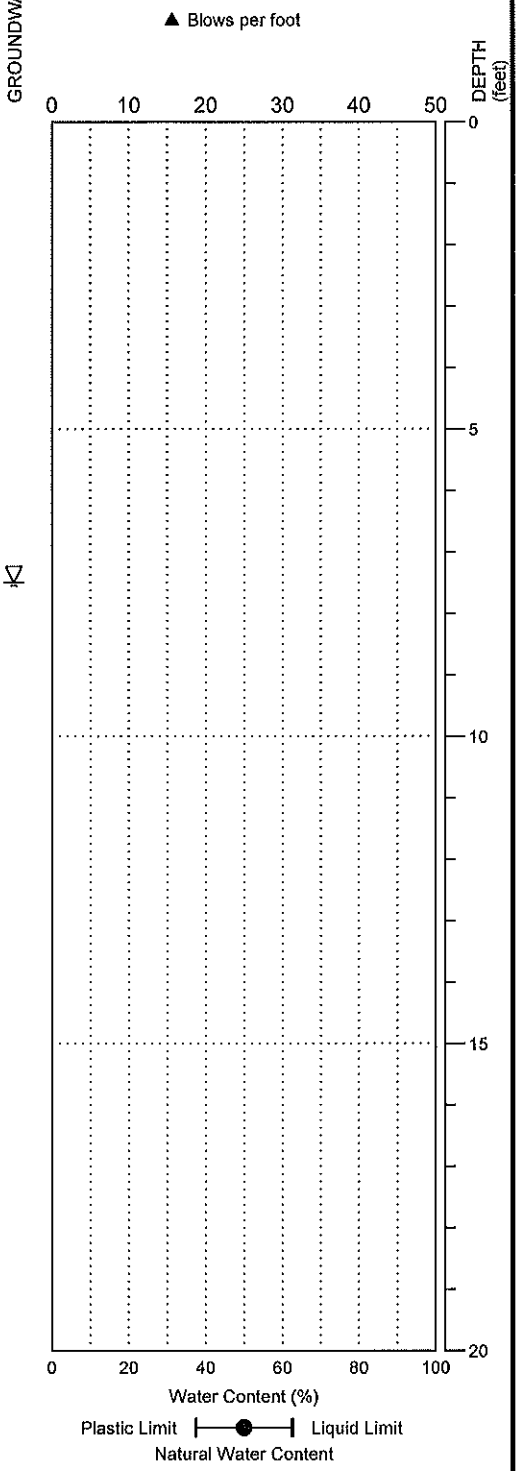
DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 7/9/2007
DATE COMPLETED: 7/9/2007
LOGGED BY: V. Atkins

DEPTH (feet)	USCS SOIL CLASS	DESCRIPTION	SAMPLE NUMBER	PEN. RESISTANCE (blows/6 inches)	PID (ppm)
0	SM	Brown silty SAND with angular gravel, loose, dry. (FILL)			
		Grading gray silty SAND, medium dense, moist.	2		4.6
		Hydrocarbon odor.			
5	SM	Brown to dark brown silty fine SAND wth wood fragments, slight organic odor (ALLUVIUM).	6		22
		Grading gray.			
		Grading wet, medium densee, wet, no odor.			
10	OL	Dark brown organic SILT/PEAT, stiff, low to medium plasticity.	10		0.1
	SP	Gray-green medium SAND, slightly silty, wet.			
		Grading dark brown medium SAND.	14		0.1
		Gravelly lens.			
15	ML	Gray-brown SILT with orange mottling, stiff, moist.			
20					

Boring completed to 16 feet bgs.
Ground water encountered at 7.5 feet bgs.



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HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-5

PROJECT NO.: 2007-098-22 FIGURE: B-6

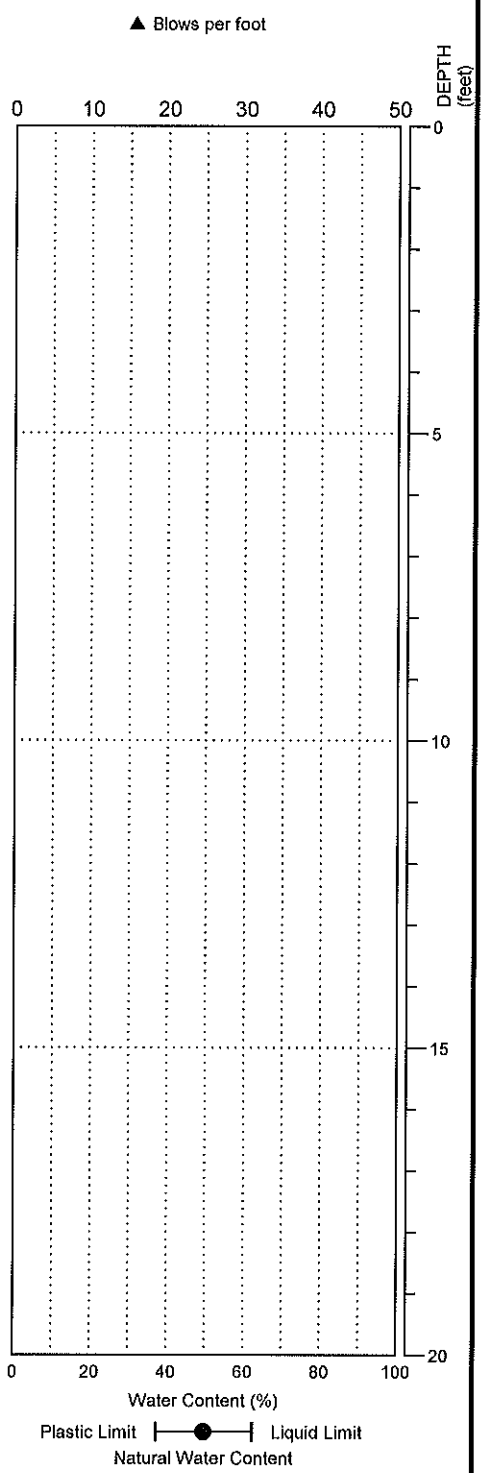
DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 7/10/2007
DATE COMPLETED: 7/10/2007
LOGGED BY: V. Atkins

DEPTH (feet)	USCS SOIL CLASS	DESCRIPTION	SAMPLE NUMBER	PID (ppm)
0		ASPHALT		
	SM	Brown grading gray silty SAND and GRAVEL, trace wood fragments, gravel to 3/4", dry grading moist (FILL).	2	NA
5	SM	Brown to gray silty SAND, with wood fragments and peat, wet. (ALLUVIUM)	6	NA
10	ML	Brown SILT and fine SAND, stiff, wet.	10	NA
	SM	Brown silty SAND with coase sand lenses wet.		
		As above, with interbedded silt, peat, and fine sand lenses.	14	NA
15	CL ML	Gray-green SILT and CLAY, stiff, moist.		
	SP	Gray fine to medium SAND with silt, wet.	18	NA
20		Grading brown.		

GROUNDWATER



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HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-6

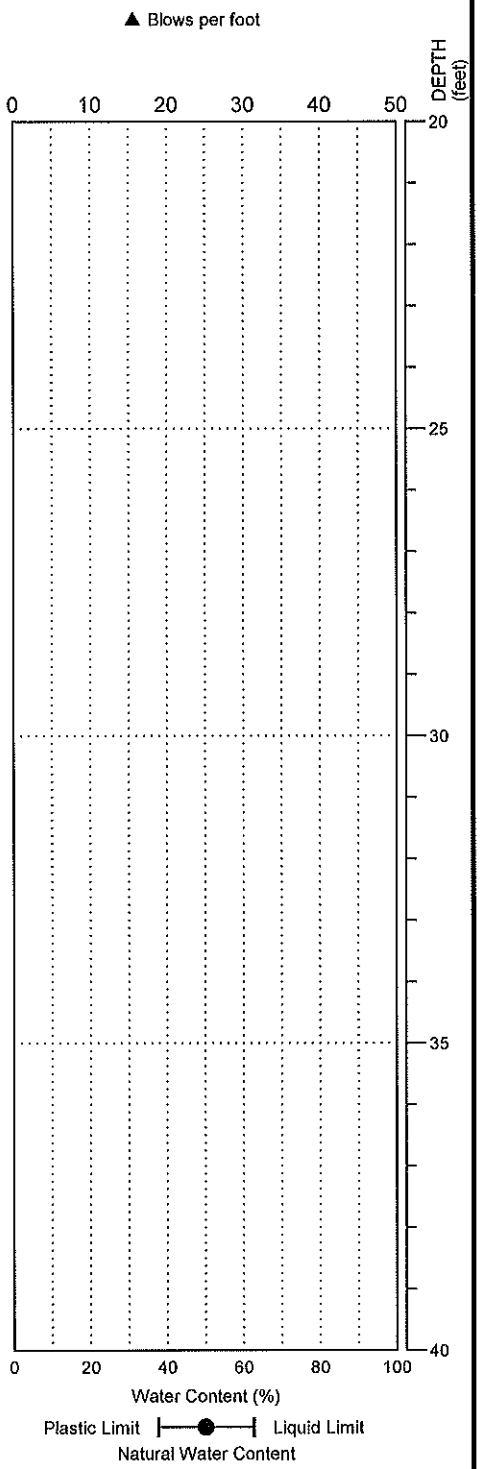
PROJECT NO.: 2007-098-22 FIGURE: B-7

DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 7/10/2007
DATE COMPLETED: 7/10/2007
LOGGED BY: V. Atkins

DEPTH (feet)	SYMBOL	USCS SOIL CLASS	DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	PEN. RESISTANCE (blows/6 inches)	PID (ppm)	GROUNDWATER
20			Boring completed to 20 feet bgs. Ground water encounted at 7 feet bgs. Set temporary screen and collected ground water sample BH-6-W and duplicate sample BH-DUP-W.					
25								
30								
35								
40								



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HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-6

PROJECT NO.: 2007-098-22 FIGURE: B-7

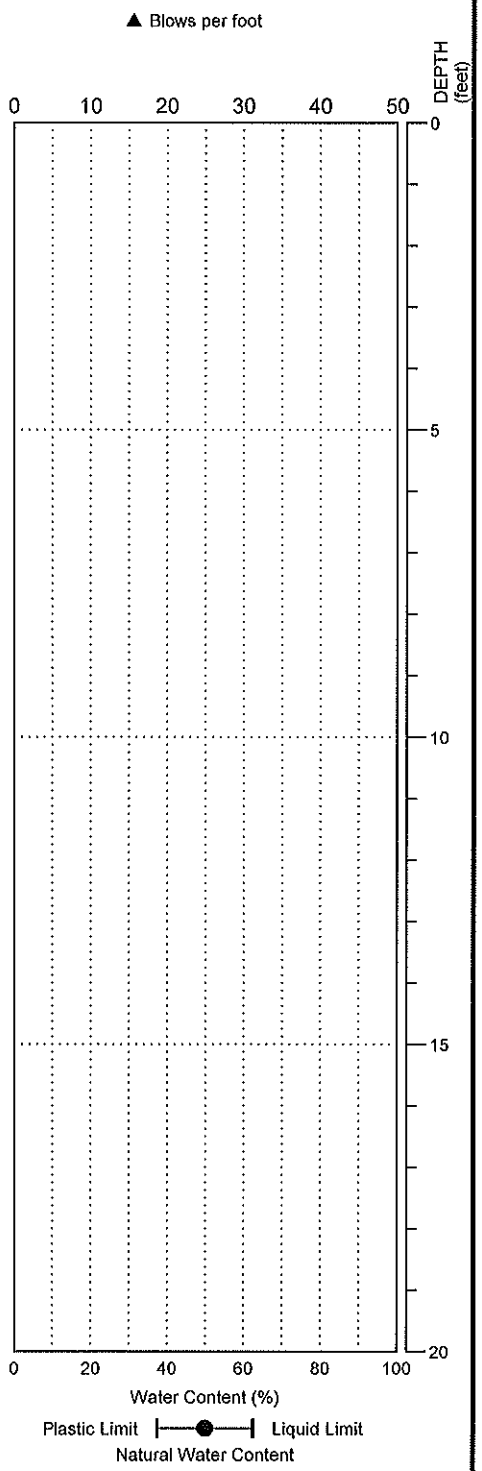
DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 7/10/2007
DATE COMPLETED: 7/10/2007
LOGGED BY: V. Atkins

DEPTH (feet)	SYMBOL	USCS SOIL CLASS	DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	PEN. RESISTANCE (blows/6 inches)	PID (ppm)	GROUNDWATER
0			ASPHALT					
		SM	Gray-brown silty SAND with gravel, dry grading moist. (FILL)		2		0.1	
		SP	Grading red-brown SAND, decreasing silt. (ALLUVIUM)					
5			Red-brown fine to medium SAND, slightly silty, moist grading wet.		6		0.1	▽
		SM	Brown silty SAND, wet.		10		0.1	
		SP	Coarse SAND and fine gravel lens with wood fragments, wet.					
		ML	Brown grading gray SILT with sand lenses, moist.		14		0.1	
15			Grading gray SILT and CLAY, stiff, medium plasticity.					
20								

Boring completed to 16 feet bgs.
Ground water encountered at 7 feet bgs.



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HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-7

PAGE: 1 of 1

PROJECT NO.: 2007-098-22 FIGURE: B-8

BORINGE 2007098.GPJ 11/5/07

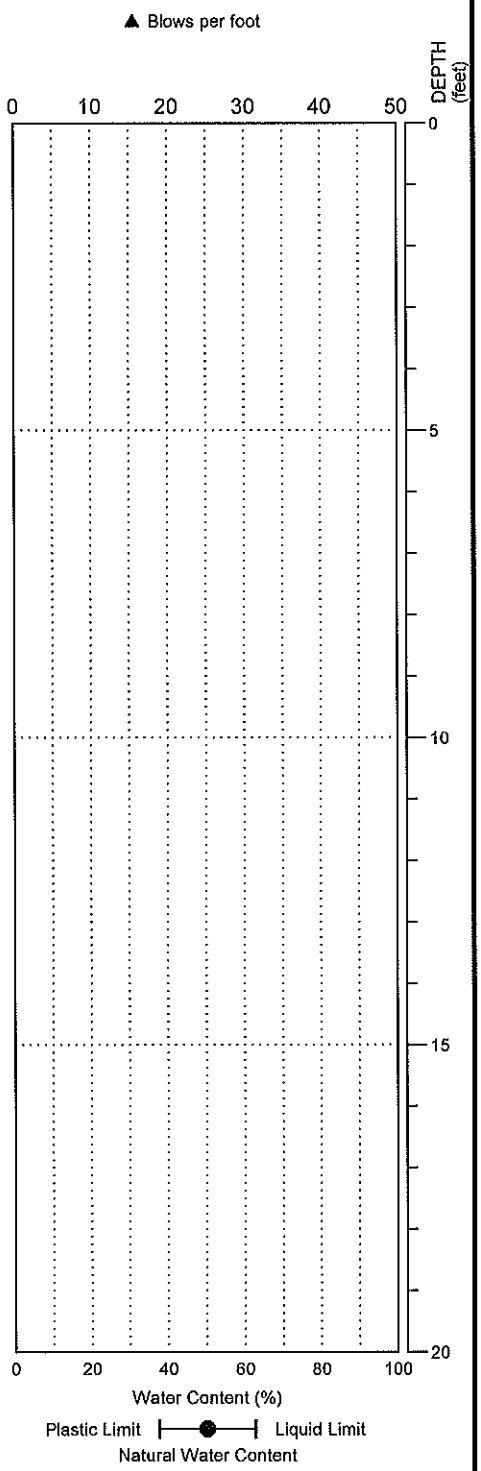
DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 7/10/2007
DATE COMPLETED: 7/10/2007
LOGGED BY: V. Atkins

DEPTH (feet)	SYMBOL	USCS SOIL CLASS	DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	PEN. RESISTANCE (blows/6 inches)	PID (ppm)	GROUNDWATER
0			Topsoil, landscaping bark.					
		SM	Brown silty SAND with gravel, medium dense, dry. (FILL)		2		1.1	
		SM	Red-brown silty fine SAND, oxidixed, moist. (ALLUVIUM)					
5			Red-brown silty fine SAND, oxidized, medium dense, moist grading wet.		6		0.1	▽
		SM	Dark brown silty SAND with gravel, medium dense, wet.					
10					10		0.1	
		ML	Gray-green SILT with fine sand and wood fragments, stiff, wet.					
		SP	Gray coarse SAND, medium dense, wet.					
		ML	Gray SILT, soft grading stiff, moist.		14		0.1	
15								
20								

Boring completed to 16 feet bgs.
Ground water encountered at 8 feet bgs.
Set temporary screen and collected ground water BH-22-W



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HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-22

PAGE: 1 of 1

PROJECT NO.: 2007-098-22 FIGURE: B-8

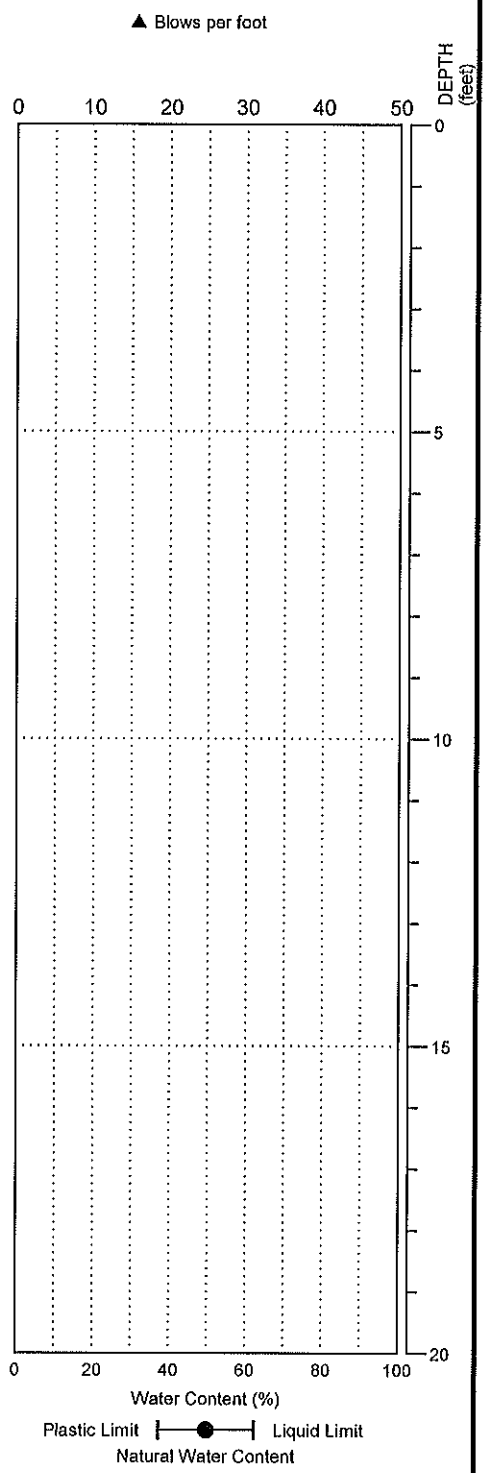
DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 7/10/2007
DATE COMPLETED: 7/10/2007
LOGGED BY: V. Atkins

DEPTH (feet)	SYMBOL	USCS SOIL CLASS	DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	PEN. RESISTANCE (blows/6 inches)	PID (ppm)	GROUNDWATER
0			ASPHALT					
		SM	Brown silty SAND and GRAVEL, gravel to 1/2", medium dense, dry grading moist. (FILL)		2		0.1	
5		SM	Brown silty SAND and GRAVEL with gray seams, moist grading wet (ALLUVIUM).		6		0.1	
		OL	Dark brown organic SILT/PEAT with wood fragments and gray sand seams, wet, low to medium plasticity.					▽
10					10		0.1	
		SP	Gray medium to coarse SAND, wet. Grading fine to medium SAND, wet.					
		ML SM	Grading dark gray silty fine SAND and SILT with clay, stiff, wet to moist, medium plasticity.		14		0.1	
15								
20								

Boring completed to 16 feet bgs.
Ground water encounterd at 8 feet bgs.
Set temporary screen and collected ground water sample BH-8-W.



