

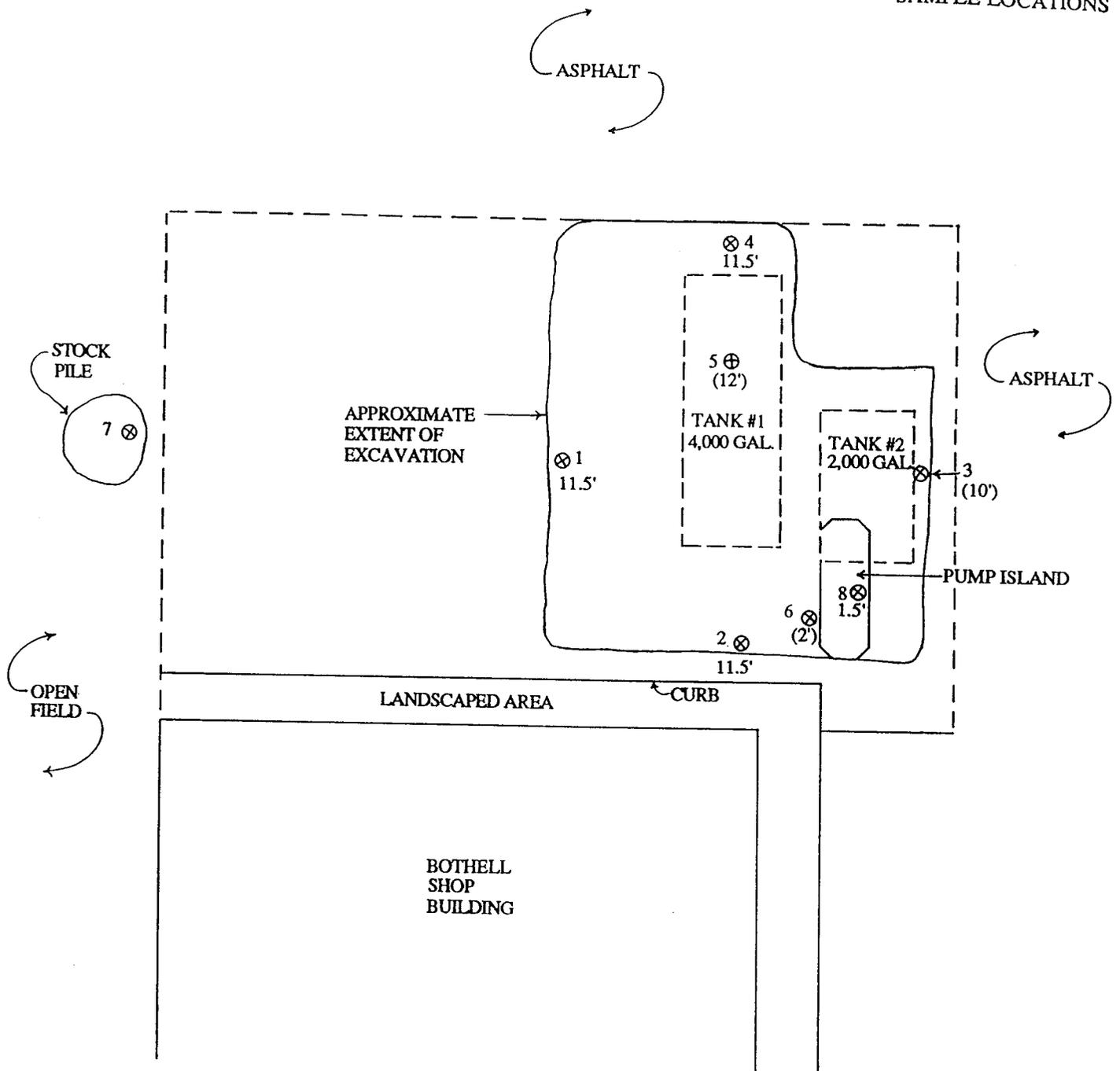
Appendix F

Selected Records from Ecology's Files for Nearby Properties and Selected Copies of Additional Information

Selected Records from Ecology's Files for Nearby Properties

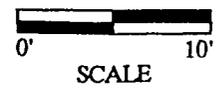
**Site Plan from Seacor "Underground Storage Tank Closure"
dated August 24, 1990**

FIGURE 1
SITE PLAN
SAMPLE LOCATIONS



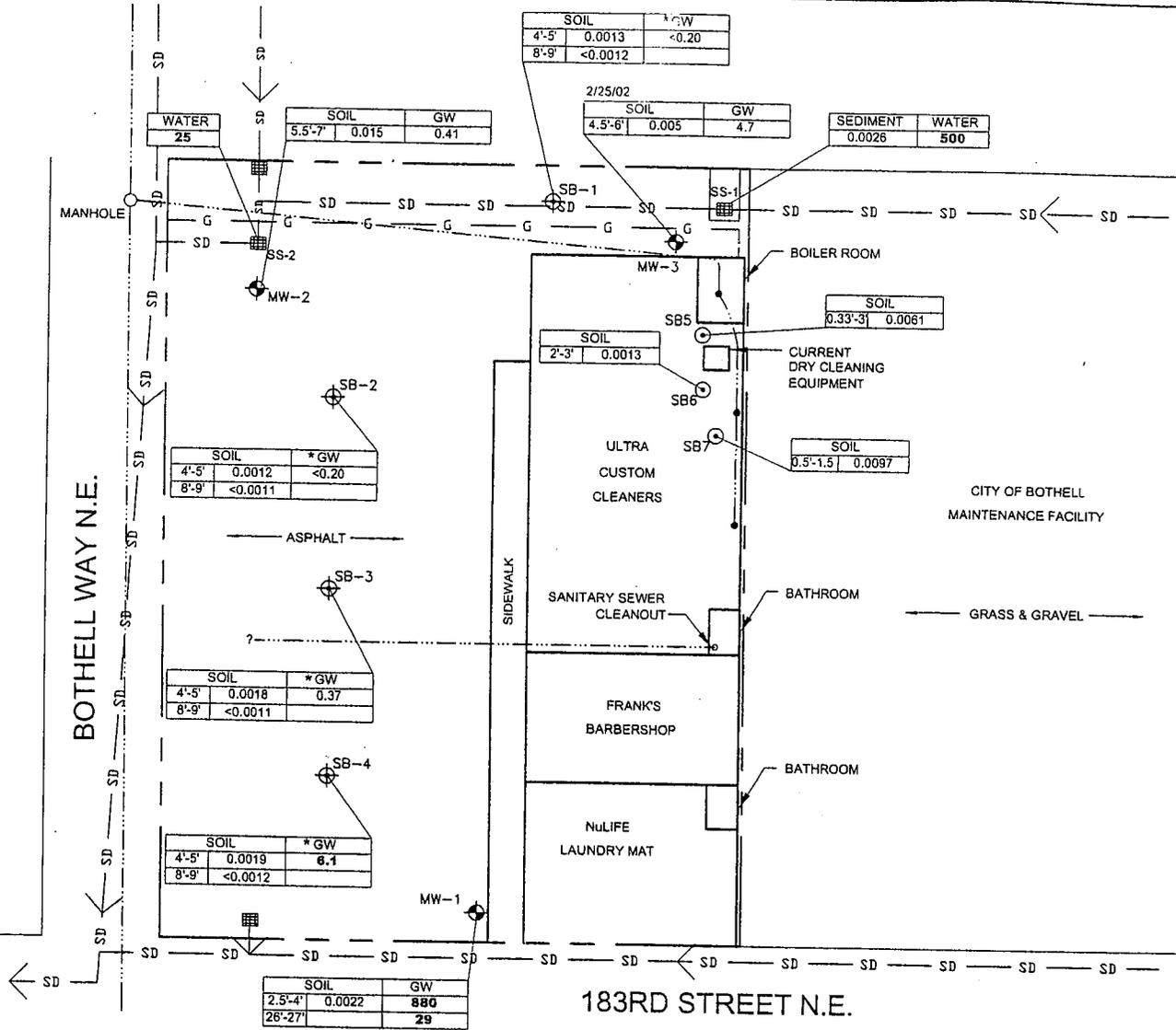
LEGEND

- ⊗ SOIL SAMPLE LOCATION
- (XX) DEPTH OF SOIL SAMPLE

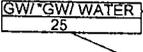
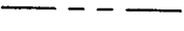
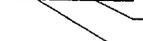
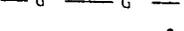


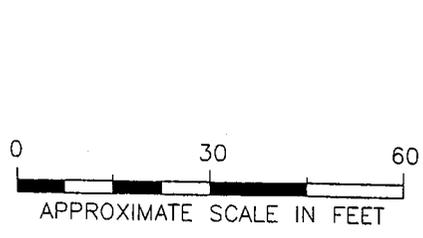
SEACOR

**Site Plans from Farallon Consulting "Subsurface Investigation Report"
dated April 19, 2002**



LEGEND

	GROUNDWATER MONITORING WELL LOCATION (FARALLON 2/2002)	25	BOLD INDICATES CONCENTRATION EXCEEDS MTCA METHOD A CLEANUP LEVEL
	SOIL BORING LOCATION (IT CORPORATION 7/2001)	PCE =	TETRACHLOROETHENE
	SOIL BORING LOCATION (FARALLON 2/2002)		STORM DRAIN CATCH BASIN
	GROUNDWATER SAMPLE, RECONNAISSANCE GROUNDWATER SAMPLE, WATER SAMPLE		APPROXIMATE PROPERTY BOUNDARY
	PCE CONCENTRATION IN MICROGRAMS PER LITER		APPROXIMATE LOCATION OF UNDERGROUND STORM SEWER LINE AND FLOW DIRECTION
	SOIL SAMPLE		SANITARY SEWER
	PCE CONCENTRATION IN MILLIGRAMS PER KILOGRAM		NATURAL GAS LINE
	DEPTH IN FEET BELOW GROUND SURFACE		FLOOR DRAIN



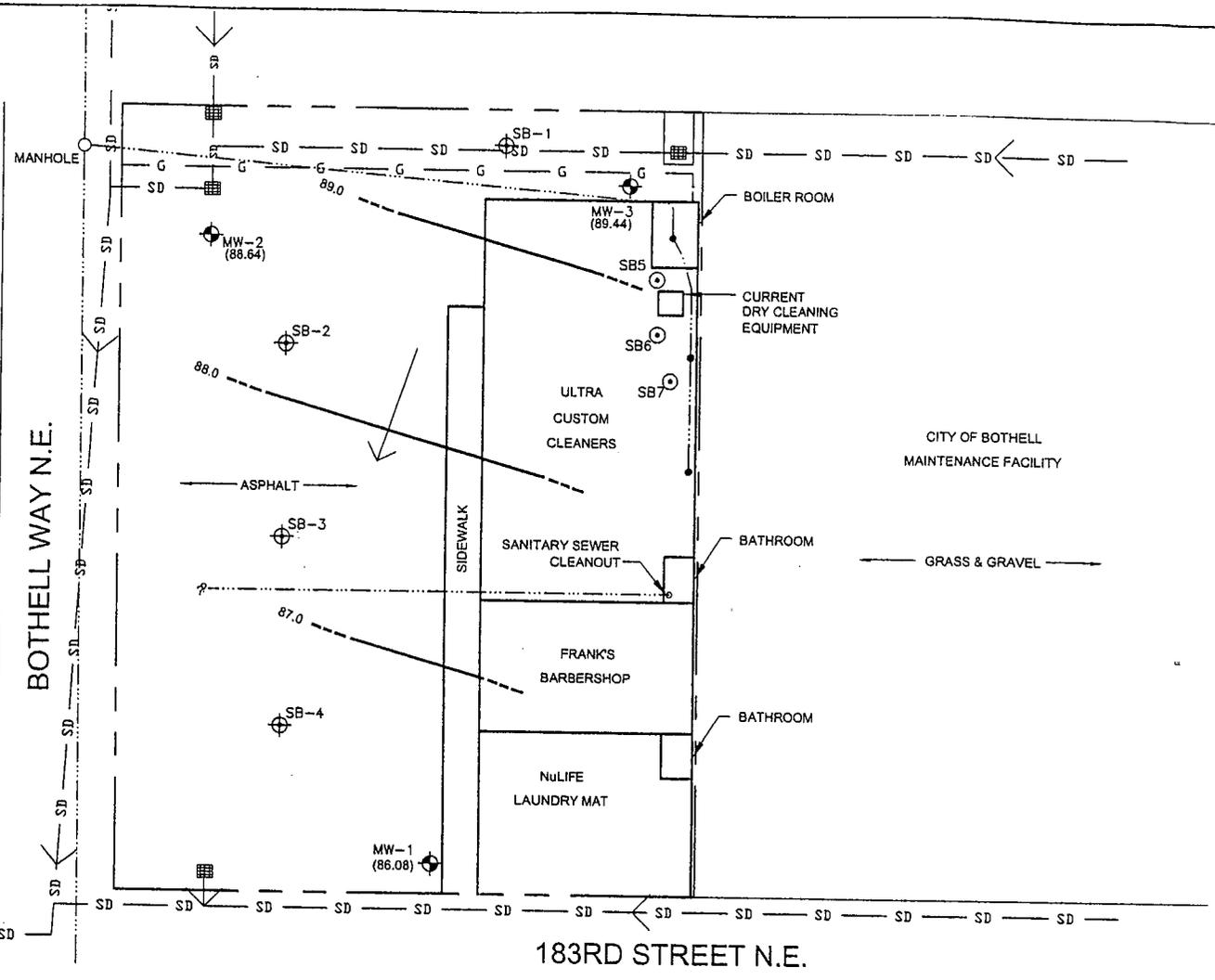


FARALLON CONSULTING
320 3rd Ave. NE, Suite 200
Issaquah, WA 98027

FIGURE 2

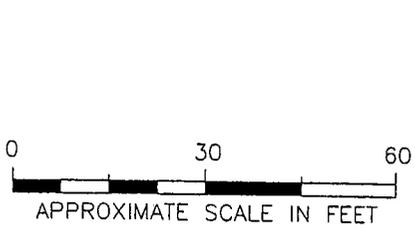
PCE CONCENTRATIONS IN
SOIL AND WATER
ULTRA CUSTOM CLEANERS SITE
18300 BOTHELL WAY NE
BOTHELL, WASHINGTON

FARALLON PN: 773-001



LEGEND

<p>MW-1 (86.08) </p> <p>SB-3 </p> <p>SB5 </p> <p>88.0 </p> <p></p>	<p>GROUNDWATER MONITORING WELL LOCATION AND GROUNDWATER ELEVATION IN FEET (FARALLON 2/2002)</p> <p>SOIL BORING LOCATION (IT CORPORATION 7/2001)</p> <p>SOIL BORING LOCATION (FARALLON 2/2002)</p> <p>GROUNDWATER LEVEL CONTOUR LINE AND ELEVATION IN FEET MEASURED TO ARBITRARY DATUM</p> <p>APPROXIMATE DIRECTION OF GROUNDWATER FLOW</p>	<p></p> <p></p> <p>SD </p> <p></p> <p>G </p> <p></p>	<p>STORM DRAIN CATCH BASIN</p> <p>APPROXIMATE PROPERTY BOUNDARY</p> <p>APPROXIMATE LOCATION OF UNDERGROUND STORM SEWER LINE AND FLOW DIRECTION</p> <p>SANITARY SEWER</p> <p>NATURAL GAS LINE</p> <p>FLOOR DRAIN</p>
--	--	--	---



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

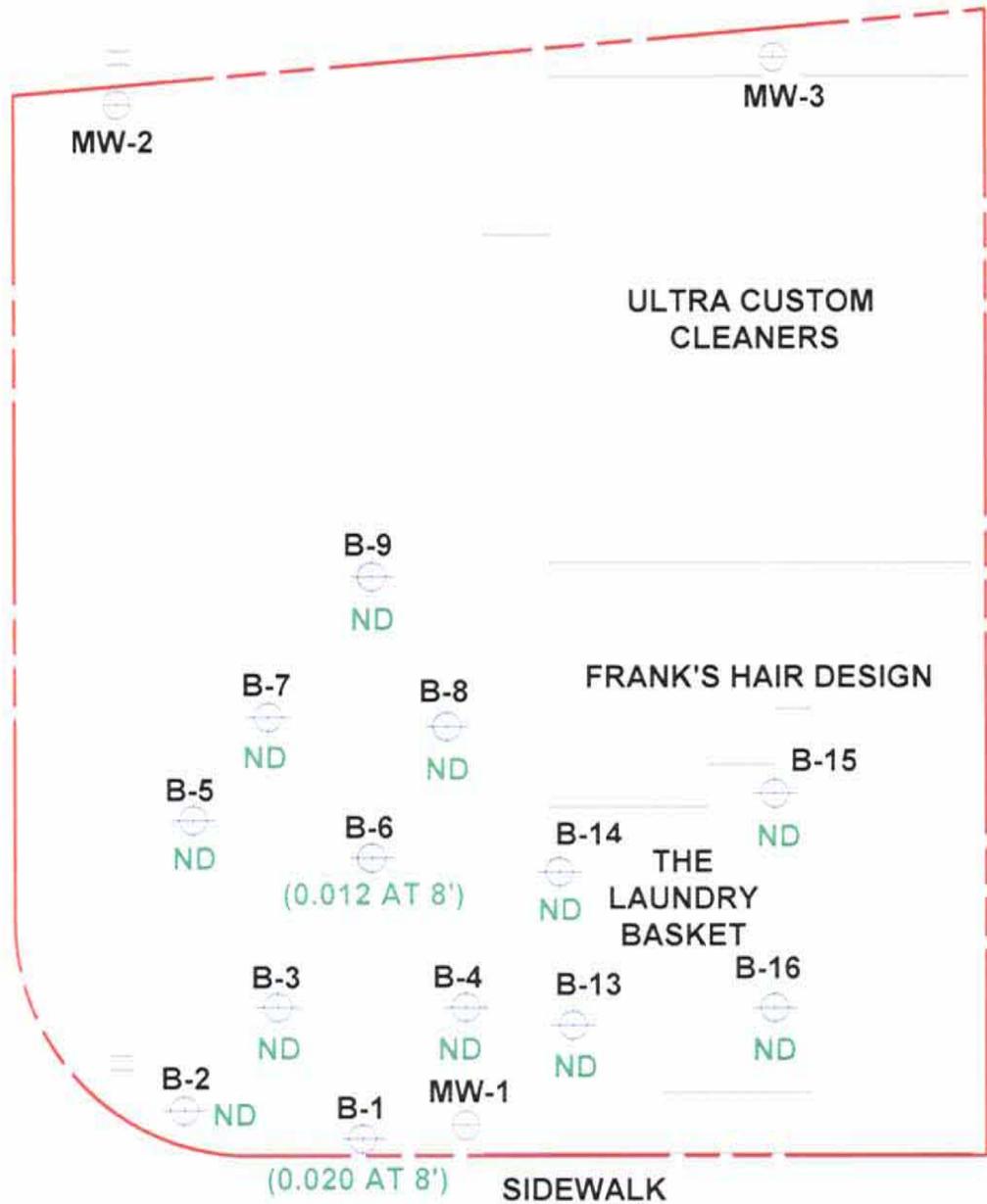
FIGURE 3

POTENTIOMETRIC SURFACE
CONTOUR MAP
ULTRA CUSTOM CLEANERS SITE
18300 BOTHELL WAY NE
BOTHELL, WASHINGTON
FARALLON PN: 773-001

**Site Plans from Environmental Partners, Inc.
"Chlorinated VOC Nature and Extent Investigation Letter Report"
dated November 30, 2004**

BOTHELL WAY NE

SIDEWALK



183RD STREET NE

KEY

- BORING LOCATIONS
- SUBJECT PROPERTY BOUNDARY
- MONITORING WELL LOCATIONS
- PCE CONCENTRATION IN SOIL (MG/KG)
- APPROXIMATE STORM DRAIN LOCATIONS
- ND** NOT DETECTED ABOVE COMPOUND SPECIFIC LABORATORY DETECTION LIMIT

n

SCALE 1" = 20'

ept ENVIRONMENTAL PARTNERS INC
 295 N. Colman Boulevard, Suite 201
 Issaquah, Washington 98027

FIGURE 2
 BORING LOCATIONS WITH TETRACHLOROETHENE CONCENTRATIONS IN SOIL (MG/KG)

PROJECT	46101.0		
PREPARED FOR	CASE PROPERTIES		
LOCATION	18300-18304 BOTHELL WAY NE BOTHELL WASHINGTON		
SHEET	DRAWN BY	REVIEWED BY	DATE
1 of 1	JS	DK	11/29/04

BOTHELL WAY NE

SIDEWALK

MW-2

MW-3

APPROXIMATE
GROUNDWATER
FLOW DIRECTION

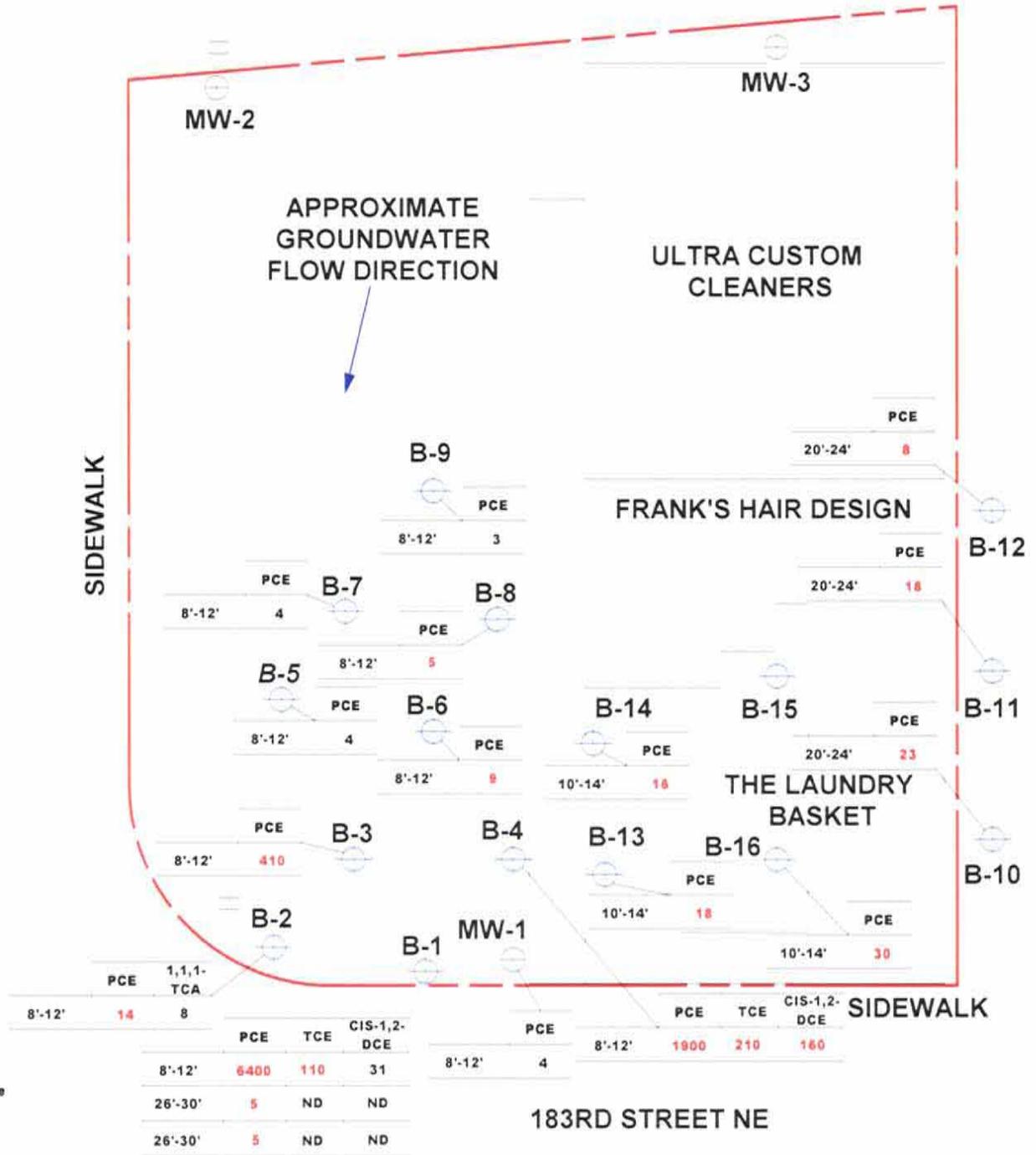
ULTRA CUSTOM
CLEANERS

FRANK'S HAIR DESIGN

THE LAUNDRY
BASKET

SIDEWALK

183RD STREET NE



PCE - tetrachloroethene
TCE - trichloroethene
TCA - trichloroethane
DCE - dichloroethene
8'-12' - screened interval

KEY

- BORING LOCATIONS
- SUBJECT PROPERTY BOUNDARY
- MONITORING WELL LOCATIONS
- 14 CONCENTRATIONS IN $\mu\text{g/L}$. RED INDICATES MTCA METHOD A OR B EXCEEDANCE
- APPROXIMATE STORM DRAIN LOCATIONS
- ND NOT DETECTED ABOVE COMPOUND SPECIFIC LABORATORY DETECTION LIMIT

SCALE 1" = 20'

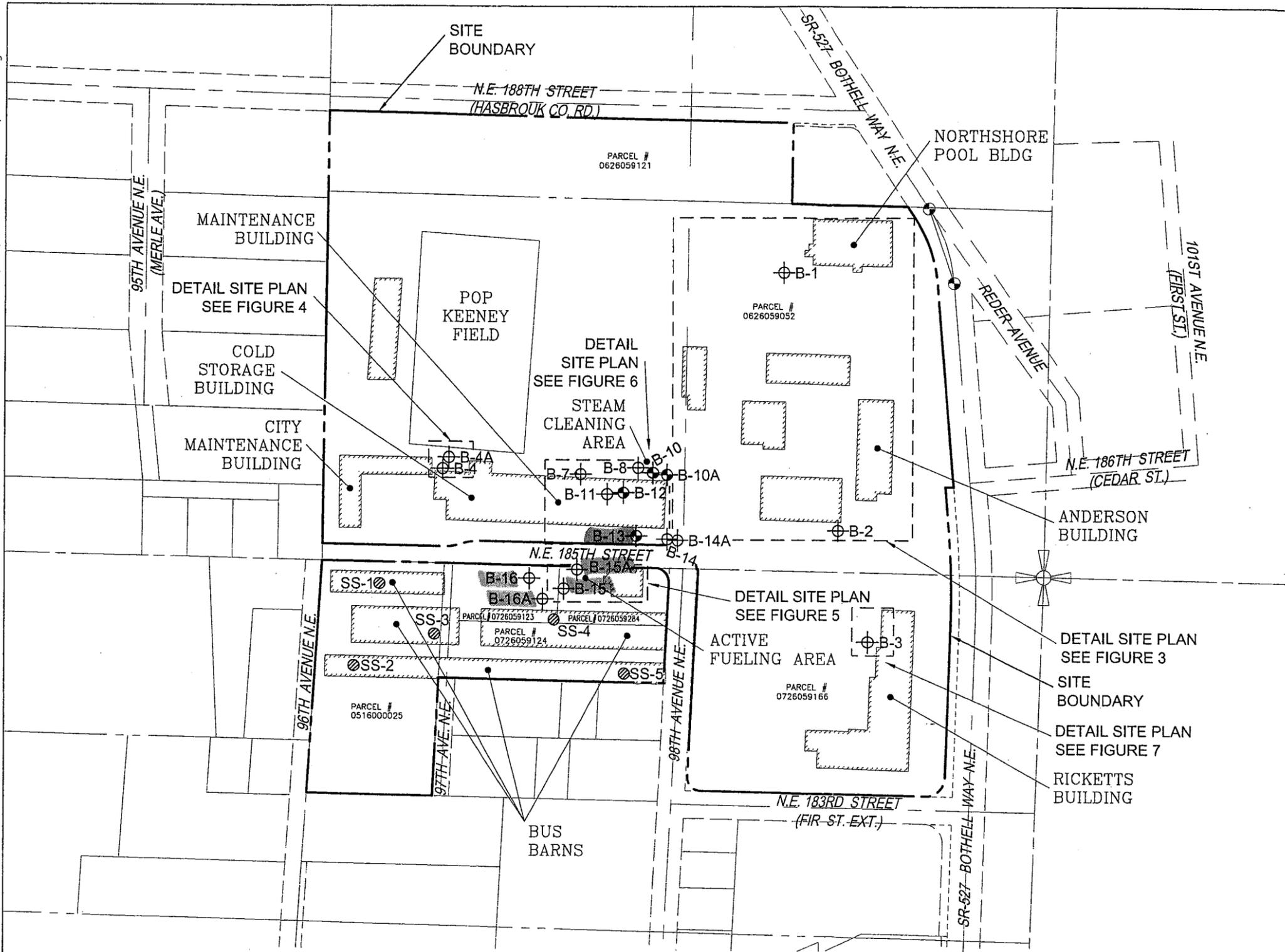
ept ENVIRONMENTAL PARTNERS INC
295 NE Columbia Boulevard, Suite 295
Tosopah, Washington 98027

FIGURE 3
BORING LOCATIONS WITH HVOC CONCENTRATIONS IN GROUNDWATER ($\mu\text{g/L}$)

PROJECT	46101.0		
PREPARED FOR	CASE PROPERTIES		
LOCATION	18300-18304 BOTHELL WAY NE BOTHELL WASHINGTON		
SHEET	DRAWN BY	REVIEWED BY	DATE
1 of 1	JS	DK	1/1/29/04

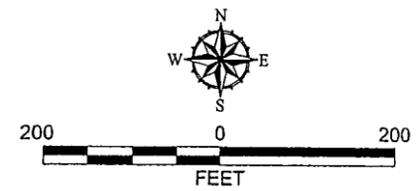
Site Plan from GeoEngineers "Phase II ESA" dated January 24, 2006

REDM \ P: \ 12666001 \ 00 \ CAD \ 1266600100F2-7.dwg
 Layout Tab Name: Figure 2
 MR4: NED 1/23/06
 Xref: N/A Image: YES



DRAFT

- 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
 - ⊗ SS-1 Near-surface soil sample obtained by GeoEngineers in December 2005



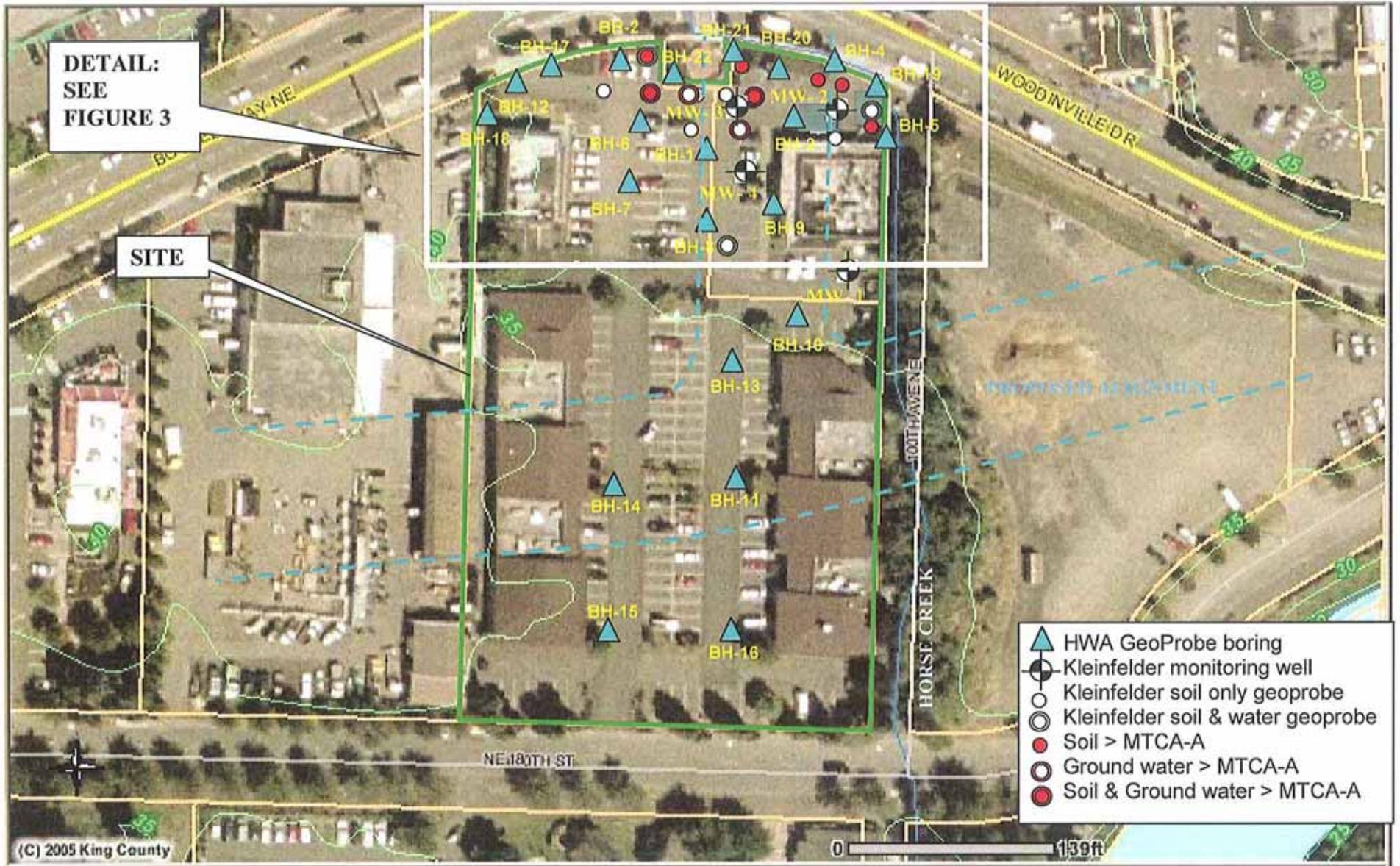
Notes:

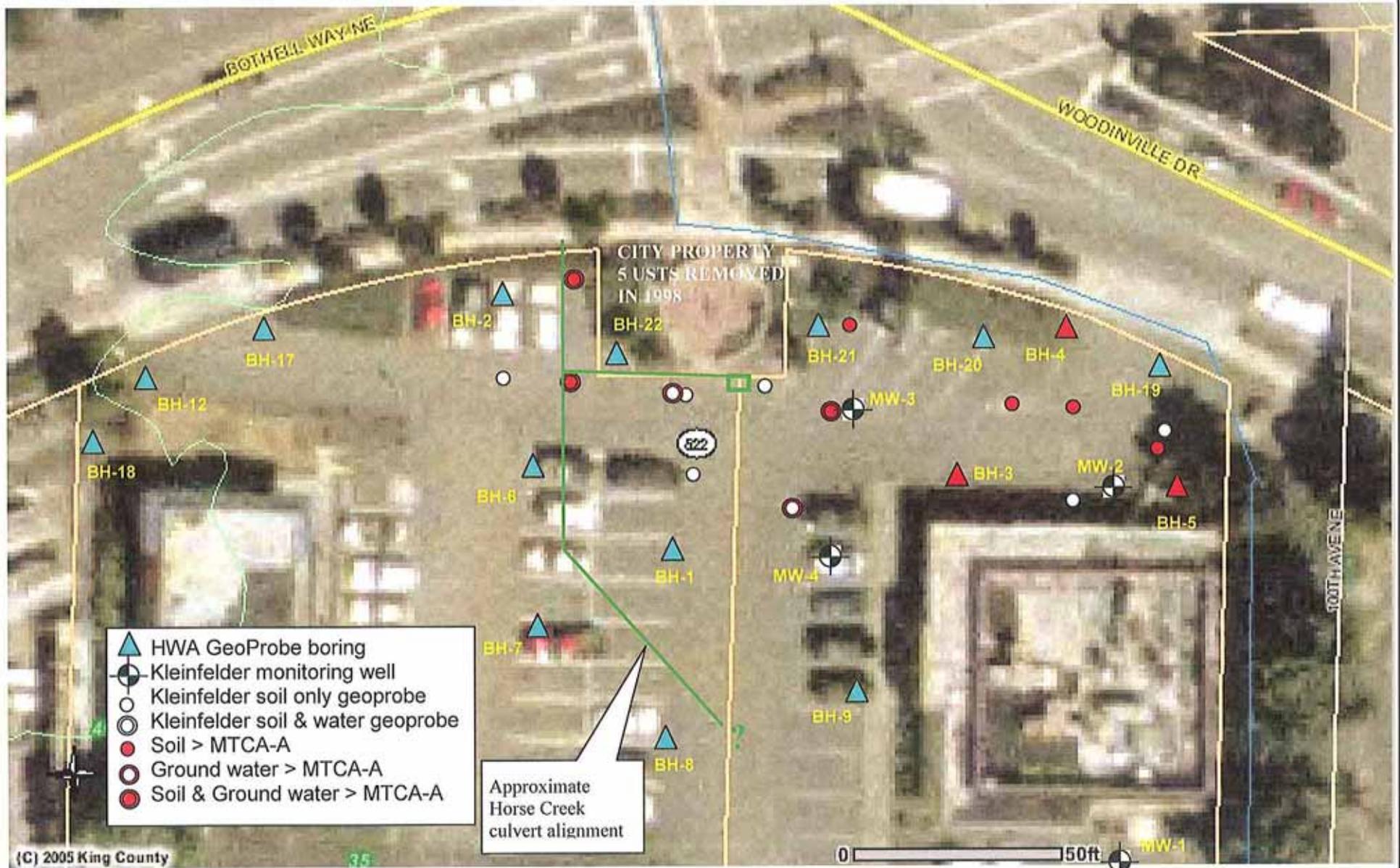
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers,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

Reference: CAD file provided by Pace Engineers, 12/28/05. Site details developed from aerial photo obtained from King County GIS Center iMAP (<http://www.metrokc.gov/gis/mapprotal/iMAP>), 1/11/06.

Site Plan	
Northshore Downtown Bothell Properties Bothell, Washington	
	Figure 2

**Site Plans from HWA Geoscience, Inc. "Phase II ESA"
dated November 1, 2007**





HWA GEOSCIENCES INC.

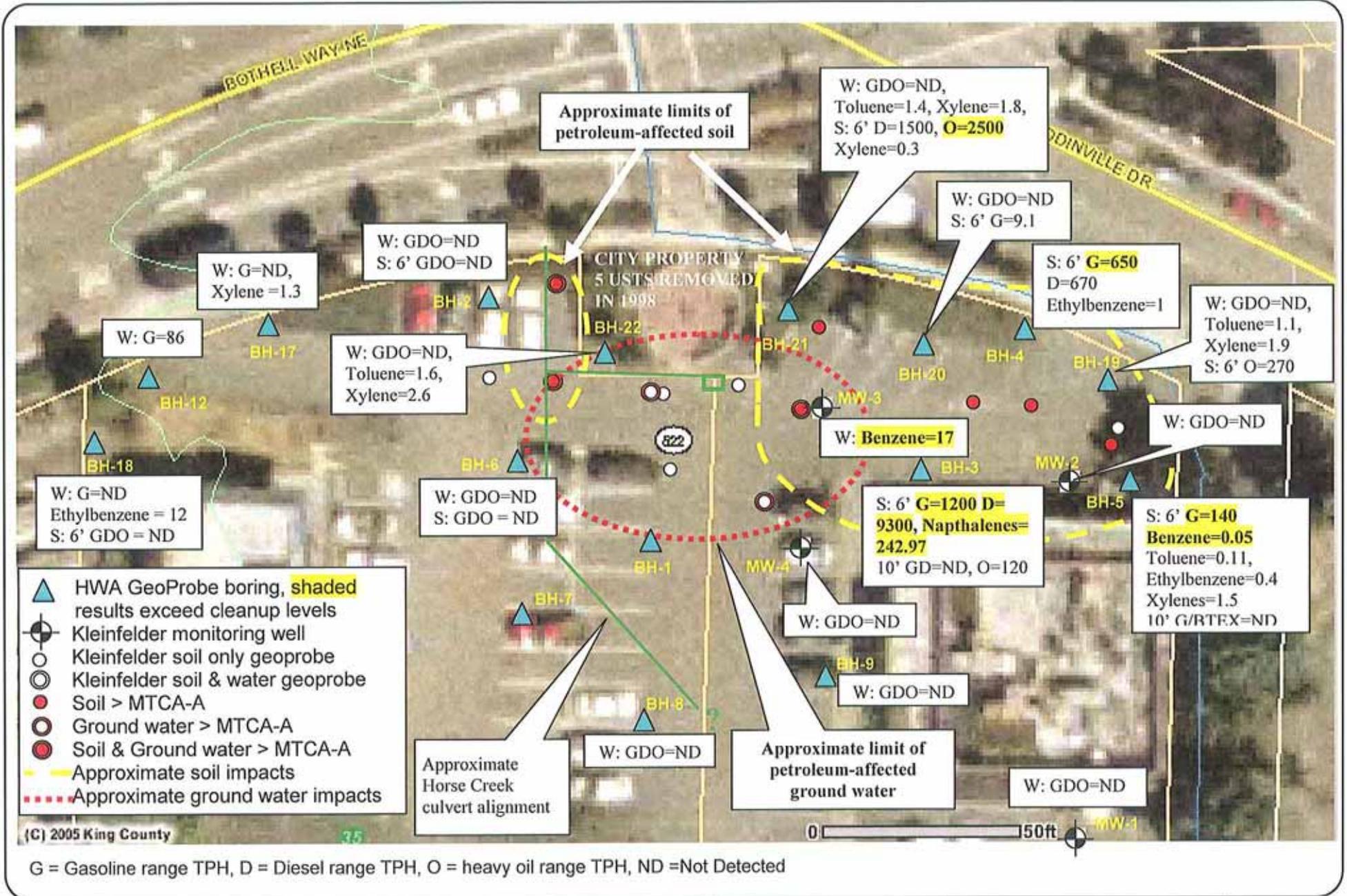
SITE AND EXPLORATION PLAN, DETAIL
 BETA BOTHELL LANDING PROPERTY
 PHASE II ENVIRONMENTAL SITE ASSESSMENT
 BOTHELL CROSSROADS PROJECT
 BOTHELL, WASHINGTON

FIGURE NO.

3

PROJECT NO.

2007-098



Selected Additional Records

DRAFT

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APR 06 2006

DEPT OF ECOLOGY

PHASE 2 ENVIRONMENTAL SITE ASSESSMENT
NORTHSHORE DOWNTOWN BOTHELL
PROPERTIES
BOTHELL, WASHINGTON

JANUARY 24, 2006

FOR
NORTHSHORE SCHOOL DISTRICT

**Phase 2 Environmental Site Assessment
Northshore Downtown Bothell Properties
Bothell, Washington
File No. 12666-001-00**

January 24, 2006

Prepared for:

**Northshore School District
22105 - 23rd Avenue SE
Bothell, Washington 98021**

**Attention: Dan Vaught, Executive Director of Support Services
c/o: Laura Brent, Shockey/Brent, Inc.**

Prepared by:

**GeoEngineers, Inc.
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Associate**

**Galan W. McInelly, LG, LEG, LHG
Principal**

RNM:LJB:GWM:DAC:ja
Redm:\00\Finals\1266600100R_rev1.doc

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Chemical Analytical Data

Appendix D – Report Limitations And Guidelines For Use

**PHASE 2 ENVIRONMENTAL SITE ASSESSMENT
NORTHSHORE DOWNTOWN BOTHELL PROPERTIES
BOTHELL, WASHINGTON
FOR
NORTHSHORE SCHOOL DISTRICT**

INTRODUCTION AND BACKGROUND

This document presents the results of our Phase 2 Environmental Site Assessment (ESA) of the Northshore Downtown Bothell Properties in Bothell, Washington. Our services were requested by Shockey/Brent, Inc., and completed in general accordance with our proposal to the Northshore School District No. 417 dated November 29, 2005 and Change Order No. 1 dated December 1, 2005.

The Northshore Downtown Bothell Properties, referred to herein as the "site", is 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.

We understand that the current site owner, Northshore School District, is considering a possible property transfer/sale to the City of Bothell. Shockey/Brent, Inc. completed a Phase 1 ESA to assess potential sources of contamination on or near the site; no subsurface explorations were completed for the Phase 1 ESA. The Phase 1 ESA includes a review of federal and state databases related to the storage or use of potential contaminants on or near the site and/or release of contaminants to the surface or subsurface on or near the site; review of city and county records and documenting releases of contaminants on or near the site; interviews with key individuals regarding past and present site use; and a reconnaissance to document current site activities. The draft Phase 1 ESA report is dated January 2006. We did not have the opportunity to review a completed Phase 1 ESA study prior to the development and implementation of our field exploration program for this Phase 2 ESA. The Phase 2 ESA services documented in this report were completed to assess the subsurface in the most likely areas of potential subsurface contamination, based on the Phase 1 ESA site reconnaissance partially attended by a representative of GeoEngineers on November 21, 2005, and verbal updates of the Phase 1 ESA research provided by Shockey/Brent, Inc. The field activities described in this report were conducted during December 2005.

Several activities were identified during the site reconnaissance and Phase 1 ESA research that, in our opinion, warranted subsurface exploration, including active fueling of vehicles (buses), maintenance of vehicles, steam cleaning of vehicles, and past or present storage of petroleum in underground or aboveground storage tanks. The main site features relevant to this Phase 2 ESA are identified in the Site Plan, Figure 2, and Detail Site Plans, Figures 3 through 7.

REVIEW OF SHOCKEY/BRENT, INC. DRAFT PHASE 1 ESA REPORT

GeoEngineers completed a review of the draft Phase 1 ESA Report dated January 2006 to assess whether the Phase 2 explorations (completed in 2005) covered areas of potential sources of subsurface contamination that were identified by the Phase 1 ESA. In general, the Phase 2 ESA explorations explored the identified potential sources of contamination with at least one boring. The exceptions follow:

- An active service station is located adjacent to the northeast site corner, just north of the Northshore Pool Building. The Washington State Department of Ecology (Ecology) has been involved in assessing and remediating the known release of hydrocarbons from the service station

property. The hydrocarbon contaminant plume is documented to have migrated beneath the Northshore Pool Building, but is not documented south of the building. This area was not further explored since under the Model Toxics Control Act, a property owner is not legally responsible for a plume on their site originating from another property. However, additional study may be warranted in this area if site development and/or contaminant cost impact information is needed. Based on one boring completed near the pool building's heating oil UST, there has not been a significant release, if any, from the pool's UST. Therefore, a commingled contaminant plume, which can make liability assignment difficult, appears to be unlikely in the area of the pool building.

- Other possible off-site sources of subsurface contamination, such as upgradient and cross-gradient drycleaners, were not assessed by the Phase 1 ESA.
- 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 1 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.
- 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. As described in the Phase 1 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 1 ESA. There is a possibility that other tanks may be encountered in the future during site demolition and development. These residences also may have used septic systems. If so, wastes previously were dumped into septic systems could have included hazardous substances. As a result, if abandoned septic systems are encountered during development, impacted soil at concentrations of regulatory concern may be encountered.
- According to the Phase 1 ESA report, the U.S. EPA, their consultant and the City of Bothell have been tracking releases of hydrocarbons into the creek that extends roughly north-south beneath the site within a culvert. While the site may not be the current source of hydrocarbons in the creek, there is evidence to suggest that the site may have previously been a source when the site drains flowed directly to the creek. 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. These areas are not likely active sources of contamination to the creek. 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 2 ESA and the storm drain locations are not accurately known.
- An automobile shop may have been present in the Pop Keeney field area more than 40 years ago, according to the Phase 1 ESA. The field area was not explored because the exact location of the shop was not determined, we understand that future site development is not proposed in the Pop Keeney Stadium area, and explorations in the field would have disrupted the current use.

Two fuel USTs were removed from the vicinity of the three current USTs in the active fueling area near the bus barns at some time in the past. This general area was explored by completing the borings B-15, B-15A, B-16 and B-16A.

PURPOSE AND SCOPE

The purpose of our services is to assess the possible presence of petroleum-related subsurface contamination in the vicinity of four former and/or existing heating oil USTs or ASTs; an existing fueling facility with USTs and fuel dispensers near the bus barn; and inactive petroleum USTs, underground hydraulic hoists, and steam cleaning area at or adjacent to the Maintenance Building. GeoEngineers' specific scope of services completed for this study includes the following:

1. Prepare a site-specific health and safety plan for the use of GeoEngineers' personnel.
2. Subcontract the completion of a geophysical survey to identify potential underground storage tank (UST) locations.
3. Observe and document the completion of 18 direct-push borings. The borings were completed to depths of approximately 10 to 15 feet below ground surface (bgs).
4. Obtain near-continuous soil samples from the borings for field screening, soil description and potential chemical analysis. Backfill the borings with bentonite chips. Prepare a detailed log of each exploration.
5. Obtain grab groundwater samples from four of the borings.
6. Complete near-surface soil sampling with hand tools at five selected locations in the vicinity of the bus barn for field screening.
7. Submit eleven soil samples and the four groundwater samples to a subcontracted chemical laboratory for chemical analysis of one or more of the following:
 - Qualitative hydrocarbon identification by Ecology Method NWTPH-HCID;
 - Benzene, ethylbenzene, toluene and xylenes (BETX) by EPA Method 8021B (and EPA Method 5035 for soil samples);
 - Gasoline-range hydrocarbons by Ecology Method NWTPH-Gx;
 - Diesel- and heavy oil-range hydrocarbons by Ecology Method NWTPH-Dx with a silica gel cleanup;
 - Halogenated volatile organic compounds (HVOCs) by EPA Method 8260;
 - Polycyclic aromatic hydrocarbons (PAHs), including naphthalenes, by EPA Method 8270 SIM;
 - Model Toxic Control Act (MTCA) metals (arsenic, cadmium, chromium, lead and mercury) by EPA 6000 and 7000 series methodology.
8. Submit a decontamination and purge water sample for chemical analysis of BETX, and total oil and grease by EPA Method 1664 for disposal characterization. Dispose of the wastewater at GeoEngineers' Redmond facility.
9. Review the field and chemical analytical data. Compare the data to MTCA Method A or B cleanup levels.

SUBSURFACE SOIL AND GROUNDWATER ASSESSMENT

GENERAL

Subsurface soil conditions were explored between December 19 and 22, 2005 by completing a subcontracted geophysical survey, completing eighteen direct-push borings (B-1 through B-4, B-4a, B-7, B-8, B-10 through B-16, B-10a, B-14a, B-15a and B-16a) and observing near-surface soil conditions at five selected locations (SS-1 through SS-5). The geophysical survey was completed to identify potential

USTs in the vicinity of the Northshore Pool Building, the Ricketts Building, Maintenance Building and Anderson Building. The borings were located in the vicinity of four heating oil USTs or ASTs located across the site, the Maintenance Building and steam cleaning area, and petroleum storage tanks and dispensers of the active fueling facility located near the bus barns. The near-surface soil samples were located in the vicinity of the bus barns. Soil samples were not submitted from SS-1 through SS-5 for chemical analysis. These near-surface explorations were completed to assess how deep petroleum resulting from oil drips from parked buses may have migrated into the subsurface.

The geophysical survey used an electromagnetic device to detect potential USTs and was completed by Apollo Geophysics. Two potential USTs were identified in the vicinity of the Ricketts Building, two in the vicinity of the maintenance facility, and one in the vicinity of the Northshore Pool Building. An additional geophysical survey was completed in the vicinity of boring B-2 (near the Anderson Building), but no potential USTs were identified in this area. The potential UST locations are shown on Figures 3, 6 and 7. A technical memorandum that summarizes the geophysical survey is provided as Appendix B. Apollo Geophysics recommends in their technical memorandum that the locations with potential USTs be further evaluated by direct exploration. By this, Apollo Geophysics is referring to exposing the identified objects with an excavator. Because most of the UST locations were explored based on interview information provided by Ed Thomson of the Northshore School District, and corroborated with the locations of fillports at some of the UST locations, the geophysical anomalies identified by Apollo Geophysics most likely do represent USTs. An exception is a possible UST that was identified adjacent to the Ricketts Building, just north of the UST that was confirmed by interview and fillport. This object would need to be exposed to determine what the geophysical anomaly represents.

The direct push borings were advanced to depths of approximately 10 to 15 feet below ground surface using drilling equipment owned and operated by Geo-Tech Explorations (Boart Longyear). Refer to Table 1 for a description of borings versus potential contaminant sources. Planned borings B-5 and B-6, located adjacent to catch basins near the City Maintenance Buildings, were not completed because of the low likelihood of subsurface contamination and time constraints. As a result, planned boring locations B-5 and B-6 are not shown in any of the figures of this report. The near-surface soil samples were completed by GeoEngineers using hand tools. The approximate locations of the borings and near-surface soil sample sites are shown on Figures 3 through 7. Details of the field exploration program and exploration logs are presented in Appendix A.

Soil conditions encountered in the explorations generally consisted of 3 to 5 feet of loose fill material, underlain by a medium dense to dense silty sand. Soil sample descriptions are included on the exploration logs in Appendix A. Groundwater was encountered in all of the borings, typically at a depth of 4 to 5 feet beneath ground surface.

FIELD SCREENING RESULTS

Field screening results (moderate to heavy petroleum sheens) for soil samples obtained in the vicinity of the maintenance facilities indicated likely petroleum contamination at borings B-10, B10a, B-12, B-13 and B-14 at varying depths within the 2- to 9-foot depth interval. Field screening results (slight sheens) indicated potential petroleum contamination in the vicinity of a heating oil above ground storage tank (AST) near the Anderson Building (boring B-2), a heating oil UST next to the Ricketts Building (boring B-3), and the bus barn (boring B-16, and near-surface soil samples at SS-1 through SS-5). Field screening results indicated that petroleum contamination was unlikely at the remaining boring locations (B-1, B-4, B-4a, B-7, B-8, B-11, B-14a, B-15, B-15a, B-16a), and unlikely below a depth of 6-inches at the five near-surface soil sample locations (SS-1 through SS-5, at the bus barns). Field screening results are summarized in Table 1 and field screening methods are described in Appendix A.

SOIL CHEMICAL ANALYTICAL RESULTS

Soil samples were selected to correlate with field screening results for assessing potential soil contamination at select locations in the vicinity of the Maintenance Building, the Anderson Building, the Ricketts Building and the active fueling area. Eleven soil samples were submitted for chemical analysis of one or more of the following: hydrocarbon identification, gasoline-, diesel-, and/or heavy oil-range hydrocarbons, BETX, PAHs, HVOCs, and/or MTCA metals to CCI Analytical Laboratories in Everett, Washington. Selection of soil samples for chemical analysis was based on field observations, field screening results and/or depth relative to potential release sources. Chemical analyses were selected based on field screening results and the potential contaminant in the area explored. The soil chemical analytical data are summarized in Tables 2, 3 and 4. Copies of the laboratory reports are included in Appendix C.

Maintenance Building Area (Figure 6). Heavy oil-range hydrocarbons quantified as lube oil were detected at concentrations greater than the MTCA Method A cleanup level of 2,000 mg/kg in soil samples B-10-5 (3,100 mg/kg), B-10a-5 (2,300 mg/kg) and B-12-8 (16,000 mg/kg), located in the vicinity of the Maintenance Building. Naphthalenes (non-carcinogenic PAHs) were detected in sample B-13-6 at a concentration of 7.45 mg/kg, which is greater than the MTCA Method A cleanup level of 5.0 mg/kg. Boring B-13 is located near the former used oil UST south of the Maintenance Building.

Diesel-range hydrocarbons and PAHs either were not detected or were detected at concentrations less than the MTCA Method A cleanup levels in soil samples B-10-5, B-10a-5 and B-12-8. Diesel-range and lube oil-range hydrocarbons either were not detected or were detected at concentrations less than the MTCA Method A cleanup levels in soil sample B-10-9.5. BETX, gasoline-range hydrocarbons, diesel-range hydrocarbons, lube oil-range hydrocarbons, PAHs (excluding naphthalenes) and MTCA metals either were not detected or were detected at concentrations less than the MTCA Method A cleanup levels in soil sample B-13-6. Diesel-range and lube oil-range hydrocarbons either were not detected or were detected at concentrations less than the MTCA Method A cleanup levels in soil sample B-14-4. Hydrocarbons were not detected in soil samples B-13-8 and B-14-6.

Note that the MTCA Method A cleanup levels for chromium VI and chromium III in soil are 19 mg/kg and 2,000 mg/kg, respectively. Chromium VI is typically associated with industrial sites, so it is likely that the chromium III MTCA Method A cleanup level of 2,000 mg/kg is more appropriate for this site. Analytical methods are available to differentiate between chromium VI and chromium III, if needed.

Anderson and Ricketts Building Areas (Figures 3 and 7). Hydrocarbons were not detected in soil samples B-2-10 or B-3-6, located in the vicinity of heating oil tanks near the Anderson and Ricketts buildings. Diesel-range and lube oil-range hydrocarbons were detected at concentrations less than the MTCA Method A cleanup levels in soil sample B-16-2, located in the active fueling area.

Active Fueling Area near Bus Barn (Figure 5). Hydrocarbons were detected at concentrations less than MTCA Method A cleanup levels in one soil sample (B-16-2) submitted from an area near the westernmost fuel dispenser. No other soil samples were submitted for testing in this area because of the field screening results.

GROUNDWATER CHEMICAL ANALYTICAL RESULTS

Groundwater samples generally were selected to correlate with soil field screening results for assessing potential groundwater contamination in the vicinity of the Maintenance Building and active fueling area.

Groundwater samples were obtained from the following borings to evaluate groundwater conditions at locations where soil appeared to be contaminated based on field screening.

- B-10 – Steam cleaning area of maintenance shop (Figure 6).
- B-12 – Underground hydraulic hoist within bus maintenance shop (Figure 6).
- B-16 – Westernmost fuel dispenser area near existing fueling facility (Figure 5).
- Groundwater sample B-14a was selected to represent the groundwater conditions presumably downgradient of the former fuel ASTs near the Maintenance Building (Figure 6).

The four groundwater samples (B-10, B-12, B-14a and B-16) were submitted for chemical analysis of hydrocarbon identification, gasoline-, diesel-, and/or lube oil-range hydrocarbons, and/or PAHs to CCI Analytical Laboratories in Everett, Washington. The groundwater chemical analytical data are summarized in Table 5. Copies of the laboratory reports are included in Appendix C.

Diesel-range and lube oil-range hydrocarbons were detected at concentrations of 1.6 and 5.0 mg/l in groundwater sample B-10, which is greater than the MTCA Method A cleanup levels of 0.5 mg/l for each hydrocarbon range. PAHs either were not detected or were detected at concentrations less than the MTCA Method A cleanup levels in B-10.

Lube oil-range hydrocarbons were detected at concentrations greater than the MTCA Method A cleanup level of 0.5 mg/l in the groundwater sample obtained from B-12 (11.0 mg/l). Diesel-range hydrocarbons and PAHs either were not detected or were detected at concentrations less than MTCA Method A cleanup levels in groundwater sample B-12.

Hydrocarbons were not detected in groundwater sample B-14a. Gasoline-, diesel- and lube oil-range hydrocarbons were not detected in groundwater sample B-16.

TERRESTRIAL ECOLOGICAL EVALUATION

A terrestrial ecological evaluation (TEE) is required under MTCA for sites with releases of hazardous substances to soil. The site did not meet any of the primary exclusions required to be exempt from the TEE. However, the site did qualify for use of the simplified TEE procedure. Based on an exposure analysis using Table 749-1 (WAC 173-340-7492(2)(a)(ii)), no further evaluation is necessary to conclude that the site does not pose a substantial threat of significant adverse effects to terrestrial ecological receptors. This determination of “no further evaluation” is based on: 1) the relatively small area of undeveloped land that exists on the site; 2) the relatively low habitat quality that presently exists on the site; and 3) the apparent absence of on-site soil contaminants such as dioxins/furans, PCBs, DDT and benzene.

CONCLUSIONS

The following is a summary of our conclusions regarding the subsurface assessment conducted at the site.

- Field screening and chemical analytical results for soil samples obtained from borings B-10, B-10a and B-12 indicate that lube oil-range hydrocarbon-contaminated soil is present at depths ranging from approximately 4 to 7 feet beneath ground surface. These borings are located in and near the steam cleaning area and near the bus maintenance shop’s eastern hydraulic hoist. Diesel and/or oil-range hydrocarbon contaminated groundwater also was identified at the location of the steam cleaning area (B-10) and eastern hydraulic hoist in the bus maintenance shop (B-12).

- Chemical analytical results from boring B-13 indicate that naphthalene-contaminated soil is present at a depth of 6 feet. Field screening results at B-13 also indicate the presence of petroleum-contaminated soil at 6 feet. This boring is located near the former used oil UST south of the maintenance building.
- Field screening results at B-14 indicate that petroleum-related soil and groundwater contamination may be present at that location. However, the analytical data for a soil sample from 4 feet did not support the field screening results.
- Field screening results at SS-1 through SS-5 indicate that near-surface petroleum-related soil contamination may be present within the top 6 inches of soil in the vicinity of the bus barn.

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 UST at the Northshore Pool Building (B-1), the heating oil AST near Anderson Building (B-2), the heating oil UST at the Ricketts Building (B-3), the former heating oil UST 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). Please note that the borings were completed at widely spaced areas over a large site area. It is 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 this study. Because of the historical site use, the results of our study should be used to signify that large-scale contamination was not identified. However, contingencies should be considered for encountering, managing and handling contaminated soil and/or groundwater during any future site use.

LIMITATIONS

We have prepared this report for the exclusive use of the Northshore School District, their authorized agents and regulatory agencies.

Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted environmental science practices in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood. Exploration locations for the Phase 2 ESA were selected based on a brief site reconnaissance with Shockey/Brent, Inc. identifying readily apparent potential sources of subsurface contamination, and communications with Shockey/Brent, Inc. regarding the preliminary results of their Phase 1 ESA. Because of project schedule, we did not have the opportunity to review the final Phase I ESA report prior to the development and implementation of the exploration program for the Phase 2 ESA. Further, the Phase 2 ESA explorations were widely-spaced over a large site area. It is 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 Phase 2 ESA study. Additional possible sources of subsurface contamination are listed in the Introduction and Background section of this report. Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

Please refer to Appendix D titled "Report Limitations and Guidelines for Use," for additional information pertaining to use of this report.

TABLE 1
SAMPLING AND ANALYSIS SUMMARY
DECEMBER 2005 SITE CHARACTERIZATION SAMPLES
NORTHSHORE DOWNTOWN BOTHELL PROPERTIES
BOTHELL, WASHINGTON

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Boring Number ¹	Potential Source of Contamination	Depth of Exploration (feet bgs)	Field Screening Evidence of Subsurface Contamination? ²	Samples Submitted for Analysis ³ (matrix, analyses)
B-1	Heating Oil UST for Swimming Pool	10.0	No	None
B-2	Heating Oil AST for Anderson Bldg.	15.0	Slight sheen at water table (10 feet)	B-2-10 (soil analyzed for HCID)
B-3	Heating Oil UST for Ricketts Bldg.	10.0	Slight sheen at water table (6 feet)	B-3-6 (soil analyzed for HCID)
B-4	Former Heating Oil UST behind Cold Storage Bldg. (through excavation backfill)	10.0	No	None
B-4a	Former Heating Oil UST behind Cold Storage Bldg. (through native material)	10.0	No	None
B-5	Catch Basin near City Maintenance Bldg.		Not explored	
B-6	Catch Basin near City Maintenance Bldg.		Not explored	
B-7	Historic Used Oil Dumping	10.0	No	None
B-8	North of Steam Cleaning Area and Hydraulic Hoist	10.0	No	None
B-9	West End of Steam Cleaning Area and Hydraulic Hoist		Not explored -- utility issue	
B-10	East End of Steam Cleaning Area and Hydraulic Hoist	10.0	Heavy sheen at 4 to 7 feet	B-10-5 (soil analyzed for D, LO, PAHs), B-10-9.5 (soil analyzed for HCID, D, LO), B-10 (water analyzed for D, LO, PAHs)
B-10a	West of Steam Cleaning Area and Hydraulic Hoist	10.0	Heavy sheen at 5 to 6 feet	B-10a-5 (soil analyzed for D, LO, PAHs)
B-11	Hydraulic Hoist and Floor Drain	10.0	No	None
B-12	Hydraulic Hoist	10.0	Moderate to heavy sheen from 2 to 9 feet	B-12-8 (soil analyzed for D, LO, PAHs), B-12 (water analyzed for D, LO, PAHs)
B-13	Former Used Oil UST	10.0	Heavy sheen at 6 feet	B-13-6 (soil analyzed for G, D, LO, BETX, PAHs, HVOCs, Metals), B-13-8 (soil analyzed for HCID)
B-14	Former/Inactive Gasoline and Diesel USTs	10.0	Moderate sheen at water table (4 feet)	B-14-4 (soil analyzed for D, LO), B-14-6 (soil analyzed for HCID)
B-14a	East of Former/Inactive Gasoline and Diesel USTs	10.0	No	B-14a (water analyzed for HDIC)
B-15	Existing/Active Gasoline and Diesel USTs	10.0	No	None
B-15a	Existing/Active Gasoline and Diesel USTs	10.0	No	None
B-16	Fuel Dispensers	10.0	Slight sheen at 2 feet	B-16-2 (soil analyzed for HCID, D, LO), B-16 (water analyzed for HCID, G, D, LO)
B-16a	Fuel Dispensers	10.0	No	None
SS-1 through SS-5	Bus Parking Area (shallow samples excavated with hand tools)	6 to 9 inches	Slight sheen and surface staining	None

Notes appear on page 2 of 2.

Notes:

¹ Approximate exploration locations are shown in Figures 2 through 7.

² Field screening methods are described in Appendix A.

³ Chemical analytical results are summarized in Tables 2 through 5. Laboratory reports are presented in Appendix C.

HCID = hydrocarbon identification; G = gasoline-range hydrocarbons; D = diesel-range hydrocarbons; LO = lube oil-range hydrocarbons

BETX = benzene, ethylbenzene, toluene and xylenes; PAHs = polycyclic aromatic hydrocarbons

HVOCs = halogenated volatile organic compounds; Metals = arsenic, cadmium, chromium, mercury and lead

UST = underground storage tank

AST = aboveground storage tank

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TABLE 2
SUMMARY OF SOIL FIELD SCREENING AND CHEMICAL ANALYTICAL RESULTS
DECEMBER 2005 SITE CHARACTERIZATION SAMPLES
 NORTHSHORE DOWNTOWN BOTHELL PROPERTIES
 BOTHELL, WASHINGTON

Boring Number- Sample Depth ¹ (feet bgs)	Date Sampled	Field Screening Results ²		Qualitative Hydrocarbon Identification ³ (mg/kg)	BETX ⁴ (mg/kg)				Gasoline-range Hydrocarbons ⁵ (mg/kg)	Diesel-range Hydrocarbons ⁶ (mg/kg)	Lube Oil-range Hydrocarbons ⁶ (mg/kg)
		Headspace Vapors (ppm)	Sheen		B	E	T	X			
B-2-10	12/21/05	0.6	SS	ND	--	--	--	--	--	--	--
B-3-6	12/21/05	0.2	SS	ND	--	--	--	--	--	--	--
B-10-5 ⁷	12/21/05	0.2	HS	--	--	--	--	--	1,100	3,100	
B-10-9.5	12/21/05	0.0	NS	Lube Oil >100	--	--	--	--	--	<25	220
B-10a-5 ⁷	12/21/05	1.0	HS	--	--	--	--	--	790	2,300	
B-12-8 ⁷	12/20/05	23.5	HS	--	--	--	--	--	<500	16,000	
B-13-6 ⁷	12/19/05	80.5	HS	--	<0.06	<0.1	<0.1	<0.4	<68	1,100	60
B-13-8	12/19/05	0.0	NS	ND	--	--	--	--	--	--	--
B-14-4	12/19/05	72.1	MS	--	--	--	--	--	44	<50	
B-14-6	12/19/05	0.0	NS	ND	--	--	--	--	--	--	--
B-16-2	12/20/05	13.9	SS	Diesel >50; Light/Lube Oil >100	--	--	--	--	--	450	1,300
MTCA Method A Cleanup Level					0.03	6	7	9	100	2,000	2,000

Notes:

¹Approximate exploration location shown in Figures 3 through 7.

²Field screening methods are described in Appendix B. NS = no sheen; SS = slight sheen; MS = moderate sheen; HS = heavy sheen. Headspace vapors measured using a MicroTIP Photoionization Detector.

³Analyzed by Ecology Method NWTPH-HCID.

⁴B = benzene; E = ethylbenzene; T = toluene; X = xylenes. BETX analyzed by EPA Method 8021B. Sampled using EPA Method 5035A sampling protocols.

⁵Gasoline-range hydrocarbons analyzed by Ecology Method NWTPH-Gx. Sampled using EPA Method 5035A sampling protocols.

⁶Analyzed by Ecology Method NWTPH-Dx with a silica gel cleanup.

⁷See Table 3 and/or 4 for additional analytical results.

mg/kg = milligrams per kilogram

-- = not analyzed NA = not applicable ND = not detected

Shading indicates a concentration exceeding the MTCA Method A cleanup level.

Chemical analysis conducted by CCI Analytical Laboratories, Inc. of Everett, Washington. The laboratory reports are presented in Appendix C.

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TABLE 3
POLYCYCLIC AROMATIC HYDROCARBONS IN SOIL
 NORTHSHORE DOWNTOWN BOTHELL PROPERTIES
 BOTHELL, WASHINGTON

Soil Sample Identification ¹	Non-carcinogenic PAHs (mg/kg)		cPAHs (mg/kg)			
	Analyte	Result	Analyte	Result ²	TEF ³	TEQ ⁴
B-10-5	ND		Benzo(a)anthracene	0.01	0.1	0.001
	ND		Benzo(b)fluoranthene	0.01	0.1	0.001
	ND		Benzo(k)fluoranthene	0.01	0.1	0.001
	ND		Benzo(a)pyrene	0.01	1.0	0.01
	ND		Chrysene	0.10	0.01	0.001
	ND		Dibenzo(a,h)anthracene	0.01	0.4	0.004
	ND		Indeno(1,2,3-cd)pyrene	0.01	0.1	0.001
	ND		Total cPAHs			0.019
B-10a-5	ND		ND			
B-12-8	Naphthalenes	0.22	Benzo(a)anthracene	0.01	0.1	0.001
	Phenanthrene	0.11	Benzo(b)fluoranthene	0.01	0.1	0.001
	Fluoranthene	0.09	Benzo(k)fluoranthene	0.01	0.1	0.001
	Pyrene	0.16	Benzo(a)pyrene	0.01	1.0	0.01
			Chrysene	0.19	0.01	0.0019
			Dibenzo(a,h)anthracene	0.01	0.4	0.004
			Indeno(1,2,3-cd)pyrene	0.01	0.1	0.001
			Total cPAHs			0.020
B-13-6	Naphthalenes	7.45	ND			
	Acenaphthylene	0.07	ND			
	Acenaphthene	0.36	ND			
	Fluorene	0.27	ND			
	Phenanthrene	1.0	ND			
	Anthracene	1.7	ND			
	Fluoranthene	0.10	ND			
MTCA Method A Cleanup Level	Naphthalenes	5.0	0.1			

Notes:

¹Approximate exploration locations are shown on Figures 3 through 7.

²Carcinogenic polycyclic aromatic hydrocarbons (cPAHs) that were not detected were assigned a value of one-half the detection limit.

³Toxicity equivalency factor per 173-340-708(8) based on TEFs presented in California Air Resources Board "Benzo(a)pyrene as a Toxic Air Contaminant" July 1994.

⁴Toxic equivalent; calculated by multiplying the result by the TEF.

Shading indicates a concentration exceeding the MTCA Method A cleanup level.

NA = not applicable; ND = not detected

Chemical analyses conducted by CCI Analytical Laboratories, Inc. of Everett, Washington. Laboratory results are presented in Appendix C.