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HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-8

PAGE: 1 of 1

PROJECT NO.: 2007-098-22 FIGURE: B-9

BORINGE 2007098.GPJ 11/5/07

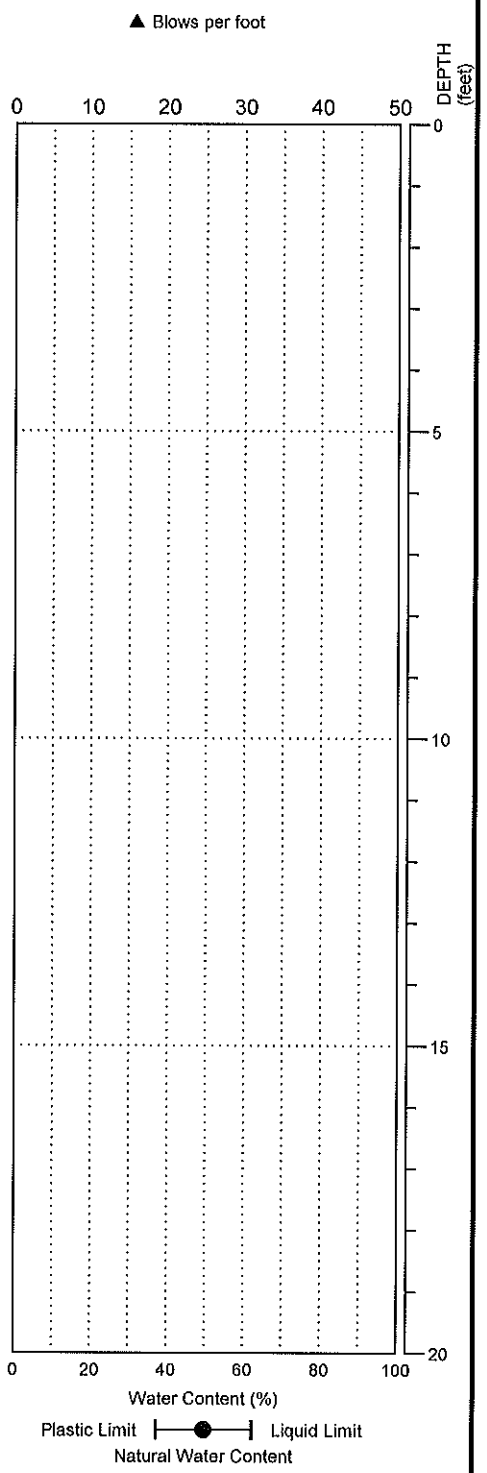
DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 7/10/2007
DATE COMPLETED: 7/10/2007
LOGGED BY: V. Atkins

DEPTH (feet)	USCS SOIL CLASS	DESCRIPTION	SAMPLE NUMBER	PID (ppm)
0		ASPHALT		
	SM	Brown silty SAND with gravel, with gray lenses, occasional mottling, dry grading moist. (FILL)	2	0.1
5	SM	Gray silty SAND, moist (ALLUVIUM).		
		Grading wet.	6	0.1
10		Gray-brown silty SAND with gravel and wood fragments, gravel to 3/4", wet.	10	0.1
		Decreasing gravel.		
	SP	Gray medium to coarse SAND with wood fragments, wet.	14	0.1
15	CL ML	Gray SILT and CLAY, stiff, moist, medium plasticity.		
20				

Boring completed to 16 feet bgs.
Groudn water encounterd at 7.5 feet bgs.
Set temporary screen and collect ground water sample BH-9-W.



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HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-9

PAGE: 1 of 1

PROJECT NO.: 2007-098-22 FIGURE: B-10

BORINGE 2007098.GPJ 11/5/07

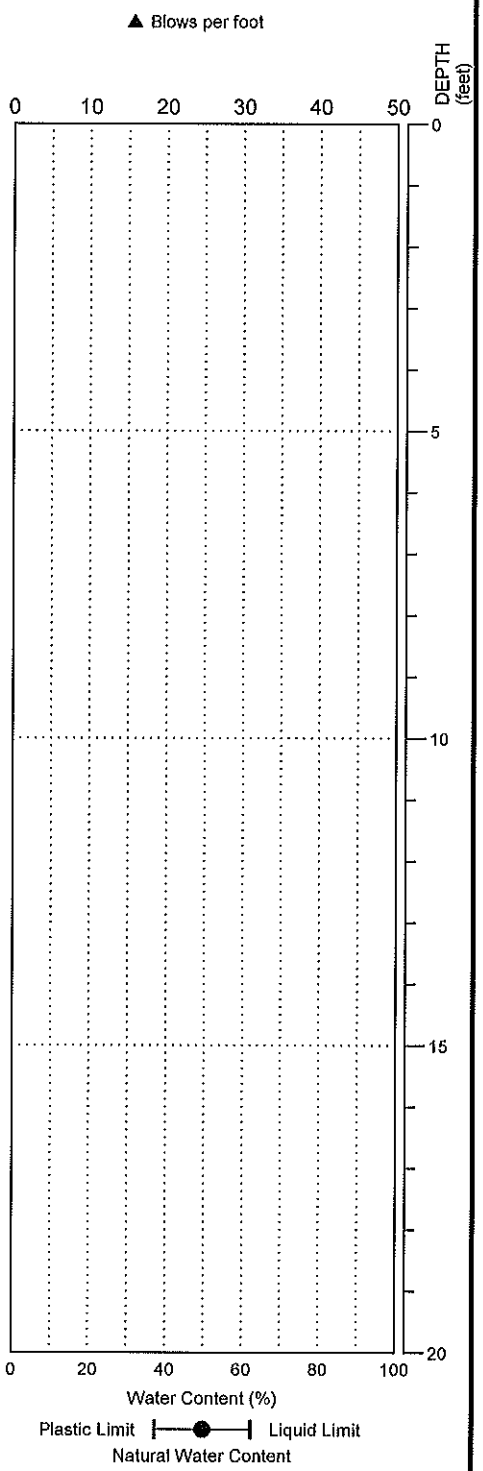
DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 7/9/2007
DATE COMPLETED: 7/9/2007
LOGGED BY: V. Atkins

DEPTH (feet)	SYMBOL	USCS SOIL CLASS	DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	PEN. RESISTANCE (blows/6 inches)	PID (ppm)	GROUNDWATER
0			ASPHALT					
		SM	Brown silty SAND and GRAVEL, gravel to 3/4", dry grading moist. (FILL)		2		0.1	
5		SP	Brown silty SAND and GRAVEL with gray lenses, moist (ALLUVIUM).		6		0.1	▽
			Brown grading gray silty SAND, wet.					
10			Gray silty SAND with wood fragments.		10		0.1	
		OL	Dark brown organic SILT/PEAT, soft, moist, low plasticity.					
		SM	Gray silty SAND, with silt lenses, wet.					
15			Grading light brown with oxidized lenses, decreasing silt, wet.		14		0.1	
20								

Boring completed to 16 feet bgs.
Ground water encountered at 8 feet bgs.



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Beta Bothell Landing
Bothell, Washington

BORING:
BH-10

PAGE: 1 of 1

PROJECT NO.: 2007-098-22 FIGURE: B-11

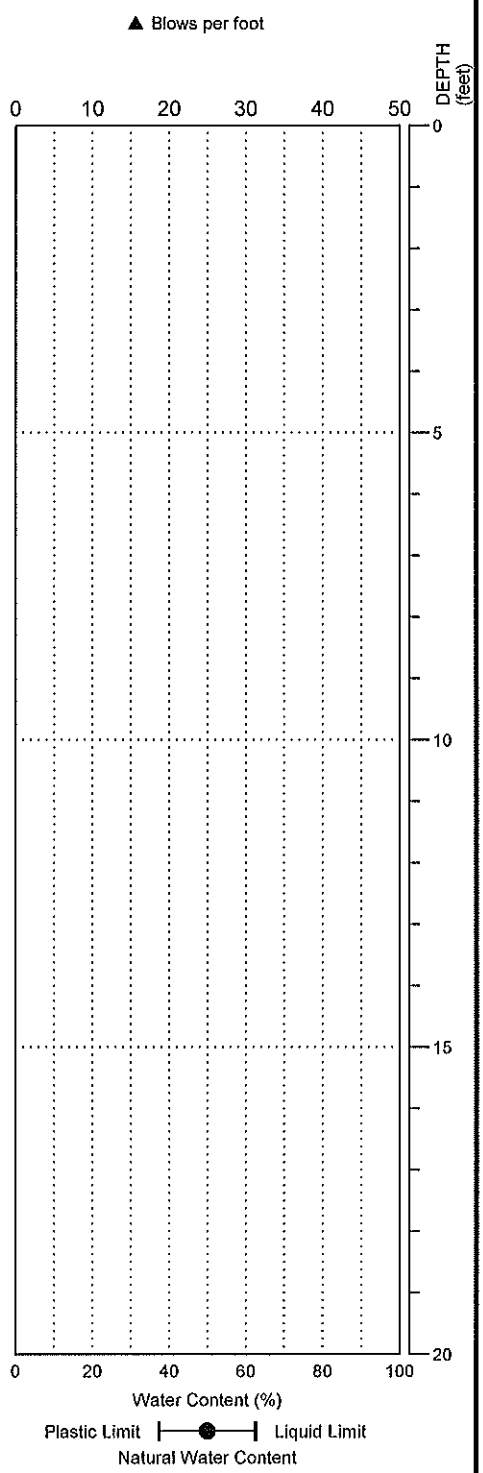
BORINGE 2007098.GPJ 11/5/07

DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 7/9/2007
DATE COMPLETED: 7/9/2007
LOGGED BY: V. Atkins

DEPTH (feet)	SYMBOL	USCS SOIL CLASS	DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	PEN. RESISTANCE (blows/6 inches)	PID (ppm)	GROUNDWATER
0			ASPHALT					
		SM	Brown silty SAND with gravel, moist. (FILL)		2		0.1	
		SM	Gray SAND and SILT with gravel and wood fragments, wet. (ALLUVIUM)		6		0.1	▽
5								
		OL	Brown organic SILT, moist to wet, low plasticity.		10		0.1	
10								
		SP	Fine gray SAND, with interbedded wood fragments and peat, wet.					
			Gray medium to coarse SAND with wood fragments, trace silt, wet.					
15								
		OL	Dark brown organic SILT/PEAT, moist to wet, low plasticity.		14		0.1	
20			Boring completed to 16 fett bgs. Ground water encountered at 4 feet bgs. Set temporary screen and collected ground water sample BH-11-W.					



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-11

PAGE: 1 of 1

PROJECT NO.: 2007-098-22 FIGURE: B-12

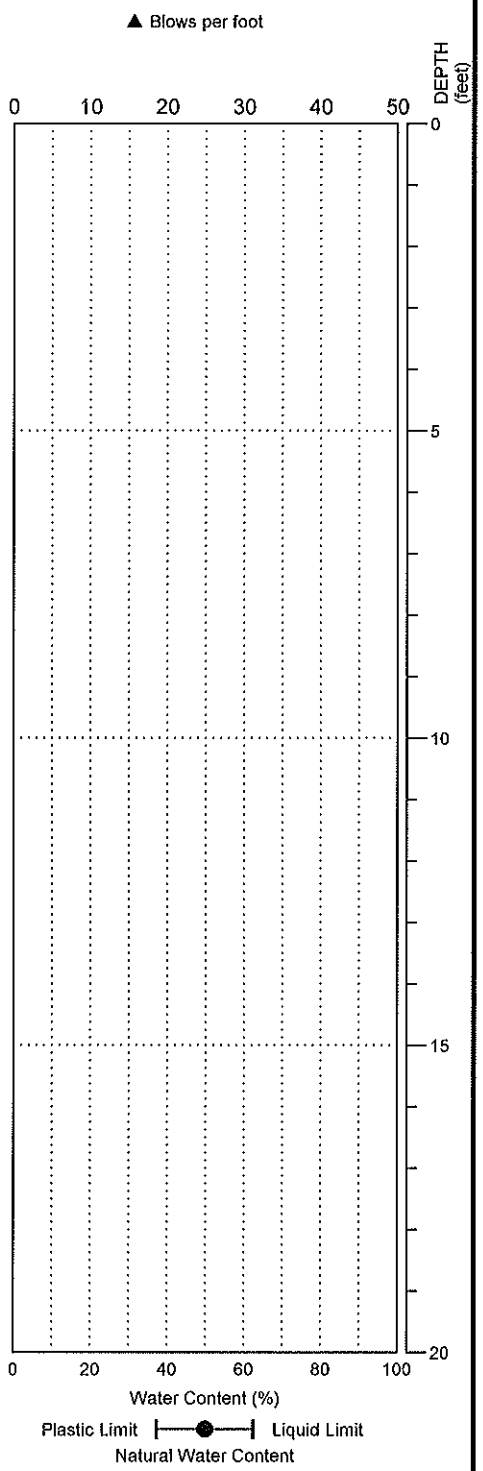
BORINGE 2007098.GPJ 11/5/07

DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 7/9/2007
DATE COMPLETED: 7/9/2007
LOGGED BY: V. Atkins

DEPTH (feet)	SYMBOL	USCS SOIL CLASS	DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	PEN. RESISTANCE (blows/6 inches)	PID (ppm)	GROUNDWATER
0			ASPHALT					
		SM	Brown silty SAND and gravel, dry grading moist. (FILL)		2		0.1	
5		OL	Dark brown organic SILT with peat, soft, moist (ALLUVIUM).		6		0.1	
			Grading wet		10			▽
10		SM	Brown silty SAND with oxidation, medium dense, wet.					
15		ML	Brown to gray SILT with sand lenses, trace wood fragments, stiff, moist, low to medium plasticity.		14		0.1	
20			Boring completed to 16 feet bgs. Ground water encountered at 8 feet bgs.					



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HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-12

PAGE: 1 of 1

PROJECT NO.: 2007-098-22 FIGURE: B-13

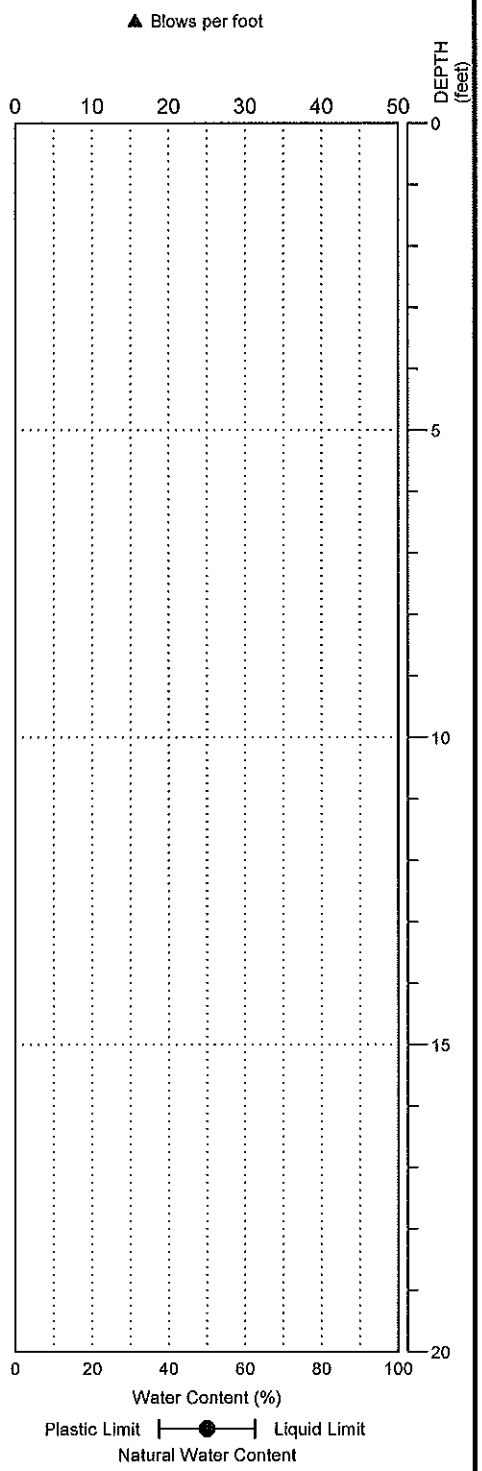
DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 7/9/2007
DATE COMPLETED: 7/9/2007
LOGGED BY: V. Atkins

DEPTH (feet)	SYMBOL	USCS SOIL CLASS	DESCRIPTION	SAMPLE TYPE / SAMPLE NUMBER	PEN. RESISTANCE (blows/6 inches)	PID (ppm)	GROUNDWATER
0			ASPHALT				
		SM	Brown silty SAND with gravel, dry. (FILL)				
		SM	Gray silty SAND with gravel, medium dense, moist (ALLUVIUM)	2		0.1	
5							
		OL	Dark brown organic SILT/PEAT, wet, low plasticity. (ALLUVIUM)	6		0.1	
		SM	Brown grading gray silty SAND, wet.				▽
10				10		0.1	
		SP	Grading medium to coarse gray SAND, wet.				
			Grading fine to medium SAND, wet.	14		0.1	
15							
20							

Boring completed to 16 feet bgs.
Ground water encountered at 8 feet bgs.
Set temporary screen and collected ground water sample BH-13-W.