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TABLE 4
SUMMARY OF HVOCs AND METALS CHEMICAL ANALYTICAL RESULTS FOR SOIL
NORTHSHORE DOWNTOWN BOTHELL PROPERTIES
BOTHELL, WASHINGTON

Soil Sample Identification	Date Sampled	HVOCs (µg/kg)	Arsenic (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Mercury (mg/kg)	Lead (mg/kg)
B-13-6	12/19/05	ND	16	1.5	27	0.02	8.0
MTCA Cleanup Level		varies	20 ¹	80 ²	19 ¹ /2,000 ¹	24 ²	250 ¹

Notes:

¹MTCA Method A cleanup level
²MTCA method B cleanup level
 19 mg/kg is the MTCA Method A cleanup level for chromium VI.
 2,000 mg/kg is the MTCA Method A cleanup level for chromium III.
 ND = not detected
 MTCA = Model Toxics Control Act
 Chemical analysis conducted by CCI Analytical Laboratories, Inc. of Everett, Washington. The laboratory reports are presented in Appendix C.

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TABLE 5
SUMMARY OF GROUNDWATER CHEMICAL ANALYTICAL DATA
 NORTHSORE DOWNTOWN BOTHELL PROPERTIES
 BOTHELL, WASHINGTON

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Groundwater Sample Identification ¹	Qualitative Hydrocarbon Identification ² (mg/l)	Gasoline-range Hydrocarbons ³ (mg/l)	Diesel-range Hydrocarbons ⁴ (mg/l)	Lube Oil-range Hydrocarbons ⁴ (mg/l)	Non-carcinogenic PAHs (µg/l)		cPAHs (µg/l)			
					Analyte	Result	Analyte	Result ⁵	TEF ⁶	TEQ ⁷
B-10	NA	NA	1.6	5.0	Benzo(g,h,i)perylene	0.12	Benzo(a)anthracene	0.01	0.1	0.001
							Benzo(b)fluoranthene	0.015	0.1	0.0015
							Benzo(k)fluoranthene	0.015	0.1	0.0015
							Benzo(a)pyrene	0.010	1.0	0.01
							Chrysene	0.01	0.01	0.0001
							Dibenz(a,h)anthracene	0.015	0.4	0.006
							Indeno(1,2,3-cd)pyrene	0.01	0.1	0.001
							Total cPAHs			0.021
B-12	NA	NA	ND	11.0	Naphthalenes	0.77	Benzo(a)anthracene	0.01	0.1	0.001
							Benzo(b)fluoranthene	0.015	0.1	0.0015
							Benzo(k)fluoranthene	0.015	0.1	0.0015
							Benzo(a)pyrene	0.010	1.0	0.01
							Chrysene	0.02	0.01	0.0002
							Dibenz(a,h)anthracene	0.015	0.4	0.006
							Indeno(1,2,3-cd)pyrene	0.01	0.1	0.001
							Total cPAHs			0.021
B-14a	ND	NA	NA	NA	NA	NA	NA	NA	NA	
B-16	Oil > 0.31	ND	ND	ND	NA	NA	NA	NA	NA	
MTCA Method A Cleanup Level		1.0	0.500	0.500	Naphthalenes	160				0.1

Notes:

¹Approximate exploration locations are shown on Figures 3 through 7.

²Analyzed by Ecology Method NWTPH-HCID.

³Analyzed by Ecology Method NWTPH-G.

⁴Analyzed by Ecology Method NWTPH-Dx with a silica gel cleanup.

⁵Carcinogenic polycyclic aromatic hydrocarbons (cPAHs) that were not detected were assigned a value of one-half the detection limit.

⁶Toxicity equivalency factor per 173-340-708(8) based on TEFs presented in California Air Resources Board "Benzo(a)pyrene as a Toxic Air Contaminant" July 1994.

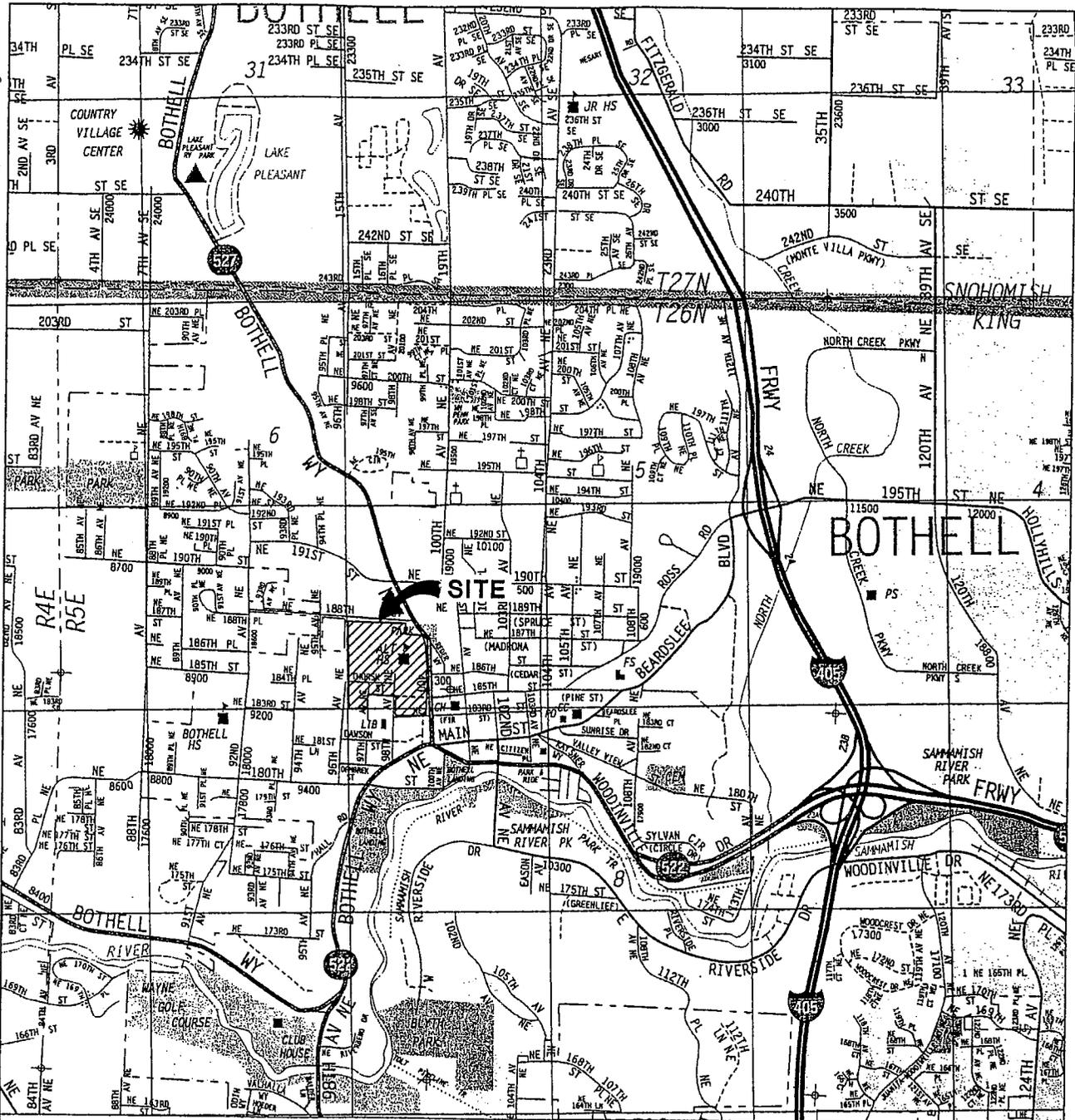
⁷Toxic equivalent; calculated by multiplying the result by the TEF.

Shading indicates a concentration exceeding the MTCA Method A cleanup level.

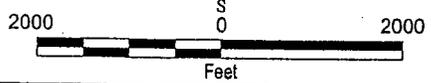
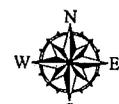
NA = not applicable; ND = not detected

Chemical analyses conducted by CCI Analytical Laboratories, Inc. of Everett, Washington. Laboratory results are presented in Appendix C.

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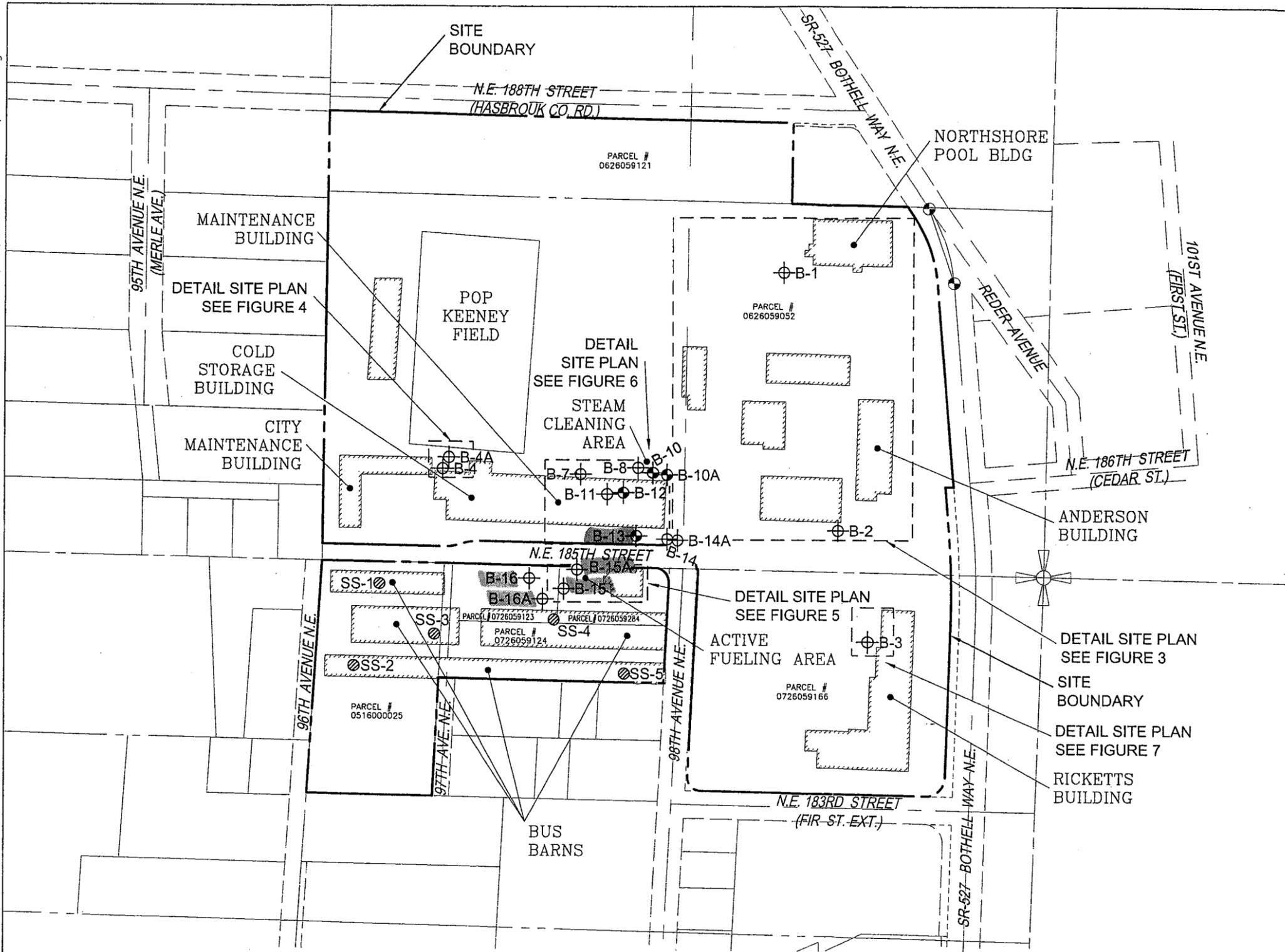
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Vicinity Map	
Northshore School District Bothell, Washington	
GEOENGINEERS 	Figure 1

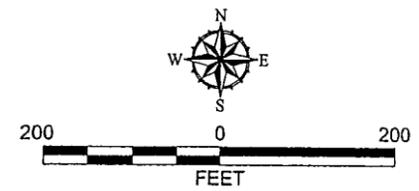
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- Legend:**
- ⊕ B-1 Boring completed by GeoEngineers in December 2005 with no observed contamination or where contaminants were not detected or detected at concentrations that did not exceed applicable MTCA cleanup levels
 - ⊕ B-13 Boring completed by GeoEngineers in December 2005 with one or more contaminant concentrations exceeding MTCA Method A cleanup levels
 - ⊗ SS-1 Near-surface soil sample obtained by GeoEngineers in December 2005

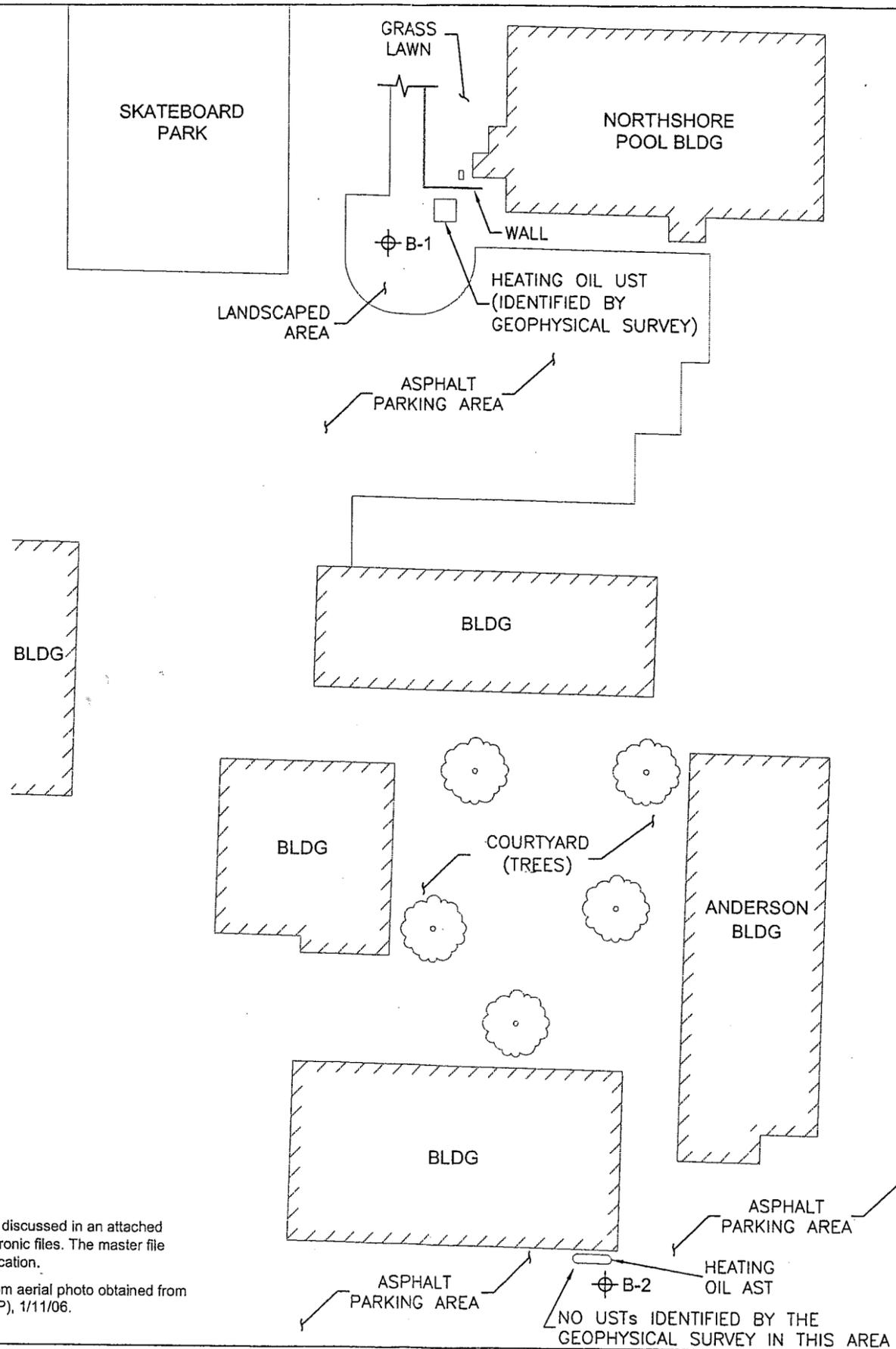


Notes:

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 file provided by Pace Engineers, 12/28/05. Site details developed from aerial photo obtained from King County GIS Center iMAP (<http://www.metrokc.gov/gis/mappointal/iMAP>), 1/11/06.

Site Plan	
Northshore Downtown Bothell Properties Bothell, Washington	
GEOENGINEERS	Figure 2



Legend:

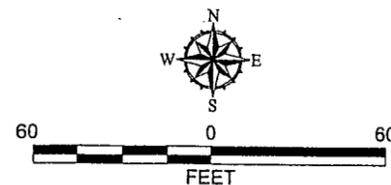
- ⊕ B-1 Boring completed by GeoEngineers in December 2005 with no observed contamination or where contaminants were not detected or detected at concentrations that did not exceed applicable MTCA cleanup levels
- ⊕ B-13 Boring completed by GeoEngineers in December 2005 with one or more contaminant concentrations exceeding MTCA Method A cleanup levels
- ⊙ SS-1 Near-surface soil sample obtained by GeoEngineers in December 2005
- AST Above ground storage tank
- UST Underground storage tank

Notes:

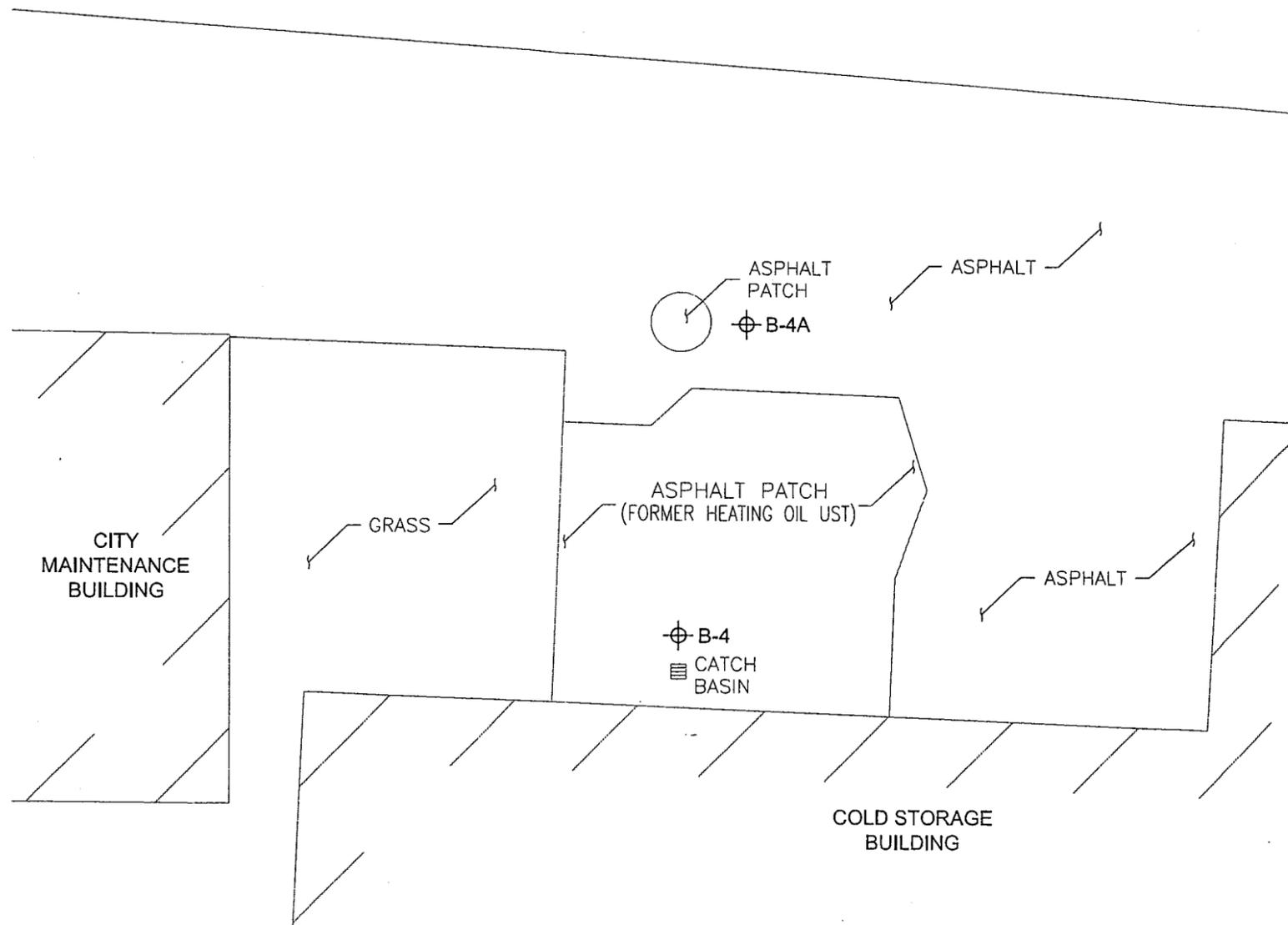
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers,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

Reference: CAD file provided by Pace Engineers, 12/28/05. Site details developed from aerial photo obtained from King County GIS Center iMAP (<http://www.metrokc.gov/gis/mappointal/iMAP>), 1/11/06. Additional site details developed from GeoEngineers' staff field sketches.

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Detail Site Plan	
Pool and Anderson Bldg Heating Oil Tanks	
Northshore Downtown Bothell Properties Bothell, Washington	
GEOENGINEERS	Figure 3



Legend:

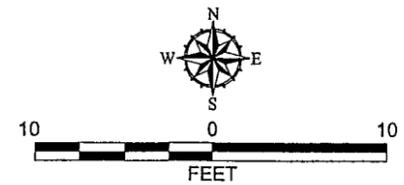
- ⊕ B-1 Boring completed by GeoEngineers in December 2005 with no observed contamination or where contaminants were not detected or detected at concentrations that did not exceed applicable MTCA cleanup levels
- ⊕ B-13 Boring completed by GeoEngineers in December 2005 with one or more contaminant concentrations exceeding MTCA Method A cleanup levels
- ⊙ SS-1 Near-surface soil sample obtained by GeoEngineers in December 2005
- AST Above ground storage tank
- UST Underground storage tank

Notes:

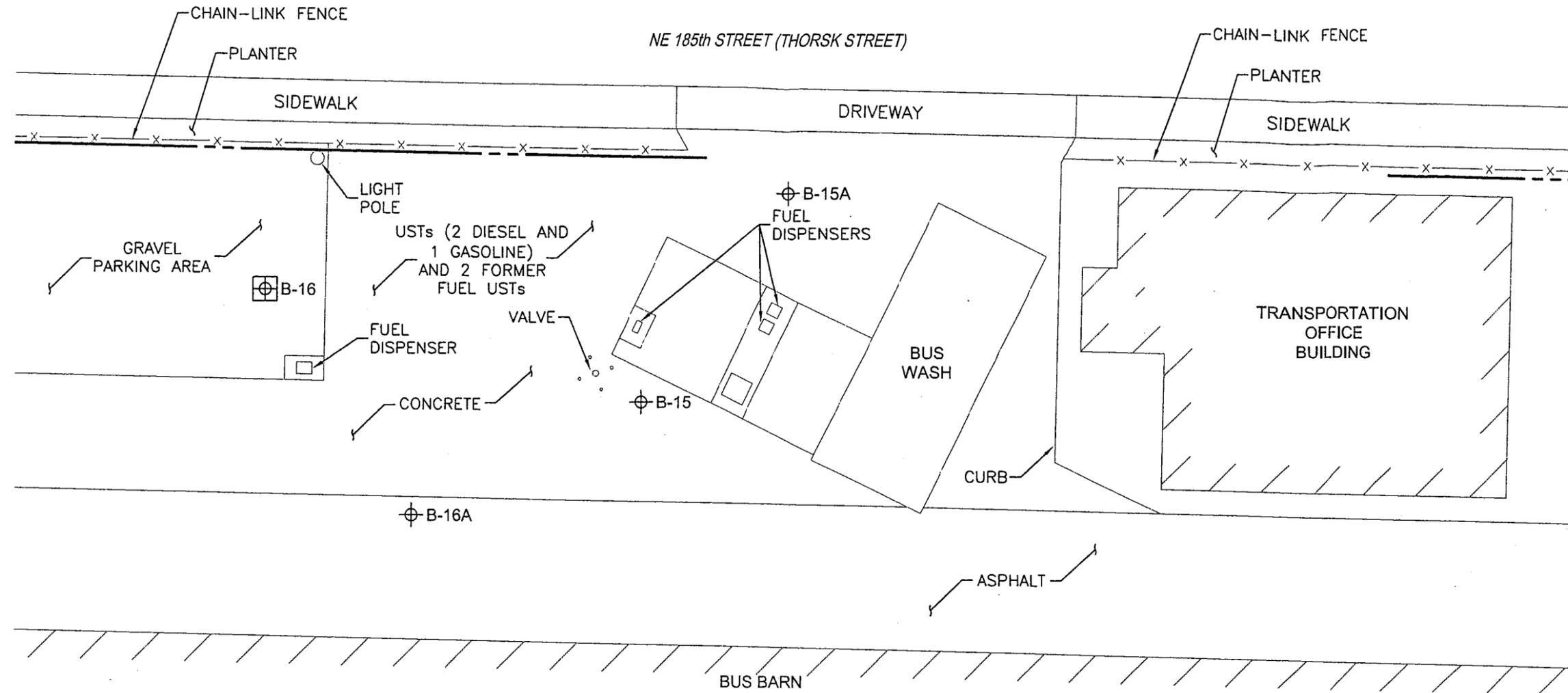
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers,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

Reference: CAD file provided by Pace Engineers, 12/28/05. Site details developed from aerial photo obtained from King County GIS Center iMAP (<http://www.metrokc.gov/gis/mappointal/iMAP>), 1/11/06. Additional site details developed from GeoEngineers' staff field sketches.

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Detail Site Plan	
Cold Storage Bldg Former Heating Oil Tank	
Northshore Downtown Bothell Properties Bothell, Washington	
GEOENGINEERS	Figure 4



Legend:

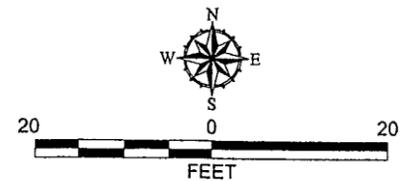
- ⊕ B-1 Boring completed by GeoEngineers in December 2005 with no observed contamination or where contaminants were not detected or detected at concentrations that did not exceed applicable MTCA cleanup levels
- ⊕ B-13 Boring completed by GeoEngineers in December 2005 with one or more contaminant concentrations exceeding MTCA Method A cleanup levels
- ⊙ SS-1 Near-surface soil sample obtained by GeoEngineers in December 2005
- ⊕ B-16 Boring where a groundwater sample was obtained by GeoEngineers in December 2005
- AST Above ground storage tank
- UST Underground storage tank

Notes:

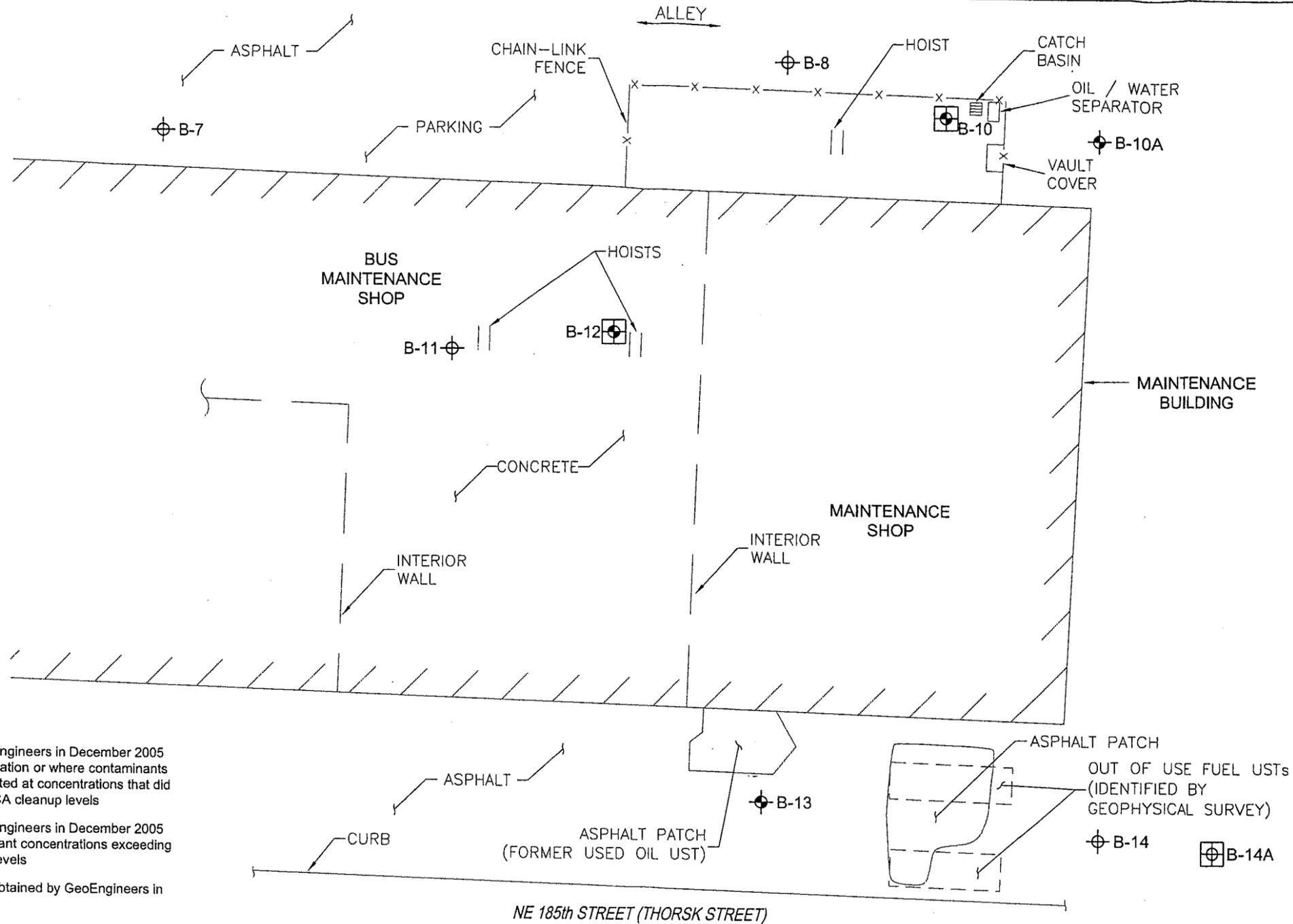
1. The locations of all features shown are approximate.
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers,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

Reference: CAD file provided by Pace Engineers, 12/28/05. Site details developed from aerial photo obtained from King County GIS Center iMAP (<http://www.metrokc.gov/gis/mappointal/IMAP>), 1/11/06. Additional site details developed from GeoEngineers' staff field sketches.

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Detail Site Plan Active Fueling Area	
Northshore Downtown Bothell Properties Bothell, Washington	
GEOENGINEERS	Figure 5



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
- ⊙ SS-1 Near-surface soil sample obtained by GeoEngineers in December 2005
- ⊕ B-10 Boring where a groundwater sample was obtained by GeoEngineers in December 2005
- AST Above ground storage tank
- UST Underground storage tank

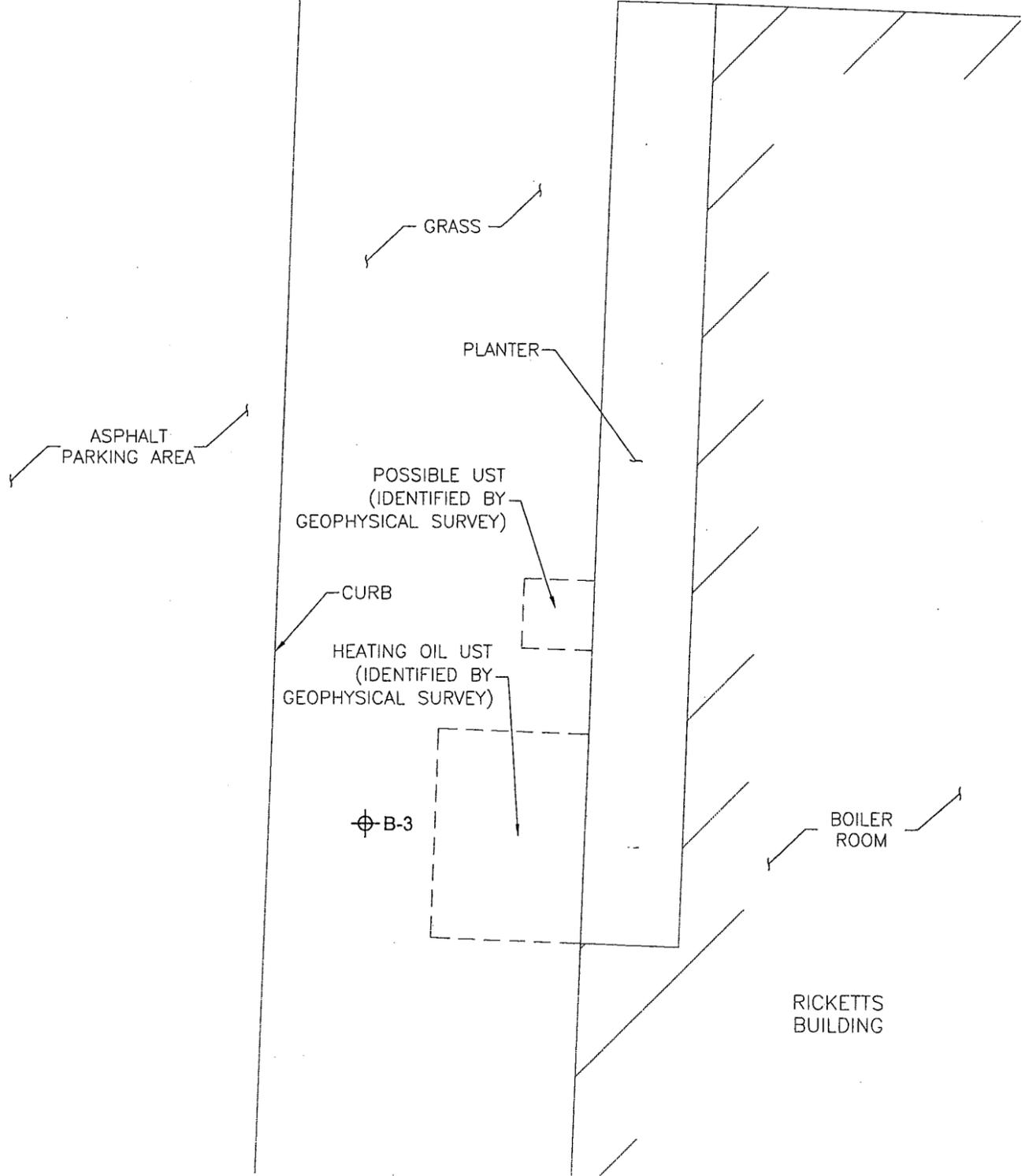
Notes:

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 file provided by Pace Engineers, 12/28/05. Site details developed from aerial photo obtained from King County GIS Center iMAP (<http://www.metrokc.gov/gis/mapprotal/iMAP>), 1/11/06. Additional site details developed from GeoEngineers' staff field sketches.

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Detail Site Plan Maintenance Building Area	
Northshore Downtown Bothell Properties Bothell, Washington	
GEOENGINEERS	Figure 6



Legend:

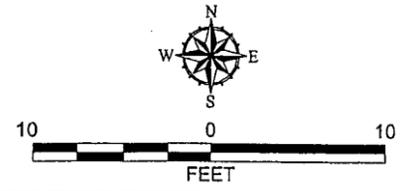
- ⊕ B-1 Boring completed by GeoEngineers in December 2005 with no observed contamination or where contaminants were not detected or detected at concentrations that did not exceed applicable MTCA cleanup levels
- ⊕ B-13 Boring completed by GeoEngineers in December 2005 with one or more contaminant concentrations exceeding MTCA Method A cleanup levels
- ⊙ SS-1 Near-surface soil sample obtained by GeoEngineers in December 2005
- AST Above ground storage tank
- UST Underground storage tank

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 file provided by Pace Engineers, 12/28/05. Site details developed from aerial photo obtained from King County GIS Center iMAP (<http://www.metrokc.gov/gis/mappointal/iMAP>), 1/11/06.
 Additional site details developed from GeoEngineers' staff field sketches.