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HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-13

PAGE: 1 of 1

PROJECT NO.: 2007-098-22 FIGURE: B-14

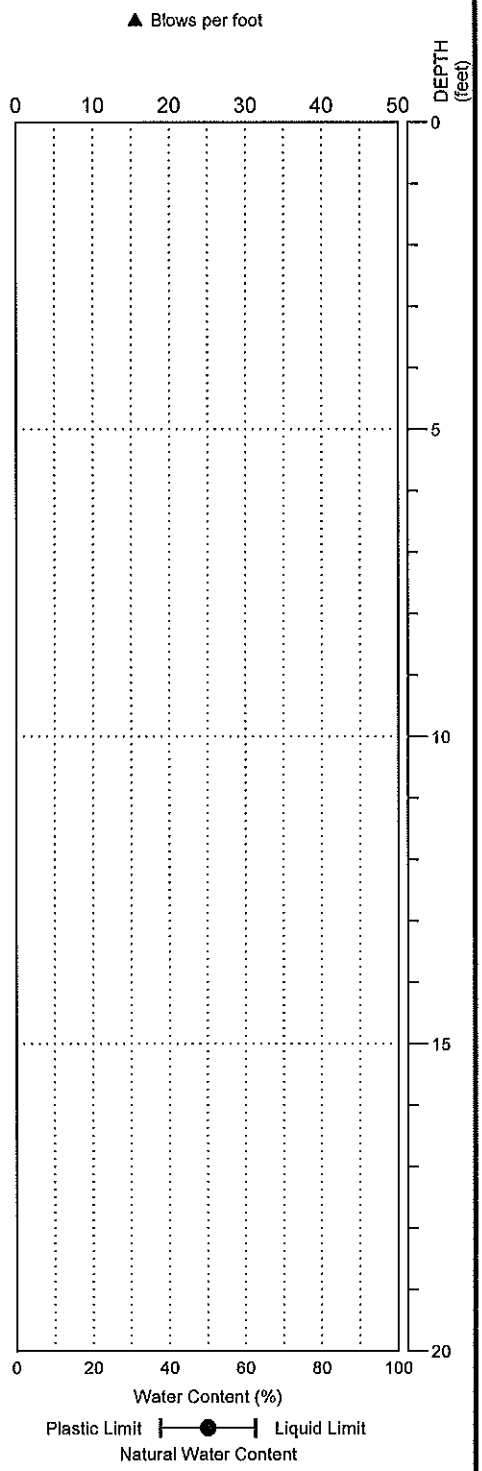
DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 7/10/2007
DATE COMPLETED: 7/10/2007
LOGGED BY: V. Atkins

DEPTH (feet)	SYMBOL	USCS SOIL CLASS	DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	PEN. RESISTANCE (blows/6 inches)	PID (ppm)	GROUNDWATER
0			ASPHALT					
		SM	Brown grading gray silty SAND and GRAVEL, gravel to 1", dry grading moist. (FILL)		2		NA	
		ML	Gray SILT with fine sand, trace organic material, moist. (ALLUVIUM)					
		SM	Gray silty SAND with GRAVEL, gravel to 3/4", moist.		6		NA	
5		OL	Dark brown organic SILT/PEAT, stiff, moist grading wet, slight organic odor.					▽
			Grading dark brown SILT with peat and clay, wet.		10		NA	
10		CL ML	Gray-green SILT and CLAY with sand lenses, stiff, moist, low plasticity.					
			Grading red-brown SILT and CLAY with peat, stiff, moist.		14		NA	
15								
20								

Boring completed to 16 feet bgs.
Ground water encountered at 8 feet bgs.



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HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-14

PAGE: 1 of 1

PROJECT NO.: 2007-098-22 FIGURE: B-15

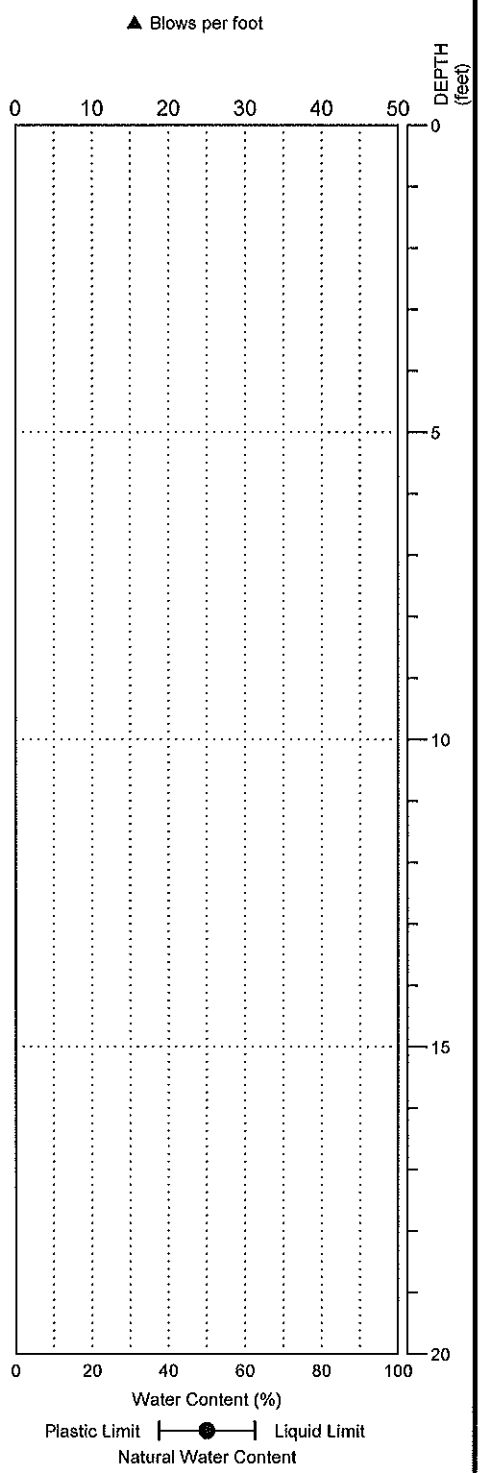
DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 7/10/2007
DATE COMPLETED: 7/10/2007
LOGGED BY: V. Atkins

DEPTH (feet)	USCS SOIL CLASS	DESCRIPTION	SAMPLE NUMBER	PEN. RESISTANCE (blows/6 inches)	PID (ppm)
0		ASPHALT			
	SM	Brown grading gray silty SAND and GRAVEL, gravel to 1", dry grading moist, slight organic odor. (FILL)	2		NA
5	SM	Gray silty SAND and GRAVEL, with silt layers, moist. (ALLUVIUM)	6		NA
		Wood fragments, grading wet.			
	OL	Brown organic SILT/PEAT with interbedded gray fine to medium sand, wet.			
10	SP	Gray fine to medium sand, wet.	10		NA
	OL	Brown organic SILT/PEAT, wet.			
	SP	Gray coarse SAND, occasional gravel, wet.			
	PT	Red-brown PEAT, moist to wet.	14		NA
15					
20					

Boring completed to 16 feet bgs.
Ground water encountered at 8 feet bgs.
Set temporary screen and collected ground water sample BH-15-W.



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HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-15

PAGE: 1 of 1

PROJECT NO.: 2007-098-22 FIGURE: B-16

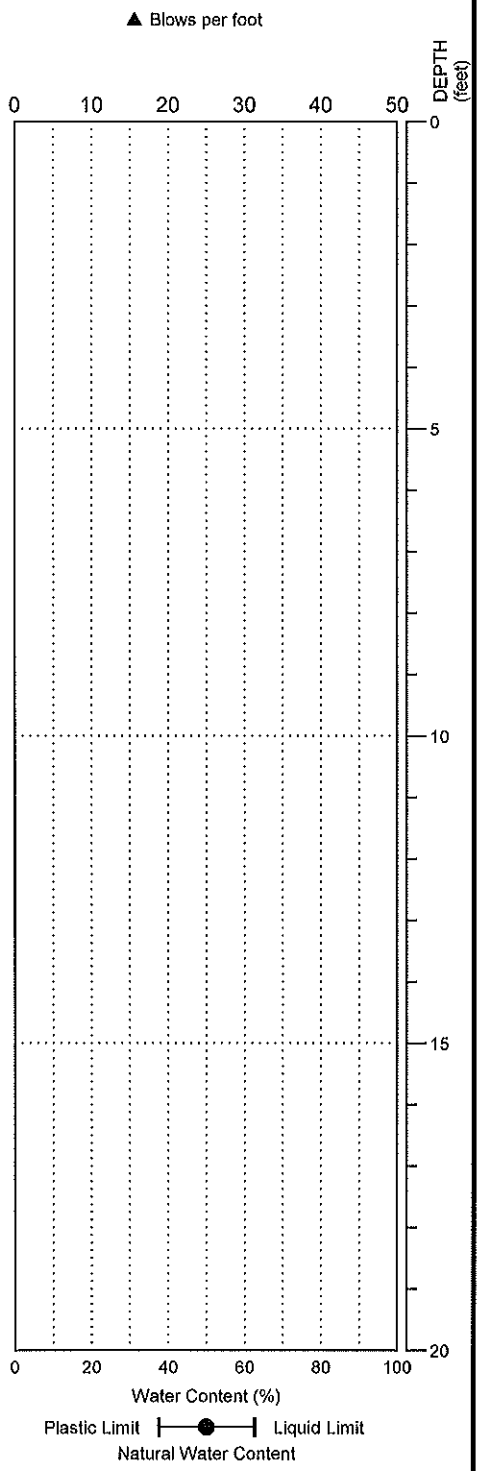
DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 7/10/2007
DATE COMPLETED: 7/10/2007
LOGGED BY: V. Atkins

DEPTH (feet)	USCS SOIL CLASS	DESCRIPTION	SAMPLE NUMBER	PEN. RESISTANCE (blows/6 inches)	PID (ppm)	GROUNDWATER
0		ASPHALT				
	SM	Brown grading gray silty SAND and GRAVEL, gravel to 1", dry grading moist. (FILL)				
			2		NA	
5		Gray silty SAND, grading wet.				
	ML	Brown to gray SILT with organic matter, stiff, moist, low to medium plasticity (ALLUVIUM).	6		NA	▽
	SM	Gray SAND and SILT with gravel, wet.				
	OL	Grading brown SILT/PEAT wiht wood fragmetns, wet, stiff, medium plasticity.				
10			10		NA	
	SP	Gray coarse SAND with wood fragments, wet.				
		Gray fine to medium SAND, increasing silt.				
	OL	Grading red-brown organic SILT/PEAT, stiff, moist.	14		NA	
15						
20						

Boring completed to 16 feet bgs.
Ground water encountered at 6 feet bgs.



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HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-16

PAGE: 1 of 1

PROJECT NO.: 2007-098-22 FIGURE: B-17

BORINGE 2007098.GPJ 11/5/07

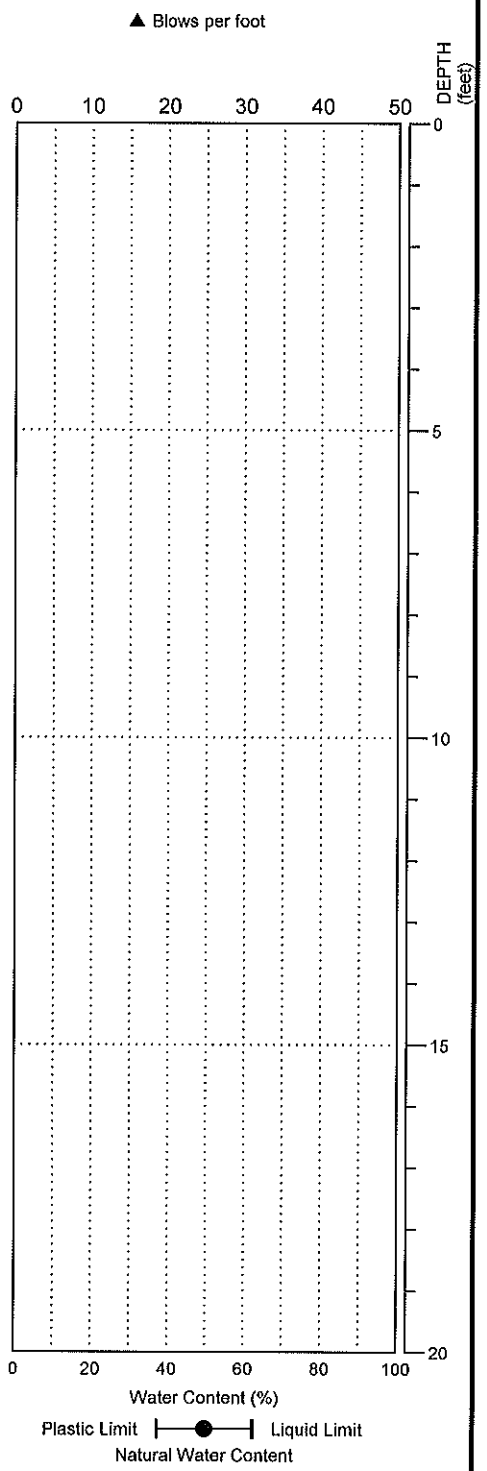
DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 8/9/2007
DATE COMPLETED: 8/9/2007
LOGGED BY: V. Atkins

DEPTH (feet)	SYMBOL	USCS SOIL CLASS	DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	PEN. RESISTANCE (blows/6 inches)	PID (ppm)	GROUNDWATER
0			Asphalt					
		SM	Gray-brown silty SAND and GRAVEL, dry to moist. (FILL)					
		ML	Brownish-yellow SILT with clay, moist, still, low plasticity. (ALLUVIUM)					
		SM	Gray silty SAND and GRAVEL, moist.		2		0.1	
5			As above, grading wet.		6		1.7	▽
		OL	Dark brown SILT/PEAT with wood fragments, wet. Slight organic odor.		10		0.1	
		SP	Gray SAND with fine gravel, wet.					
			Brown medium SAND, wet		14		0.1	
15		OL	Dark brown SILT/PEAT, wet.					
20								

Boring completed to 16 feet bgs.
Ground water encountered at 7 feet bgs.
Set temporary screen and collected ground water BH-17-W



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HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-17

PAGE: 1 of 1

PROJECT NO.: 2007-098-22 FIGURE: B-18

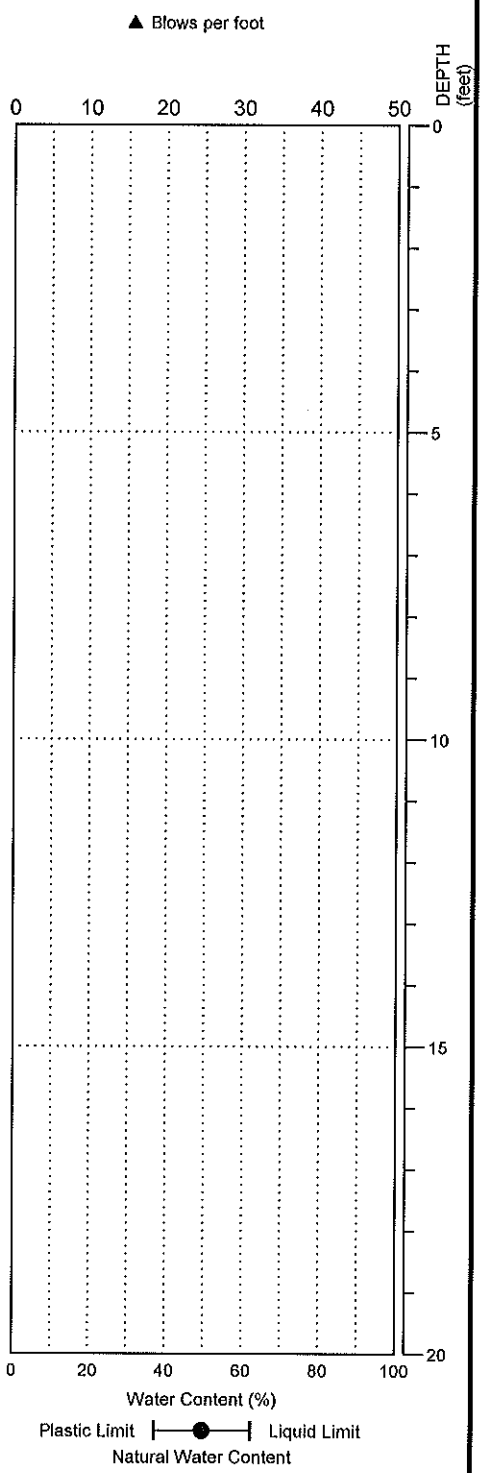
DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 8/9/2007
DATE COMPLETED: 8/9/2007
LOGGED BY: V. Atkins

DEPTH (feet)	SYMBOL	USCS SOIL CLASS	DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	PEN. RESISTANCE (blows/6 inches)	PID (ppm)	GROUNDWATER
0			Topsoil, landscaping bark.					
		SP	Yellow-brown medium SAND with gravel,dry, loose (FILL).		2		0.1	
5		SM	Red-brown fine silty SAND with gray lenses, trace oxidation, loose, moist (ALLUVIUM)		6		0.1	▽
			Grading wet					
		ML	Grading gray SILT with very fine sand, oxidized seams, stiff, wet. Trace solvent/petroleum odor.		10		2.8	
10			Gray SILT with very fine oxidized sand seams, stiff, wet. No apparent odor.		12		0.1	
15								
20								

Boring completed to 16 feet bgs.
Ground water encountered at 7 feet bgs.
Set temporary screen and collected ground water BH-18-W



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HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-18

PAGE: 1 of 1

PROJECT NO.: 2007-098-22 FIGURE: B-19

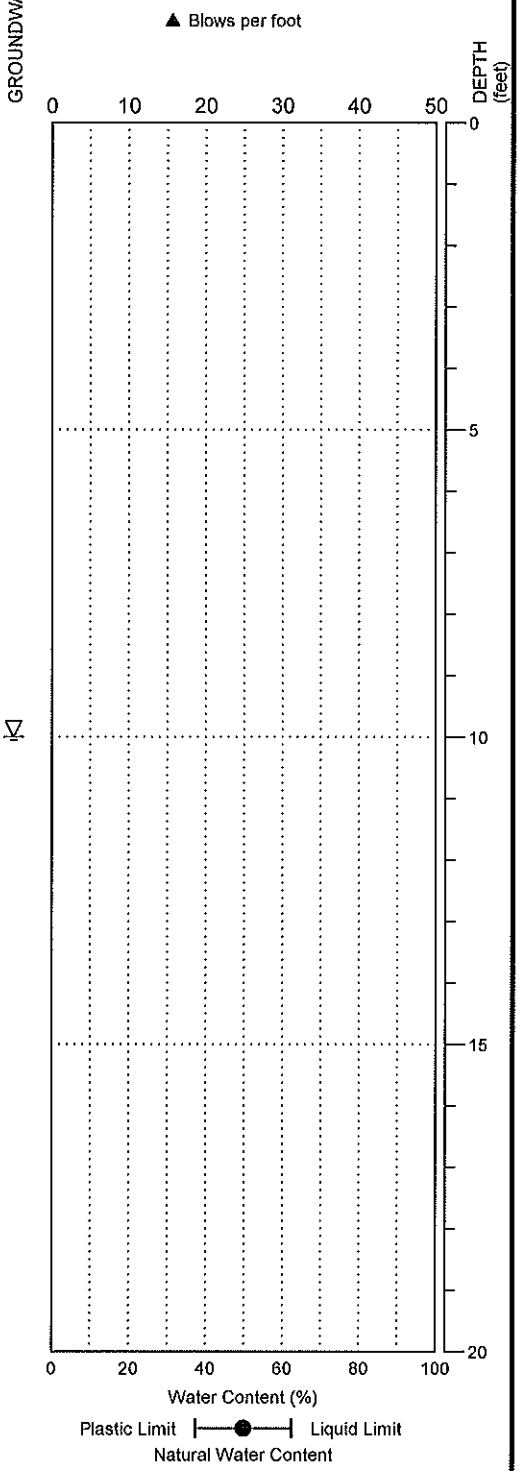
DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 8/9/2007
DATE COMPLETED: 8/9/2007
LOGGED BY: V. Atkins

DEPTH (feet)	SYMBOL	USCS SOIL CLASS	DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	PEN. RESISTANCE (blows/6 inches)	PID (ppm)	GROUNDWATER
0			Asphalt					
		SP	Brown medium SAND with fine gravel, medium dense, dry grading moist. (FILL)					
					2		0.1	
5								
					6		0.1	
		OL	Dark brown organic SILT, soft, low plasticity, moist. (ALLUVIUM)					
10		SM	Gray medium SAND with silt, medium dense, wet.		10		0.1	▽
		CL ML	Gray SILT and CLAY, soft, plastic, wet.					
		SP	Red-brown medium SAND, medium dense, wet.					
		OL	Gray grading dark brown SILT with organic material, soft, wet.					
					14		0.1	
15								
20								

Boring completed to 16 feet bgs.
Ground water encountered at 10 feet bgs.
Set temporary screen and collected ground water BH-19-W



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HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-19

PAGE: 1 of 1

PROJECT NO.: 2007-098-22 FIGURE: B-20

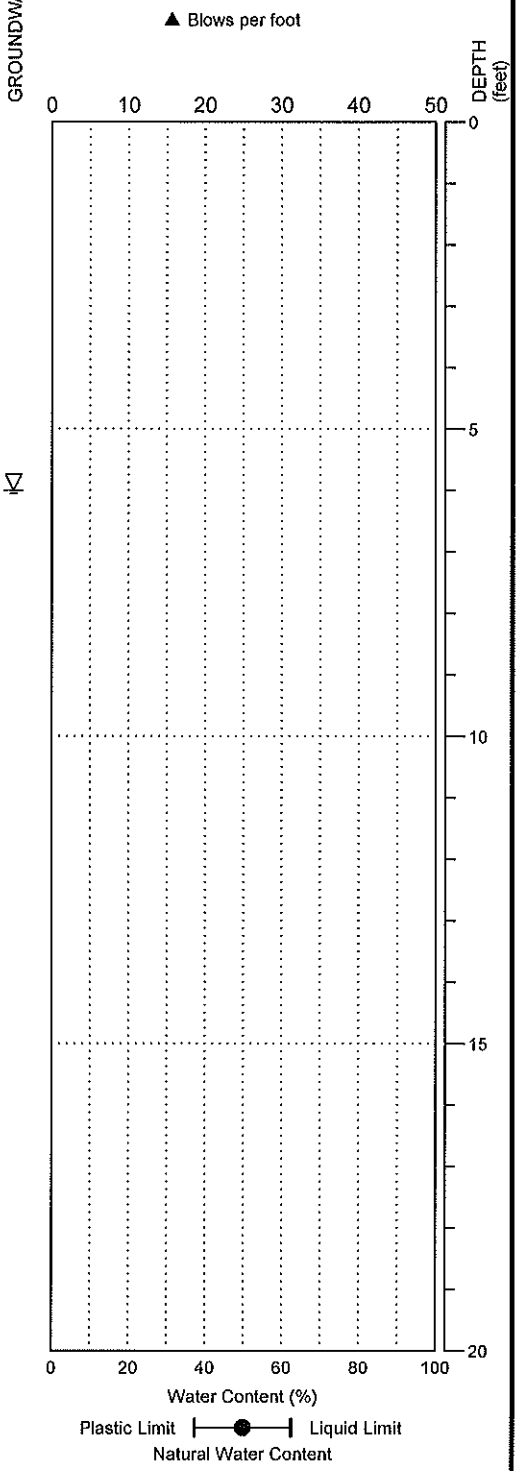
DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 8/9/2007
DATE COMPLETED: 8/9/2007
LOGGED BY: V. Atkins

DEPTH (feet)	USCS SOIL CLASS	DESCRIPTION	SAMPLE NUMBER	PID (ppm)
0		Asphalt		
	SM	Gray silty medium to coarse SAND and GRAVEL, medium dense, dry to moist. (FILL)	2	1.2
		Trace hydrocarbon odor.		
5	SM	Gray-green silty SAND with gravel, moist grading wet, trace hydrocarbon odor (ALLUVIUM)		
	OL	Dark brown to brown SILT with organic material, moist. No apparent odor.	6	0.5
	SM	Red-brown fine silty SAND, oxidized, medium dense, wet.		
10	ML	Gray SILT with clay, soft to stiff, moist.	10	0.1
	SM	Gray to red-brown silty coarse SAND with fine gravel, medium dense, wet.		
15	ML	Brownish yellow to gray SILT with very fine sand, trace oxidation, stiff, low plasticity, wet.	14	0.1
20				

Boring completed to 16 feet bgs.
Ground water encountered at 6 feet bgs.
Set temporary screen and collected ground water BH-20-W



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-20

PAGE: 1 of 1

PROJECT NO.: 2007-098-22 FIGURE: B-21

DRILLING COMPANY: ESN Northwest
DRILLING METHOD: GeoProbe
SAMPLING METHOD: HDPE-lined Macrocore sampler
LOCATION: See Figure 2

SURFACE ELEVATION: ± feet

DATE STARTED: 8/9/2007
DATE COMPLETED: 8/9/2007
LOGGED BY: V. Atkins

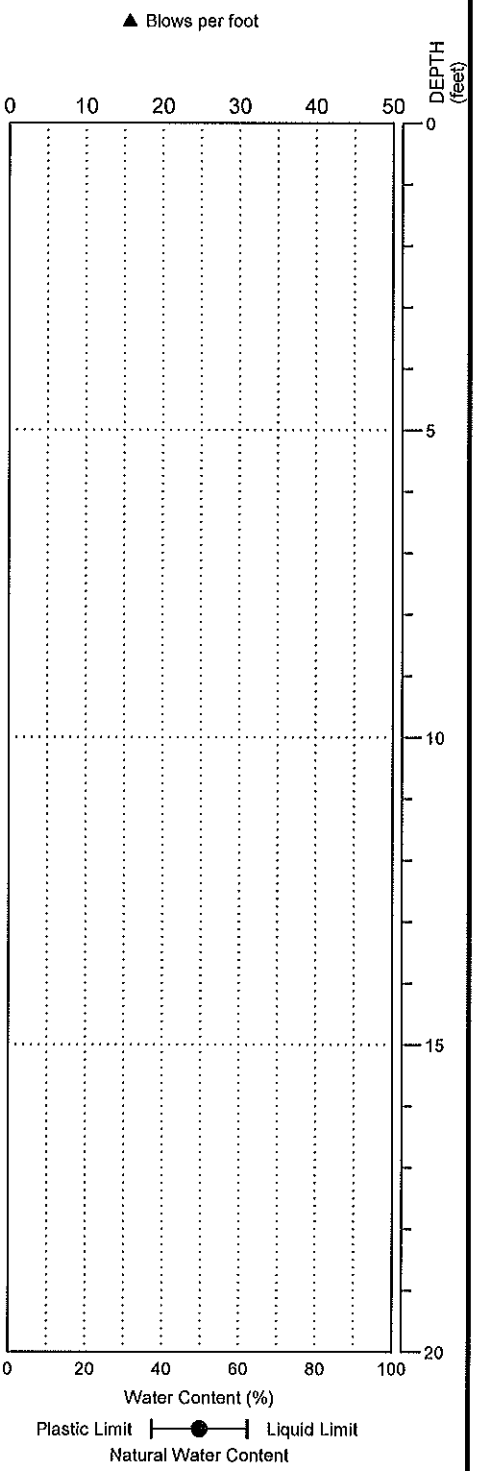
DEPTH (feet)	USCS SOIL CLASS	DESCRIPTION	SAMPLE NUMBER	PID (ppm)
0		Asphalt		
	SM	Gray-green silty SAND and GRAVEL, medium dense, dry to moist. Hydrocarbon odor. (FILL)	2	47
5	SM	Dark brown silty SAND and GRAVEL, medium wet, moist to wet. Hydrocarbon odor. (ALLUVIUM)	6	21
10		Limited sample recovery (Rock in sampler). Dark brown silty SAND with gravel, wet. Trace hydrocarbon odor.	11	21
		Brown silty medium grading fine SAND, medium dense, wet. Trace hydrocarbon odor.		
15	ML	Gray SILT with fine sand, stiff, plastic, wet. No apparent odor.	14	0.4
	SP	Gray medium SAND, occasional oxidized seam, wet.		
20				

Boring completed to 16 feet bgs.
Ground water encountered at 7 feet bgs.
Set temporary screen and collected ground water BH-21-W

SAMPLE TYPE

PEN. RESISTANCE (blows/6 inches)

GROUNDWATER



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HWA GEOSCIENCES INC.

Beta Bothell Landing
Bothell, Washington

BORING:
BH-21

PAGE: 1 of 1

PROJECT NO.: 2007-098-22 FIGURE: B-22

BORINGE 2007098.GPJ 11/5/07

ENVIRONMENTAL PARTNERS INC 295 NE Gilman Blvd., Suite 201 Issaquah, Washington 98027 ph 425.395.0010 fax 425.395.0011

FILE COPY

November 30, 2004

Ms. Edna Case
C/o Mr. Wayne Case
18680 Woodinville-Duvall Road
Woodinville, Washington 98077

Re: Chlorinated VOC Nature and Extent Investigation Letter Report
Case Property
18300-18304 Bothell Way NE
Bothell, Washington

EPI Project No. 46101.0

Dear Mr. Case:

Environmental Partners, Inc. (EPI) is pleased to provide this letter report presenting the results of a recently completed Chlorinated VOC Nature and Extent Investigation (Investigation) for the property located at 18300-18304 Bothell Way NE in Bothell, Washington (subject property). The subject property is occupied by the Ultra Custom Cleaners dry cleaning facility, Frank's Hair Design hair salon, and the Laundry Basket laundromat. The general location of the subject property is indicated on Figure 1.

Previous subsurface investigations of the subject property conducted by EHS in 2001 and Farallon Consulting, L.L.C. in 2002 indicated that concentrations of perchloroethene (PCE) and its associated degradation compounds exceeding MTCA Method A Groundwater Cleanup Levels were detected in groundwater on the southwestern portion of the subject property and in storm water and sediment located in catch basins on the northeastern and northwestern portions of the subject property. Concentrations of PCE and its associated degradation compounds were also detected in soil throughout the subject property, but at concentrations below their respective MTCA Method A Soil Cleanup Levels. Previous subsurface investigations did not identify the source of the observed on-site PCE impacts to soil and groundwater.

The work described herein was performed in general accordance with the basic scope of work described in EPI's proposal to Ms. Edna Case, dated June 28, 2004.

The general objective of this Investigation was to assess the vertical and lateral extent of soil and groundwater impacts from PCE and its associated degradation compounds [i.e. trichloroethene (TCE), cis-1,2-dichloroethene, trans-1,2-dichloroethene and vinyl chloride] associated with the historical use of PCE by Ultra Custom Cleaners and the Raincheck Cleaners dry cleaning facility. Raincheck Cleaners was formerly located on the southwestern portion of the subject property. A photograph of the former

Raincheck Cleaners dry cleaning facility which was obtained from the Puget Sound Regional Archives is included as Attachment A and the approximate location of this facility is depicted on Figures 2 and 3.

SCOPE OF WORK

EPI advanced a total of sixteen soil borings using standard direct-push probe sampling techniques at the locations indicated on Figures 2 and 3. The maximum depth of exploration during the course of the Investigation was 44 feet below grade.

During drilling, soil samples were collected at approximate 4-foot vertical intervals and screened for the presence of volatile compounds using a photoionization detector (PID). The soil conditions encountered during drilling were described using the Unified Soil Classification System (USCS) visual-manual procedures (ASTM 2488D). The results of field screening and the soil conditions encountered during drilling are presented on soil borings logs in Attachment B.

Soil samples were selected for laboratory analysis based upon the results of field screening using visual indicators, photoionization detector (PID) measurements, and professional judgment. When field screening did not indicate an interval that was most likely to be contaminated, the soil sample nearest to the water table was selected for laboratory analysis. A total of sixteen soil samples were submitted to CCI Analytical Laboratories in Everett, Washington for the analyses indicated on the following page in Table 1.

Groundwater was encountered in fifteen of the sixteen boring locations at depths ranging from approximately 9 to 11 feet below grade in all boring locations except for boring location B-15 where the probe could not be advances beyond 5 feet below grade due to a subsurface obstruction. Groundwater was encountered in all three boring locations on the adjacent property to the east at depths ranging from approximately 19 to 20 feet below grade. It should be noted that the ground surface elevation on the eastern adjacent property is approximately 10 feet higher than the ground surface elevation on the subject property. Therefore, the depth to groundwater remained relatively consistent across the subject property and adjacent property.

Groundwater samples were collected from the probe locations and existing monitoring well MW-1using a peristaltic pump and dedicated tubing. Groundwater was purged from the sampling point for several minutes then pumped directly into appropriate sample containers at a flow rate of less than 100 milliliters/minute. Approximately 3 well volumes were purged from monitoring well MW-1 prior to sampling. A total of thirty-four ground water samples were submitted to CCI Analytical Laboratories in Everett, Washington for the analyses indicated in Table 1.

Table 1
Summary of Requested Laboratory Analyses for Soil and Groundwater Samples

Sample Designation	Depth (ft) Screened Interval for GW	Sample Matrix	HVOCs[a] by EPA Method 8260	Nitrate and Sulfate[b]	Dissolved Iron and Manganese[c]	Total Organic Carbon[d]
B-1:8	8'	S	X			
B-1:9	8' – 12'	GW	X	X	X	X
B-1:26	26' – 30'	GW	X			
B-1:40	40' – 44'	GW	X			
B-2:8	8'	S	X			
B-2:9	8' – 12'	GW	X			
B-2:22	22' – 26'	GW	X			
B-2:36	36' – 40'	GW	X			
B-3:8	8'	S	X			
B-3:9	8' – 12'	GW	X			
B-3:22	22' – 26'	GW	X			
B-3:36	36' – 40'	GW	X			
B-4:8	8'	S	X			
B-4:9	8' – 12'	GW	X			
B-4:22	22' – 26'	GW	X			
B-4:36	36' – 40'	GW	X			
B-5:8	8'	S	X			
B-5:9	8' – 12'	GW	X			
B-5:22	22' – 26'	GW	X			
B-5:36	36' – 40'	GW	X			
B-6:8	8'	S	X			
B-6:9	8' – 12'	GW	X	X	X	X
B-6:22	22' – 26'	GW	X			
B-6:36	36' – 40'	GW	X			
B-7:8	8'	S	X			
B-7:9	8' – 12'	GW	X			
B-7:22	22' – 26'	GW	X			
B-7:36	36' – 40'	GW	X			
B-8:8	8'	S	X			
B-8:9	8' – 12'	GW	X			
B-8:22	22' – 26'	GW	X			
B-8:32	32' – 36'	GW	X			
B-9:8	8'	S	X			
B-9:9	8' – 12'	GW	X	X	X	X

Sample Designation	Depth (ft) Screened Interval for GW	Sample Matrix	HVOCs[a] by EPA Method 8260	Nitrate and Sulfate[b]	Dissolved Iron and Manganese[c]	Total Organic Carbon[d]
B-9:22	22' – 26'	GW	X			
B-9:36	36' – 40'	GW	X			
B-10:19	19'	S	X			
B-10	20' – 24'	GW	X			
B-11:19	19'	S	X			
B-11	20' – 24'	GW	X			
B-12:18	18'	S	X			
B-12	20' – 24'	GW	X			
B-13:10	10'	S	X			
B-13	10' – 14'	GW	X			
B-14:10	10'	S	X			
B-14	10' – 14'	GW	X			
B-15:10	10'	S	X			
B-15	10' – 14'	GW	X			
B-16:10	10'	S	X			
B-16	10' – 14'	GW	X			

(a) Halogenated Volatile Organic Compounds
(b) Analyzed using EPA Method 300.0
(c) Analyzed using EPA Method 6010
(d) Analyzed using EPA Method 415.2

Immediately upon collection, all soil and ground water samples were labeled and placed in an iced cooler pending submittal to the analytical laboratory. All samples were handled and transported under standard chain-of-custody protocols.

FINDINGS

Subsurface Conditions

Subsurface conditions at the subject property and adjacent eastern property generally consisted of concrete, asphalt, flooring material and/or grass at the surface underlain by intermittent intervals of sand, silt and/or gravel mixtures which were observed to the maximum depth of exploration of 44 feet below grade. An apparently laterally-continuous silty layer was encountered in all deep borings associated with this investigation at a depth of approximately 36 to 40 feet below ground surface (bgs). This low-permeability silty layer is an important feature as it serves to limit the potential downward migration of PCE and its breakdown products which are denser than water and tend to sink in the aquifer. The presence of the silty layer, coupled with analytical results from deeper groundwater samples indicate that groundwater impacts are most prevalent in the shallow portion of the aquifer.

Groundwater was consistently encountered at depths between 8 and 11 feet below grade on the subject property and 19 and 20 feet below grade on the adjacent property located to the east of the subject property. Given the difference in ground surface elevations between the subject property and

the adjacent eastern property, the depth to groundwater remained relatively consistent across the area of investigation.

Descriptions of the soil types encountered at each boring location and the results of field screening are presented on the boring logs in Attachment B. Elevated PID readings were encountered in one location (B-1) on the south-central portion of the subject property between 12 and 16 feet below grade.

Analytical Results

Soil Samples

As noted above, a total of 16 soil samples were submitted for the analyses indicated in Table 1. The analytical results for these soil samples are summarized in Table 2. The locations and detected Halogenated Volatile Organic Compounds (HVOC) concentrations for these samples are depicted on Figure 2. Final laboratory analytical reports are presented in Attachment C.

PCE was detected in two soil sample locations (B-1 and B-6) at concentrations below its MTCA Method A Soil Cleanup level of 0.05 milligrams/kilogram (mg/kg). The detected PCE concentrations in samples B-1:8 and B-6:8 were 0.020 mg/kg and 0.012 mg/kg, respectively. Both of these locations are in the location of the former Raincheck Cleaners facility. None of the remaining fourteen soil samples submitted for analysis contained detectable concentrations of target analytes above their compound-specific laboratory detection limits.

Groundwater Samples

As noted above, a total of thirty-four groundwater samples were submitted for the analyses indicated in Table 1. The analytical results for these groundwater samples are summarized in Table 3. The locations and detected HVOC concentrations of these samples are depicted on Figure 3. Final laboratory analytical reports are presented in Attachment C.

PCE was detected in shallow groundwater (i.e., the interval screened between 8' and 12' feet below grade on the subject property and 20' to 24' below grade on the adjacent eastern property) in twelve separate locations at concentrations equal to or exceeding the MTCA Method A Groundwater Cleanup Level of 5 micrograms/liter (µg/L) for PCE. The PCE concentrations in these samples ranged from 5 µg/L to 6,400 µg/L. Deeper groundwater impacts were observed in boring location B-1. PCE concentrations of 5 µg/L were observed in both the 26' to 30' and 40' to 44' sampling intervals. However, no other sampling locations had groundwater impacts in the deeper sampling intervals of the aquifer. This analytical data, along with geologic data, indicate that groundwater impacts are limited to the upper portion of the aquifer.