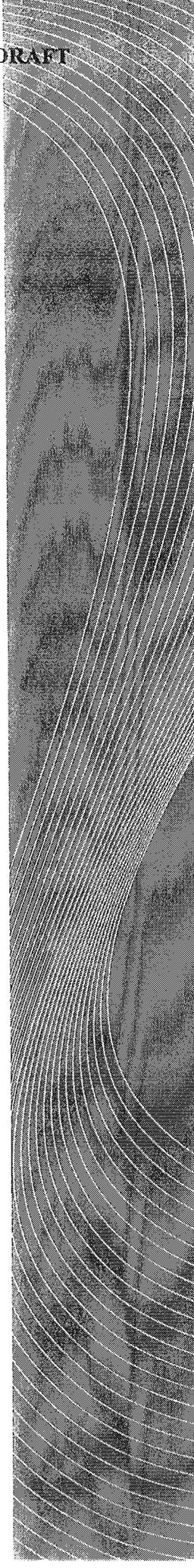
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Detail Site Plan	
Ricketts Building Heating Oil Tank	
Northshore Downtown Bothell Properties Bothell, Washington	
GEOENGINEERS	Figure 7



APPENDIX A
FIELD METHODS



APPENDIX A FIELD METHODS

SITE CHARACTERIZATION SAMPLING PROCEDURES

Subsurface conditions at the site were evaluated by drilling 18 direct-push soil borings using equipment operated by Geo-Tech Explorations (Boart Longyear) of Tualatin, Oregon between December 19 and 21, 2005. Boring locations were checked for utilities by Applied Professional Services, Inc. of North Bend, Washington prior to direct-push drilling activities. A representative from our staff observed and classified the soil encountered. Soil in the borings was visually classified in general accordance with ASTM D-2488-94, which is described in Figure A-1. A detailed log was prepared for each boring. The boring logs are presented in Figures A-2 through A-19.

The direct-push borings were completed to depths of approximately 10 to 15 feet beneath ground surface. Continuous soil cores were obtained from the direct-push borings using a 1.5-inch-diameter split-barrel sampler driven with a pneumatic hammer. The soil sampling equipment was decontaminated before each sampling attempt with a Liqui-Nox[®] solution wash and a distilled water rinse. Groundwater samples were obtained from selected borings with a peristaltic pump using dedicated disposable well screens and sample tubing. All sample containers were submitted to CCI Analytical Laboratories, Inc in Everett, Washington for analysis.

Purge and decontamination water generated during groundwater sampling was placed in a 55-gallon on site for temporary storage. The water will be removed on January 16, 2006, sparged for approximately 30 minutes and sampled for FOG and BETX, then disposed of at our Redmond facility in accordance with our Metro discharge authorization.

Near-surface soil samples (0- to 9-inch depths) were obtained for visual examination and water sheen testing (refer to the following section) at five on-site locations (SS-1 through SS-5) on December 22, 2005. The near-surface soil samples were obtained using hand sampling tools that were decontaminated with a Liqui-Nox[®] solution wash and a distilled water rinse between sample locations.

FIELD SCREENING OF SOIL SAMPLES

Soil samples obtained from the site were evaluated for the potential presence of contamination using field screening techniques. Field screening results can be used as a general guideline to delineate areas of potential petroleum-related contamination in soils. In addition, screening results are often used as a basis for selecting soil samples for chemical analysis. The screening methods employed included: (1) visual examination, (2) water sheen testing, and (3) headspace vapor testing.

Visual screening consists of inspecting the soil for stains indicative of petroleum-related contamination. Visual screening is generally more effective when contamination is related to heavy petroleum hydrocarbons such as motor oil, or when hydrocarbon concentrations are high. Sheen screening is a more sensitive screening method that can be effective in detecting petroleum-based products in concentrations lower than regulatory cleanup guidelines.

Water sheen testing involves placing soil in water and observing the water surface for signs of sheen. The results of water sheen testing on soil samples from the borings are presented on the test pit logs. Sheens are classified as follows:

No Sheen (NS)	No visible sheen on water surface.
Slight Sheen (SS)	Light, colorless, dull sheen; spread is irregular, not rapid; sheen dissipates rapidly.
Moderate Sheen (MS)	Light to heavy sheen, may have some color/iridescence; spread is irregular to flowing; few remaining areas of no sheen on water surface.
Heavy Sheen (HS)	Heavy sheen with color/iridescence; spread is rapid; entire water surface may be covered with sheen.

Headspace vapor screening involves placing a soil sample in a plastic sample bag. Air is captured in the bag and the bag is shaken to expose the soil to the air trapped in the bag. The probe of a photo-ionization detector (PID) is inserted in the bag and the instrument measures the concentration of combustible vapor in the air removed from the sample headspace. The PID measures concentrations in ppm (parts per million). The PID is designed to quantify photoionizable vapor concentrations in the range between 0 and 2,000 ppm. Field screening results are site-specific and vary with soil type, soil moisture content, temperature and type of contaminant.

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS <small>(LITTLE OR NO FINES)</small>		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
	SAND AND SANDY SOILS	CLEAN SANDS <small>(LITTLE OR NO FINES)</small>		SW	WELL-GRADED SANDS, GRAVELLY SANDS
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		SP	POORLY-GRADED SANDS, GRAVELLY SAND
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		SM	SILTY SANDS, SAND - SILT MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
		LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		LIQUID LIMIT LESS THAN 50		OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
		LIQUID LIMIT GREATER THAN 50		CH	INORGANIC CLAYS OF HIGH PLASTICITY
		LIQUID LIMIT GREATER THAN 50		OH	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

Sampler Symbol Descriptions

- 2.4-inch I.D. split barrel
- Standard Penetration Test (SPT)
- Shelby tube
- Piston
- Direct-Push
- Bulk or grab

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

A "P" indicates sampler pushed using the weight of the drill rig.

NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

ADDITIONAL MATERIAL SYMBOLS

SYMBOLS		TYPICAL DESCRIPTIONS
GRAPH	LETTER	
	CC	Cement Concrete
	AC	Asphalt Concrete
	CR	Crushed Rock/ Quarry Spalls
	TS	Topsoil/ Forest Duff/Sod



Measured groundwater level in exploration, well, or piezometer



Groundwater observed at time of exploration



Perched water observed at time of exploration



Measured free product in well or piezometer

Stratigraphic Contact

- Distinct contact between soil strata or geologic units
- Gradual change between soil strata or geologic units
- Approximate location of soil strata change within a geologic soil unit

Laboratory / Field Tests

- %F Percent fines
- AL Atterberg limits
- CA Chemical analysis
- CP Laboratory compaction test
- CS Consolidation test
- DS Direct shear
- HA Hydrometer analysis
- MC Moisture content
- MD Moisture content and dry density
- OC Organic content
- PM Permeability or hydraulic conductivity
- PP Pocket penetrometer
- SA Sieve analysis
- TX Triaxial compression
- UC Unconfined compression
- VS Vane shear

Sheen Classification

- NS No Visible Sheen
- SS Slight Sheen
- MS Moderate Sheen
- HS Heavy Sheen
- NT Not Tested

KEY TO EXPLORATION LOGS

Date(s) Drilled	12/21/05	Logged By	MR	Checked By	GWM
Drilling Contractor	Geo-Tech	Drilling Method	Geoprobe	Sampling Methods	2 1/4-inch-diameter Macroprobe Direct Push
Auger Data	5-foot-length sleeves	Hammer Data		Drilling Equipment	6600 Geoprobe
Total Depth (ft)	10	Surface Elevation (ft)		Groundwater Level (ft. bgs)	6.5
Vertical Datum		Datum/ System		Easting(x): Northing(y):	

Depth feet	SAMPLES						Group Symbol	MATERIAL DESCRIPTION	Sheen	Headspace Vapor PID (ppm)	NOTES
	Interval	Recovered (in)	Blows/foot	Sub-Sample Number	Testing	Water Level					
0							TS	3 inches mulch			
							SM	Brown silty fine to medium sand with trace organic matter (loose, moist) (fill)	NS	0.0	
							SM	Brownish gray silty fine to medium sand with gravel (loose, moist) (fill)			
							SM	Brown silty fine to medium sand with occasional gravel (loose, moist) (fill)	NS	0.0	
5	48			1			SM	Brownish gray silty fine sand with oxidation staining (medium dense, wet)	NS	0.0	
				2							
10	48						SM		NS	0.0	
15											
20											

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Note: See Figure A-1 for explanation of symbols.

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LOG OF BORING B-1



Project: Northshore School District
 Project Location: Bothell, Washington
 Project Number: 12666-001-00

Figure A-2
 Sheet 1 of 1

Date(s) Drilled	12/21/05	Logged By	MR	Checked By	GWM
Drilling Contractor	Geo-Tech	Drilling Method	Geoprobe	Sampling Methods	2¼-inch-diameter Macroprobe Direct Push
Auger Data	5-foot-length sleeves	Hammer Data		Drilling Equipment	6600 Geoprobe
Total Depth (ft)	15	Surface Elevation (ft)		Groundwater Level (ft. bgs)	9
Vertical Datum		Datum/ System		Easting(x): Northing(y):	

Depth feet	SAMPLES					Water Level	Graphic Log	Group Symbol	MATERIAL DESCRIPTION	Sheen	Headspace Vapor PID (ppm)	NOTES
	Interval	Recovered (in)	Blows/foot	Sub-Sample Number	Testing							
0								AC CR SP-SM	4 inches asphalt 3 inches crushed rock Brownish gray fine to medium sand with silt (loose, moist) (fill)	NS	0.0	
5	60									SS	0.0	
10	60		1	CA		▽			Becomes wet	SS	0.6	
			2							NS	0.0	
15	60									NS	0.0	
20												

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Note: See Figure A-1 for explanation of symbols.

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LOG OF BORING B-2



Project: Northshore School District
 Project Location: Bothell, Washington
 Project Number: 12666-001-00

Figure A-3
 Sheet 1 of 1

Date(s) Drilled	12/21/05	Logged By	MR	Checked By	GWM
Drilling Contractor	Geo-Tech	Drilling Method	Geoprobe	Sampling Methods	2 1/4-inch-diameter Macroprobe Direct Push
Auger Data	5-foot-length sleeves	Hammer Data		Drilling Equipment	6600 Geoprobe
Total Depth (ft)	10	Surface Elevation (ft)		Groundwater Level (ft. bgs)	6
Vertical Datum		Datum/ System		Easting(x): Northing(y):	

Depth feet	SAMPLES						Group Symbol	MATERIAL DESCRIPTION	Sheen	Headspace Vapor PID (ppm)	NOTES
	Interval Recovered (in)	Blows/foot	Sub-Sample Number	Testing	Water Level	Graphic Log					
0							SOD SM	1 inch sod Brown silty fine sand with gravel and trace organic matter (loose, moist) (fill)	NS	0.0	
5	36		1				SM	Becomes more gravelly	NS	0.0	
			2	CA	⌵			Brown silty fine to coarse sand with gravel (medium dense, wet)	SS	0.2	
			3						NS	0.0	
10	36								NS	0.0	
15											
20											

Note: See Figure A-1 for explanation of symbols.

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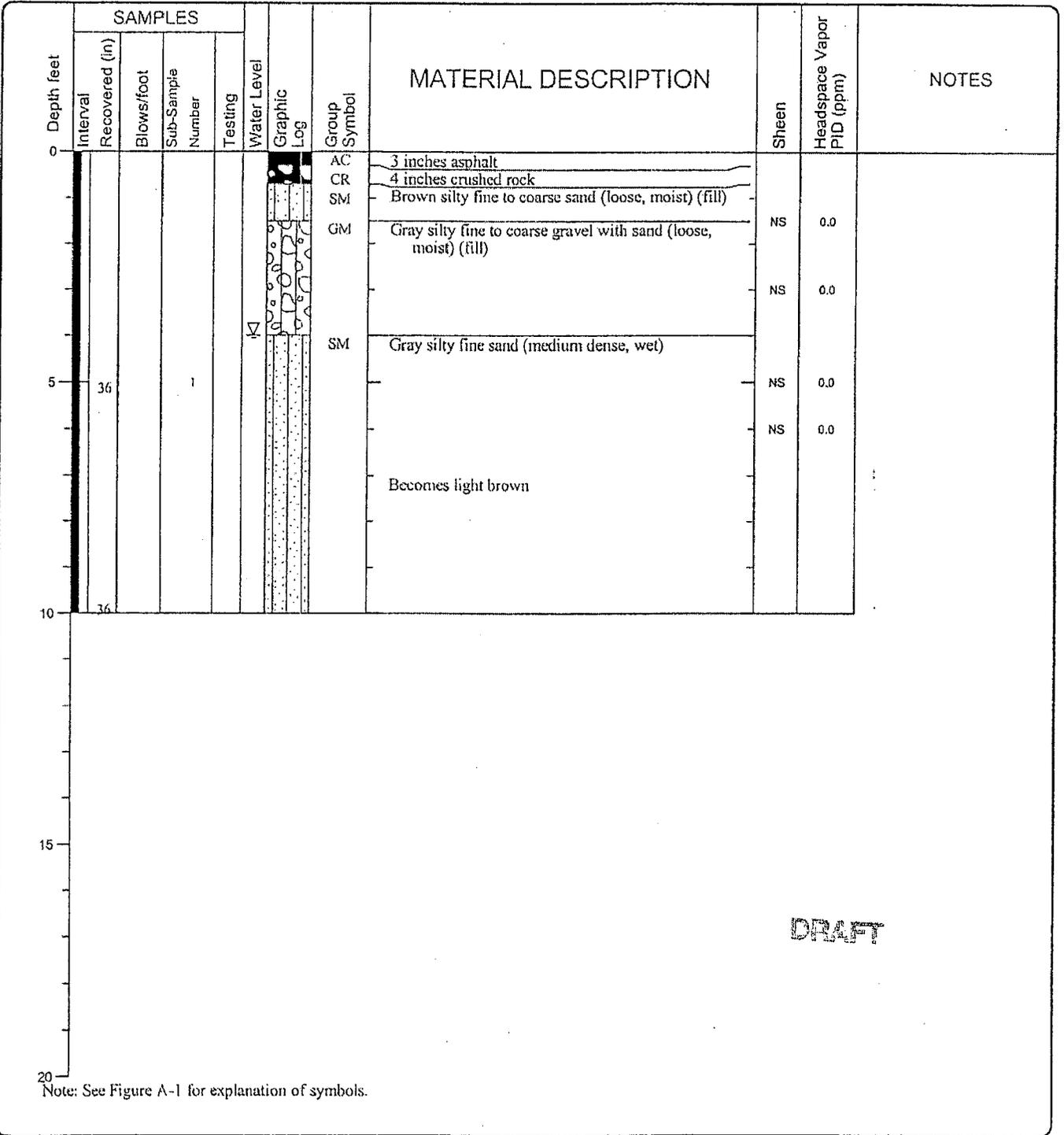
LOG OF BORING B-3



Project: Northshore School District
 Project Location: Bothell, Washington
 Project Number: 12666-001-00

Figure A-4
 Sheet 1 of 1

Date(s) Drilled	12/21/05	Logged By	MR	Checked By	GWM
Drilling Contractor	Geo-Tech	Drilling Method	Geoprobe	Sampling Methods	2¼-inch-diameter Macroprobe Direct Push
Auger Data	5-foot-length sleeves	Hammer Data		Drilling Equipment	6600 Geoprobe
Total Depth (ft)	10	Surface Elevation (ft)		Groundwater Level (ft. bgs)	4
Vertical Datum		Datum/ System		Easting(x):	
				Northing(y):	



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LOG OF BORING B-4		
	Project:	Northshore School District
	Project Location:	Bothell, Washington
	Project Number:	12666-001-00
		Figure A-5 Sheet 1 of 1

Date(s) Drilled	12/21/05	Logged By	MR	Checked By	GWM
Drilling Contractor	Geo-Tech	Drilling Method	Geoprobe	Sampling Methods	2 1/4-inch-diameter Macroprobe Direct Push
Auger Data	5-foot-length sleeves	Hammer Data		Drilling Equipment	6600 Geoprobe
Total Depth (ft)	10	Surface Elevation (ft)		Groundwater Level (ft. bgs)	4.5
Vertical Datum		Datum/ System		Easting(x): Northing(y):	

Depth feet	SAMPLES					Water Level Graphic Log	Group Symbol	MATERIAL DESCRIPTION	Sheen	Headspace Vapor PID (ppm)	NOTES
	Interval	Recovered (ft)	Blows/foot	Sub-Sample Number	Testing						
0							AC CR SM	4 inches asphalt 3 inches crushed rock Brown silty fine sand with occasional wood debris (loose, moist) (fill)	NS	0.2	
5	54			1			GP SM SM	Gray gravel (pulverized rock) Light brown silty fine sand (loose, wet) Gray silty fine to coarse sand with gravel (medium dense, wet)	NS NS NS	0.1 0.0 0.0	
10	54										
15											
20											

Note: See Figure A-1 for explanation of symbols.

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LOG OF BORING B-4a



Project: Northshore School District
 Project Location: Bothell, Washington
 Project Number: 12666-001-00

Figure A-6
Sheet 1 of 1

Date(s) Drilled	12/20/05	Logged By	MR	Checked By	GWM
Drilling Contractor	Geo-Tech	Drilling Method	Geoprobe	Sampling Methods	2 1/4-inch-diameter Macroprobe Direct Push
Auger Data	5-foot-length sleeves	Hammer Data		Drilling Equipment	6600 Geoprobe
Total Depth (ft)	10	Surface Elevation (ft)		Groundwater Level (ft. bgs)	4
Vertical Datum		Datum/ System		Easting(x): Northing(y):	

Depth feet	SAMPLES					Water Level	Graphic Log	Group Symbol	MATERIAL DESCRIPTION	Sheen	Headspace Vapor PID (ppm)	NOTES
	Interval	Recovered (in)	Blows/foot	Sub-Sample Number	Testing							
0								AC	3 inches asphalt			
								CR	4 inches crushed rock			
								SM	Brown to orange silty fine sand (loose, moist) (fill)	NS	0.0	
			1					SM	Gray silty fine to medium sand with trace organic matter (medium dense, wet)	NS	0.0	
5	S2		2					SM		NS	0.0	
			3					SM		NS	0.0	
								SP-SM	Gray fine to coarse sand with silt and gravel (medium dense, wet)	NS	0.0	
10	S2							SM	Gray silty fine to medium sand with occasional gravel (dense, moist)	NS	0.0	
15												
20												

Note: See Figure A-1 for explanation of symbols.

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LOG OF BORING B-7



Project: Northshore School District
 Project Location: Bothell, Washington
 Project Number: 12666-001-00

Figure A-7
 Sheet 1 of 1

Date(s) Drilled	12/20/05	Logged By	MR	Checked By	GWM
Drilling Contractor	Geo-Tech	Drilling Method	Geoprobe	Sampling Methods	2 1/4-inch-diameter Macroprobe Direct Push
Auger Data	5-foot-length sleeves	Hammer Data		Drilling Equipment	6600 Geoprobe
Total Depth (ft)	10	Surface Elevation (ft)		Groundwater Level (ft. bgs)	4
Vertical Datum		Datum/ System		Easting(x): Northing(y):	

Depth feet	SAMPLES					Group Symbol	MATERIAL DESCRIPTION	Sheen	Headspace Vapor PID (ppm)	NOTES
	Interval Recovered (in)	Blows/foot	Sub-Sample Number	Testing	Water Level Graphic Log					
0						AC	4 inches asphalt			
						CR	3 inches crushed rock			
			1			SM	Brown/orange-red silty fine sand with organic matter (loose, moist) (fill)	NS	0.0	
						SM	Grayish brown silty fine sand with oxidation staining (medium dense, moist) Becomes wet	NS	0.0	
5	48		2					NS	0.2	
								SS	0.2	
			3			SP-SM	Gray fine to coarse sand with silt and gravel (medium dense, wet)	NS	0.0	
						SM	Gray silty fine to medium sand (dense, moist)	NS	0.0	
10	48							NS	0.0	
								NS	0.0	
								NS	0.0	
15										
20										

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Note: See Figure A-1 for explanation of symbols.

LOG OF BORING B-8



Project: Northshore School District
 Project Location: Bothell, Washington
 Project Number: 12666-001-00

Figure A-8
 Sheet 1 of 1

V6 ENVBORING P:\12\12666001\00V\INALS\1266600100.GPJ GEIV6 1.GDT 1/10/06

Date(s) Drilled	12/21/05	Logged By	MR	Checked By	GWM
Drilling Contractor	Geo-Tech	Drilling Method	Geoprobe	Sampling Methods	2 1/4-inch-diameter Macroprobe Direct Push
Auger Data	5-foot-length sleeves	Hammer Data		Drilling Equipment	6600 Geoprobe
Total Depth (ft)	10	Surface Elevation (ft)		Groundwater Level (ft. bgs)	4
Vertical Datum		Datum/ System		Easting(x): Northing(y):	

Depth feet	SAMPLES					Water Level	Graphic Log	Group Symbol	MATERIAL DESCRIPTION	Sheen	Headspace Vapor PID (ppm)	NOTES
	Interval Recovered (in)	Blows/foot	Sub-Sample Number	Testing								
0								AC	4 inches asphalt			
								CR	3 inches crushed rock			
								SM	Brown-orange silty fine to medium sand with occasional gravel (loose, moist) (fill)	SS	0.0	
			1					SM	Gray silty fine sand with oxidation staining (loose, wet)	HS	0.2	
5	48		2	CA				SM	Gray silty fine to coarse sand with gravel (medium dense, wet)	HS	0.3	
								SM	Gray silty fine sand (medium dense, moist)	NS	0.0	
10	48		3									

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Note: See Figure A-1 for explanation of symbols.

V6 ENVBORING P:\121266600\100\FINAL\SH1266600100.GPJ GEIV6_1.GDT 1/13/05

LOG OF BORING B-10	
	Project: Northshore School District
	Project Location: Bothell, Washington
	Project Number: 12666-001-00
Figure A-9 Sheet 1 of 1	

Date(s) Drilled	12/21/05	Logged By	MR	Checked By	GWM
Drilling Contractor	Geo-Tech	Drilling Method	Geoprobe	Sampling Methods	2¼-inch-diameter Macroprobe Direct Push
Auger Data	5-foot-length sleeves	Hammer Data		Drilling Equipment	6600 Geoprobe
Total Depth (ft)	10	Surface Elevation (ft)		Groundwater Level (ft. bgs)	4
Vertical Datum		Datum/ System		Easting(x): Northing(y):	

Depth feet	SAMPLES					Water Level	Graphic Log	Group Symbol	MATERIAL DESCRIPTION	Sheen	Headspace Vapor PID (ppm)	NOTES
	Interval	Recovered (in)	Blows/foot	Sub-Sample Number	Testing							
0								AC	4 inches asphalt			
								CR	3 inches crushed rock			
								SM	Gray-brown silty fine to medium sand with occasional gravel (loose, moist) (fill)			
				1					Becomes orange-brown	NS	0.0	
								SM	Light brown silty fine to medium sand with heavy oxidation staining (loose, moist)	NS	0.0	
									Becomes wet			
5	48			2	CA			SM	Gray silty fine to coarse sand with gravel (medium dense, wet)	HS	1.0	
										NS	0.9	
								SM	Gray silty fine to medium sand (dense, moist)	NS	0.0	
10	48			3								
15												
20												

Note: See Figure A-1 for explanation of symbols.

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LOG OF BORING B-10a



Project: Northshore School District
 Project Location: Bothell, Washington
 Project Number: 12666-001-00

Figure A-10
 Sheet 1 of 1

V6 ENVBORING P:\12112666001\001\FINAL\S1266600100.GPJ GEIV6_1.GDT 1/13/06

Date(s) Drilled	12/20/05	Logged By	MR	Checked By	GWM
Drilling Contractor	Geo-Tech	Drilling Method	Geoprobe	Sampling Methods	2 1/4-inch-diameter Macroprobe Direct Push
Auger Data	5-foot-length sleeves	Hammer Data		Drilling Equipment	6600 Geoprobe
Total Depth (ft)	10	Surface Elevation (ft)		Groundwater Level (ft. bgs)	5
Vertical Datum		Datum/ System		Easting(x): Northing(y):	

Depth feet	SAMPLES					Water Level	Graphic Log	Group Symbol	MATERIAL DESCRIPTION	Sheen	Headspace Vapor PID (ppm)	NOTES
	Interval	Recovered (in)	Blows/foot	Sub-Sample Number	Testing							
0								AC	4 inches asphalt			
								CR	3 inches crushed rock			
								ML	Dark brown silt with fine sand (medium stiff, moist)			
				1				SM	Gray silty fine sand with a trace organic matter and oxidation staining (loose, moist)	NS	0.0	
								SM	Gray silty fine sand with a trace organic matter and oxidation staining (loose, moist)	NS	0.2	
5	48							SM	Gray silty fine to medium sand with gravel (medium dense, wet)	NS	0.0	
				2				SM	Gray silty fine to medium sand with gravel (medium dense, wet)	NS	0.3	
								SM	Gray silty fine to coarse sand with occasional gravel (medium dense, wet)	NS	0.5	
10	43											
15												
20												

Note: See Figure A-1 for explanation of symbols.

DRAFT

LOG OF BORING B-11



Project: Northshore School District
 Project Location: Bothell, Washington
 Project Number: 12666-001-00

Figure A-11
 Sheet 1 of 1

V8 ENVBORING P:11212666001000FINAL\$11266600100.GPJ GEI/6 1.GDT 1/16/06

Date(s) Drilled	12/20/05	Logged By	MR	Checked By	GWM
Drilling Contractor	Geo-Tech	Drilling Method	Geoprobe	Sampling Methods	2 1/4-inch-diameter Macroprobe Direct Push
Auger Data	5-foot-length sleeves	Hammer Data		Drilling Equipment	6600 Geoprobe
Total Depth (ft)	10	Surface Elevation (ft)		Groundwater Level (ft. bgs)	4
Vertical Datum		Datum/ System		Easting(x): Northing(y):	

Depth feet	SAMPLES					Water Level	Graphic Log	Group Symbol	MATERIAL DESCRIPTION	Sheen	Headspace Vapor P/D (ppm)	NOTES
	Interval	Recovered (in)	Blows/foot	Sub-Sample Number	Testing							
0								CC	4 inches concrete			
								CR	4 inches crushed rock			
								SM	Brown-orange silty fine sand (loose, moist) (fill)			
								SP-SM	Gray fine sand with silt and oxidation staining (loose, moist)	MS	0.0	
										MS	0.2	
5	52									MS	6.5	
				1	CA			SM	Gray silty fine to coarse sand (medium dense, wet)	HS	23.5	
10	52			2				SM	Gray silty fine sand (dense, moist)	NS	0.0	

DRAFT

Note: See Figure A-1 for explanation of symbols.

LOG OF BORING B-12

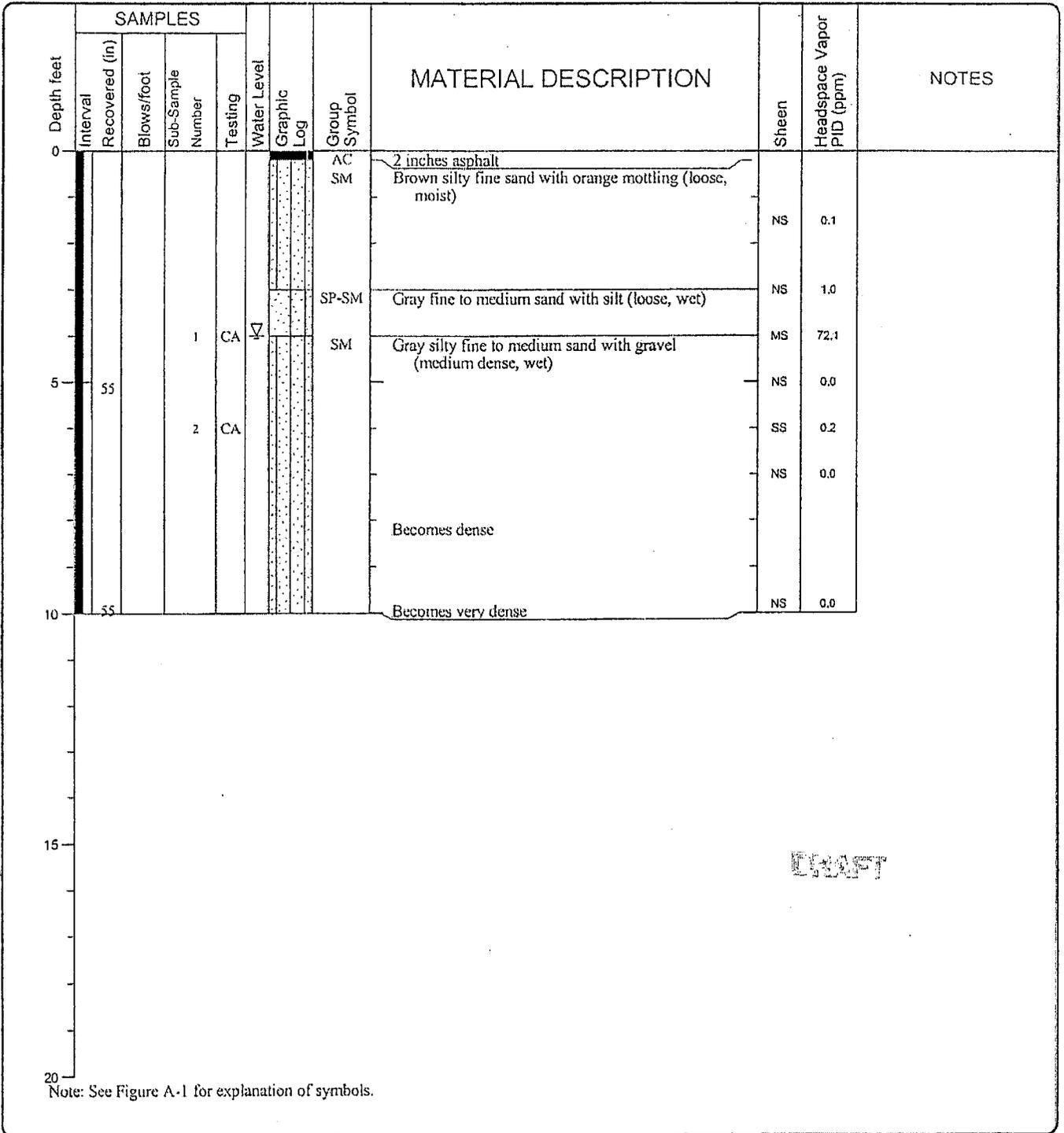


Project: Northshore School District
 Project Location: Bothell, Washington
 Project Number: 12666-001-00

Figure A-12
 Sheet 1 of 1

V6 ERYBORING F:\1212666001\00\FINALS\12666001.00.GPJ GEV6 1.GDT 1/10/06

Date(s) Drilled	12/19/05	Logged By	MR	Checked By	GWM
Drilling Contractor	Geo-Tech	Drilling Method	Geoprobe	Sampling Methods	2 1/4-inch-diameter Macroprobe Direct Push
Auger Data	5-foot-length sleeves	Hammer Data		Drilling Equipment	6600 Geoprobe
Total Depth (ft)	10	Surface Elevation (ft)		Groundwater Level (ft. bgs)	4
Vertical Datum		Datum/ System		Easting(x); Northing(y);	



Note: See Figure A-1 for explanation of symbols.