All of the locations where PCE impacts were observed above MTCA Method A Groundwater Cleanup Levels are located in the general vicinity of the former Raincheck Cleaners facility. PCE was also detected in three boring locations and one groundwater monitoring well sample location at concentrations below the MTCA Method A Groundwater Cleanup Level for PCE. None of the remaining groundwater samples contained concentrations of PCE exceeding compound-specific laboratory detection limits.

The distribution of PCE impacts at the site indicate that the likely source area for the PCE is in the south to southwest portion of the subject property at locations B-1, B-3, and B-4. Lower concentrations of PCE were detected in the area surrounding these locations, including areas upgradient of the likely source. The lower concentration detections of PCE in the areas surrounding the source area are likely caused by PCE vapors in the vadose zone that are trapped under the asphalt parking lot and building slab and are able to contaminate shallow groundwater in the area surrounding the PCE source. EPI has seen this PCE transport mechanism at other dry cleaning facilities.

TCE was detected in two groundwater sample locations at concentrations above the MTCA Method A Groundwater Cleanup Level of 5 µg/L. In boring B-4, the detected TCE concentration in shallow groundwater was 210 µg/L and in boring B-1 the concentration was 110 µg/L. Cis-1,2-dichloroethene (cis-1,2-DCE) was also detected in boring B-1 at a concentration of 160 µg/L which exceeds the MTCA Method B Groundwater Cleanup Level of 80 µg/L for this compound. Cis-1,2 DCE, chloroform, and 1,1,1-Trichloroethane (1,1,1-TCA) were detected in three separate locations at concentrations below their respective MTCA Method A or B Groundwater Cleanup Levels.

No other HVOCs were detected at concentrations above compound specific laboratory detection limits.

Analytical results for nitrate, sulfate, iron, manganese, and total organic carbon will be used to asses the chemical oxygen demand of the aquifer for remediation planning and design purposes. Results for these constituents are not relevant to this phase of the project and are not discussed in this report.

CONCLUSIONS

The following conclusions are supported by the findings of this Subsurface Investigation and data from the previous investigations:

- The subject property is almost completely covered with concrete and asphalt. The surface of the adjacent property to the east is predominantly covered with grass. Surface materials are underlain by intermittent layers of sand, silt and/or gravel mixtures which were observed to the maximum depth of exploration of 44 feet below grade. A laterally continuous silt layer was encountered at approximately 40 feet bgs in deeper probe locations.

- Groundwater was consistently encountered at depths between 8 and 11 feet below grade on the subject property and 19 and 20 feet below grade on the property located adjacent to the east. Given the difference in ground surface elevations between the subject property and the adjacent eastern property, the depth to the ground water table remained relatively consistent.

- Low concentrations of PCE in soil were detected in two locations at concentrations below the MTCA Method A Soil Cleanup Level for PCE. Both of these locations are in the immediate vicinity of the former Raincheck Cleaner facility. PCE was not detected in soil samples from any other sampling location and no other HVOCs were detected at concentrations exceeding MTCA Method A or B Soil Cleanup Levels.

- Dissolved-phase concentrations of PCE exceeded MTCA Method A Groundwater Cleanup Levels throughout the southern portion of the subject property and the southwestern portion of the property located adjacent to the east. The southern and eastern limit of these impacts has not been fully characterized but is not expected to be extensive given the pattern of concentration attenuation observed in other locations.

- The distribution of contaminants at the subject property is consistent with a release(s) of PCE at the former Raincheck Cleaners dry cleaning facility. Although the "hot spot" was not identified, it is likely that the soils underlying the subject property were impacted by a release of PCE and served as a source of dissolution of PCE to the shallow ground water. The relatively lower levels of PCE (i.e. <30 µg/L) observed in the areas surrounding the location of the former Raincheck Cleaners facility may be the result of vapor-phase PCE spreading to groundwater as a result of being trapped under asphalt and building slabs.

- Dissolved-phase concentrations of TCE, and cis-1,2-DCE were also observed at concentrations exceeding the MTCA Method A and/or B Groundwater Cleanup Level in two locations on the south-central portion of the subject property which, based on the distribution of PCE impacts, appears to be the source area for PCE at the site.

- It appears that groundwater conditions at the subject property trigger a requirement to report the release to the Washington Department of Ecology (Ecology). The criterion for reporting a release is whether the resulting impacts represent at threat to human health or the environment. It is likely that the subject property meets this criterion based upon the concentrations of PCE in groundwater. The responsibility for reporting to Ecology lies with the owner or operator of a facility. Based on discussions with the property owner EPI understands that this release has already been reported to Ecology.

- PCE concentrations in soil higher than those previously detected may be present on the southern portion of the subject property. Based on the current set of analytical data it is unlikely that the previous level of investigation identified the "hot spot" for these impacts.

- Based on available information, historical site usage, and subsurface data the presumptive remedy for the subject property is in situ chemical oxidation. A remediation and monitoring plan will be developed and implemented as the next phase of this project.

EPI appreciates the opportunity to be of assistance on this project. As always, if you have any questions or comments please do not hesitate to contact me at (425) 395-0010.

Sincerely,

Douglas Kunkel
Senior Hydrogeologist

Jerry Sawetz
Environmental Scientist

TABLES

Table 1 – Summary of Requested Laboratory Analysis for Soil and Groundwater Samples
Table 2 – HVOCs in Soil
Table 3 – HVOCs in Groundwater
Table 4 – Nitrate, Sulfate, Iron, Manganese, and Total Organic Carbon in Groundwater

FIGURES

Figure 1 – General Vicinity Map
Figure 2 – Boring Locations with PCE Concentrations in Soil
Figure 3 – Boring Locations with HVOC Concentrations in Ground Water

ATTACHMENTS

Attachment A – Raincheck Dry Cleaners Photograph
Attachment B – Soil Boring Logs
Attachment C – Analytical Laboratory Reports

QR____ TR____

Table 2
Halogenated Volatile Organic Compounds
in Soil in milligrams/kilogram
On-site Chlorinated VOC Nature and Extent Investigation
18300 Bothell Way NE, Bothell, Washington

Sample Location	Sample Depth (feet)	Date Collected	EPA Method 8260					
			Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride	All Other HVOCs
B-1:8	8	7/22/04	0.020	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND
B-2:8	8	7/26/04	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND
B-3:8	8	7/26/04	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND
B-4:8	8	7/23/04	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND
B-5:8	8	7/26/04	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND
B-6:8	8	7/22/04	0.012	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND
B-7:8	8	7/23/04	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND
B-8:8	8	7/23/04	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND
B-9:8	8	7/23/04	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND
B-13:10	9.5	10/25/04	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND
B-14:10	9.5	10/25/04	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND
B-15:10	9.5	10/26/04	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND
B-16:10	9.5	10/26/04	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND
MTCA Method A Soil Cleanup Level			0.05	0.03	NV	NV	NV	Varied
MTCA Method A Soil Cleanup Level*			19.6	90.9	80	160	0.667	Varied

* - MTCA Method B Cleanup Level is used for reference when a MTCA Method A Cleanup Level is not available
ND - Not detected above compound specific laboratory detection limit.
NV - No Value
Soil samples collected using EPA Method 5035A

Table 3
Summary of Detected Halogenated Volatile Organic Compounds
in Ground Water in micrograms/liter
On-site Chlorinated VOC Nature and Extent Investigation
18300 Bothell Way NE, Bothell, Washington

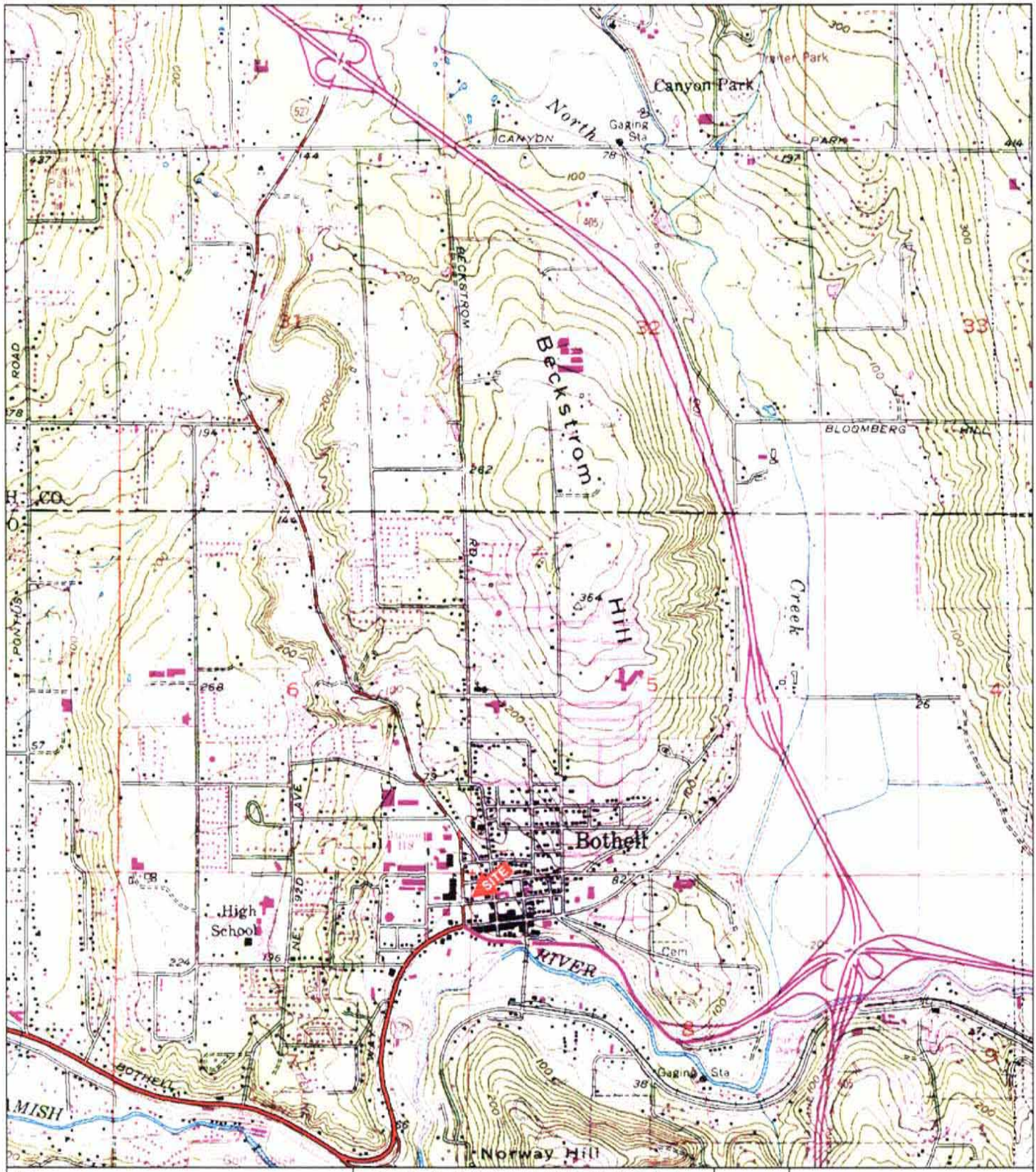
Sample Location	Date Collected	Screened Interval	EPA Method 8260				
			Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	Chloroform	1,1,1 - Trichloroethane
B-1:9	7/22/04	8' - 12'	**6400**	**110**	31	ND<2	ND<2
B-1:26	7/22/04	26' -30'	**5**	ND<2	ND<2	ND<2	ND<2
B-1:40	7/22/04	40' - 44'	**5**	ND<2	ND<2	ND<2	ND<2
B-2:9	7/26/04	8' - 12'	**14**	ND<2	ND<2	ND<2	8
B-2:22	7/26/04	22' - 26'	ND<2	ND<2	ND<2	ND<2	ND<2
B-2:36	7/26/04	36' - 40'	ND<2	ND<2	ND<2	ND<2	ND<2
B-3:9	7/26/04	8' - 12'	**410**	ND<2	ND<2	ND<2	ND<2
B-3:22	7/26/04	22' - 26'	ND<2	ND<2	ND<2	ND<2	ND<2
B-3:36	7/26/04	36' - 40'	ND<2	ND<2	ND<2	ND<2	ND<2
B-4:9	7/23/04	8' - 12'	**1900**	**210**	**160**	ND<2	ND<2
B-4:22	7/23/04	22' - 26'	ND<2	ND<2	ND<2	ND<2	ND<2
B-4:36	7/23/04	36' - 40'	ND<2	ND<2	ND<2	ND<2	ND<2
B-5:9	7/26/04	8' - 12'	4	ND<2	ND<2	ND<2	ND<2
B-5:22	7/26/04	22' - 26'	ND<2	ND<2	ND<2	ND<2	ND<2
B-5:36	7/26/04	36' - 40'	ND<2	ND<2	ND<2	ND<2	ND<2
B-6:9	7/22/04	8' - 12'	**9**	ND<2	ND<2	ND<2	ND<2
B-6:22	7/22/04	22' - 26'	ND<2	ND<2	ND<2	ND<2	ND<2
B-6:36	7/22/04	36' - 40'	ND<2	ND<2	ND<2	ND<2	ND<2
B-7:9	7/23/04	8' - 12'	4	ND<2	ND<2	ND<2	ND<2
B-7:22	7/23/04	22' - 26'	ND<2	ND<2	ND<2	ND<2	ND<2
B-7:36	7/23/04	36' - 40'	ND<2	ND<2	ND<2	ND<2	ND<2
B-8:9	7/23/04	8' - 12'	**5**	ND<2	ND<2	ND<2	ND<2
B-8:22	7/23/04	22' - 26'	ND<2	ND<2	ND<2	ND<2	ND<2
B-8:32	7/23/04	32' - 36'	ND<2	ND<2	ND<2	ND<2	ND<2
B-9:9	7/23/04	8' - 12'	3	ND<2	ND<2	ND<2	ND<2
B-9:22	7/23/04	22' - 26'	ND<2	ND<2	ND<2	ND<2	ND<2
B-9:36	7/23/04	36' - 40'	ND<2	ND<2	ND<2	ND<2	ND<2
B-10	10/25/04	20' - 24'	**23**	ND<2	ND<2	ND<2	ND<2
B-11	10/25/04	20' - 24'	**18**	ND<2	ND<2	3	ND<2
B-12	10/25/04	20' - 24'	**8**	ND<2	ND<2	ND<2	ND<2
B-13	10/25/04	10' - 14'	**18**	ND<2	ND<2	ND<2	ND<2
B-14	10/25/04	10' - 14'	**16**	ND<2	ND<2	ND<2	ND<2
B-16	10/26/04	10' - 14'	**30**	ND<2	ND<2	ND<2	ND<2
MW-1(DTW - 9.56)	7/22/04	5' - 15'	4	ND<2	ND<2	ND<2	ND<2
MTCA Method A Ground Water Cleanup Level			**5**	**5**	**NV**	**NV**	**200**
MTCA Method B Ground Water Cleanup Level			**0.858**	**3.98**	**80**	**7.17**	**7200**

Bold - Detected concentration exceeds the MTCA Method A or B Ground Water Cleanup Level
ND - Not detected above compound specific laboratory detection limit.
Trans-1,2-dichloroethylene, vinyl chloride and all other EPA Method 8260 HVOCs were ND for all ground water samples submitted for laboratory anaylsis
NV - No Value
DTW -Depth To Water

Table 4
Nitrate, Sulfate, Iron, Manganese and Total Organic Carbon
in Ground Water in micrograms/liter
On-site Chlorinated VOC Nature and Extent Investigation
18300 Bothell Way NE, Bothell, Washington

Sample Location	Date Collected	Screened Interval	Nitrate[(a)]	Sulfate[(a)]	Dissolved Iron[(b)]	Dissolved Manganese[(b)]	Total Organic Carbon[(c)]
B-1:9	7/22/04	8' - 12'	**9,000**	12,000	**330**	49	4.3
B-6:9	7/22/04	8' - 12'	**14,000**	13,000	30	**81**	1.7
B-9:9	7/23/04	8' - 12'	**11,000**	10,000	40	39	5.2
MTCA Method B Ground Water Cleanup Level			**1,600**	**NV**	**NV**	**2,240**	**NV**
WA State Maximum Contaminant Level for Drinking Water[(d)]			**10,000**	**250,000**	**300**	**50**	**NV**

Bold - Exceeds MTCA Method B Ground Water Cleanup Level or WA State MCL for drinking water
(a) - Analyzed using EPA Method 300.0
(b) - Analyzed using EPA Method 6010
(c) - Analyzed using EPA Method 415.2
(d) - For reference only when MTCA Method B Ground Water Cleanup Level is not available
NV - No Value



KEY

SOURCE: USGS 7.5 MINUTE QUANDRANGLE (TOPOGRAPHIC)

BOTHELL, WASHINGTON
1953 (PHOTOREVISED 1981)

SCALE = 1:24,000

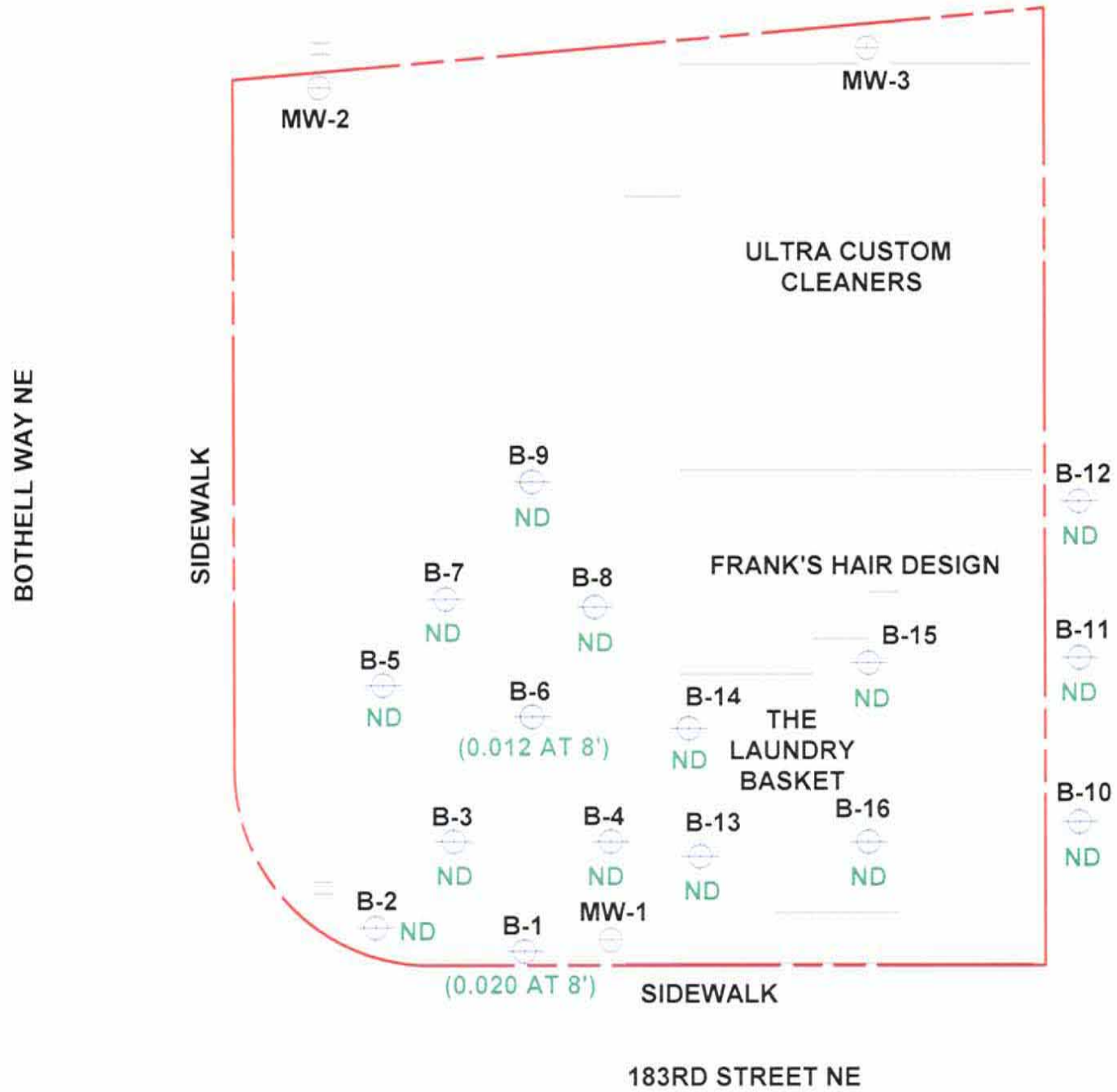
ENVIRONMENTAL PARTNERS INC

295 N.E. Gilman Boulevard, Suite 203
Issaquah, Washington 98027

FIGURE 1

GENERAL VICINITY MAP

PROJECT	46101.0		
PREPARED FOR	CASE PROPERTIES		
LOCATION	18300 BOTHELL WAY NE BOTHELL WASHINGTON		
SHEET	DRAWN BY	REVIEWED BY	DATE
1 of 1	JS	DK	11/24/04