LOG OF BORING B-14

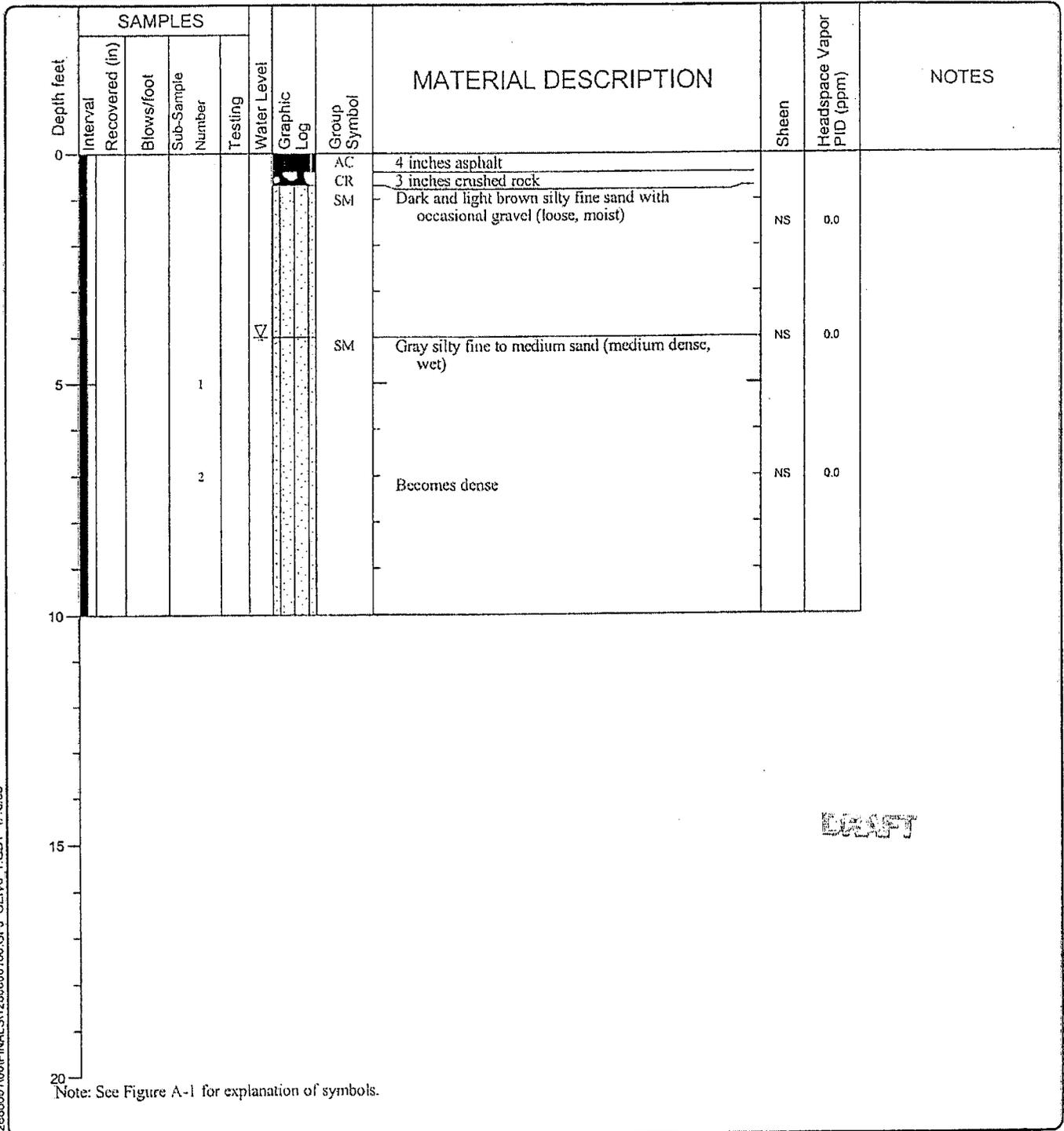


Project: Northshore School District
 Project Location: Bothell, Washington
 Project Number: 12666-001-00

Figure A-14
 Sheet 1 of 1

V6 ENVBORING P:1\21\2666001\001\FINAL\S1266600100.GPJ_GENV6_1.GDT 1/13/06

Date(s) Drilled	12/19/05	Logged By	MR	Checked By	GWM
Drilling Contractor	Geo-Tech	Drilling Method	Geoprobe	Sampling Methods	2 1/4-inch-diameter Macroprobe Direct Push
Auger Data	5-foot-length sleeves	Hammer Data		Drilling Equipment	6600 Geoprobe
Total Depth (ft)	10	Surface Elevation (ft)		Groundwater Level (ft. bgs)	4
Vertical Datum		Datum/ System		Easting(x): Northing(y):	



V6_ENVBORING P:\12\265600\100\FINAL S\1265600\100.GPJ GEIV6_1.GDT 1/10/06

LOG OF BORING B-14a



Project: Northshore School District
 Project Location: Bothell, Washington
 Project Number: 12666-001-00

Figure A-15
 Sheet 1 of 1

Date(s) Drilled	12/19/05	Logged By	MR	Checked By	GWM
Drilling Contractor	Geo-Tech	Drilling Method	Geoprobe	Sampling Methods	2 1/4-inch-diameter Macroprobe Direct Push
Auger Data	5-foot-length sleeves	Hammer Data		Drilling Equipment	6600 Geoprobe
Total Depth (ft)	10	Surface Elevation (ft)		Groundwater Level (ft. bgs)	5
Vertical Datum		Datum/ System		Eastings(x): Northing(y):	

Depth feet	SAMPLES					Water Level	Graphic Log	Group Symbol	MATERIAL DESCRIPTION	Sheen	Headspace Vapor PID (ppm)	NOTES
	Interval	Recovered (in)	Blows/foot	Sub-Sample Number	Testing							
0								AC	2 inches asphalt			
								CR	4 inches crushed rock			
								SM	Light brown silty fine to medium sand with gravel (loose, moist) (fill)	NS	0.0	
								SM	Gray silty fine to medium sand with gravel (medium dense, moist)			
5	48			1		▽		SP-SM	Gray fine to coarse sand with silt and gravel (medium dense, wet)	NS	0.0	
								SM	Gray silty fine sand with occasional gravel (medium dense, wet)	NS	0.0	
									Becomes moist	NS	0.0	
10	48								Becomes wet			
15												
20												

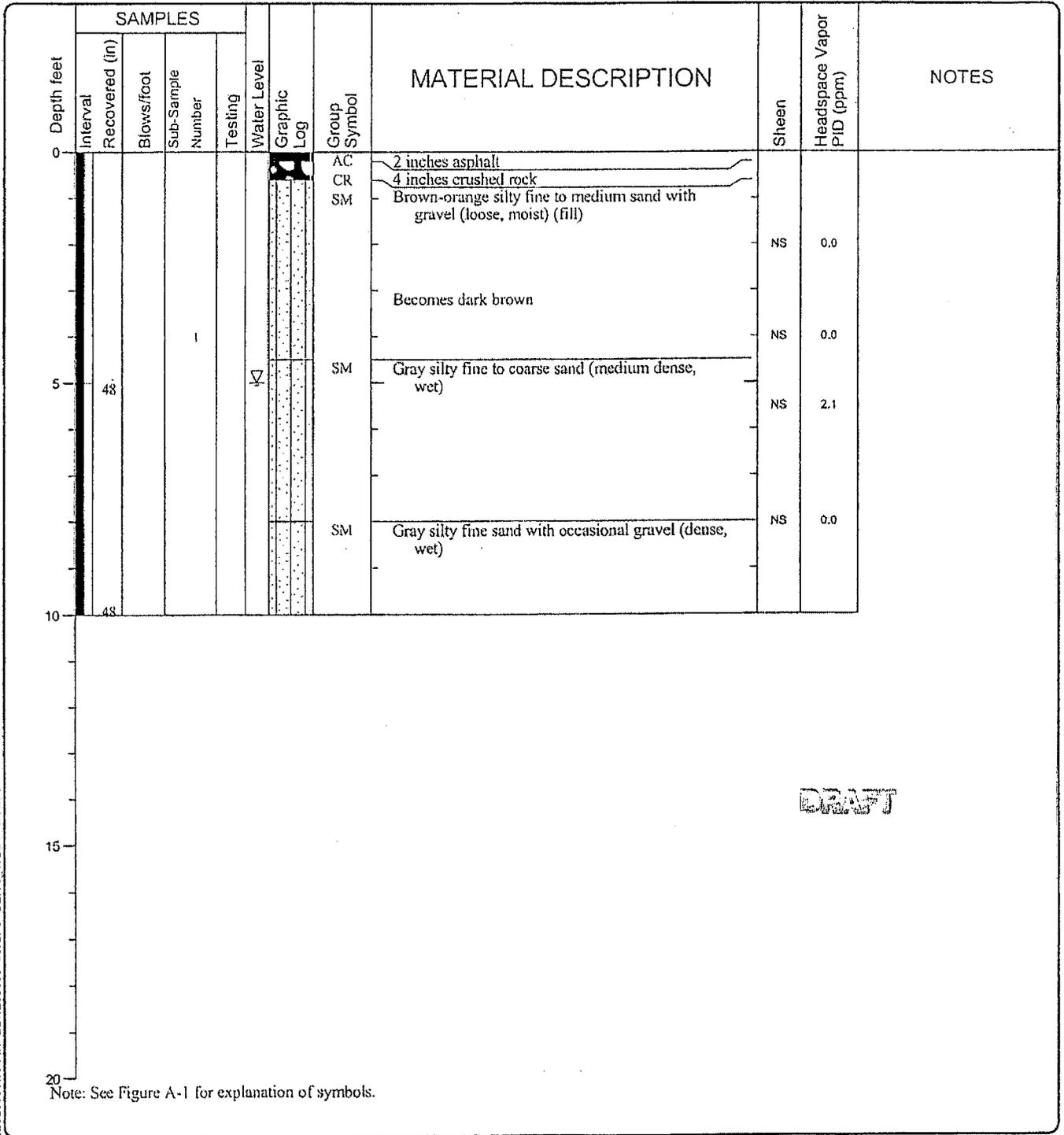
Note: See Figure A-1 for explanation of symbols.

DRAFT

V6 ENVBORING P:\12\2666001\001\FINAL\SH1266600100.GPJ GEV6_1.GDT 1/10/06

LOG OF BORING B-15		
	Project:	Northshore School District
	Project Location:	Bothell, Washington
	Project Number:	12666-001-00
		Figure A-16 Sheet 1 of 1

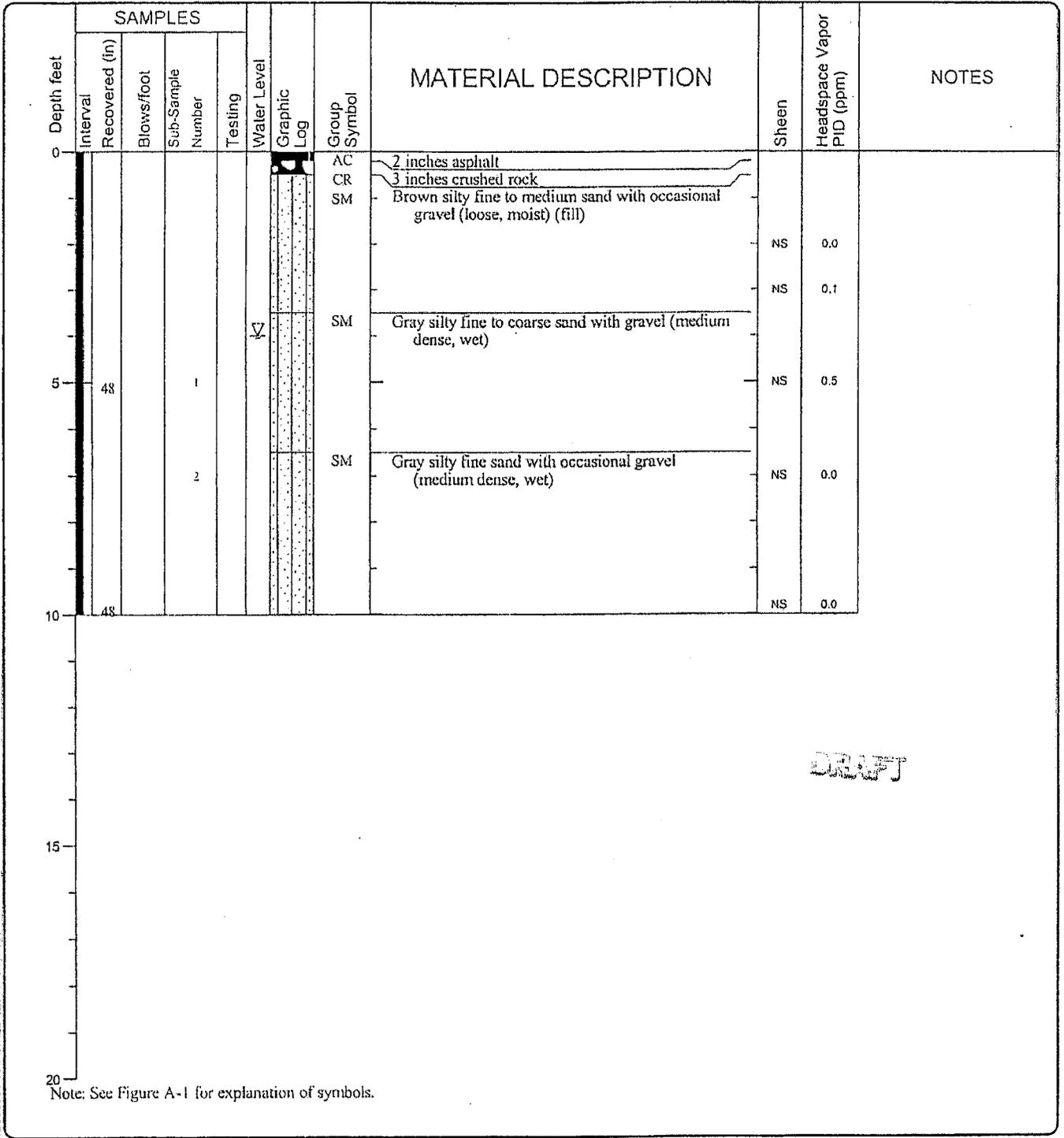
Date(s) Drilled	12/19/05	Logged By	MR	Checked By	GWM
Drilling Contractor	Geo-Tech	Drilling Method	Geoprobe	Sampling Methods	2 1/4-inch-diameter Macroprobe Direct Push
Auger Data	5-foot-length sleeves	Hammer Data		Drilling Equipment	6600 Geoprobe
Total Depth (ft)	10	Surface Elevation (ft)		Groundwater Level (ft. bgs)	5
Vertical Datum		Datum/ System		Easting(x): Northing(y):	



V6:ENVBORING P:121\2866001\00\FINALS\1286600100.GPJ GEIV6 1.GDT 1/15/08

LOG OF BORING B-15a		
	Project:	Northshore School District
	Project Location:	Bothell, Washington
	Project Number:	12666-001-00
		Figure A-17 Sheet 1 of 1

Date(s) Drilled	12/21/05	Logged By	MR	Checked By	GWM
Drilling Contractor	Geo-Tech	Drilling Method	Geoprobe	Sampling Methods	2 1/4-inch-diameter Macroprobe Direct Push
Auger Data	5-foot-length sleeves	Hammer Data		Drilling Equipment	6600 Geoprobe
Total Depth (ft)	10	Surface Elevation (ft)		Groundwater Level (ft. bgs)	4
Vertical Datum		Datum/ System		Easting(x): Northing(y)	



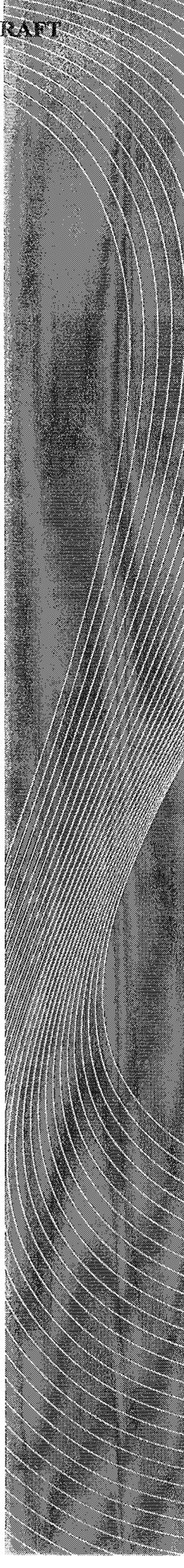
Note: See Figure A-1 for explanation of symbols.

V6 ENVBORING P:112112666001000\FINALS\1266600100.GPJ GEIV6 1.GDT 1/10/06

LOG OF BORING B-16a		
	Project:	Northshore School District
	Project Location:	Bothell, Washington
	Project Number:	12666-001-00
		Figure A-19 Sheet 1 of 1



APPENDIX B
GEOPHYSICAL SURVEY





APOLLO GEOPHYSICS

PO Box 28520
Bellingham, WA 98228
Phone: (360) 647-8303
Fax: (425) 671-0865
www.apollogeophysics.com

TECHNICAL MEMORANDUM
UST Locate Report

Project Identification:

Northshore School

Submitted to:

GeoEngineers

Date(s) Field Effort Completed:

Monday, December 19, 2005

Lisa Bona

Owner:

JAN 05 2006

Equipment Used:

ElectroMagnetic

GeoEngineers, Inc.

Page 1 of 2

Project/Submittal No.:

05.4067

Field Effort Performed/Report Prepared by:

LGB/MCR/LMR

This technical memorandum presents the results of geophysical exploration for potential Underground Storage Tanks (USTs) at the Northshore School site located in Bothell, Washington. A two-person field crew from APOLLO GEOPHYSICS completed the geophysical field program on Monday, December 19, 2005.

We investigated the site, as directed by GeoEngineers, Inc. personnel, with an Electromagnetic (EM) instrument, which locates buried metal objects. We traversed the site with the EM instrument on approximate 3- to 5-foot line spacings, which produced target areas for further investigation.

RESULTS OF THE GEOPHYSICAL SURVEY

We traversed the site with the EM instrument. Several EM anomalies were detected for further investigation by GeoEngineers, Inc. personnel.

Target #1 has an EM signature that may be associated with a known UST. A visible filler port is enclosed in a black water valve box. Brush, high voltage generators, and AST's limited the scope of our investigation. We recommend this area to be further evaluated with direct exploration

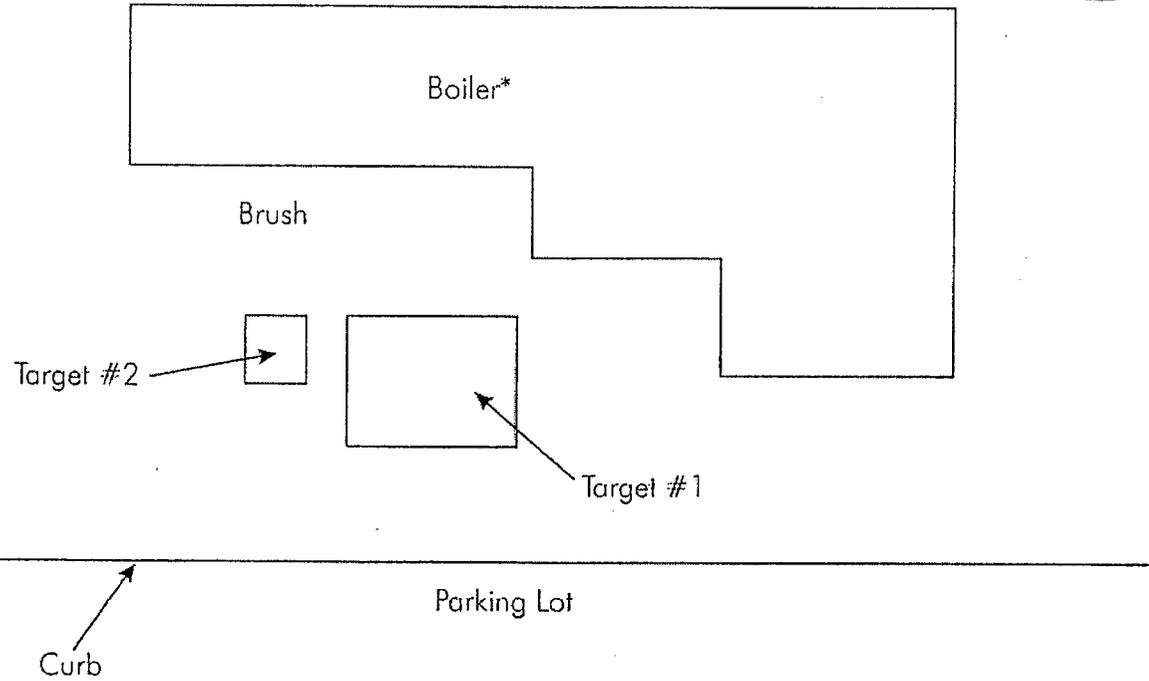
Target #2 has an EM signature that may be associated with a potential UST. A power line lying over the EM anomaly limited the scope of our investigation. We recommend these locations to be further evaluated with direct exploration.

Targets #3 and #4 have an EM signature that may be associated with known UST's. Visible vent pipes were located on the north-east corner of the parking facility building. Power, sewer, and gas utilities limited the scope of our investigation. We recommendation that this area to be further evaluated with direct exploration.

Target #5 has an EM signature that may be associated with a known UST. A visible filler port is enclosed inside a green irrigation box. We recommendation that this area to be further evaluated with direct exploration.

The approximate locations of Targets #1 through #5 are presented on the Site Plans in Figure 1A through 1C. All EM target areas and recommended direct exploration locations were marked in the field with environmentally degradable paint. Suspected utility pipes, demolition debris, etc., were not marked in the field.

Boiler Building Site Plan

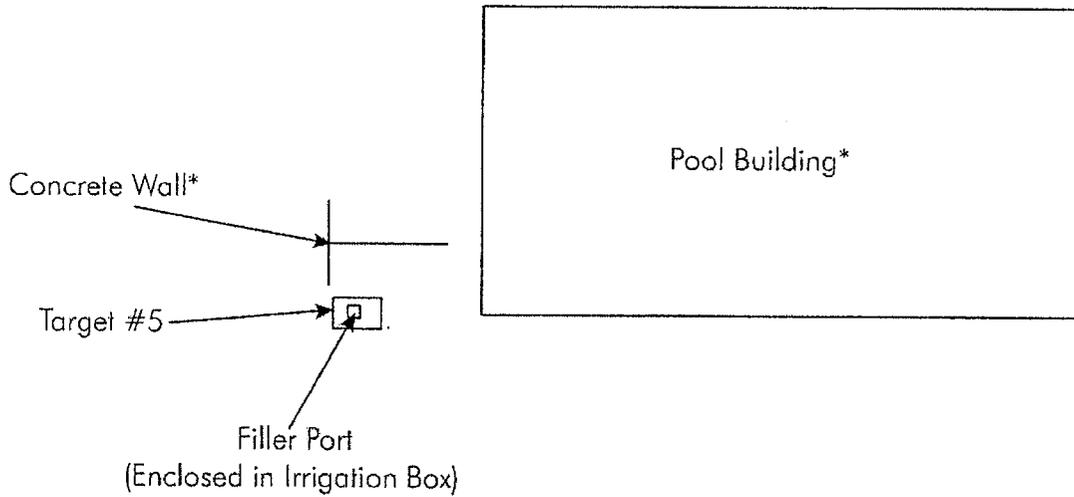


Approximate Scale:
1 inch = 30 feet

Note: Site Plan based on measurements made in the field by Apollo Geophysics personnel. Locations of all features are approximate. *Not to scale.

 APOLLO GEOPHYSICS	Northshore School Bothell, WA	FIGURE 1A
	FILE NO. 05.4070	DATE December 2005

Pool Building Site Plan



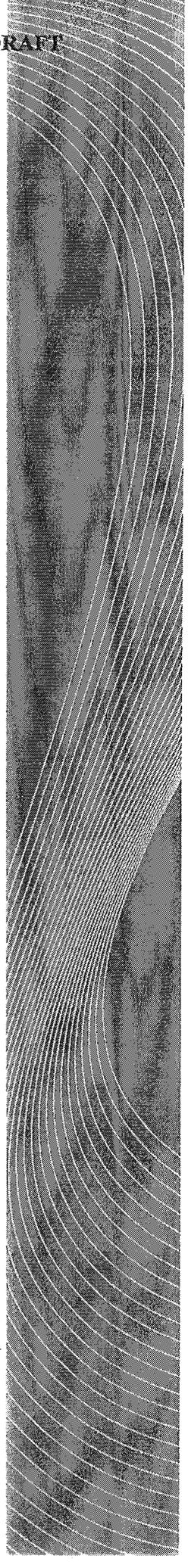
Approximate Scale:
1 inch = 30 feet

Note: Site Plan based on measurements made in the field by Apollo Geophysics personnel. Locations of all features are approximate. *Not to scale.

 APOLLO GEOPHYSICS	Northshore School Bothell, WA		FIGURE 1C
	FILE NO. 04.4067	DATE December 2005	



APPENDIX C
CHEMICAL ANALYTICAL PROGRAM



APPENDIX C CHEMICAL ANALYTICAL PROGRAM

ANALYTICAL METHODS

Chain-of-custody procedures were followed during the transport of the field samples to the analytical laboratory. The samples were held in cold storage pending extraction and/or analysis. The analytical results, analytical methods reference and laboratory quality control (QC) records are included in this appendix. The analytical results are also summarized in the text and tables of this report.

ANALYTICAL DATA REVIEW

The laboratory maintains an internal quality assurance program as documented in its laboratory quality assurance manual. The laboratory uses a combination of blanks, surrogate recoveries, duplicates, matrix spike recoveries, matrix spike duplicate recoveries, blank spike recoveries and blank spike duplicate recoveries to evaluate the validity of the analytical results. The laboratory also uses data quality goals for individual chemicals or groups of chemicals based on the long-term performance of the test methods. The data quality goals were included in the laboratory reports. The laboratory compared each group of samples with the existing data quality goals and noted any exceptions in the laboratory report. Data quality exceptions documented by the accredited laboratory were reviewed by GeoEngineers and are addressed in the data quality exception section of this appendix.

ANALYTICAL DATA REVIEW SUMMARY

No data quality exceptions were noted in the laboratory report or during our review with the following exception: soil sample B-14-4 was analyzed outside of the holding time. Soil sample B-14-4 was analyzed for diesel-range and lube oil-range hydrocarbons, and these results should be qualified as "estimated." However, these "estimated" results are still considered to be useful for assessment purposes. Based on our data quality review, it is our opinion that the analytical data are of acceptable quality for their intended use.



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/9/06
CCIL JOB #: 512106
CCIL SAMPLE #: 1
DATE RECEIVED: 12/20/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: B-14-4 12/19/05 1300

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING	DILUTION	UNITS**	ANALYSIS	ANALYSIS
			LIMITS	FACTOR		DATE	BY
TPH-DIESEL RANGE	NWTPH-DX W/ CLEANUP	44	25	1	MG/KG	1/9/06	DLC
TPH-LUBE OIL RANGE	NWTPH-DX W/ CLEANUP	ND	50	1	MG/KG	1/9/06	DLC

NOTES: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT WHICH IS LIKELY DIESEL FUEL
SAMPLE ANALYZED OUTSIDE OF HOLD TIME

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: 



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 12/28/05
CCIL JOB #: 512106
CCIL SAMPLE #: 2
DATE RECEIVED: 12/20/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

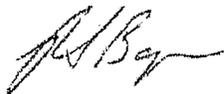
CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: B-14-6 12/19/05 1315

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
HCID-GAS RANGE	NWTPH-HCID	ND	20	1	MG/KG GAS	12/21/05	DLC
HCID-DIESEL RANGE	NWTPH-HCID	ND	50	1	MG/KG DSL	12/21/05	DLC
HCID-OIL RANGE	NWTPH-HCID	ND	100	1	MG/KG OIL	12/21/05	DLC

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: 



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/5/06
CCIL JOB #: 512106
CCIL SAMPLE #: 3
DATE RECEIVED: 12/20/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: B-13-6 12/19/05 1335

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	68	2	MG/KG	12/22/05	LAP
BENZENE	EPA-8021	ND	0.06	2	MG/KG	12/22/05	LAP
TOLUENE	EPA-8021	ND	0.1	2	MG/KG	12/22/05	LAP
ETHYLBENZENE	EPA-8021	ND	0.1	2	MG/KG	12/22/05	LAP
XYLENES	EPA-8021	ND	0.4	2	MG/KG	12/22/05	LAP
TPH-DIESEL RANGE	NWTPH-DX W/ CLEANUP	1100	25	1	MG/KG	1/3/06	DLC
TPH-LUBE OIL RANGE	NWTPH-DX W/ CLEANUP	60	30	1	MG/KG	1/3/06	DLC
DICHLORODIFLUOROMETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
CHLOROMETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
VINYL CHLORIDE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
BROMOMETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
CHLOROETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,1-DICHLOROETHENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
METHYLENE CHLORIDE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,1-DICHLOROETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
BROMOCHLOROMETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
CHLOROFORM	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
CARBON TETRACHLORIDE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,2-DICHLOROETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
TRICHLOROETHENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
DIBROMOMETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
BROMODICHLOROMETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
TETRACHLOROETHYLENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/5/06
CCIL JOB #: 512106
CCIL SAMPLE #: 3
DATE RECEIVED: 12/20/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: B-13-6 12/19/05 1335

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
1,2-DIBROMOETHANE	EPA-8260	ND	5	1	UG/KG	12/28/05	CCN
CHLOROBEZENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
BROMOFORM	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
BROMOBENZENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
2-CHLOROTOLUENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
4-CHLOROTOLUENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,3 DICHLOROBENZENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND	50	1	UG/KG	12/28/05	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
HEXACHLOROBUTADIENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
NAPHTHALENE	EPA-8270 SIM	0.25	0.02	1	MG/KG	12/28/05	CCN
1-METHYLNAPHTHALENE	EPA-8270 SIM	3.8	0.04	2	MG/KG	1/3/06	CCN
2-METHYLNAPHTHALENE	EPA-8270 SIM	3.4	0.04	2	MG/KG	1/3/06	CCN
ACENAPHTHYLENE	EPA-8270 SIM	0.07	0.02	1	MG/KG	12/28/05	CCN
ACENAPHTHENE	EPA-8270 SIM	0.36	0.02	1	MG/KG	12/28/05	CCN
FLUORENE	EPA-8270 SIM	0.27	0.02	1	MG/KG	12/28/05	CCN
PHENANTHRENE	EPA-8270 SIM	1.0	0.02	1	MG/KG	12/28/05	CCN
ANTHRACENE	EPA-8270 SIM	1.7	0.02	1	MG/KG	12/28/05	CCN
FLUORANTHENE	EPA-8270 SIM	0.10	0.02	1	MG/KG	12/28/05	CCN
PYRENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
BENZO[A]ANTHRACENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
CHRYSENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
BENZO[B]FLUORANTHENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
BENZO[K]FLUORANTHENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
BENZO(A)PYRENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
INDENO[1,2,3-CD]PYRENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
DIBENZ[A,H]ANTHRACENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
BENZO[G,H,I]PERYLENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
ARSENIC	EPA-6010	16	4.0	8	MG/KG	12/29/05	RAB
CADMIUM	EPA-6010	1.5	0.5	8	MG/KG	12/29/05	RAB
CHROMIUM	EPA-6010	27	0.7	8	MG/KG	12/29/05	RAB



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/5/06
CCIL JOB #: 512106
CCIL SAMPLE #: 3
DATE RECEIVED: 12/20/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: B-13-6 12/19/05 1335

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
LEAD	EPA-6010	8.0	4.0	8	MG/KG	12/29/05	RAB
MERCURY	EPA-7471	0.02	0.02	1	MG/KG	12/27/05	RAB

NOTES: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCTS THAT ARE LIKELY DIESEL FUEL AND LUBE OIL
NWTPH-GX REPORTING LIMIT RAISED DUE TO OVERLAP FROM SEMIVOLATILE RANGE.

* "ND" INDICATES ANALYTE ANALYZED FOR, BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 12/28/05
CCIL JOB #: 512106
CCIL SAMPLE #: 5
DATE RECEIVED: 12/20/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: B-13-8 12/19/05 1345

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
HCID-GAS RANGE	NWTPH-HCID	ND	20	1	MG/KG GAS	12/21/05	DLC
HCID-DIESEL RANGE	NWTPH-HCID	ND	50	1	MG/KG DSL	12/21/05	DLC
HCID-OIL RANGE	NWTPH-HCID	ND	100	1	MG/KG OIL	12/21/05	DLC

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/5/06
CCIL JOB #: 512106
CCIL SAMPLE #: 8
DATE RECEIVED: 12/20/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: B-16-2 12/20/05 0930

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
HCID-GAS RANGE	NWTPH-HCID	ND	20	1	MG/KG GAS	12/21/05	DLC
HCID-DIESEL RANGE	NWTPH-HCID	>	50	1	MG/KG DSL	12/21/05	DLC
HCID-OIL RANGE	NWTPH-HCID	>	100	1	MG/KG OIL	12/21/05	DLC
TPH-DIESEL RANGE	NWTPH-DX W/ CLEANUP	450	25	1	MG/KG	1/3/06	DLC
TPH-LUBE OIL RANGE	NWTPH-DX W/ CLEANUP	1300	50	1	MG/KG	1/3/06	DLC

NOTES: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCTS WHICH ARE LIKELY DIESEL FUEL, LIGHT OIL AND LUBE OIL
DIESEL RANGE RESULT IS BIASED HIGH DUE TO LUBE OIL RANGE PRODUCT OVERLAP

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: 



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/5/06
CCIL JOB #: 512106
CCIL SAMPLE #: 10
DATE RECEIVED: 12/20/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: B-12-8 12/20/05 1030

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-DIESEL RANGE	NWTPH-DX W/CLEANUP	ND	500	10	MG/KG	12/22/05	DLC
TPH-LUBE OIL RANGE	NWTPH-DX W/CLEANUP	16000	500	10	MG/KG	12/22/05	DLC
NAPHTHALENE	EPA-8270 SIM	0.03	0.02	1	MG/KG	12/28/05	CCN
1-METHYLNAPHTHALENE	EPA-8270 SIM	0.07	0.02	1	MG/KG	12/28/05	CCN
2-METHYLNAPHTHALENE	EPA-8270 SIM	0.12	0.02	1	MG/KG	12/28/05	CCN
ACENAPHTHYLENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
ACENAPHTHENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
FLUORENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
PHENANTHRENE	EPA-8270 SIM	0.11	0.02	1	MG/KG	12/28/05	CCN
ANTHRACENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
FLUORANTHENE	EPA-8270 SIM	0.09	0.02	1	MG/KG	12/28/05	CCN
PYRENE	EPA-8270 SIM	0.16	0.02	1	MG/KG	12/28/05	CCN
BENZO(A)ANTHRACENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
CHRYSENE	EPA-8270 SIM	0.19	0.02	1	MG/KG	12/28/05	CCN
BENZO(B)FLUORANTHENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
BENZO(K)FLUORANTHENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
BENZO(A)PYRENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
INDENO[1,2,3-CD]PYRENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
DIBENZ[A,H]ANTHRACENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
BENZO[G,H,I]PERYLENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN

NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCTS WHICH ARE LIKELY LIGHT OIL AND LUBE OIL DIESEL RANGE REPORTING LIMIT RAISED DUE TO LUBE OIL RANGE OVERLAP

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: 



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/5/06
CCIL JOB #: 512106
CCIL SAMPLE #: 19
DATE RECEIVED: 12/20/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: B-12 12/20/05 1130

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-DIESEL RANGE	NWTPH-DX W/CLEANUP	ND	250	1	UG/L	12/21/05	DLC
TPH-LUBE OIL RANGE	NWTPH-DX W/CLEANUP	11000	250	1	UG/L	12/21/05	DLC
NAPHTHALENE	EPA-8270 SIM	0.39	0.02	1	UG/L	12/28/05	CCN
1-METHYLNAPHTHALENE	EPA-8270 SIM	0.14	0.02	1	UG/L	12/28/05	CCN
2-METHYLNAPHTHALENE	EPA-8270 SIM	0.24	0.02	1	UG/L	12/28/05	CCN
ACENAPHTHYLENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
ACENAPHTHENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
FLUORENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
PHENANTHRENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
ANTHRACENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
FLUORANTHENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
PYRENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
BENZO[A]ANTHRACENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
CHRYSENE	EPA-8270 SIM	0.02	0.02	1	UG/L	12/28/05	CCN
BENZO[B]FLUORANTHENE	EPA-8270 SIM	ND	0.03	1	UG/L	12/28/05	CCN
BENZO[K]FLUORANTHENE	EPA-8270 SIM	ND	0.03	1	UG/L	12/28/05	CCN
BENZO[A]PYRENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
INDENO[1,2,3-CD]PYRENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
DIBENZ[A,H]ANTHRACENE	EPA-8270 SIM	ND	0.03	1	UG/L	12/28/05	CCN
BENZO[G,H,I]PERYLENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN

NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCTS WHICH ARE LIKELY LIGHT OIL AND LUBE OIL DIESEL RANGE REPORTING LIMIT RAISED DUE TO LUBE OIL RANGE OVERLAP

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: 



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 12/28/05
CCIL JOB #: 512106
CCIL SAMPLE #: 20
DATE RECEIVED: 12/20/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: B-16 12/20/05 1245

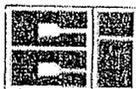
DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
HCID-GAS RANGE	NWTPH-HCID	ND	0.13	1	MG/L GAS	12/22/05	DLC
HCID-DIESEL RANGE	NWTPH-HCID	ND	0.31	1	MG/L DSL	12/22/05	DLC
HCID-OIL RANGE	NWTPH-HCID	>	0.31	1	MG/L OIL	12/22/05	DLC
TPH-DIESEL RANGE	NWTPH-DX W/CLEANUP	ND	130	1	UG/L	12/28/05	DLC
TPH-LUBE OIL RANGE	NWTPH-DX W/CLEANUP	ND	250	1	UG/L	12/28/05	DLC

* "NL" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/9/06
CCIL JOB #: 512106

DATE RECEIVED: 12/20/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	SPIKE AMOUNT	% REC
512106-01	NWTPH-DX W/CLEANUP	C25	5 PPM	87
512106-02	NWTPH-HCID	BCB	50 PPM	111
512106-02	NWTPH-HCID	C25	10 PPM	102
512106-03	NWTPH-GX	TFT	0.5 PPM	82
512106-03	EPA-8021	TFT	0.5 PPM	79
512106-03	NWTPH-DX W/CLEANUP	C25	5 PPM	98
512106-03	EPA-8260	1,2-DCE-d4	20 PPB	102
512106-03	EPA-8260	4-BFB	20 PPB	113
512106-03	EPA-8270 SIM	TERPHENYL-d14	1.2PPM	99
512106-03 (2X DILUTION)	EPA-8270 SIM	TERPHENYL-d14	1.2PPM	92
512106-05	NWTPH-HCID	BCB	50 PPM	106
512106-05	NWTPH-HCID	C25	10 PPM	101
512106-08	NWTPH-HCID	BCB	50 PPM	108
512106-08	NWTPH-HCID	C25	10 PPM	107
512106-08	NWTPH-DX W/CLEANUP	C25	5 PPM	109
512106-10	NWTPH-DX W/CLEANUP	C25	5 PPM	.
512106-10	EPA-8270 SIM	TERPHENYL-d14	5 PPB	85
512106-19	NWTPH-DX W/CLEANUP	C25	0.1 PPM	109
512106-19	EPA-8270 SIM	TERPHENYL-d14	25PPB	75
512106-20	NWTPH-HCID	BCB	0.31 PPM	78
512106-20	NWTPH-HCID	C25	0.13 PPM	92
512106-20 (CONCENTRATE)	NWTPH-HCID	C25	0.13 PPM	73
512106-20	NWTPH-DX W/CLEANUP	C25	0.1 PPM	77

BLANK AND DUPLICATE RESULTS

METHOD	BLK RESULT	ASSOC SIMPLS	DUP RESULT	ORIG RESULT	WRDP	ASSOC.SMPLE
NWTPH-HCID(GAS)	ND(<20)	512106-02, 05, 08	ND(<20)	ND(<20)	****	SAME



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/9/06
CCIL JOB #: 512106

DATE RECEIVED: 12/20/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

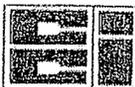
CLIENT PROJECT ID: 12666-001-00

QUALITY CONTROL RESULTS

NWTPH-HCID(DSL)	ND(<50)	512106-02, 05, 08	ND(<50)	ND(<50)	****	SAME
NWTPH-HCID(OIL)	ND(<100)	512106-02, 05, 08	ND(<100)	ND(<100)	****	SAME
NWTPH-HCID(GAS)	ND(<0.13)	512106-20				
NWTPH-HCID(DSL)	ND(<0.31)	512106-20				
NWTPH-HCID(OIL)	ND(<0.31)	512106-20				
NWTPH-GX (GAS)	ND(<3)	512106-03				
EPA-8021(BENZENE)	ND(<0.03)	512106-03				
EPA-8021(TOLUENE)	ND(<0.05)	512106-03				
EPA-8021(ETHYLBENZ)	ND(<0.05)	512106-03				
EPA-8021(XYLENE)	ND(<0.2)	512106-03				
NWTPH-DX (DSL)	ND(<25)	512106-10				
NWTPH-DX (OIL)	ND(<50)	512106-10				
NWTPH-DX (DSL)	ND(<25)	512106-03,08				
NWTPH-DX (OIL)	ND(<50)	512106-03,08				
NWTPH-DX (DSL)	ND(<25)	512106-01				
NWTPH-DX (OIL)	ND(<50)	512106-01				
NWTPH-DX (DSL)	ND(<130)	512106-19, 20				
NWTPH-DX (OIL)	ND(<250)	512106-19, 20				
EPA-6010 (AS)	ND(0.84)	512106-03				
EPA-6010 (CD)	ND(0.10)	512106-03				
EPA-6010 (CR)	ND(0.13)	512106-03				
EPA-6010 (PB)	ND(0.72)	512106-03				
EPA-7471 (HG)	ND(0.02)	512106-03				
EPA-8260	SEE BLANK REPORT					
EPA-8270 SIM	SEE BLANK REPORTS					

SPIKE/ SPIKE DUPLICATE RESULTS

METHOD	SPIKE ID	ASSOCIATED SAMPLES	SPIKE AMOUNT	DILUTION FACTOR	% SPIKE RECOVERY	% SPIKE DUP RECOVERY	REL % DIFF
NWTPH-GX	GASOLINE	512106-03	25 PPM	1	64	64	0
EPA-8021	BENZENE	512106-03	1 PPM	1	90	91	1
EPA-8021	TOLUENE	512106-03	1 PPM	1	89	90	1
EPA-8021	ETHYLBENZENE	512106-03	1 PPM	1	86	87	1
EPA-8021	XYLENE	512106-03	3 PPM	1	88	89	1
NWTPH-DX	DIESEL	512106-10	130 PPM	1	87	74	18
NWTPH-DX	DIESEL	512106-03,08	130 PPM	1	85	84	1
NWTPH-DX	DIESEL	512106-19,20	1.3 PPM	1	101	102	1



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/9/06
CCIL JOB #: 512106

DATE RECEIVED: 12/20/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00

QUALITY CONTROL RESULTS

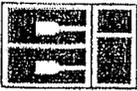
NWTPH-DX	DIESEL	512106-01	130 PPM	1	86	92	7
EPA-8260	1,1 DICHLOROETHENE	512106-03	10 PPB	1	118	113	4
EPA-8260	BENZENE	512106-03	10 PPB	1	106	102	4
EPA-8260	TRICHLOROETHENE	512106-03	10 PPB	1	106	103	3
EPA-8260	TOLUENE	512106-03	10 PPB	1	100	102	2
EPA-8260	CHLOROBENZENE	512106-03	10 PPB	1	105	104	1
EPA-8270 SIM	NAPHTHALENE	512106-03,10	0.5PPM	1	116	100	15
EPA-8270 SIM	ACENAPHTHLENE	512106-03,10	0.5PPM	1	117	103	13
EPA-8270 SIM	PYRENE	512106-03,10	0.5PPM	1	111	91	20
EPA-8270 SIM	BENZO[G,H]PERYLENE	512106-03,10	0.5PPM	1	95	80	17
EPA-8270 SIM	NAPHTHALENE	512106-19	5PPB	1	80	89	11
EPA-8270 SIM	ACENAPHTHLENE	512106-19	5PPB	1	91	99	9
EPA-8270 SIM	PYRENE	512106-19	5PPB	1	104	109	4
EPA-8270 SIM	BENZO[G,H]PERYLENE	512106-19	5PPB	1	80	83	3
EPA-6010	ARSENIC	512106-03	20PPM	1	93	95	2
EPA-6010	CADMIUM	512106-03	20PPM	1	90	91	1
EPA-6010	CHROMIUM	512106-03	20PPM	1	95	96	1
EPA-6010	LEAD	512106-03	20PPM	1	92	92	0
EPA-7471	MERCURY	512106-03	1PPB	1	95	104	9

* SURROGATE DILUTED OUT OF CALIBRATION RANGE

** SURROGATE OUTSIDE OF QC LIMITS OF 85-107% DUE TO MATRIX INTERFERENCE

**** %RPD NOT REPORTED FOR VALUES <X5 THE REPORTING LIMIT

APPROVED BY: 



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/5/06
CCIL JOB #: 512106
CCIL SAMPLE #: BLK1
DATE RECEIVED: 12/20/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: METHOD BLANK FOR EPA -8260

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING	DILUTION	UNITS**	ANALYSIS	ANALYSIS
			LIMITS	FACTOR		DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
CHLOROMETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
VINYL CHLORIDE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
BROMOMETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
CHLOROETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,1-DICHLOROETHENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
METHYLENE CHLORIDE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,1-DICHLOROETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
BROMOCHLOROMETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
CHLOROFORM	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
CARBON TETRACHLORIDE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,2-DICHLOROETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
TRICHLOROETHENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
DIBROMOMETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
BROMODICHLOROMETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
TETRACHLOROETHYLENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,2-DIBROMOETHANE	EPA-8260	ND	5	1	UG/KG	12/28/05	CCN
CHLOROBENZENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
BROMOFORM	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
BROMOBENZENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
2-CHLOROTOLUENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
4-CHLOROTOLUENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/5/06
CCIL JOB #: 512106
CCIL SAMPLE #: BLK1
DATE RECEIVED: 12/20/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: METHOD BLANK FOR EPA -8260

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
1,2-DICHLOROBENZENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND	50	1	UG/KG	12/28/05	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
HEXACHLOROBUTADIENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND	10	1	UG/KG	12/28/05	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/5/06
CCIL JOB #: 512106
CCIL SAMPLE #: BLK2
DATE RECEIVED: 12/20/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: METHOD BLANK FOR EPA-8270 SIM SOILS

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
NAPHTHALENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
1-METHYLNAPHTHALENE	EPA-8270 SIM	ND	0.04	1	MG/KG	12/28/05	CCN
2-METHYLNAPHTHALENE	EPA-8270 SIM	ND	0.04	1	MG/KG	12/28/05	CCN
ACENAPHTHYLENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
ACENAPHTHENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
FLUORENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
PHENANTHRENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
ANTHRACENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
FLUORANTHENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
PYRENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
BENZO(A)ANTHRACENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
CHRYSENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
BENZO(B)FLUORANTHENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
BENZO(K)FLUORANTHENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
BENZO(A)PYRENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
INDENO[1,2,3-CD]PYRENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
DIBENZ[A,H]ANTHRACENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN
BENZO[G,H,I]PERYLENE	EPA-8270 SIM	ND	0.02	1	MG/KG	12/28/05	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/5/06
CCIL JOB #: 512106
CCIL SAMPLE #: BLK3
DATE RECEIVED: 12/20/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: METHOD BLANK FOR EPA-8270 SIM WATERS

DATA RESULTS

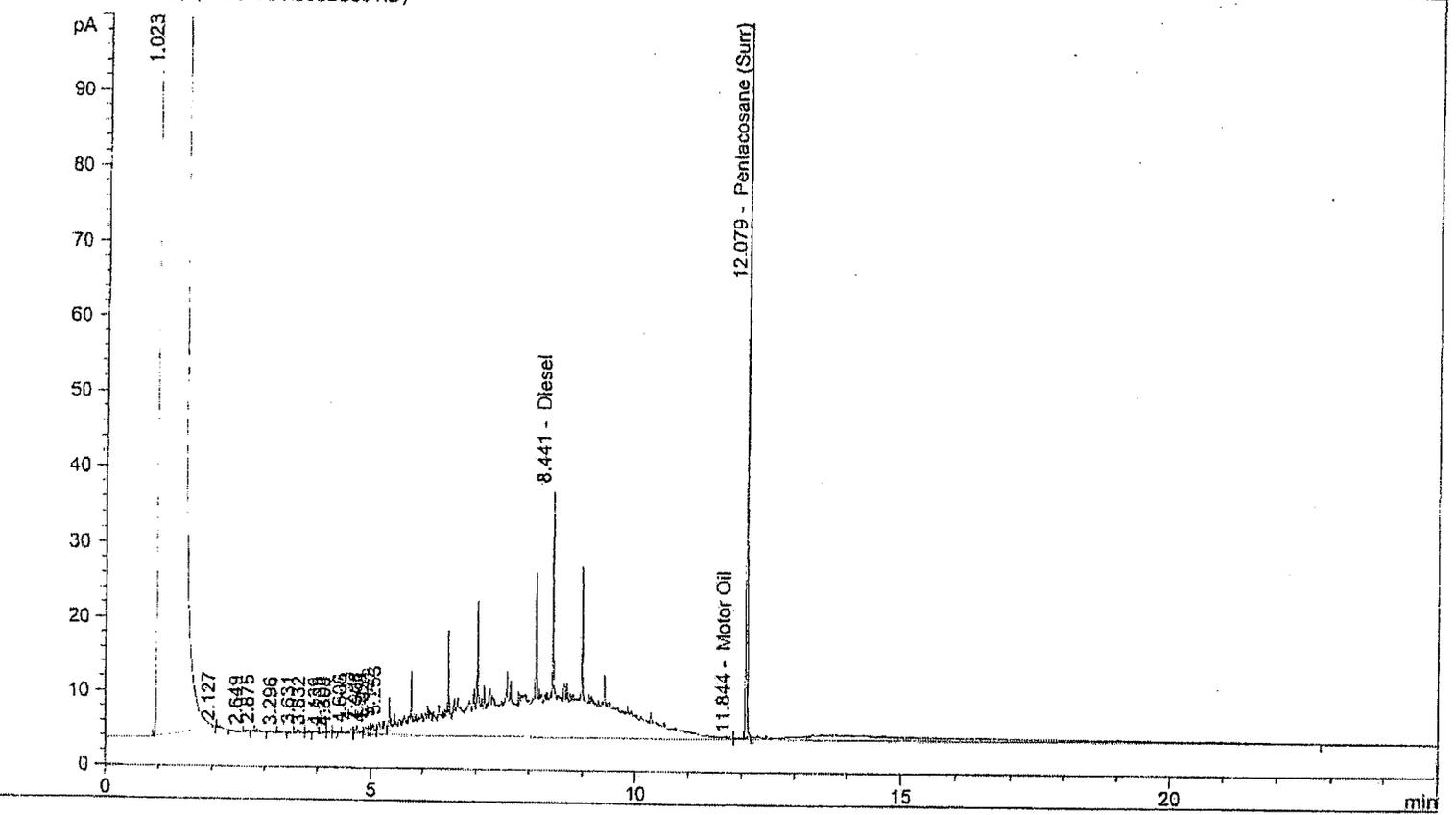
ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
NAPHTHALENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
1-METHYLNAPHTHALENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
2-METHYLNAPHTHALENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
ACENAPHTHYLENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
ACENAPHTHENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
FLUORENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
PHENANTHRENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
ANTHRACENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
FLUORANTHENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
PYRENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
BENZO[A]ANTHRACENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
CHRYSENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
BENZO[B]FLUORANTHENE	EPA-8270 SIM	ND	0.03	1	UG/L	12/28/05	CCN
BENZO[K]FLUORANTHENE	EPA-8270 SIM	ND	0.03	1	UG/L	12/28/05	CCN
BENZO[A]PYRENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
INDENO[1,2,3-CD]PYRENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
DIBENZ[A,H]ANTHRACENE	EPA-8270 SIM	ND	0.03	1	UG/L	12/28/05	CCN
BENZO[G,H,I]PERYLENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: 

Sample Name: 512106-1 SGA
 FID2 B, (81601091\053B0501.D)



Ret. Time	Signal	Compound Name	Response	Amount ug/mL
8.441	FID2 B,	Diesel	1393.804	109.471
11.844		Motor Oil	199.676	0.000
12.079		Pentacosane (Surr)	156.353	8.673 87%

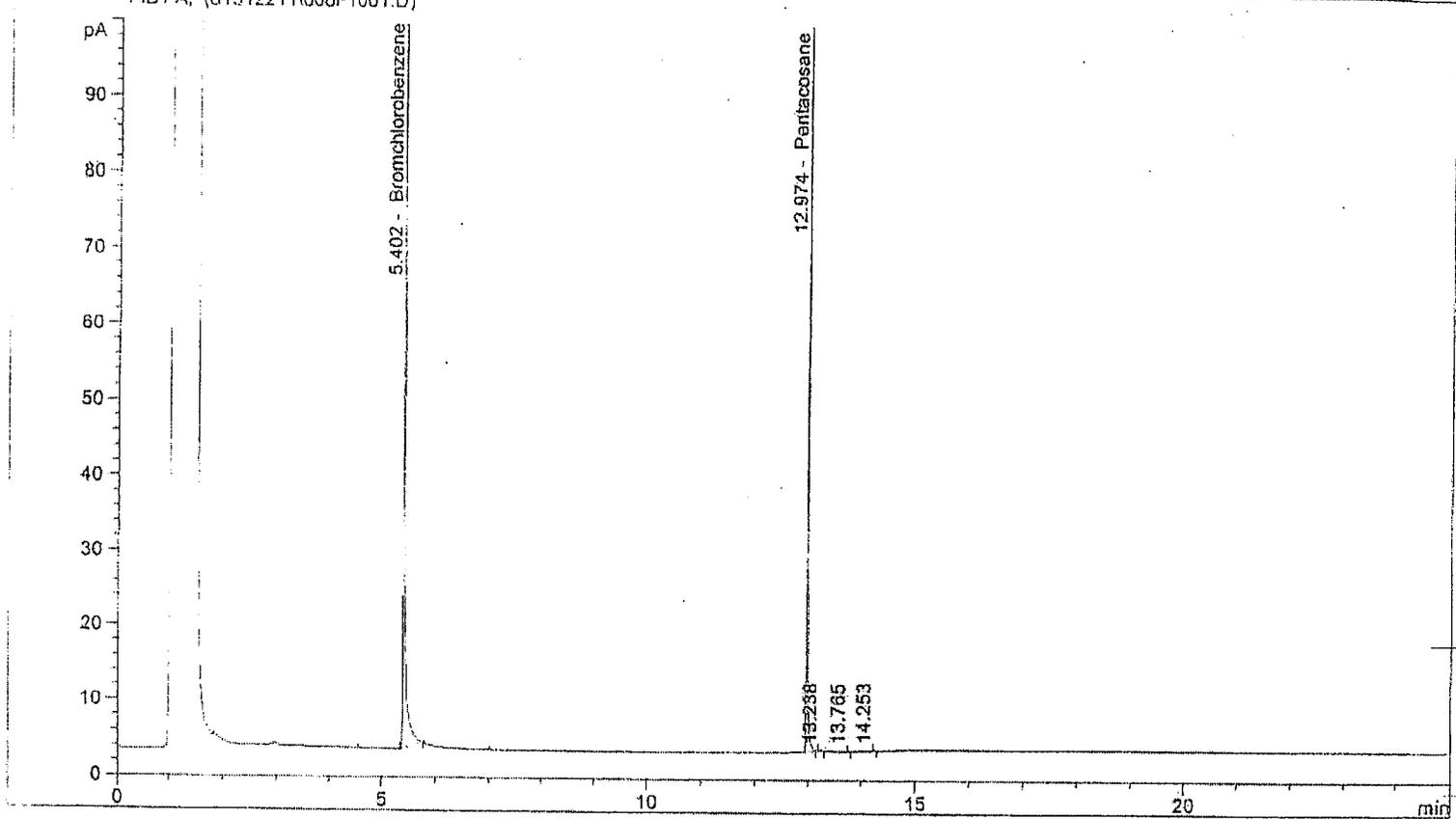
D = 44 mg/kg Diesel fuel
MO < 50 mg/kg

REVIEWED BY
 & DATE 1-9-06

01-09-06 DC

Instrument #81 Data File: C:\HPCHEM\1\DATA\81512211\008F1001.D
 Operator: DLC
 Method: C:\HPCHEM\1\METHODS\FHCIDS.M
 Injection Date & Time: 12/21/05 1:03:19 PM 12/21/05 1:03:19 PM
 Report Creation: 12/22/05 7:40:31 AM

Sample Name: 512106-2 HCID
 FID1 A, (81512211\008F1001.D)



Ret. Time	Signal	Compound Name	Response	Amount ug/mL
5.402	FID1 A,	Bromchlorobenzene	319.178	55.698 <i>111'</i>
12.974		Pentacosane	156.965	10.244 <i>102'</i>

G < 20 mg/kg

D < 50

MO < 100

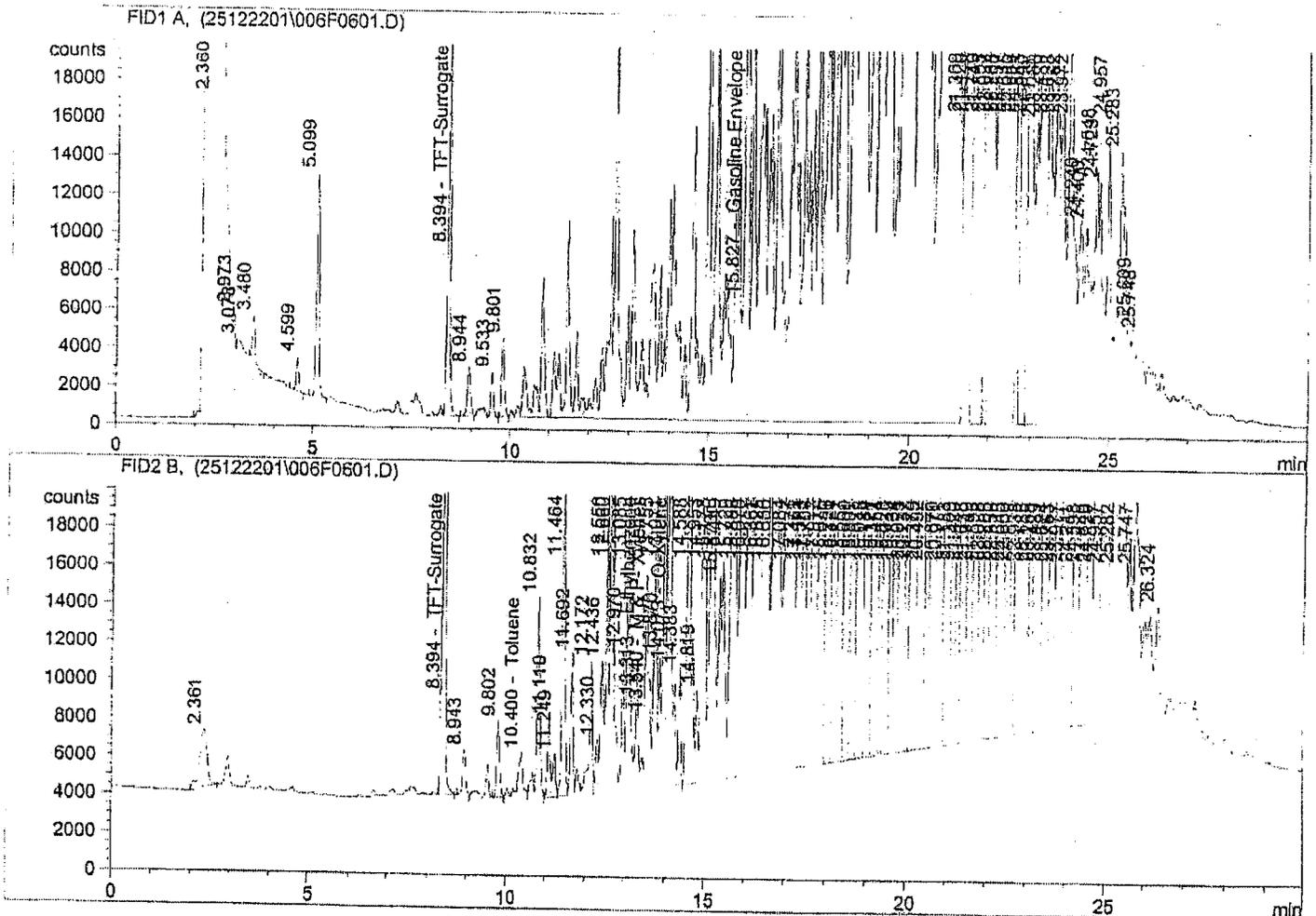
12-22-05 DC

REVIEWED BY
 & DATE *12 23 05*

Gas/BTEX Instrument 2
 Data File: C:\HPCHEM\2\DATA\25122201\006F0601.D
 Injection Date & Time: 12/22/2005 2:33:32 PM
 Report Created on: 12/22/2005 3:09:23 PM
 Operator: LAP
 Acquisition Method: GBTX0505.M
 Analysis Method: C:\HPCHEM\2\METHODS\GBTX1205.M

FID1 A equivalent to FID analysis.
 FID2 B equivalent to PID analysis.

Sample Name: 512106-3 RR 50UL



Ret. Time	Compound Name	Area	Amount ug/L
8.394	TFT-Surrogate	93435.586	8.223
15.827	Gasoline Envelope	1.027e+007	1406.756

19.03
 77.73
 9.24 mL

$$Gas = 100 \mu g/h \times \frac{5 mL}{0.05 min} = \frac{0.00924 L}{19.03 g} < 68$$

$$< 6.0 mg/kg$$

Ret. Time	Compound Name	Area	Amount ug/L
0.000	MTBE	0.000	0.000
0.000	Benzene	0.000	0.000
8.394	TFT-Surrogate	188881.875	7.857 791%
10.400	Toluene	19476.914	0.124
13.313	Ethylbenzene	32338.057	0.294
13.540	M & P-Xylenes	71640.305	0.311
14.073	O-Xylene	150328.375	2.349

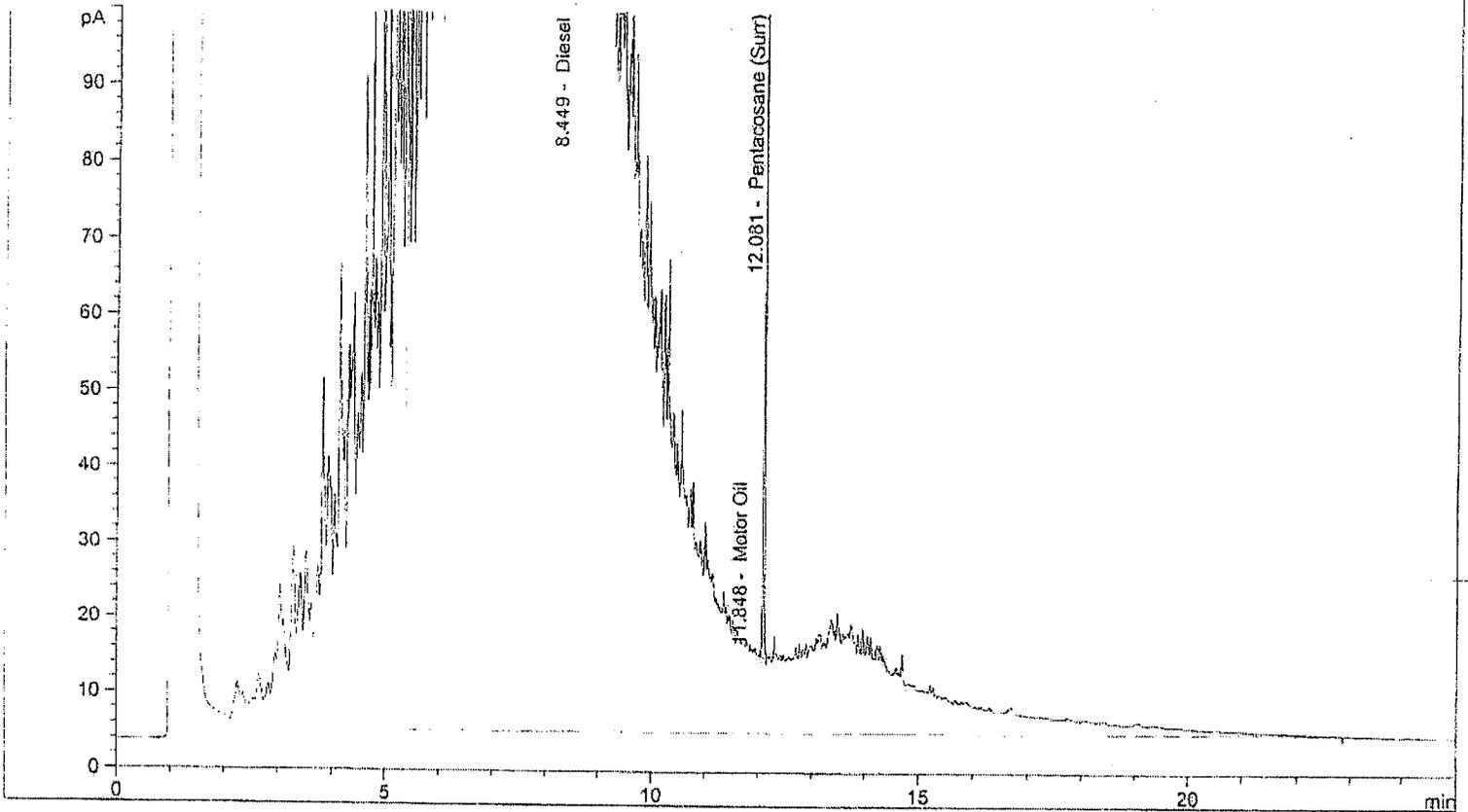
REVIEWED BY KB
 & DATE 12/28/05

B < 0.06 mg/kg T, E < 0.1 mg/kg X < 0.4 mg/kg
 12.22.05

Instrument #81 Data File: C:\HPCHEM\1\DATA\81601031\052B0701.D
 Operator: DLC
 Method: C:\HPCHEM\1\METHODS\BDM00405.M
 Injection Date & Time: 1/3/06 1:27:33 PM 1/3/06 1:27:33 PM
 Report Creation: 1/3/06 2:29:52 PM

Sample Name: 512106-3 SGA

FID2 B, (81601031\052B0701.D)



Ret. Time	Signal	Compound Name	Response	Amount ug/mL
8.449	FID2 B,	Diesel	42718.770	3102.495
11.848		Motor Oil	2834.234	171.201
12.081		Pentacosane (Surr)	175.488	9.778

98%
28.51g

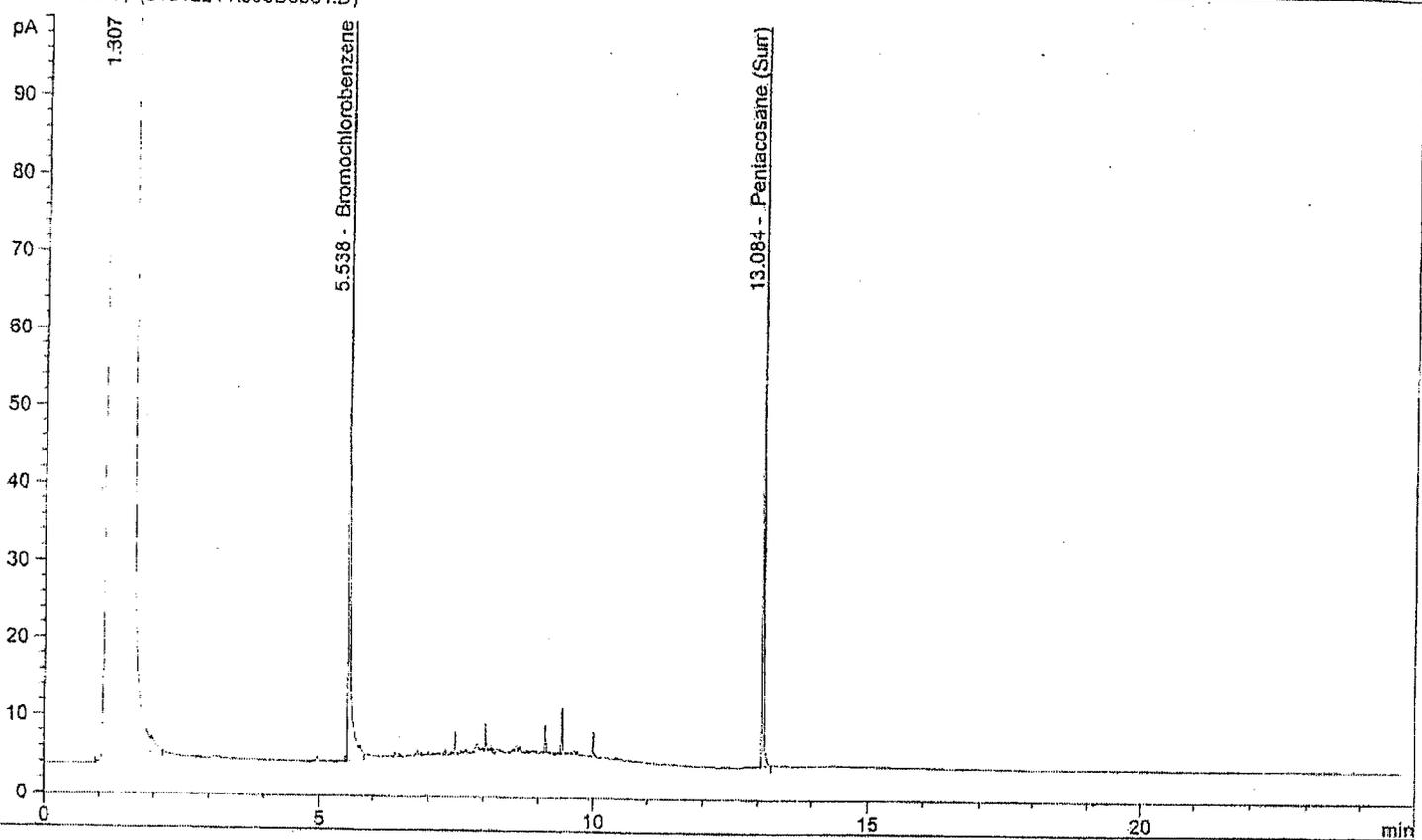
D = 1100 mg/kg Diesel Fuel

MO = 60 mg/kg Lube oil

01-04-06 DC

REVIEWED BY
& DATE 1.5.06

Sample Name: 512106-5 HCID
 FID2 B, (81512211\009B0901.D)



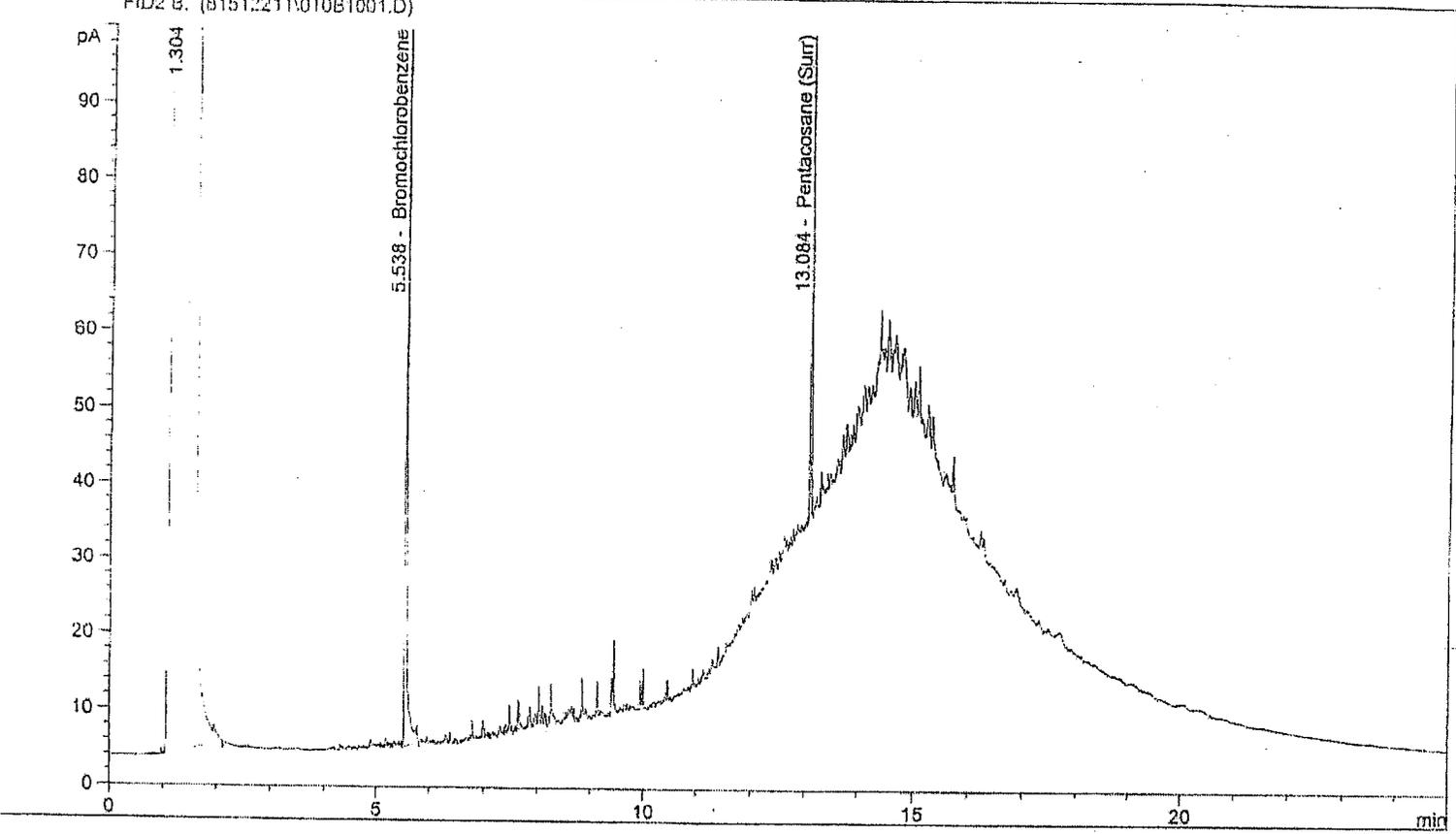
Ret. Time	Signal	Compound Name	Response	Amount ug/mL
5.538	FID2 B,	Bromochlorobenzene	329.302	52.985 106%
13.084		Pentacosane (Surr)	159.871	10.093 101%

G < 20 mg/kg
 D < 50
 MO < 100

12-22-05 DC

REVIEWED BY
 & DATE 12-23-05

Sample Name: 512106-8 HCID
 FID2 B, (81512211\010B1001.D)



Ret. Time	Signal	Compound Name	Response	Amount ug/mL
5.538	FID2 B,	Bromochlorobenzene	334.378	53.802 108/
13.084		Pentacosane (Surr)	169.233	10.684 107/