KEY

- BORING LOCATIONS
- SUBJECT PROPERTY BOUNDARY
- MONITORING WELL LOCATIONS
- 0.023 PCE CONCENTATION IN SOIL (MG/KG)
- APPROXIMATE STORM DRAIN LOCATIONS

ND NOT DETECTED ABOVE COMPOUND SPECIFIC LABORATORY DETECTION LIMIT

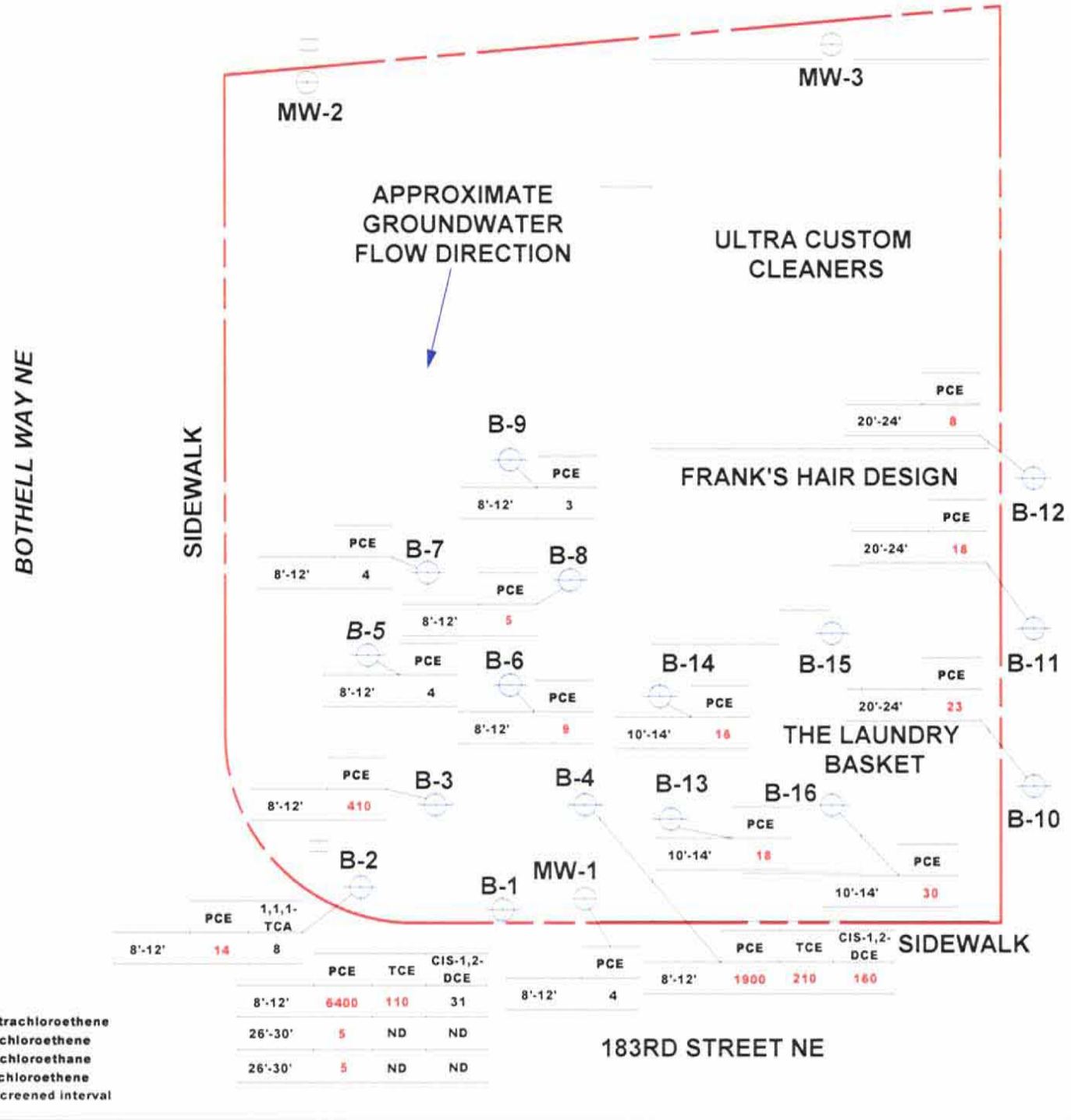
0 5 10 20
SCALE 1" = 20'

ENVIRONMENTAL PARTNERS INC
295 N.E. Gilman Blvd. and Suite 201
Issaquah, Washington 98027

FIGURE 2

BORING LOCATIONS WITH TETRACHLOROETHENE CONCENTATIONS IN SOIL (MG/KG)

PROJECT	46101.0		
PREPARED FOR	CASE PROPERTIES		
LOCATION	18300-18304 BOTHELL WAY NE BOTHELL WASHINGTON		
SHEET 1 of 1	DRAWN BY JS	REVIEWED BY DK	DATE 11/29/04



PCE - tetrachloroethene
TCE - trichloroethene
TCA - trichloroethane
DCE - dichloroethene
8'-12' - screened interval

KEY
- BORING LOCATIONS
- SUBJECT PROPERTY BOUNDARY
- MONITORING WELL LOCATIONS
- 14 CONCENTRATIONS IN µg/L. RED INDICATES MTCA METHOD A OR B EXCEEDANCE
- APPROXIMATE STORM DRAIN LOCATIONS
- ND NOT DETECTED ABOVE COMPOUND SPECIFIC LABORATORY DETECTION LIMIT

SCALE 1" = 20'

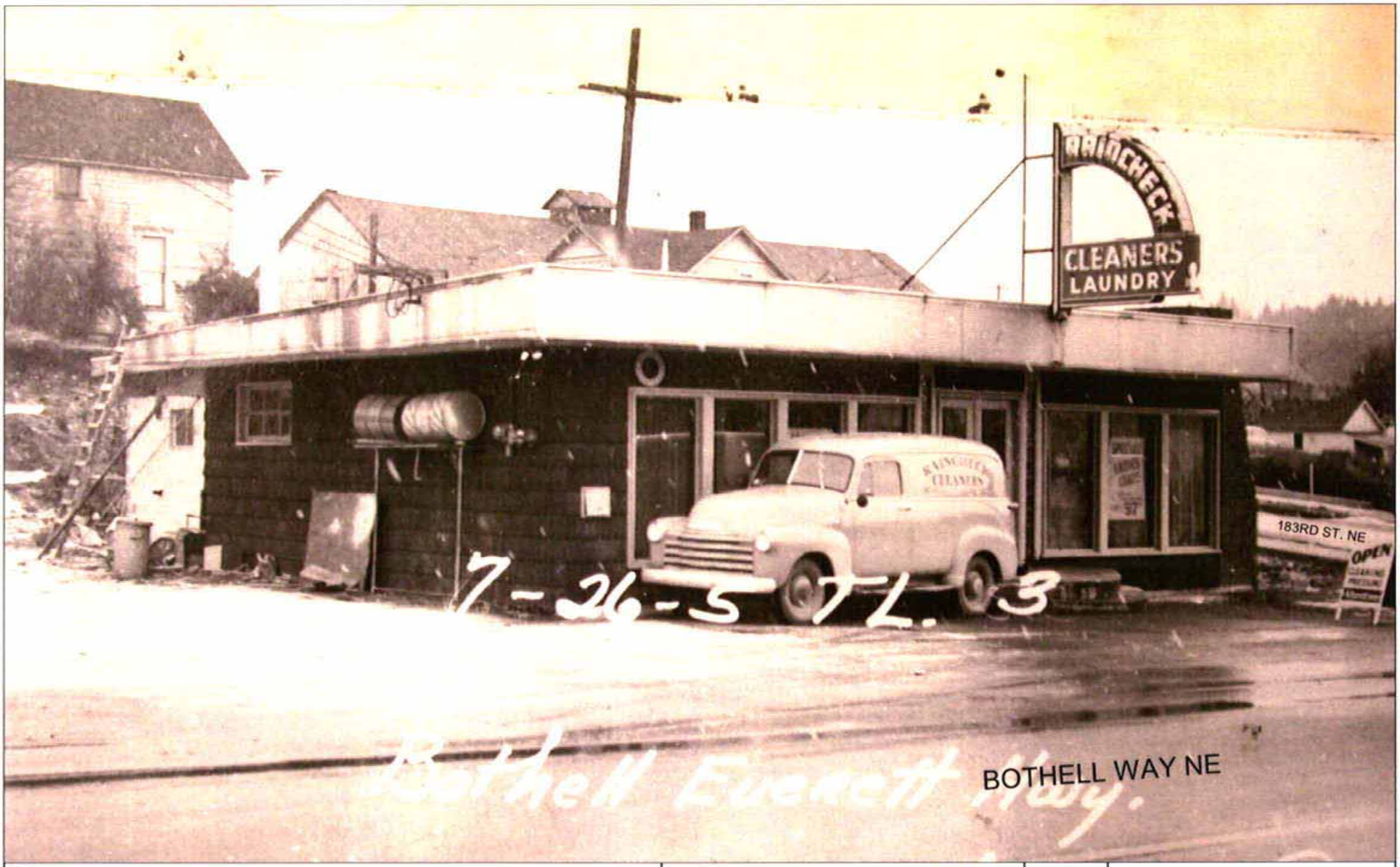
ENVIRONMENTAL PARTNERS INC
293 NE Gilman Boulevard, Suite 202
Issaquah, Washington 98027

FIGURE 3

BORING LOCATIONS WITH HVOC CONCENTATIONS IN GROUNDWATER (µg/L)

PROJECT	46101.0		
PREPARED FOR	CASE PROPERTIES		
LOCATION	18300-18304 BOTHELL WAY NE BOTHELL WASHINGTON		
SHEET 1 of 1	DRAWN BY JS	REVIEWED BY DK	DATE 11/29/04

Attachment A



KEY

SOURCE: PUGET SOUND REGIONAL ARCHIVES

ENVIRONMENTAL PARTNERS INC
245 N.E. Gilman Boulevard, Suite 201
Issaquah, Washington 98027

RAINCHECK DRY CLEANERS
(CONSTRUCTED IN 1948)

PROJECT	46101.0		
PREPARED FOR	CASE PROPERTIES		
LOCATION	18300 BOTHELL WAY NE BOTHELL, WASHINGTON		
SHEET 1 of 1	DRAWN BY JS	REVIEWED BY DK	DATE 11/24/04

Attachment B

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: B-1

Client: Case Properties
Logged By: Jerry Sawetz
Date of Drilling: 7/22/04
Location: 18300 Bothell Way NE

Drilling Contractor: Cascade Drilling, Inc.
Method: Direct Push Technology
Drill Rig: Strataprobe
Borehole: 2-inch from 0' to 32' / 1-inch from 32' to 44'

Depth	Log	USCS Code	Description	Interval	Recovery	Sample	PID (ppm)	Sheen	Well Data	Comments
			Ground Surface							
0–1			***Asphalt***							
2–4		SM	***Silty Sand*** Light brown; very moist; mostly fine to medium sand with silt and trace gravel; no odor.				1.0			
5–12		SW	***Well Graded Sand*** Brownish-gray; moist; fine to medium sand; no odor.			B-1:8' at 900	1.8			GW sample B-1:9 at 920
12–24			Wet with trace gravel; no odor.				45.3			
16							250			
20							3.2			
24–28		GP	***Well Graded Sand With Gravel*** Brownish-gray; wet; fine to medium sand with gravel; no odor.				0.6			GW sample B-1:26 at 1030
28–36		SW	***Well Graded Sand*** Brownish-gray; wet; fine to medium sand with trace gravel; no odor.				1.2			
32							2.5			
36–40		GP	***Well Graded Sand With Gravel*** Brownish-gray; wet; fine to medium sand with gravel; no odor.				2.6			
40–44		GM	***Sandy Silt With Gravel*** Gray; wet; mostly silt with fine sand and gravel; no odor.				4.2			GW sample B-1:40 at 1400
44			End of Borehole				4.5			

Project No.: 46101.0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: B-2

Client: Case Properties	***Drilling Contractor:*** Cascade Drilling, Inc.
Logged By: Jerry Sawetz	***Method:*** Direct Push Technology
Date of Drilling: 7/26/04	***Drill Rig:*** Strataprobe
Location: 18300 Bothell Way NE	***Borehole:*** 2-inch

Depth	SUBSURFACE PROFILE: Log	USCS Code	Description	SAMPLE: Interval	Recovery	Sample	PID (ppm)	Sheen	Well Data	Comments
			Ground Surface							
0–1			*Asphalt*							
2–4		SW	***Well Graded Sand*** Brownish-orange; slightly moist; mostly fine to medium sand with trace gravel; no odor.				3.2			
5–8		GW	***Well Graded Sand With Gravel*** Brownish-gray; moist; mostly fine to medium sand with gravel; no odor.			B-2:8' at 1125	6.8			
9–12		SW	***Well Graded Sand*** Brownish-gray; becomes wet at 9'; mostly fine to medium sand with trace gravel; no odor.				7.4			GW sample B-2:9 at 1140
22–23										GW sample B-2:22 at 1215
36–37										GW sample B-2:36 at 1300
38–39			Silt layer encountered at approximately 40' below grade.							
40			End of Borehole							

Project No.: 46101.0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: B-3

Client: Case Properties	***Drilling Contractor:*** Cascade Drilling, Inc.
Logged By: Jerry Sawetz	***Method:*** Direct Push Technology
Date of Drilling: 7/26/04	***Drill Rig:*** Strataprobe
Location: 18300 Bothell Way NE	***Borehole:*** 2-inch

Depth	SUBSURFACE PROFILE: Log	USCS Code	Description	SAMPLE: Interval	Recovery	Sample	PID (ppm)	Sheen	Well Data	Comments
0			Ground Surface							
1			*Asphalt*							
2		SM	*Silty Sand*							
3			Light brown; slightly moist; mostly fine sand with silt and trace gravel; no odor.							
4							2.0			
5			*Well Graded Sand*							
6		SW	Brownish-gray; slightly moist; mostly fine to medium coarse-grained sand with trace gravel; no odor.			B-3:8' at 930				
7										
8							4.6			
9			Becomes wet at 9'.							GW sample B-3:9 at 945
10										
11										
12							3.4			
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										GW sample B-3:22 at 1020
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										GW sample B-3:36 at 1045
37										
38			Silt layer encountered at approximately 40' below grade.							
39										
40			End of Borehole							
41										
42										
43										
44										
45										
46										

Project No.: 46101.0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: B-4

Client: Case Properties	***Drilling Contractor:*** Cascade Drilling, Inc.
Logged By: Jerry Sawetz	***Method:*** Direct Push Technology
Date of Drilling: 7/23/04	***Drill Rig:*** Strataprobe
Location: 18300 Bothell Way NE	***Borehole:*** 2-inch

Depth	SUBSURFACE PROFILE: Log	USCS Code	Description	SAMPLE: Interval	Recovery	Sample	PID (ppm)	Sheen	Well Data	Comments
			Ground Surface							
0–1			*Asphalt*							
1–4		GP	***Well Graded Sand With Gravel*** Brownish-orange; slightly moist; mostly fine to medium sand with gravel; no odor.				1.4			
4–12		SW	***Well Graded Sand*** Multi-colored; slightly moist; mostly fine to medium sand; no odor.			B-4:8' at 1440	1.5			
8–12			Becomes wet at 9'.				1.7			GW sample B-4:9 at 1505
22										GW sample B-4:22 at 1540
36										GW sample B-4:36 at 1610
38–39			Silt layer encountered at approximately 40' below grade.							
40			End of Borehole							

Project No.: 46101.0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: B-5

Client: Case Properties	***Drilling Contractor:*** Cascade Drilling, Inc.
Logged By: Jerry Sawetz	***Method:*** Direct Push Technology
Date of Drilling: 7/26/04	***Drill Rig:*** Strataprobe
Location: 18300 Bothell Way NE	***Borehole:*** 2-inch

Depth	SUBSURFACE PROFILE: Log	USCS Code	Description	SAMPLE: Interval	Recovery	Sample	PID (ppm)	Sheen	Well Data	Comments
0			Ground Surface							
1			*Asphalt*							
2–8		GP	***Well Graded Sand With Gravel*** Brownish-orange; slightly moist; mostly fine to medium coarse-grained sand with gravel; no odor.			B-5:8' at 730	1.7			
8–12		SW	***Well Graded Sand*** Multi-colored; becomes wet at 9'; mostly fine to medium coarse-grained sand; no odor.				3.1			GW sample B-5:9 at 750
12							2.9			
22										GW sample B-5:22 at 815
36										GW sample B-5:36 at 855
39–40			Silt layer encountered at approximately 40' below grade.							
40			End of Borehole							

Project No.: 46101.0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: B-6

Client: Case Properties	***Drilling Contractor:*** Cascade Drilling, Inc.
Logged By: Jerry Sawetz	***Method:*** Direct Push Technology
Date of Drilling: 7/22/04	***Drill Rig:*** Strataprobe
Location: 18300 Bothell Way NE	***Borehole:*** 2-inch

Depth	SUBSURFACE PROFILE: Log	USCS Code	Description	SAMPLE: Interval	Recovery	Sample	PID (ppm)	Sheen	Well Data	Comments
0			Ground Surface							
1			***Asphalt***							
2–3		SW	***Well Graded Sand*** Grayish-brown; slightly moist; mostly fine to medium sand with trace gravel; no odor.							
4							2.5			
5–7		GW	***Well Graded Sand With Gravel*** Brownish-orange; moist; mostly fine to medium sand with gravel; no odor.			B-6:8' at 1440				
8							2.2			
9–11			Becomes wet at 9'; coarse-grained sand.							GW sample B-6:9 at 1450
12							2.2			
22–23										GW sample B-6:22 at 1520
36–37										GW sample B-6:36 at 1600
38–39			Silt layer encountered at approximately 40' below grade.							
40			End of Borehole							