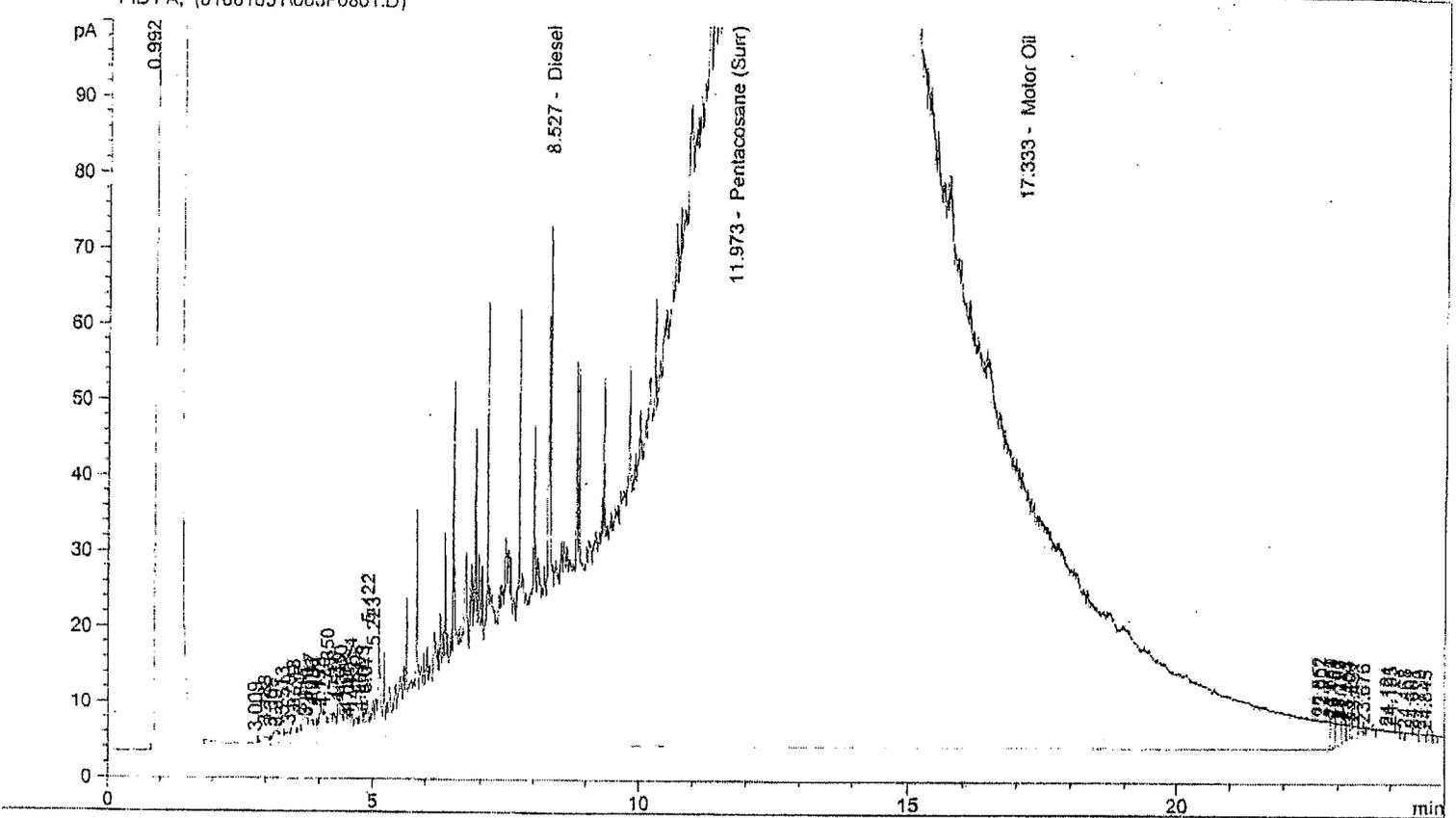
G < 20 mg/kg
 D > 50 mg/kg Diesel fuel
 MO > 100 mg/kg light oil & lube oil

12-22-05 DL

REVIEWED BY
 & DATE 12-23-05

Sample Name: 512106-8 SGA

FID1 A, (81601031\005F0801.D)



Ret. Time	Signal	Compound Name	Response	Amount ug/mL
8.527	FID1 A,	Diesel	14090.929	1160.143
11.973		Pentacosane (Surr)	177.481	10.850
17.333		Motor Oil	42127.730	3395.974

100%

REVIEWED BY
& DATE

1-5-06

2565g

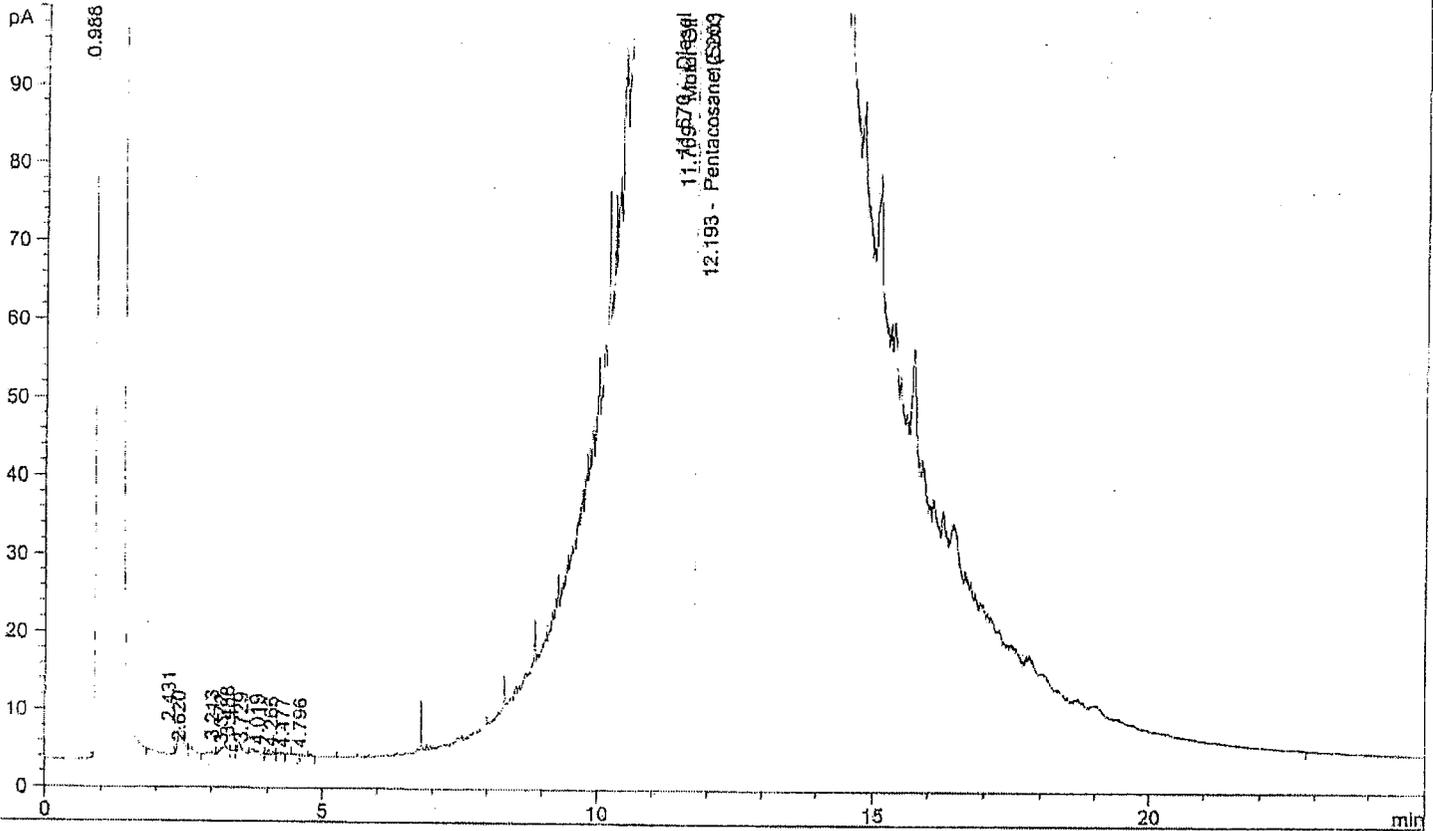
D = 450 mg/kg Diesel fuel (bias high due to motor oil range product overlap)

MO = 1300 mg/kg light oil & lube oil

01-04-06 DC

Sample Name: 512106-10 X10 SGA

FID1 A, (81512221\011F0601.D)



Ret. Time	Signal	Compound Name	Response	Amount ug/mL
11.670	FID1 A,	Diesel	18527.344	1527.673
11.769		Motor Oil	49658.137	4004.586
12.193		Pentacosane (Surr)	54.983	3.411 * corr. low due to dilution

REVIEWED BY
& DATE

12/23/05

24.91g

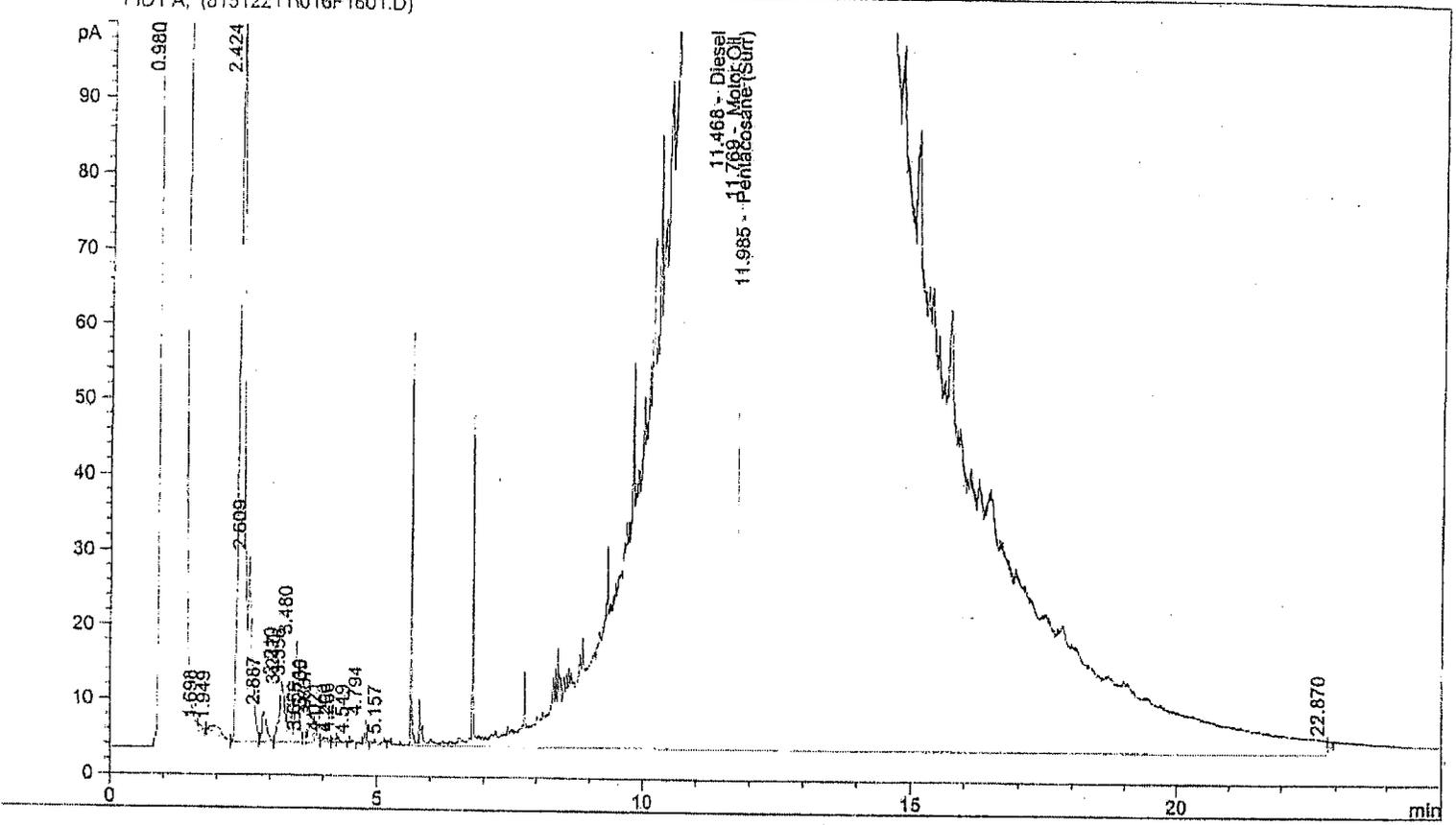
D = 6100 mg/kg < 500

MO = 16000 mg/kg Light oil 1/4 in 2.0

Note: Pentacosane limit lower than for NWIPD-05
 due to 90% range overlap 12-22-05 DC

Sample Name: 512106-19 H2OSGA

FID1 A, (81512211\016F1601.D)



Ret. Time	Signal	Compound Name	Response	Amount ug/mL
11.468	FID1 A,	Diesel	18724.779	1544.029
11.769		Motor Oil	55655.102	4489.264
11.985		Pentacosane (Surr)	720.053	43.797 109%

D = 3.9 mg/L < 0.25

MO = 11 mg/L Light oil/Lake Oil overlap

*Note: Reporting Limit same as
 11/17/05 due to oil usage*

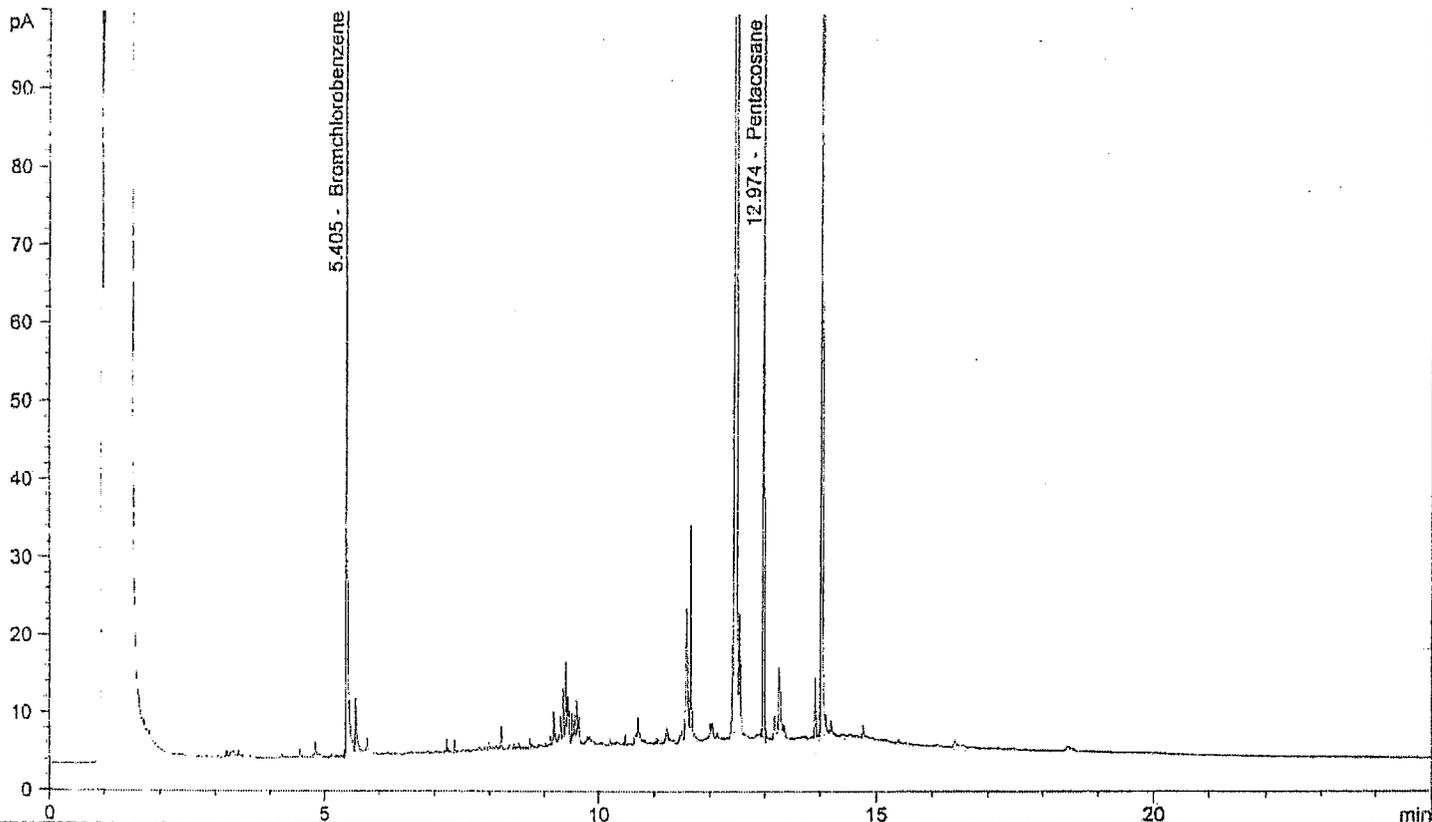
12-22-05 DC

REVIEWED BY
 & DATE *12-22-05*

Instrument #81 Data File: C:\HPCHEM\1\DATA\81512221\006F0601.D
 Operator: DLC
 Method: C:\HPCHEM\1\METHODS\FHCIDW.M
 Injection Date & Time: 12/22/05 10:18:58 AM 12/22/05 10:18:58 AM
 Report Creation: 12/22/05 12:50:28 PM

Sample Name: 512106-20 H2O 10ML RR

FID1 A, (81512221\006F0601.D)



Ret. Time	Signal	Compound Name	Response	Amount ug/mL
5.405	FID1 A,	Bromchlorobenzene	206.972	19.944 78%
12.974		Pentacosane	262.288	9.246 92%

G < 0.13 mg/L

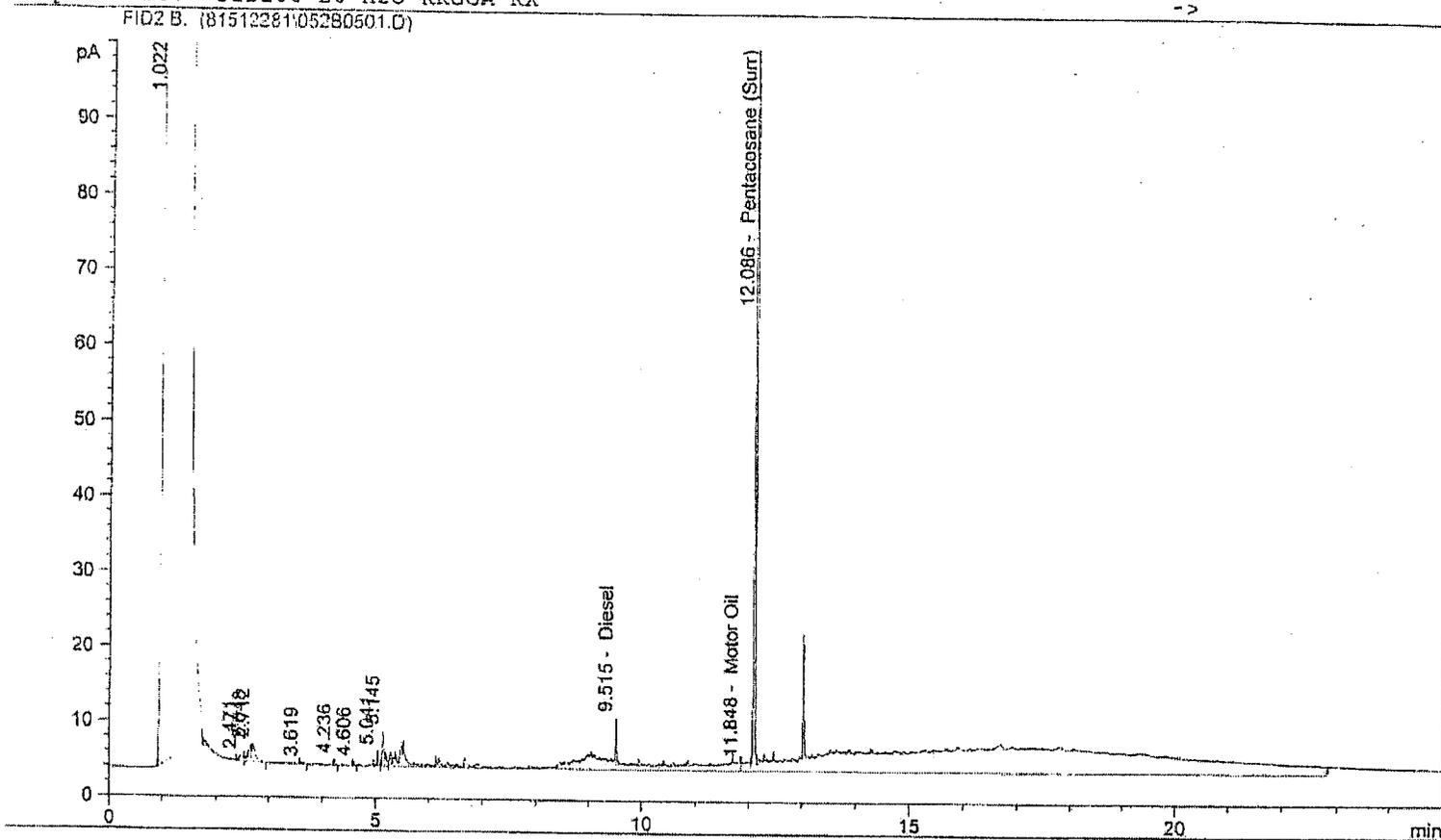
HO < 0.31 mg/L
 Dx

12-22-05 Dc

REVIEWED BY
 & DATE 12/23/05

Instrument #81 Data File: C:\HPCHEM\1\DATA\81512281\052B0501.D
 Operator: DLC
 Method: C:\HPCHEM\1\METHODS\EDMO0405.M
 Injection Date & Time: 12/28/05 10:18:55 AM 12/28/05 10:18:55 AM
 Report Creation: 12/28/05 10:45:21 AM

Sample Name: 512106-20 H2O RRS GA RX



Ret. Time	Signal	Compound Name	Response	Amount ug/mL
9.515	FID2 B,	Diesel	271.001	28.150
11.848		Motor Oil	1604.412	68.369
12.086		Pentacosane (Surr)	537.626	30.68277%

D < 0.13 mg/L

MO < 0.25 mg/L

12-28-05 DL

REVIEWED BY
 & DATE 12-28-05



CCI Analytical Laboratories, Inc.
 3620 Holly Drive
 Everett, WA 98208
 Phone (425) 356-2600
 (206) 292-9069 Seattle
 (425) 356-2626 Fax
 http://www.cci-labs.com

Chain Of Custody/ Laboratory Analysis Request

CCI Job# _____ (Laboratory Use Only)

71010000

Date 12-20-05 Page 1 of 3

PROJECT ID: 1244-001-00					ANALYSIS REQUESTED										OTHER (Specify)	
REPORT TO COMPANY: CSE ENVIRONMENTAL					<input type="checkbox"/> WATER/ACID <input type="checkbox"/> WATER/DOX <input type="checkbox"/> WATER/HSX <input type="checkbox"/> FTEX BY EPA-8021 <input type="checkbox"/> W/PE BY EPA-9021 <input type="checkbox"/> EPA-8260 <input type="checkbox"/> Halogenated Volatiles by EPA-8260 <input type="checkbox"/> Volatile Organic Compounds by EPA-8260 <input type="checkbox"/> Benzene, toluene (EBU) by EPA-8260 <input type="checkbox"/> EPA-8041 <input type="checkbox"/> 1,2-Dichloroethane (EDC) by EPA-9251 <input type="checkbox"/> Semivolatile Organic Compounds by EPA-8270 <input type="checkbox"/> Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270-91M <input type="checkbox"/> PCB <input type="checkbox"/> Pesticides <input type="checkbox"/> by EPA-8081/8082 <input type="checkbox"/> Metals-MTCA-91 RCRA-8 <input type="checkbox"/> Pb/Pt <input type="checkbox"/> TAL <input type="checkbox"/> <input type="checkbox"/> Metals: Other (Specify) <input type="checkbox"/> TCLP-Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Pests <input type="checkbox"/> Herbs										NUMBER OF CONTAINERS RECEIVED IN GOOD CONDITION?	
PROJECT MANAGER: LISA BORN																
ADDRESS: PENNSYLVANIA																
PHONE: 425 356-2600 FAX: 425 356-2626																
P.O. NUMBER: _____ E-MAIL: _____																
INVOICE TO COMPANY: SAME																
ATTENTION: L. BORN																
ADDRESS: SAME																
SAMPLE I.D.	DATE	TIME	TYPE	LAB#												
1. B-14-4	12-20-05	1300	S	1												
2. B-14-6		1315	S	2												
3. B-13-6		1325	S	3												
4. B-15a-4		1430	S	4												
5. B-13-8		1345	S	5												
6. B-15-8		1500	S	6												
7. B-15-5		1450	S	7												
8. B-16-2	12-20-05	0930	S	8												
9. B-16-5		0940	S	9												
10. B-12-8		1030	S	10												

REPORT COPY

SPECIAL INSTRUCTIONS: (X) ADD 1/3/06 as Lisa (O) added 1/9 previously skipped in error RO

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: M. J. ... CCI 12-20-05 1640 Organic, Metals & Inorganic Analysis TURNAROUND REQUESTED in Business Days* OTHER: _____

Received By: [Signature] CCI 12/20/05 1640 10 5 3 2 1 SAME DAY Specify: 5015 5 day

2. Relinquished By: _____ Fuels & Hydrocarbon Analysis 5 3 1 SAME DAY Water 3 day

Received By: _____

* Turnaround request less than standard may incur Rush Charges



CCI Analytical Laboratories, Inc.
 8820 Holly Drive
 Everett, WA 98208
 Phone (425) 356-2800
 (206) 292-9059 Seattle
 (425) 356-2626 Fax
 http://www.cclabs.com

Chain Of Custody/ Laboratory Analysis Request

Date 12-20-05 Page 2 of 3

PROJECT ID: <u>12468-001-00</u>	ANALYSIS REQUESTED		OTHER (Specify)
REPORT TO COMPANY: <u>GENERALINERS</u>	<input type="checkbox"/> NWTPH-HCID <input checked="" type="checkbox"/> NWTPH-CX <input type="checkbox"/> NWTPH-GX <input type="checkbox"/> BTEX by EPA-8021 <input type="checkbox"/> MTBE by EPA-8021 <input type="checkbox"/> EPA-8260 <input type="checkbox"/> Halogenated Volatiles by EPA-8260 <input type="checkbox"/> Volatile Organic Compounds by EPA-8260 <input type="checkbox"/> Ethylene dibromide (EDB) by EPA-8260 <input type="checkbox"/> EPA-804 <input type="checkbox"/> 1,2-Dichloroethane (DCE) by EPA-8260 <input type="checkbox"/> Semivolatile Organic Compounds by EPA-8270 <input type="checkbox"/> Polycyclic aromatic Hydrocarbons (PAH) by EPA-8270 SIM <input type="checkbox"/> <input type="checkbox"/> PCB <input type="checkbox"/> Pesticides <input type="checkbox"/> by EPA 505/18062 <input type="checkbox"/> Metals-MTCA-6 <input type="checkbox"/> RCRA-6 <input type="checkbox"/> PFI <input type="checkbox"/> TAL <input type="checkbox"/> <input type="checkbox"/> Metals Other (Specify) <input type="checkbox"/> TCLP-Metals <input type="checkbox"/> VOC <input type="checkbox"/> Sample Vol <input type="checkbox"/> Post <input type="checkbox"/> Herbs <input type="checkbox"/>		
PROJECT MANAGER: <u>LISA BONA</u>			
ADDRESS: <u>REDMOND</u>			
PHONE: <u>425-356-2800</u> FAX: <u>425-356-2626</u>			
P.O. NUMBER: _____ EMAIL: _____			
INVOICE TO COMPANY: <u>SAME</u>			
ATTENTION: <u>L. BONA</u>			
ADDRESS: <u>SAME</u>			

SAMPLE ID	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-CX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 <input type="checkbox"/> EPA-8260 <input type="checkbox"/>	Halogenated Volatiles by EPA-8260	Volatile Organic Compounds by EPA-8260	Ethylene dibromide (EDB) by EPA-8260 <input type="checkbox"/> EPA-804 <input type="checkbox"/>	1,2-Dichloroethane (DCE) by EPA-8260	Semivolatile Organic Compounds by EPA-8270	Polycyclic aromatic Hydrocarbons (PAH) by EPA-8270 SIM <input type="checkbox"/>	PCB <input type="checkbox"/> Pesticides <input type="checkbox"/> by EPA 505/18062	Metals-MTCA-6 <input type="checkbox"/> RCRA-6 <input type="checkbox"/> PFI <input type="checkbox"/> TAL <input type="checkbox"/>	Metals Other (Specify)	TCLP-Metals <input type="checkbox"/> VOC <input type="checkbox"/> Sample Vol <input type="checkbox"/> Post <input type="checkbox"/> Herbs <input type="checkbox"/>	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?	
1. B-12-10	12-20-05	1040	M	11																		
2. B-11-4		1200	M	12																		
3. B-16a-5		1250	M	13																		
4. B-16a-7		1255	M	14																		
5. B-8-3		1415	M	15																		
6. B-8-5		1420	M	16																		
7. B-8-7		1445	M	17																		
8. B-11-6		1210	M	18																		
9. B-12		1150	W	19		X								X								
10. B-16		1245	W	20		X																

SPECIAL INSTRUCTIONS: 4 1/2 hrs. 12:30 PM

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: Marilyn Affinity, GSI, 12-20-05 1640
 Received By: Paul Bona, CCI, 12-20-05 1640

2. Relinquished By: _____
 Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: 10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis: 5 3 1 SAME DAY

OTHER: Soils 5 day
Waters 3 day

* Turnaround request less than standard may incur Rush Charges

REPORT COPY



CCI Analytical Laboratories, Inc.
 8620 Holly Drive
 Everett, WA 98208
 Phone (425) 356-2600
 (206) 292-9059 Seattle
 (425) 356-2628 Fax
 http://www.ccllabs.com

Chain Of Custody/ Laboratory Analysis Request

CCI Job# (Laboratory Use Only)

512106

Date 12-20-05 Page 3 of 3

PROJECT ID: 12066-001-00					ANALYSIS REQUESTED										OTHER (Specify)													
REPORT TO COMPANY: CCI					<input type="checkbox"/> INWTRPHCID <input type="checkbox"/> INWTRPHDX <input type="checkbox"/> INWTRPHCX <input type="checkbox"/> BTEX by EPA-8021 <input type="checkbox"/> MTBE by EPA-8021 <input type="checkbox"/> EPA-8260 <input type="checkbox"/> Halogenated Volatiles by EPA-8260 <input type="checkbox"/> Volatile Organic Compounds by EPA-8260 <input type="checkbox"/> Ethylene dibromide (EDB) by EPA-8260 <input type="checkbox"/> EPA-8141 <input type="checkbox"/> 1,2-Dichloroethane (EDC) by EPA-8260 <input type="checkbox"/> Semivolatile Organic Compounds by EPA-8270 <input type="checkbox"/> Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 814 <input type="checkbox"/> PCB <input type="checkbox"/> Pesticides <input type="checkbox"/> by EPA-8061/8082 <input type="checkbox"/> Metals-MTCA-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> PH/Pb <input type="checkbox"/> TAL <input type="checkbox"/> Metals Other (Specify) <input type="checkbox"/> TCLP-Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Past <input type="checkbox"/> Herbs																							
PROJECT MANAGER: L. BARR																												
ADDRESS:																												
PHONE:																												
FAX:																												
P.O. NUMBER:																												
EMAIL:																												
INVOICE TO COMPANY:																												
ATTENTION: SAME																												
ADDRESS:																												
SAMPLE ID					DATE					TIME					TYPE					LAB#					NUMBER OF CONTAINERS		RECEIVED IN GOOD CONDITION?	
1. B-7-3					12-20-05					1600					S													
2. B-7-5										1603					S													
3. B-7-7										1610					S													
4.																												
5.																												
6.																												
7.																												
8.																												
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]* CCI, 12-20-05 1030
 Received By: *[Signature]* CCI, 12-20-05 400
 2. Relinquished By: _____
 Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis
 10 5 1 3 2 5 1 DAY
 Fuels & Hydrocarbon Analysis
 5 3 1 DAY
 WATER

OTHER: _____
 Specify: _____

* Turnaround request less than standard may incur Rush Charges



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/6/06
CCIL JOB #: 512115
CCIL SAMPLE #: 3
DATE RECEIVED: 12/21/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: B-10-9.5 12/21/05 1115

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
HCID-GAS RANGE	NWTPH-HCID	ND	20	1	MG/KG GAS	12/23/05	DLC
HCID-DIESEL RANGE	NWTPH-HCID	ND	50	1	MG/KG DSL	12/23/05	DLC
HCID-OIL RANGE	NWTPH-HCID	>	100	1	MG/KG OIL	12/23/05	DLC
TPH-DIESEL RANGE	NWTPH-DX W/ CLEANUP	ND	25	1	MG/KG	1/3/06	DLC
TPH-LUBE OIL RANGE	NWTPH-DX W/ CLEANUP	220	50	1	MG/KG	1/3/06	DLC

NOTE: CHROMATOGRAM INDICATES SAMPLES CONTAINS PRODUCT THAT IS LIKELY LUBE OIL

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: 



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/6/06
CCIL JOB #: 512115
CCIL SAMPLE #: 5
DATE RECEIVED: 12/21/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12866-001-00
CLIENT SAMPLE ID: B-10-5 12/21/05 1120

DATA RESULTS

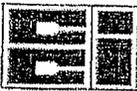
ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-DIESEL RANGE	NWTPH-DX W/CLEANUP	1100	500	20	MG/KG	12/17/05	DLC
TPH-LUBE OIL RANGE	NWTPH-DX W/CLEANUP	3100	1000	20	MG/KG	12/27/05	DLC
NAPHTHALENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
1-METHYLNAPHTHALENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
2-METHYLNAPHTHALENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
ACENAPHTHYLENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
ACENAPHTHENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
FLUORENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
PHENANTHRENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
ANTHRACENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
FLUORANTHENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
PYRENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
BENZO(A)ANTHRACENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
CHRYSENE	EPA-8270 SIM	0.10	0.02	1	MG/KG	1/3/06	CCN
BENZO(B)FLUORANTHENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
BENZO(K)FLUORANTHENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
BENZO(A)PYRENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
INDENO[1,2,3-CD]PYRENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
DIBENZ(A,H)ANTHRACENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
BENZO(G,H,I)PERYLENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN

NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT THAT IS LIKELY LIGHT OIL

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: 



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/6/06
CCIL JOB #: 512115
CCIL SAMPLE #: 6
DATE RECEIVED: 12/21/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: B-10 12/21/05 1200

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-DIESEL RANGE	NWTPH-DX	1600	130	1	UG/L	12/23/05	DLC
TPH-LUBE OIL RANGE	NWTPH-DX	5000	250	1	UG/L	12/23/05	DLC
NAPHTHALENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
1-METHYLNAPHTHALENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
2-METHYLNAPHTHALENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
ACENAPHTHYLENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
ACENAPHTHENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
FLUORENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
PHENANTHRENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
ANTHRACENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
FLUORANTHENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
PYRENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
BENZO[A]ANTHRACENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
CHRYSENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
BENZO[B]FLUORANTHENE	EPA-8270 SIM	ND	0.03	1	UG/L	12/28/05	CCN
BENZO[K]FLUORANTHENE	EPA-8270 SIM	ND	0.03	1	UG/L	12/28/05	CCN
BENZO[A]PYRENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
INDENO[1,2,3-CD]PYRENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
DIBENZ[A,H]ANTHRACENE	EPA-8270 SIM	ND	0.03	1	UG/L	12/28/05	CCN
BENZO[G,H,I]PERYLENE	EPA-8270 SIM	0.12	0.02	1	UG/L	12/28/05	CCN

NOTE. CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT THAT IS LIKELY LIGHT OIL

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: 



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 12/30/05
CCIL JOB #: 512115
CCIL SAMPLE #: 7
DATE RECEIVED: 12/21/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: B-14A 12/21/05 1330

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
HCID-GAS RANGE	NWTPH-HCID	ND	0.13	1	MG/L GAS	12/23/05	DLC
HCID-DIESEL RANGE	NWTPH-HCID	ND	0.31	1	MG/L DSL	12/23/05	DLC
HCID-OIL RANGE	NWTPH-HCID	ND	0.31	1	MG/L OIL	12/23/05	DLC

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: 