Project No.: 46101.0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: B-7

Client: Case Properties	***Drilling Contractor:*** Cascade Drilling, Inc.
Logged By: Jerry Sawetz	***Method:*** Direct Push Technology
Date of Drilling: 7/23/04	***Drill Rig:*** Strataprobe
Location: 18300 Bothell Way NE	***Borehole:*** 2-inch

Depth	SUBSURFACE PROFILE: Log	USCS Code	Description	SAMPLE: Interval	Recovery	Sample	PID (ppm)	Sheen	Well Data	Comments
0			Ground Surface							
1			*Asphalt*							
2–4		SW	*Well Graded Sand* Multi-colored; slightly moist; mostly fine to medium sand with trace gravel; no odor.				1.0			
5–8						B-7:8' at 1250	2.5			
9–12			Becomes wet at 9'; coarse-grained sand.				2.3			GW sample B-7:9 at 1310
22										GW sample B-7:22 at 1340
36–39			Silt layer encountered at approximately 40' below grade.							GW sample B-7:36 at 1415
40			End of Borehole							

Project No.: 46101.0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: B-8

Client: Case Properties	***Drilling Contractor:*** Cascade Drilling, Inc.
Logged By: Jerry Sawetz	***Method:*** Direct Push Technology
Date of Drilling: 7/23/04	***Drill Rig:*** Strataprobe
Location: 18300 Bothell Way NE	***Borehole:*** 2-inch

Depth	SUBSURFACE PROFILE: Log	USCS Code	Description	SAMPLE: Interval	Recovery	Sample	PID (ppm)	Sheen	Well Data	Comments
0			Ground Surface							
1			*Asphalt*							
2–4		SW	***Well Graded Sand*** Multi-colored; slightly moist; mostly fine to medium sand with trace gravel; no odor.				1.6			
5–8						B-8:8' at 1045	0.7			
9–12			Becomes wet at 9'; coarse-grained sand.				2.3			GW sample B-8:9 at 1100
22										GW sample B-8:22 at 1130
32										GW sample B-8:32 at 1220
36–40			Silt layer encountered between 36' and 40' below grade. Groundwater sample was collected from the 32' to 36' interval due to the high silt content present in groundwater at the 36' to 40' interval.							
			End of Borehole							

Project No.: 46101.0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: B-9

Client: Case Properties	***Drilling Contractor:*** Cascade Drilling, Inc.
Logged By: Jerry Sawetz	***Method:*** Direct Push Technology
Date of Drilling: 7/23/04	***Drill Rig:*** Strataprobe
Location: 18300 Bothell Way NE	***Borehole:*** 2-inch

Depth	SUBSURFACE PROFILE: Log	USCS Code	Description	SAMPLE: Interval	Recovery	Sample	PID (ppm)	Sheen	Well Data	Comments
0			Ground Surface							
1			*Asphalt*							
2		SW	*Well Graded Sand* Multi-colored; slightly moist; mostly fine to medium sand with trace gravel; no odor.							
3										
4							1.2			
5										
6						B-9:8' at 800				
7										
8							1.6			
9			Becomes wet at 9'; coarse-grained sand.							GW sample B-9:9 at 820
10										
11										
12							1.7			
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										GW sample B-6:22 at 900
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										GW sample B-6:36 at 930
37										
38			Silt layer encountered at approximately 40' below grade.							
39										
40			End of Borehole							
41										
42										
43										
44										
45										
46										

Project No.: 46101.0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: B-10

Client: Case Properties	***Drilling Contractor:*** Cascade Drilling, Inc.
Logged By: Jerry Sawetz	***Method:*** Direct Push Technology
Date of Drilling: 10/25/04	***Drill Rig:*** Strataprobe
Location: 18300 Bothell Way NE	***Borehole:*** 2-inch

Depth	SUBSURFACE PROFILE: Log	USCS Code	Description	SAMPLE: Interval / Recovery	Sample	PID (ppm)	Sheen	Well Data	Comments
0			Ground Surface						
1			***Organic Soil*** Dark brown; moist with roots.						
2–4		SW	***Well Graded Sand With Gravel*** Brownish-gray; moist; mostly fine to medium sand with gravel and trace silt; no odor.			0.0			
6–8		SP	***Poorly Graded Sand*** Light brown; moist; fine and medium sands with trace gravel and silt; no odor.			0.0			
8–20		SW	***Well Graded Sand With Gravel*** Brown; slightly moist; mostly fine to medium sand with gravel and trace silt; no odor.			0.0			
12						0.0			
16						0.0			
18					B-10:19 at 1845				
20			Becomes wet at 19.5'			0.0			B-10 at 1915
24			End of Borehole						

Project No.: 46101.0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: B-11

Client: Case Properties	***Drilling Contractor:*** Cascade Drilling, Inc.
Logged By: Jerry Sawetz	***Method:*** Direct Push Technology
Date of Drilling: 10/25/04	***Drill Rig:*** Strataprobe
Location: 18300 Bothell Way NE	***Borehole:*** 2-inch

Depth	SUBSURFACE PROFILE: Log	USCS Code	Description	SAMPLE: Interval	Recovery	Sample	PID (ppm)	Sheen	Well Data	Comments
			Ground Surface							
0–1			***Organic Soil*** Dark brown; moist with roots.							
2–3		SW	***Well Graded Sand With Gravel*** Brown; slightly moist; mostly fine to medium sand with gravel and trace silt; no odor.							
4							0.0			
8							0.0			
12							0.0			
16							0.0			
18						B-11:19 at 2000				
20			Becomes wet at 20'				0.0			B-11 at 2015
24			End of Borehole							

Project No.: 46101.0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: B-13

Client: Case Properties	***Drilling Contractor:*** Cascade Drilling, Inc.
Logged By: Jerry Sawetz	***Method:*** Direct Push Technology
Date of Drilling: 10/25/04	***Drill Rig:*** Strataprobe
Location: 18300 Bothell Way NE	***Borehole:*** 2-inch

Depth	SUBSURFACE PROFILE: Log	USCS Code	Description	SAMPLE: Interval	Recovery	Sample	PID (ppm)	Sheen	Well Data	Comments
0			Ground Surface							
			Concrete and Tile							
1–14		SW	***Well Graded Sand With Gravel*** Brownish-gray; moist; mostly fine and medium sands with gravel and trace silt; no odor.							
4							0.0			
8							0.0			
10						B-13:10 at 2250				
11			Becomes wet at 11'							B-13 at 2315
12							0.0			
14			End of Borehole							

Project No.: 46101.0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: B-14

Client: Case Properties	***Drilling Contractor:*** Cascade Drilling, Inc.
Logged By: Jerry Sawetz	***Method:*** Direct Push Technology
Date of Drilling: 10/25/04	***Drill Rig:*** Strataprobe
Location: 18300 Bothell Way NE	***Borehole:*** 2-inch

Depth	SUBSURFACE PROFILE: Log	USCS Code	Description	SAMPLE: Interval	Recovery	Sample	PID (ppm)	Sheen	Well Data	Comments
0			Ground Surface							
			Concrete and Tile							
1			*Well Graded Sand With Gravel* Brownish-gray; moist; mostly fine and medium sands with gravel and trace silt; no odor.							
2		SW								
3										
4							0.0			
5										
6										
7										
8							0.0			
9										
10						B-14:10 at 2350				
11			Becomes wet at 11'							B-14 at 0010
12							0.0			
13										
14			End of Borehole							
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

Project No.: 46101.0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: B-15

Client: Case Properties	***Drilling Contractor:*** Cascade Drilling, Inc.
Logged By: Jerry Sawetz	***Method:*** Direct Push Technology
Date of Drilling: 10/26/04	***Drill Rig:*** Strataprobe
Location: 18300 Bothell Way NE	***Borehole:*** 2-inch

Depth	SUBSURFACE PROFILE: Log	USCS Code	Description	SAMPLE: Interval	Recovery	Sample	PID (ppm)	Sheen	Well Data	Comments
0			Ground Surface							
			Concrete and Tile							
1			*Well Graded Sand With Gravel* Brownish-gray; moist; mostly fine and medium sands with gravel and trace silt; no odor.							
2		SW								
3										
4							0.0			
			Refusal at 5'			B-5:5 at 0030				
5							0.0			
			End of Borehole							
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

Project No.: 46101.0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: B-16

Client: Case Properties	***Drilling Contractor:*** Cascade Drilling, Inc.
Logged By: Jerry Sawetz	***Method:*** Direct Push Technology
Date of Drilling: 10/26/04	***Drill Rig:*** Strataprobe
Location: 18300 Bothell Way NE	***Borehole:*** 2-inch

Depth	SUBSURFACE PROFILE: Log	USCS Code	Description	SAMPLE: Interval	Recovery	Sample	PID (ppm)	Sheen	Well Data	Comments
0			Ground Surface							
			Concrete and Tile							
1			*Well Graded Sand With Gravel*							
2		SW	Brownish-gray; moist; mostly fine and medium sands with gravel and trace silt; no odor.							
3										
4							0.0			
5										
6										
7										
8							0.0			
9										
10						B-14:10 at 2350				
11			Becomes wet at 11'							B-14 at 0010
12							0.0			
13										
14			End of Borehole							
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

Project No.: 46101.0

Attachment C

CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 1
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-1:8 7/22/04 900

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TETRACHLOROETHYLENE	EPA-8260	20	UG/KG	7/29/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	7/29/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 1
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-1:8 7/22/04 900

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	7/29/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 15
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-2:8 7/26/04 1125

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	8/9/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN

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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 15
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-2:8 7/26/04 1125

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	8/9/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 11
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-3:8 7/26/04 930

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	8/6/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 11
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-3:8 7/26/04 930

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	8/6/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 3
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-4:8 7/23/04 1440

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	8/6/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 3
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-4:8 7/23/04 1440

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	8/6/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 7
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-5:8 7/26/04 730

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	8/6/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 7
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-5:8 7/26/04 730

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	8/6/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 5
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-6:8 7/22/04 1440

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TETRACHLOROETHYLENE	EPA-8260	12	UG/KG	7/29/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	7/29/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 5
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-6:8 7/22/04 1440

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	7/29/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 17
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-7:8 7/23/04 1250

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	7/29/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 17
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-7:8 7/23/04 1250

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	7/29/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ra

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 14
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-8:8 7/23/04 1045

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	8/4/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 14
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-8:8 7/23/04 1045

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	8/4/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 10
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-9:8 7/23/04 800

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	7/29/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 10
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-9:8 7/23/04 800

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	7/29/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 7
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-13:10 10/25/04 2250

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	10/28/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN

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CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 7
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-13:10 10/25/04 2250

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	10/28/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 9
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-14:10 10/25/04 2350

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	10/28/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 9
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-14:10 10/25/04 2350

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	10/28/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

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APPROVED BY: C Ruf

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 11
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-15:5 10/26/04 0030

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	10/28/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 11
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-15:5 10/26/04 0030

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	10/28/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 12
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-16:10 10/26/04 0100

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	10/28/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 12
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-16:10 10/26/04 0100

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	10/28/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Pat

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CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 2
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-1:9 7/22/04 920

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/2/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	31	UG/L	8/6/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TRICHLOROETHENE	EPA-8260	110	UG/L	8/6/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TETRACHLOROETHYLENE	EPA-8260	6400	UG/L	8/6/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN

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CCI
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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 2
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-1:9 7/22/04 920

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/2/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
NITRATE	EPA-300.0	9.0	MG/L	7/23/04	RAB
SULFATE	EPA-300.0	12	MG/L	7/23/04	RAB
DISSOLVED IRON	EPA-6010	0.33	MG/L	7/26/04	RAB
DISSOLVED MANGANESE	EPA-6010	0.049	MG/L	7/26/04	RAB
TOTAL ORGANIC CARBON	EPA-415.2	4.3	MG/L	8/2/04	ARI

NOTE: EPA-8260 DILUTION ANALYSIS DATED 8/6/04 PERFORMED ONE DAY OUTSIDE OF HOLD TIME.

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

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APPROVED BY: C Ruf

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 3
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-1:26 7/22/04 1030

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/2/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TETRACHLOROETHYLENE	EPA-8260	5	UG/L	8/2/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 3
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-1:26 7/22/04 1030

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/2/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 4
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-1:40 7/22/04 1400

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/2/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TETRACHLOROETHYLENE	EPA-8260	5	UG/L	8/2/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 4
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-1:40 7/22/04 1400

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/2/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

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APPROVED BY: C Ruf

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 16
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-2:9 7/26/04 1140

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/9/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	8	UG/L	8/9/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TETRACHLOROETHYLENE	EPA-8260	14	UG/L	8/9/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN

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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 16
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-2:9 7/26/04 1140

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/9/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 17
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-2:22 7/26/04 1215

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/9/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 17
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-2:22 7/26/04 1215

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/9/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 18
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-2:36 7/26/04 1300

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/9/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 18
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-2:36 7/26/04 1300

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/9/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 12
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-3:9 7/26/04 945

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/9/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TETRACHLOROETHYLENE	EPA-8260	410	UG/L	8/9/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 12
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-3:9 7/26/04 945

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/9/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 13
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-3:22 7/26/04 1020

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/9/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN

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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 13
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-3:22 7/26/04 1020

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/9/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ret

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 14
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-3:36 7/26/04 1045

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/9/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 14
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-3:36 7/26/04 1045

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/9/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 4
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-4:9 7/23/04 1505

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/5/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	160	UG/L	8/6/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROETHENE	EPA-8260	210	UG/L	8/6/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TETRACHLOROETHYLENE	EPA-8260	1900	UG/L	8/6/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 4
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-4:9 7/23/04 1505

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/5/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

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APPROVED BY: C Ret

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 5
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-4:22 7/23/04 1540

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/5/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 5
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-4:22 7/23/04 1540

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/5/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 6
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-4:36 7/23/04 1610

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/5/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

8620 Holly Drive • Everett, WA 98208 • 425 356-2600 • FAX 425 356-2626 • Seattle 206 292-9059

CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 6
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-4:36 7/23/04 1610

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/5/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 8
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-5:9 7/26/04 750

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/8/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
TETRACHLOROETHYLENE	EPA-8260	4	UG/L	8/8/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 8
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-5:9 7/26/04 750

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/8/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

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APPROVED BY: C Ruf

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 9
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-5:22 7/26/04 815

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/8/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 9
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-5:22 7/26/04 815

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/8/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ph

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 10
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-5:36 7/26/04 855

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/9/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 10
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-5:36 7/26/04 855

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/9/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ret

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CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 6
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-6:9 7/22/04 1450

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/4/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TETRACHLOROETHYLENE	EPA-8260	9	UG/L	8/4/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN

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CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 6
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-6:9 7/22/04 1450

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/4/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
NITRATE	EPA-300.0	14	MG/L	7/23/04	RAB
SULFATE	EPA-300.0	13	MG/L	7/23/04	RAB
DISSOLVED IRON	EPA-6010	0.03	MG/L	7/26/04	RAB
DISSOLVED MANGANESE	EPA-6010	0.081	MG/L	7/26/04	RAB
TOTAL ORGANIC CARBON	EPA-415.2	1.7	MG/L	8/2/04	ARI

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

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APPROVED BY: C Ret

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 7
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-6:22 7/22/04 1520

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/4/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 7
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-6:22 7/22/04 1520

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/4/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN

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APPROVED BY: C Ruff

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 8
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-6:36 7/22/04 1600

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/4/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 8
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-6:36 7/22/04 1600

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/4/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

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APPROVED BY: C Ruf

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 19
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-7:9 7/23/04 1310

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/5/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TETRACHLOROETHYLENE	EPA-8260	4	UG/L	8/5/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 19
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-7:9 7/23/04 1310

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/5/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 1
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-7:22 7/23/04 1340

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/5/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 1
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-7:22 7/23/04 1340

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/5/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 2
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-7:36 7/23/04 1415

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/5/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 2
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-7:36 7/23/04 1415

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/5/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 15
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-8:9 7/23/04 1100

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/4/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TETRACHLOROETHYLENE	EPA-8260	5	UG/L	8/4/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 15
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-8:9 7/23/04 1100

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/4/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ra

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 16
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-8:22 7/23/04 1130

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/5/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

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CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 16
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-8:22 7/23/04 1130

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/5/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Rat

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CCI
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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 18
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-8:32 7/23/04 1220

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/5/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 18
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-8:32 7/23/04 1220

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/5/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 11
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-9:9 7/23/04 820

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/4/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TETRACHLOROETHYLENE	EPA-8260	3	UG/L	8/4/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1.2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 11
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-9:9 7/23/04 820

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/4/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
NITRATE	EPA-300.0	11	MG/L	7/23/04	RAB
SULFATE	EPA-300.0	10	MG/L	7/23/04	RAB
DISSOLVED IRON	EPA-6010	0.04	MG/L	7/26/04	RAB
DISSOLVED MANGANESE	EPA-6010	0.039	MG/L	7/26/04	RAB
TOTAL ORGANIC CARBON	EPA-415.2	5.2	MG/L	8/2/04	ARI

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ph

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 12
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-9:22 7/23/04 900

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/5/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

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CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 12
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-9:22 7/23/04 900

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/5/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruff

8620 Holly Drive • Everett, WA 98208 • 425 356-2600 • FAX 425 356-2626 • Seattle 206 292-9059

CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 13
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-9:36 7/23/04 930

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/4/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 13
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-9:36 7/23/04 930

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/4/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 2
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-10 10/25/04 1915

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	10/29/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TETRACHLOROETHYLENE	EPA-8260	23	UG/L	10/29/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 2
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-10 10/25/04 1915

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	10/29/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN

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CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 4
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-11 10/25/04 2015

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	10/29/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROFORM	EPA-8260	3	UG/L	10/29/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TETRACHLOROETHYLENE	EPA-8260	18	UG/L	10/29/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN

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CERTIFICATE OF ANALYSIS

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295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 4
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-11 10/25/04 2015

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	10/29/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 6
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-12 10/25/04 2130

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	10/29/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TETRACHLOROETHYLENE	EPA-8260	8	UG/L	10/29/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN

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ISSAQUAH, WA 98027

DATE: 11/8/04
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CCIL SAMPLE #: 6
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WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-12 10/25/04 2130

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	10/29/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ref

8620 Holly Drive • Everett, WA 98208 • 425 356-2600 • FAX 425 356-2626 • Seattle 206 292-9059

CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 8
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-13 10/25/04 2315

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	10/29/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TETRACHLOROETHYLENE	EPA-8260	18	UG/L	10/29/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN

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CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 8
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-13 10/25/04 2315

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	10/29/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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CCI
ANALYTICAL
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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 10
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-14 10/26/04 0010

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	11/1/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
TETRACHLOROETHYLENE	EPA-8260	16	UG/L	11/1/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN

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CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 10
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-14 10/26/04 0010

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	11/1/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 13
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-16 10/26/04 0115

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	11/1/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
TETRACHLOROETHYLENE	EPA-8260	30	UG/L	11/1/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN

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CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 13
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-16 10/26/04 0115

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	11/1/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Ruf

8620 Holly Drive • Everett, WA 98208 • 425 356-2600 • FAX 425 356-2626 • Seattle 206 292-9059

CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 9
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: MW-1 7/22/04 1310

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/4/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TETRACHLOROETHYLENE	EPA-8260	4	UG/L	8/4/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN

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CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 9
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: MW-1 7/22/04 1310

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/4/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: C Pat

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CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102

DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0

DATA RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
407102-01	EPA-8260	1,2-DCE-d4	104
407102-01	EPA-8260	4-BFB	113
407102-02	EPA-8260	1,2-DCE-d4	106
407102-02	EPA-8260	4-BFB	107
407102-03	EPA-8260	1,2-DCE-d4	113
407102-03	EPA-8260	4-BFB	91
407102-04	EPA-8260	1,2-DCE-d4	104
407102-04	EPA-8260	4-BFB	115
407102-03 (DILUTION)	EPA-8260	1,2-DCE-d4	99
407102-03 (DILUTION)	EPA-8260	4-BFB	99
407102-05	EPA-8260	1,2-DCE-d4	100
407102-05	EPA-8260	4-BFB	104
407102-06	EPA-8260	1,2-DCE-d4	104
407102-06	EPA-8260	4-BFB	115
407102-07	EPA-8260	1,2-DCE-d4	108
407102-07	EPA-8260	4-BFB	82
407102-08	EPA-8260	1,2-DCE-d4	102
407102-08	EPA-8260	4-BFB	106
407102-09	EPA-8260	1,2-DCE-d4	103
407102-09	EPA-8260	4-BFB	101
407102-10	EPA-8260	1,2-DCE-d4	101
407102-10	EPA-8260	4-BFB	110
407102-11	EPA-8260	1,2-DCE-d4	107
407102-11	EPA-8260	4-BFB	84

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102

DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0

DATA RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
407102-12	EPA-8260	1,2-DCE-d4	103
407102-12	EPA-8260	4-BFB	101
407102-12 (TETRACHLOROETHENE)	EPA-8260	1,2-DCE-d4	103
407102-12 (TETRACHLOROETHENE)	EPA-8260	4-BFB	107
407102-13	EPA-8260	1,2-DCE-d4	99
407102-13	EPA-8260	4-BFB	107
407102-14	EPA-8260	1,2-DCE-d4	103
407102-14	EPA-8260	4-BFB	98
407102-15	EPA-8260	1,2-DCE-d4	104
407102-15	EPA-8260	4-BFB	106
407102-16	EPA-8260	1,2-DCE-d4	101
407102-16	EPA-8260	4-BFB	110
407102-17	EPA-8260	1,2-DCE-d4	104
407102-17	EPA-8260	4-BFB	108
407102-18	EPA-8260	1,2-DCE-d4	102
407102-18	EPA-8260	4-BFB	115

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098

DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0

DATA RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
407098-01	EPA-8260	1,2-DCE-d4	98
407098-01	EPA-8260	4-BFB	103
407098-02	EPA-8260	1,2-DCE-d4	100
407098-02	EPA-8260	4-BFB	130
407098-02 (CIS-1,2-DICHLOROETHENE, TRICHLOROETHENE)	EPA-8260	1,2-DCE-d4	98
407098-02 (CIS-1,2-DICHLOROETHENE, TRICHLOROETHENE)	EPA-8260	4-BFB	104
407098-02 (TETRACHLOROETHENE)	EPA-8260	1,2-DCE-d4	102
407098-02 (TETRACHLOROETHENE)	EPA-8260	4-BFB	113
407098-03	EPA-8260	1,2-DCE-d4	102
407098-03	EPA-8260	4-BFB	114
407098-04	EPA-8260	1,2-DCE-d4	100
407098-04	EPA-8260	4-BFB	128
407098-05	EPA-8260	1,2-DCE-d4	99
407098-05	EPA-8260	4-BFB	106
407098-06	EPA-8260	1,2-DCE-d4	104
407098-06	EPA-8260	4-BFB	100
407098-07	EPA-8260	1,2-DCE-d4	102
407098-07	EPA-8260	4-BFB	107
407098-08	EPA-8260	1,2-DCE-d4	101
407098-08	EPA-8260	4-BFB	99
407098-09	EPA-8260	1,2-DCE-d4	103
407098-09	EPA-8260	4-BFB	104
407098-10	EPA-8260	1,2-DCE-d4	94
407098-10	EPA-8260	4-BFB	112
407098-11	EPA-8260	1,2-DCE-d4	105
407098-11	EPA-8260	4-BFB	100

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0

DATA RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
407098-12	EPA-8260	1,2-DCE-d4	103
407098-12	EPA-8260	4-BFB	102
407098-13	EPA-8260	1,2-DCE-d4	101
407098-13	EPA-8260	4-BFB	96
407098-14	EPA-8260	1,2-DCE-d4	101
407098-14	EPA-8260	4-BFB	125
407098-15	EPA-8260	1,2-DCE-d4	105
407098-15	EPA-8260	4-BFB	103
407098-16	EPA-8260	1,2-DCE-d4	103
407098-16	EPA-8260	4-BFB	105
407098-17	EPA-8260	1,2-DCE-d4	129
407098-17	EPA-8260	4-BFB	119
407098-18	EPA-8260	1,2-DCE-d4	103
407098-18	EPA-8260	4-BFB	111
407098-19	EPA-8260	1,2-DCE-d4	100
407098-19	EPA-8260	4-BFB	100

APPROVED BY: C Ruf

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CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101

DATA RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
410114-02	EPA-8260	1,2-DCE-d4	99
410114-02	EPA-8260	4-BFB	109
410114-04	EPA-8260	1,2-DCE-d4	102
410114-04	EPA-8260	4-BFB	110
410114-06	EPA-8260	1,2-DCE-d4	100
410114-06	EPA-8260	4-BFB	106
410114-07	EPA-8260	1,2-DCE-d4	111
410114-07	EPA-8260	4-BFB	105
410114-08	EPA-8260	1,2-DCE-d4	97
410114-08	EPA-8260	4-BFB	106
410114-09	EPA-8260	1,2-DCE-d4	93
410114-09	EPA-8260	4-BFB	103
410114-10	EPA-8260	1,2-DCE-d4	99
410114-10	EPA-8260	4-BFB	111
410114-11	EPA-8260	1,2-DCE-d4	94
410114-11	EPA-8260	4-BFB	106
410114-12	EPA-8260	1,2-DCE-d4	91
410114-12	EPA-8260	4-BFB	93
410114-13	EPA-8260	1,2-DCE-d4	101
410114-13	EPA-8260	4-BFB	113
410114-13 (TETRACHLOROETHENE)	EPA-8260	1,2-DCE-d4	99
410114-13 (TETRACHLOROETHENE)	EPA-8260	4-BFB	108

APPROVED BY: C Ruf

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Everett, WA 98208
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Chain Of Custody/ Laboratory Analysis Request

b# borat Only

Date 7/23/04 Page 1 Of 2

PROJECT ID: 46101.0
REPORT TO COMPANY: Environmental Partners, Inc
PROJECT MANAGER: Doug Kunkel / Jerry Sawetz
ADDRESS: 295 NE Gilman Blvd #201
Issaquah, WA 98027
PHONE: 425-395-0010 FAX: 425-395-0011
P.O. NUMBER: E-MAIL:
INVOICE TO COMPANY: SAME
ATTENTION: Tom Elsemore
ADDRESS: SAME

ANALYSIS REQUESTED / OTHER (Specify)

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ EPA-8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	Ethylene dibromide (EDB) by EPA-8260 ☐ EPA-504.1 ☐	1,2 Dichloroethene (EDC) by EPA-8260	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM ☐	PCB ☐ Pesticides ☐ by EPA 8081/8082	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	Sulfate + nitrate	Dissolved iron + manganese	Total organic carbon				NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. B-1:8	7/22/04	900	Soil							X																4	
2. B-1:9	↓	920	GW							X										X	X	X					6	
3. B-1:26		1030	GW							X																	2	
4. B-1:40		1400	GW							X																	3	
5. B-6:8		1440	Soil							X																	4	
6. B-6:9		1450	GW							X										X	X	X					6	
7. B-6:22		1520	GW							X																	3	
8. B-6:36		1600	GW							X																	3	
9. MW-1	↓	1310	GW							X																	3	
10. B-9:8	7/23/04	800	Soil							X																	4	

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SPECIAL INSTRUCTIONS

CCI Analytical Laboratories, Inc accepts and processes this request on the terms and conditions set forth on the reverse side. By its signature hereon, Customer accepts these terms and conditions.

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: [illegible] EPI 7/23/04 1330
Received By: [illegible] 1330
2. Relinquished By:
Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: ~~10~~ (Standard) 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis: 5 (Standard) 3 1 SAME DAY

OTHER:
Specify: Metals were field filtered
Soil VOCs collected using EPA Method 5035A

* Turnaround request less than standard may incur Rush Charges

CC[illegible]ytica[illegible] [illegible]ratori[illegible]
8620 Holly Drive
Everett, WA 98208
Phone (425) 356-2600
(206) 292-9059 Seattle
(425) 356-2626 Fax
http://www.ccilabs.com

Chain Of Custody
Laboratory Analysis Request

[illegible]b# [illegible]borat[illegible] Only

Date 7/23 Page 2 Of 2

PROJECT ID:
REPORT TO COMPANY:
PROJECT MANAGER:
ADDRESS: SAME AS PAGE 1
PHONE: FAX:
P.O. NUMBER: E-MAIL:
INVOICE TO COMPANY:
ATTENTION:
ADDRESS:

ANALYSIS REQUESTED / OTHER (Specify)

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ EPA-8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	Ethylene dibromide (EDB) by EPA-8260 ☐ EPA-504.1 ☐	1,2 Dichloroethene (EDC) by EPA-8260	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM ☐	PCB ☐ Pesticides ☐ by EPA 8081/8082	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	Sulfate + nitrate	Dissolved iron + manganese	Total organic carbon				NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. B-9:9	7/23/04	820	GW							X										X	X	X					6	
2. B-9:22		900	GW							X																	2	
3. B-9:36		930	GW							X																	2	
4. B-8:8		1045	Soil							X																	4	
5. B-8:9		1100	GW							X																	2	
6. B-8:22		1130	GW							X																	4	
7. B-7:8		1250	Soil							X																	4	
8. B-8:32		1220	GW							X																	2	
9. B-7:9		1310	GW							X																	2	
10.																												

CLIENT COPY

SPECIAL INSTRUCTIONS

CCI Analytical Laboratories, Inc accepts and processes this request on the terms and conditions set forth on the reverse side. By its signature hereon, Customer accepts these terms and conditions.

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: [illegible] EPI 7/23/04 1330
   Received By: [illegible] 7/23/04 1330
2. Relinquished By:
   Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: ☒ 10 (Standard) ☐ 5 ☐ 3 ☐ 2 ☐ 1 ☐ SAME DAY

Fuels & Hydrocarbon Analysis: ☐ 5 (Standard) ☐ 3 ☐ 1 ☐ SAME DAY

OTHER:
Specify: Metals were field filtered
Soil HVOCs collected using EPA Method 5035A

* Turnaround request less than standard may incur Rush Charges

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8620 Holly Drive
Everett, WA 98208
Phone (425) 356-2600
(206) 292-9059 Seattle
(425) 356-2626 Fax
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Chain Of Custody/ Laboratory Analysis Request

CCI Job# (Laboratory Use Only)

Date 7/26/04 Page 1 Of 2

PROJECT ID: 46101.0
REPORT TO COMPANY: Environmental Partners, Inc.
PROJECT MANAGER: Doug Kunkel / Jerry Sawetz
ADDRESS: 295 NE Gilman Blvd #201
Issaquah, WA 98027
PHONE: 425-395-0010 FAX: 425-395-0011
P.O. NUMBER: E-MAIL:
INVOICE TO COMPANY: SAME
ATTENTION: Tom Elsemore
ADDRESS: SAME

ANALYSIS REQUESTED

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ EPA-8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	Ethylene dibromide (EDB) by EPA-8260 ☐ EPA-504.1 ☐	1,2 Dichloroethene (EDC) by EPA-8260	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM ☐	PCB ☐ Pesticides ☐ by EPA 8081/8082	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	OTHER (Specify)						NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. B-7:22	7/23/04	1340	GW	1						X																2	
2. B-7:36	↓	1415	GW	2						X																2	
3. B-4:8	↓	1440	Soil	3						X																4	
4. B-4:9	↓	1505	GW	4						X																2	
5. B-4:22	↓	1540	GW	5						X																3	
6. B-4:36	↓	1610	GW	6						X																3	
7. B-5:8	7/26/04	730	Soil	7						X																4	
8. B-5:9	↓	750	GW	8						X																2	
9. B-5:22	↓	815	GW	9						X																2	
10. B-5:36	↓	855	GW	10						X																2	

REPORT COPY

SPECIAL INSTRUCTIONS

CCI Analytical Laboratories, Inc accepts and processes this request on the terms and conditions set forth on the reverse side. By its signature hereon, Customer accepts these terms and conditions.

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: [signature] EPI 7/26/04 3:00
Received By: [signature] CCIAL 7/26/04 3:00
2. Relinquished By:
Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: [10] Standard [5] [3] [2] [1] [SAME DAY]

Fuels & Hydrocarbon Analysis: [5] Standard [3] [1] [SAME DAY]

OTHER:
Specify: Soil HVOCs collected using EPA Method 5035A Sample B-4:8 Frozen Since 7/23/04

* Turnaround request less than standard may incur Rush Charges

CC lytica rator
8620 Holly Drive
Everett, WA 98208
Phone (425) 356-2600
(206) 292-9059 Seattle
(425) 356-2626 Fax
http://www.ccilabs.com

Chain Of Custody/ Laboratory Analysis Request

Job# (Laboratory Use Only)

Date 7/26/04 Page 2 Of 2

PROJECT ID:
REPORT TO COMPANY:
PROJECT MANAGER:
ADDRESS: SAME AS PAGE 1
PHONE: FAX:
P.O. NUMBER: E-MAIL:
INVOICE TO COMPANY:
ATTENTION:
ADDRESS:

ANALYSIS REQUESTED

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ EPA-8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	Ethylene dibromide (EDB) by EPA-8260 ☐ EPA-504.1 ☐	1,2 Dichloroethene (EDC) by EPA-8260	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM ☐	PCB ☐ Pesticides ☐ by EPA 8081/8082	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	OTHER (Specify)	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. B-3:8	7/26/04	930	Soil	11						X											4	
2. B-3:9		945	GW	12						X											2	
3. B-3:22		1020	GW	13						X											2	
4. B-3:36		1045	GW	14						X											2	
5. B-2:8		1125	Soil	15						X											4	
6. B-2:9		1140	GW	16						X											2	
7. B-2:22		1215	GW	17						X											2	
8. B-2:36		1300	GW	18						X											2	
9.																						
10.																						

REPORT COPY

SPECIAL INSTRUCTIONS

CCI Analytical Laboratories, Inc accepts and processes this request on the terms and conditions set forth on the reverse side. By its signature hereon, Customer accepts these terms and conditions.

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: [signature] EPI 7/26/04 300
   Received By: [signature] CCIAL 7/26/04 300
2. Relinquished By:
   Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: 10 (Standard) 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis: 5 (Standard) 3 1 SAME DAY

OTHER:
Specify:

* Turnaround request less than standard may incur Rush Charges

CCI Analytical Laboratories, Inc.
8620 Holly Drive
Everett, WA 98208
Phone (425) 356-2600
(206) 292-9059 Seattle
(425) 356-2626 Fax
http://www.ccilabs.com

Chain Of Custody/ Laboratory Analysis Request

Lab# (Laboratory Use Only)

Date 10/26/04 Page 1 Of 2

PROJECT ID: 46101
REPORT TO COMPANY: Environmental Partners, Inc
PROJECT MANAGER: Doug Kunkel / Jerry Sawetz
ADDRESS: 295 NE Gilman Blvd #201
Issaquah, WA 98027
PHONE: 425-395-0010 FAX: 425-395-0011
P.O. NUMBER: E-MAIL:
INVOICE TO COMPANY: SAME
ATTENTION: Tom Elsemore
ADDRESS: SAME

ANALYSIS REQUESTED / OTHER (Specify)

	SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ EPA-8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	Ethylene dibromide (EDB) by EPA-8260 ☐ EPA-504.1 ☐	1,2 Dichloroethene (EDC) by EPA-8260	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM ☐	PCB ☐ Pesticides ☐ by EPA 8081/8082	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1.	B-10:19 (archive)	10/25/04	1845	Soil	1						~~X~~	JS									3	
2.	B-10		1915	GW	2						X										3	
3.	B-11:19 (archive)		2000	Soil	3						~~X~~	JS									3	
4.	B-11		2015	GW	4						X										3	
5.	B-12:18 (archive)		2105	Soil	5						~~X~~	JS									3	
6.	B-12		2130	GW	6						X										3	
7.	B-13:10		2250	Soil	7						X										3	
8.	B-13		2315	GW	8						X										3	
9.	B-14:10		2350	Soil	9						X										3	
10.	B-14	10/26/04	0010	GW	10						X										3	

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SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: [signature] EPI 10/26/04
   Received By: [signature] CCIAL 10/26/04 1:55
2. Relinquished By:
   Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: 10 (Standard) 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis: 5 (Standard) 3 1 SAME DAY

OTHER:
Specify: Soil samples collected using EPA Method 5035A

* Turnaround request less than standard may incur Rush Charges

CC[illegible]ytica[illegible]ratori[illegible]
8620 Holly Drive
Everett, WA 98208
Phone (425) 356-2600
(206) 292-9059 Seattle
(425) 356-2626 Fax
http://www.ccilabs.com

Chain Of Custody/ Laboratory Analysis Request

[illegible]b# [illegible]borat[illegible] Only

Date 10/26/04 Page 2 Of 2

PROJECT ID:
REPORT TO COMPANY:
PROJECT MANAGER:
ADDRESS: SAME AS PAGE 1
PHONE: FAX:
P.O. NUMBER: E-MAIL:
INVOICE TO COMPANY:
ATTENTION:
ADDRESS:

ANALYSIS REQUESTED

	SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ EPA-8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	Ethylene dibromide (EDB) by EPA-8260 ☐ EPA-504.1 ☐	1,2 Dichloroethene (EDC) by EPA-8260	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM ☐	PCB ☐ Pesticides ☐ by EPA 8081/8082	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	OTHER (Specify)							NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1.	B-15:5	10/26/04	0030	Soil	11						X																	W
2.	B-16:10	↓	0100	Soil	12						X																	S
3.	B-16	↓	0115	GW	13						X																	W
4.																												
5.																												
6.																												
7.																												
8.																												
9.																												
10.																												

REPORT COPY

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SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: [signature] EPI 10/26/04
   Received By: [signature] CCEAL 10/26/04 1:55
2. Relinquished By:
   Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: ~~10~~ (Standard) 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis: 5 (Standard) 3 1 SAME DAY

OTHER:
Specify: Soil samples collected using EPA Method 5035A

* Turnaround request less than standard may incur Rush Charges