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/6/06
CCIL JOB #: 512115
CCIL SAMPLE #: 8
DATE RECEIVED: 12/21/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: B-10A-5 12/21/05 1215

DATA RESULTS

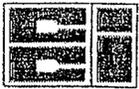
ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-DIESEL RANGE	NWTPH-DX W/CLEANUP	790	50	2	MG/KG	12/27/05	DLC
TPH-LUBE OIL RANGE	NWTPH-DX W/CLEANUP	2300	100	2	MG/KG	12/27/05	DLC
NAPHTHALENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
1-METHYLNAPHTHALENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
2-METHYLNAPHTHALENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
ACENAPHTHYLENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
ACENAPHTHENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
FLUORENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
PHENANTHRENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
ANTHRACENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
FLUORANTHENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
PYRENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
BENZO[A]ANTHRACENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
CHRYSENE	EPA-8270 SIM	ND	0.04	1	MG/KG	1/3/06	CCN
BENZO[B]FLUORANTHENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
BENZO[K]FLUORANTHENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
BENZO[A]PYRENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
INDENO[1,2,3-CD]PYRENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
DIBENZ[A,H]ANTHRACENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
BENZO[G,H,I]PERYLENE	EPA-8270 SIM	ND	0.03	1	MG/KG	1/3/06	CCN

NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCTS WHICH ARE LIKELY LIGHT OIL AND LUBE OIL

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 12/30/05
CCIL JOB #: 512115
CCIL SAMPLE #: 15
DATE RECEIVED: 12/21/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: B-2-10 12/21/05 1445

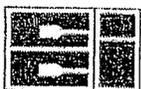
DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
HCID-GAS RANGE	NWTPH-HCID	ND	20	1	MG/KG GAS	12/23/05	DLC
HCID-DIESEL RANGE	NWTPH-HCID	ND	50	1	MG/KG DSL	12/23/05	DLC
HCID-OIL RANGE	NWTPH-HCID	ND	100	1	MG/KG OIL	12/23/05	DLC

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 12/30/05
CCIL JOB #: 512115
CCIL SAMPLE #: 18
DATE RECEIVED: 12/21/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: B-3-6 12/21/05 1520

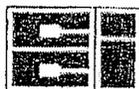
DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
HCID-GAS RANGE	NWTPH-HCID	ND	20	1	MG/KG GAS	12/23/05	DLC
HCID-DIESEL RANGE	NWTPH-HCID	ND	50	1	MG/KG DSL	12/23/05	DLC
HCID-OIL RANGE	NWTPH-HCID	ND	100	1	MG/KG OIL	12/23/05	DLC

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: 



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/6/06
CCIL JOB #: 512115

DATE RECEIVED: 12/21/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	SPIKE AMOUNT	% RECV
512115-03	NWTPH-HCID	BCB	50 PPM	104
512115-03	NWTPH-HCID	C25	10 PPM	103
512115-03	NWTPH-DX W/CLEANUP	C25	5 PPM	87
512115-05	NWTPH-DX W/CLEANUP	C25	5 PPM	*
512115-05	EPA-8270 SIM	TERPHENYL-d14	1.2 PPM	53
512115-06	NWTPH-DX	C25	0.1 PPM	104
512115-06	EPA-8270 SIM	TERPHENYL-d14	5 PPB	113
512115-07	NWTPH-HCID	BCB	0.31 PPM	109
512115-07	NWTPH-HCID	C25	0.13 PPM	115
512115-07 (CONCENTRATE)	NWTPH-HCID	C25	0.13 PPM	92
512115-08	NWTPH-DX W/CLEANUP	C25	5 PPM	106
512115-08	EPA-8270 SIM	TERPHENYL-d14	1.2 PPM	62
512115-15	NWTPH-HCID	BCB	50 PPM	106
512115-15	NWTPH-HCID	C25	10 PPM	103
512115-18	NWTPH-HCID	BCB	50 PPM	106
512115-18	NWTPH-HCID	C25	10 PPM	100

BLANK AND DUPLICATE RESULTS

METHOD	BLX RESULT	ASSOC SMPLS	DUP RESULT	ORIG RESULT	%RDP	ASSOC SMPLS
NWTPH-HCID(GAS)	ND(<20)	512115-03,15,18	ND(<20)	ND(<20)	****	SAME
NWTPH-HCID(DSL)	ND(<50)	512115-03,15,18	ND(<50)	ND(<50)	****	SAME
NWTPH-HCID(OIL)	ND(<100)	512115-03,15,18	ND(<100)	ND(<100)	****	SAME
NWTPH-HCID(GAS)	ND(<0.13)	512115-07				
NWTPH-HCID(DSL)	ND(<0.31)	512115-07				
NWTPH-HCID(OIL)	ND(<0.31)	512115-07				
NWTPH-DX (DSL)	ND(<25)	512115-05,08				
NWTPH-DX (OIL)	ND(<50)	512115-05,08				



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/6/06
CCIL JOB #: 512115

DATE RECEIVED: 12/21/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00

QUALITY CONTROL RESULTS

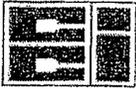
NWTPH-DX (DSL)	ND(<25)	512115-03
NWTPH-DX (OIL)	ND(<50)	512115-03
NWTPH-DX (DSL)	ND(<130)	512115-06
NWTPH-DX (OIL)	ND(<250)	512115-06
EPA-8270 SIM	SEE BLANK REPORTS	

SPIKE/ SPIKE DUPLICATE RESULTS

METHOD	SPIKE ID	ASSOCIATED SAMPLES	SPIKE AMOUNT	DILUTION FACTOR	% SPIKE RECOVERY	% SPIKE DUP RECOVERY	REL % DIFF
NWTPH-DX	DIESEL	512115-05,08	130 PPM	1	95	96	1
NWTPH-DX	DIESEL	512115-03	130 PPM	1	85	84	1
NWTPH-DX	DIESEL	512115-06	1.3 PPM	1	101	102	1
EPA-8270 SIM	NAPHTHALENE	512115-05,08	0.5 PPM	1	116	100	15
EPA-8270 SIM	ACENAPHTHENE	512115-05,08	0.5 PPM	1	117	103	13
EPA-8270 SIM	PYRENE	512115-05,08	0.5 PPM	1	111	91	20
EPA-8270 SIM	BENZO[a,h]PERYLENE	512115-05,08	0.5 PPM	1	95	80	17
EPA-8270 SIM	NAPHTHALENE	512115-06	5 PPB	1	80	89	11
EPA-8270 SIM	ACENAPHTHENE	512115-06	5 PPB	1	91	99	9
EPA-8270 SIM	PYRENE	512115-06	5 PPB	1	104	109	4
EPA-8270 SIM	BENZO[a,h]PERYLENE	512115-06	5 PPB	1	80	83	3

* SURROGATE DILUTED OUT OF CALIBRATION RANGE
**** %RPD NOT REPORTED FOR VALUES <X5 THE REPORTING LIMIT

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/6/06
CCIL JOB #: 512115
CCIL SAMPLE #: BLK1
DATE RECEIVED: 12/21/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: METHOD BLANK FOR EPA-8270 SIM SOILS

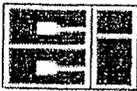
DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
NAPHTHALENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
1-METHYLNAPHTHALENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
2-METHYLNAPHTHALENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
ACENAPHTHYLENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
ACENAPHTHENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
FLUORENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
PHENANTHRENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
ANTHRACENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
FLUORANTHENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
PYRENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
BENZO[A]ANTHRACENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
CHRYSENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
BENZO[B]FLUORANTHENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
BENZO[K]FLUORANTHENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
BENZO[A]PYRENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
INDENO[1,2,3-CD]PYRENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
DIBENZ[A,H]ANTHRACENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN
BENZO[G,H,I]PERYLENE	EPA-8270 SIM	ND	0.02	1	MG/KG	1/3/06	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: 



CERTIFICATE OF ANALYSIS

CLIENT: GEOENGINEERS, INC
8410 154th AVE NE
REDMOND, WA 98052

DATE: 1/6/06
CCIL JOB #: 512115
CCIL SAMPLE #: BLK2
DATE RECEIVED: 12/21/05
WDOE ACCREDITATION #: C142

CLIENT CONTACT: LISA BONA

CLIENT PROJECT ID: 12666-001-00
CLIENT SAMPLE ID: METHOD BLANK FOR EPA-8270 SIM WATER

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING	DILUTION	UNITS**	ANALYSIS	ANALYSIS
			LIMITS	FACTOR		DATE	BY
NAPHTHALENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
1-METHYLNAPHTHALENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
2-METHYLNAPHTHALENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
ACENAPHTHYLENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
ACENAPHTHENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
FLUORENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
PHENANTHRENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
ANTHRACENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
FLUORANTHENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
PYRENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
BENZO[A]ANTHRACENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
CHRYSENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
BENZO[B]FLUORANTHENE	EPA-8270 SIM	ND	0.03	1	UG/L	12/28/05	CCN
BENZO[K]FLUORANTHENE	EPA-8270 SIM	ND	0.03	1	UG/L	12/28/05	CCN
BENZO[A]PYRENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
INDENO[1,2,3-CD]PYRENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN
DIBENZ[A,H]ANTHRACENE	EPA-8270 SIM	ND	0.03	1	UG/L	12/28/05	CCN
BENZO[G,H,I]PERYLENE	EPA-8270 SIM	ND	0.02	1	UG/L	12/28/05	CCN

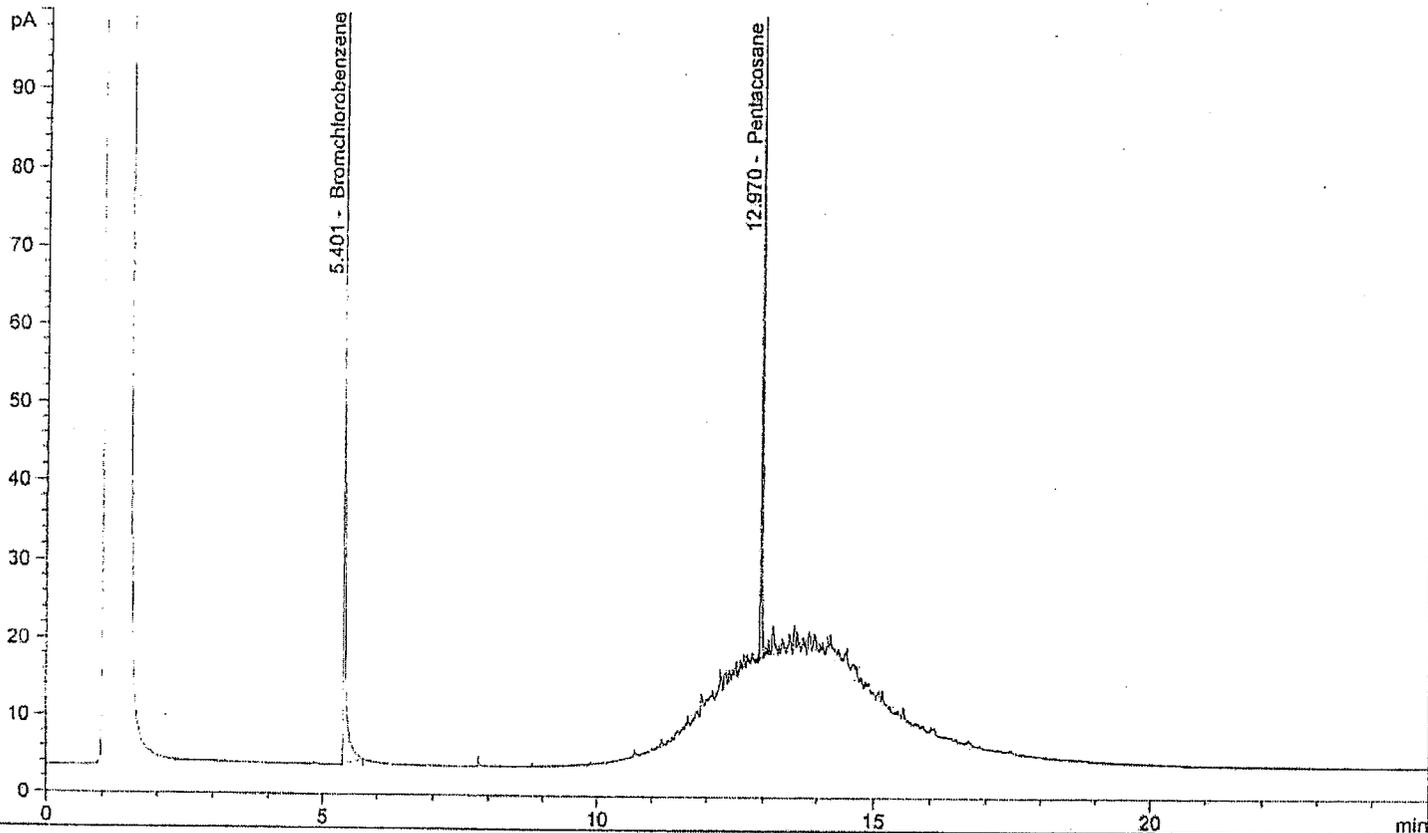
* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: 

Instrument #81 Data File: C:\HPCHEM\1\DATA\81512231\013F2001.D
 Operator: DLC
 Method: C:\HPCHEM\1\METHODS\FHCIDS.M
 Injection Date & Time: 12/23/05 8:12:26 PM 12/23/05 8:12:26 PM
 Report Creation: 12/27/05 8:56:47 AM

Sample Name: 512115-3 HCID
 FID1 A, (81512231\013F2001.D)



Ret. Time	Signal	Compound Name	Response	Amount ug/mL
5.401	FID1 A,	Bromchlorobenzene	331.727	51.781 ¹⁰⁴ %
12.970		Pentacosane	168.873	10.281 ¹⁰⁵ %

G < 20 mg/kg

D < 50

M0 > 100 | Light oil

12-27-05 DC

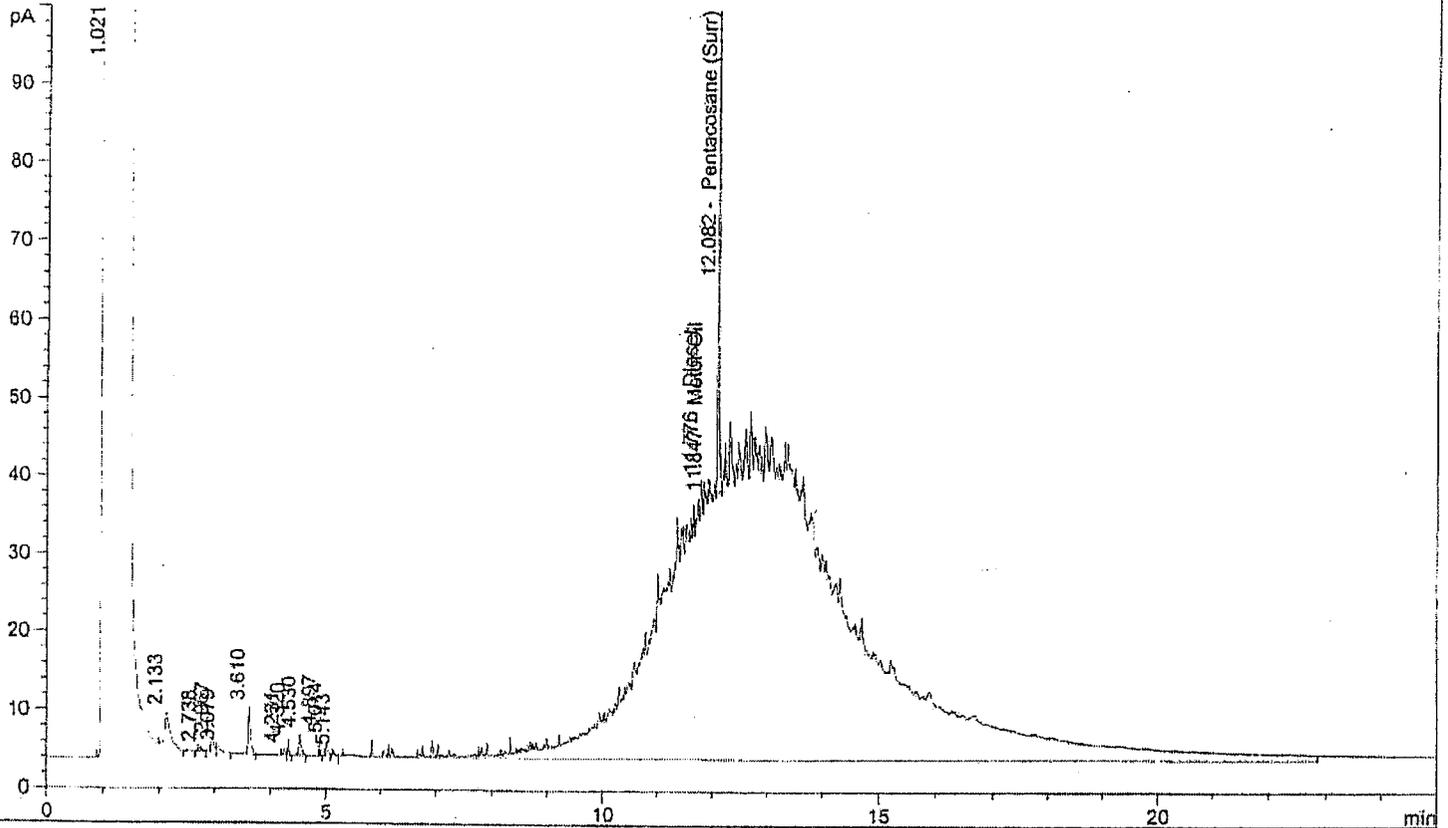
REVIEWED BY
 & DATE

12-27-05

Instrument #81 Data File: C:\HPCHEM\1\DATA\81601031\053B0801.D
 Operator: DLC
 Method: C:\HPCHEM\1\METHODS\BDM00405.M
 Injection Date & Time: 1/3/06 1:57:51 PM 1/3/06 1:57:51 PM
 Report Creation: 1/3/06 2:31:53 PM

Sample Name: 512115-3 SGA

FID2 B, (81601031\053B0801.D)



Ret. Time	Signal	Compound Name	Response	Amount ug/mL
11.776	FID2 B,	Diesel	2291.455	174.484
11.847		Motor Oil	7267.773	541.913
12.082		Pentacosane (Surr)	157.419	8.735 87/

CR 24.32g

D = 72 mg/kg < 25

MO = 220 mg/kg Light oil & Lube oil

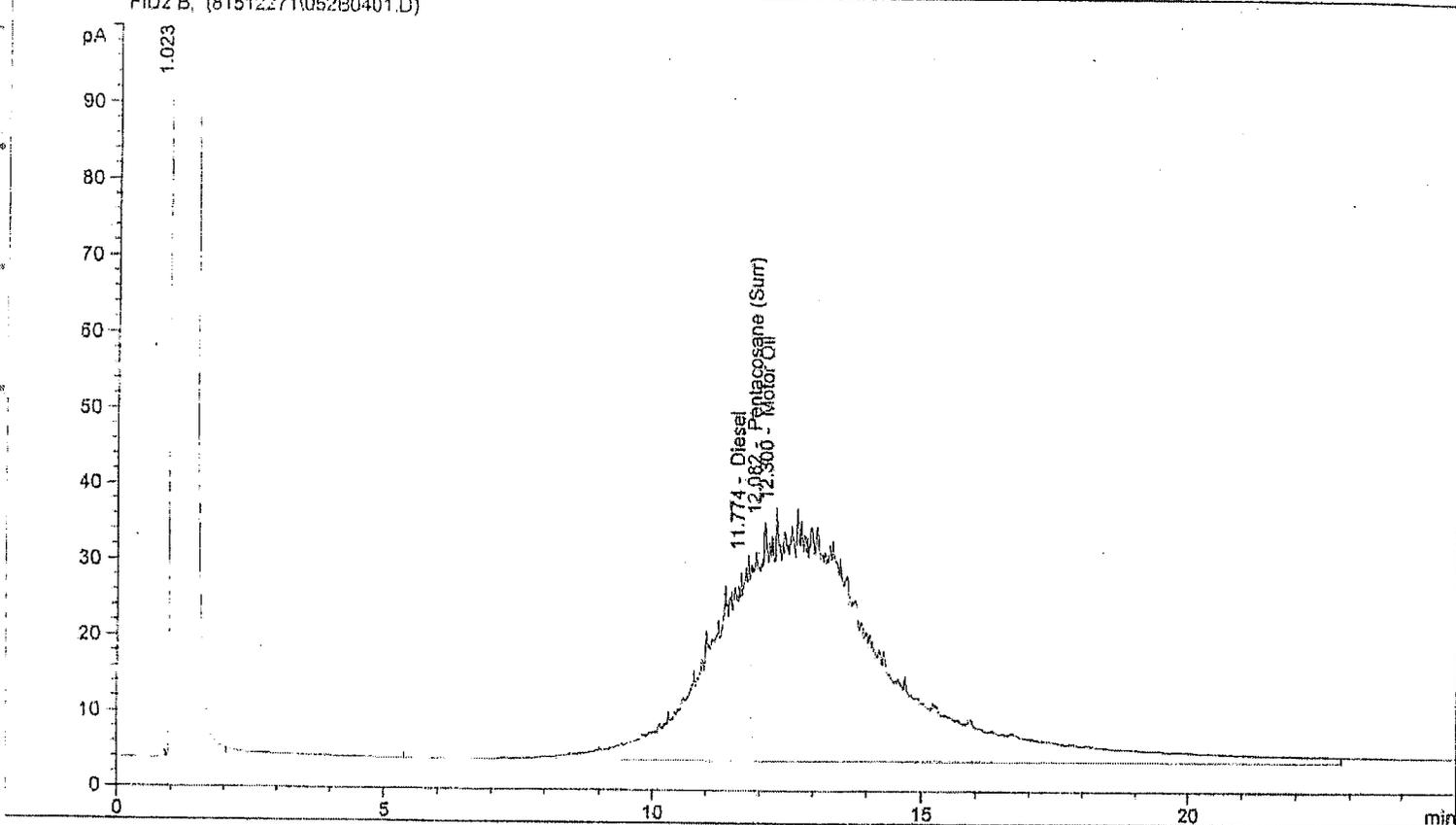
01-04-06 DL

REVIEWED BY 1.5.06
 & DATE

Instrument #81 Data File: C:\HPCHEM\1\DATA\81512271\052B0401.D
 Operator: DLC
 Method: C:\HPCHEM\1\METHODS\EDMO0405.M
 Injection Date & Time: 12/27/05 10:40:27 AM 12/27/05 10:40:27 AM
 Report Creation: 12/28/05 11:27:06 AM

Sample Name: 512115-5 X20 SGA

FID2 B, (81512271\052B0401.D)



Ret. Time	Signal	Compound Name	Response	Amount ug/mL
11.774	FID2 B,	Diesel	1681.535	130.310
12.082		Pentacosane (Surr)	8.941	0.164
12.300		Motor Oil	5202.641	369.236

0.164 % surr. low due to dilution

24.21g

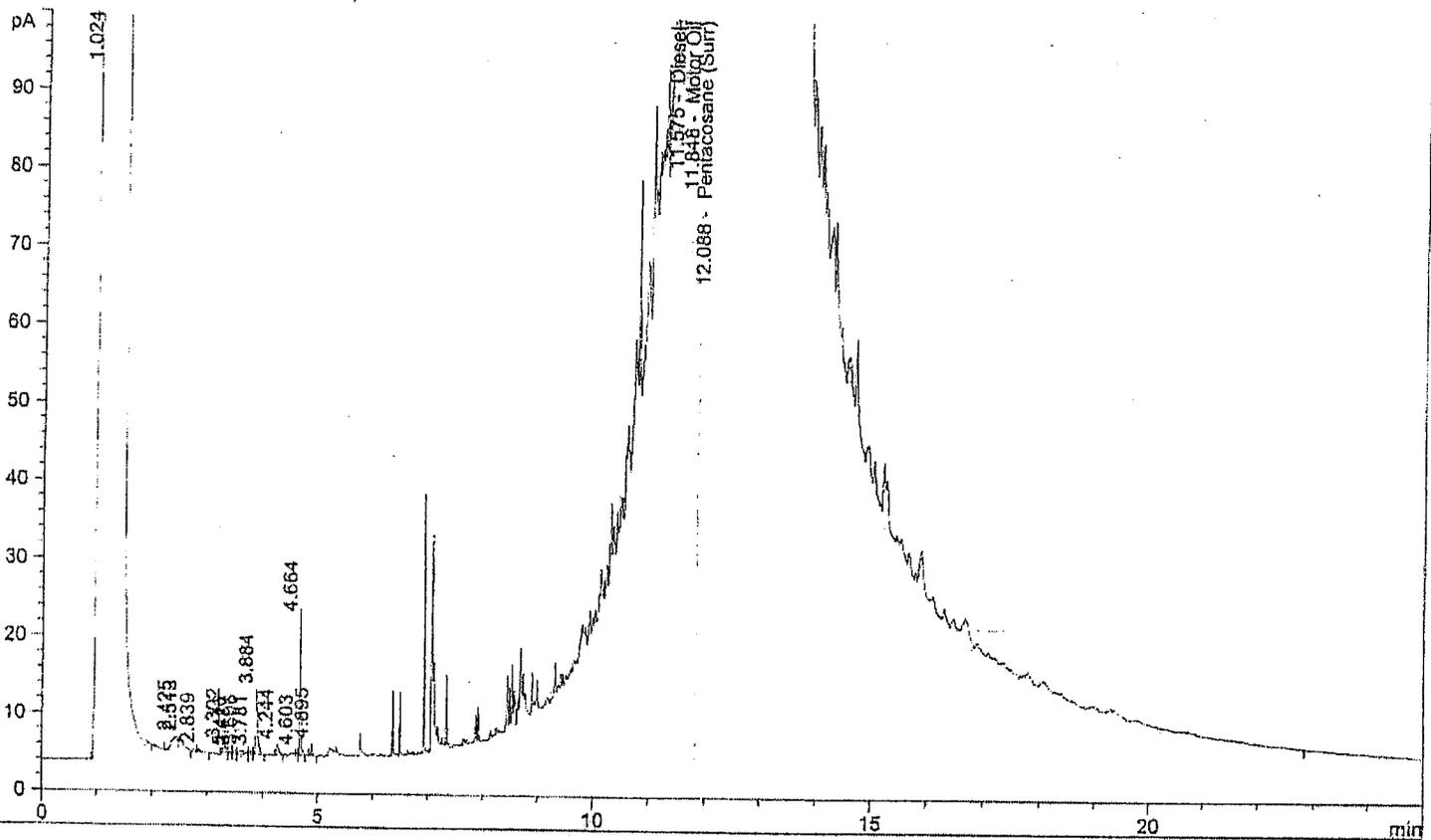
D = 1100 mg/kg

MO = $\frac{3100}{1.2}$ mg/kg Light oil

12-28-05 DC

REVIEWED BY
 & DATE 12-29-05

Sample Name: 512115-6 H2O
 FID2 B. (81512231\056B1001.D)



Ret. Time	Signal	Compound Name	Response	Amount ug/mL
11.575	FID2 B,	Diesel	8891.521	652.504
11.848		Motor Oil	24505.055	1983.213
12.088		Pentacosane (Surr)	726.816	41.602 104%

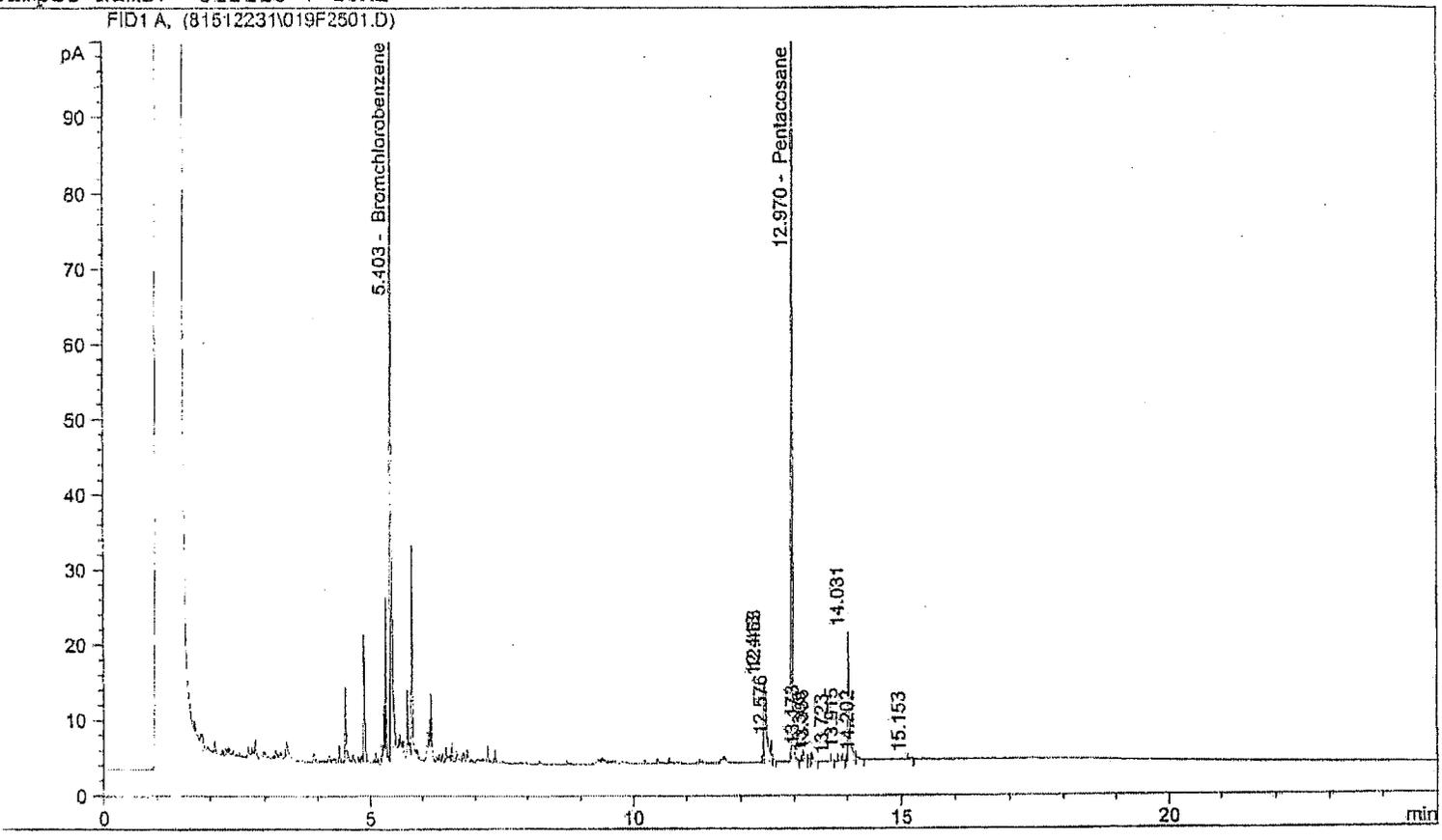
D = 1.6 mg/L

MO = 5.0 mg/L light oil

12-27-05 DC

REVIEWED BY
 & DATE 12-29-05

Sample Name: 512115-7 10ML
 FID1 A, (81512231\019F2501.D)



Ret. Time	Signal	Compound Name	Response	Amount ug/mL
5.403	FID1 A,	Bromchlorobenzene	281.964	27.171 109%
12.970		Pentacosane	326.592	11.513 115%

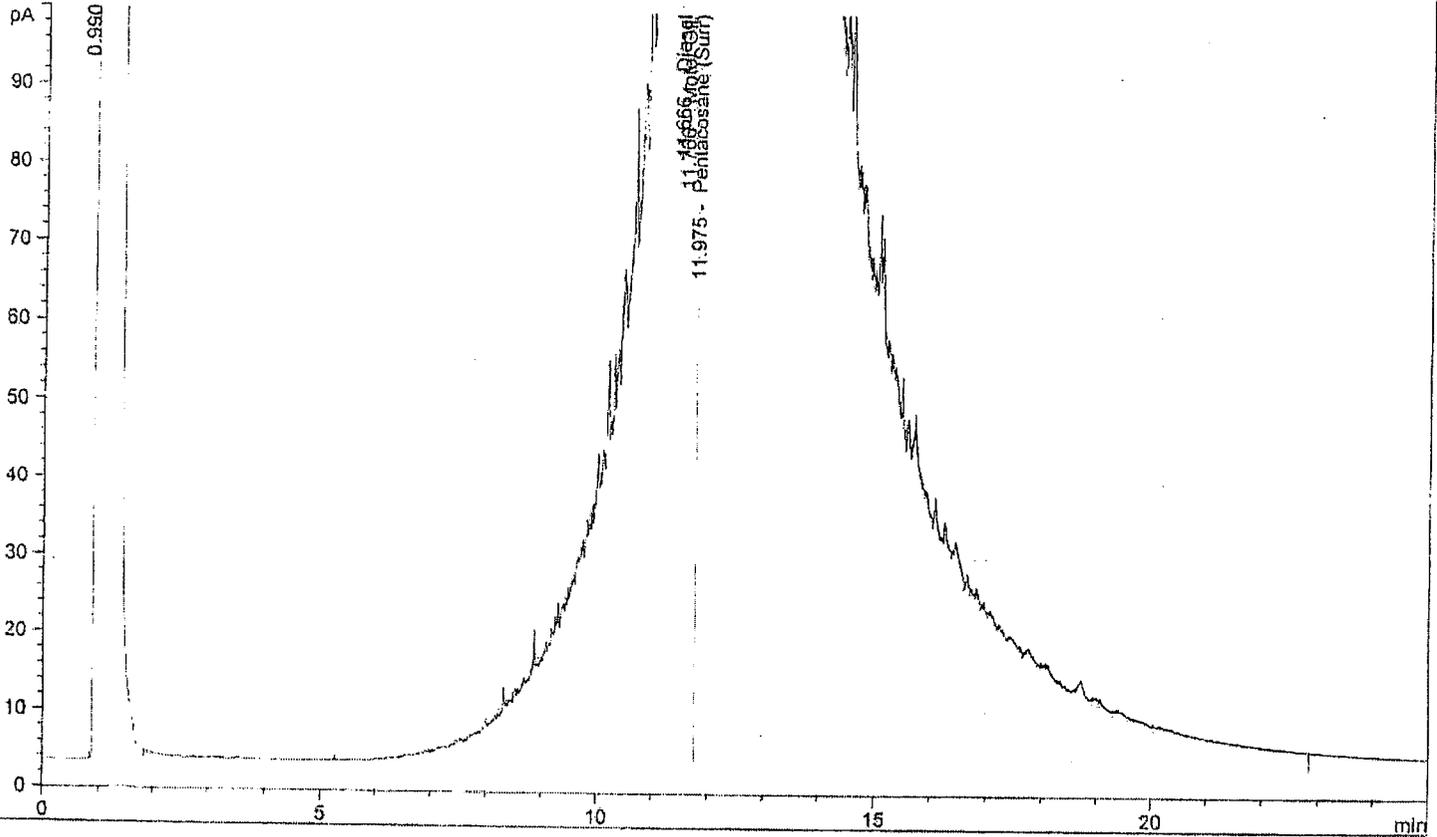
B < 0.13 mg/L
 D < 0.31 mg/L

12-27-05 DC

REVIEWED BY
 & DATE 12-27-05

Instrument #81 Data File: C:\HPCHEM\1\DATA\81512271\005F0501.D
 Operator: DLC
 Method: C:\HPCHEM\1\METHODS\FDMO0805.M
 Injection Date & Time: 12/27/05 11:10:50 AM 12/27/05 11:10:50 AM
 Report Creation: 12/28/05 8:24:24 AM

Sample Name: 512115-8 X2 SGA
 FID1 A. (81512271\005F0501.D)



Ret. Time	Signal	Compound Name	Response	Amount ug/mL
11.666	FID1 A,	Diesel	11697.739	961.882
11.766		Motor Oil	34846.996	2807.541
11.975		Pentacosane (Surr)	86.387	5.318 x2=106%

24.39g

D = 790 mg/kg

MO = 2300 mg/kg

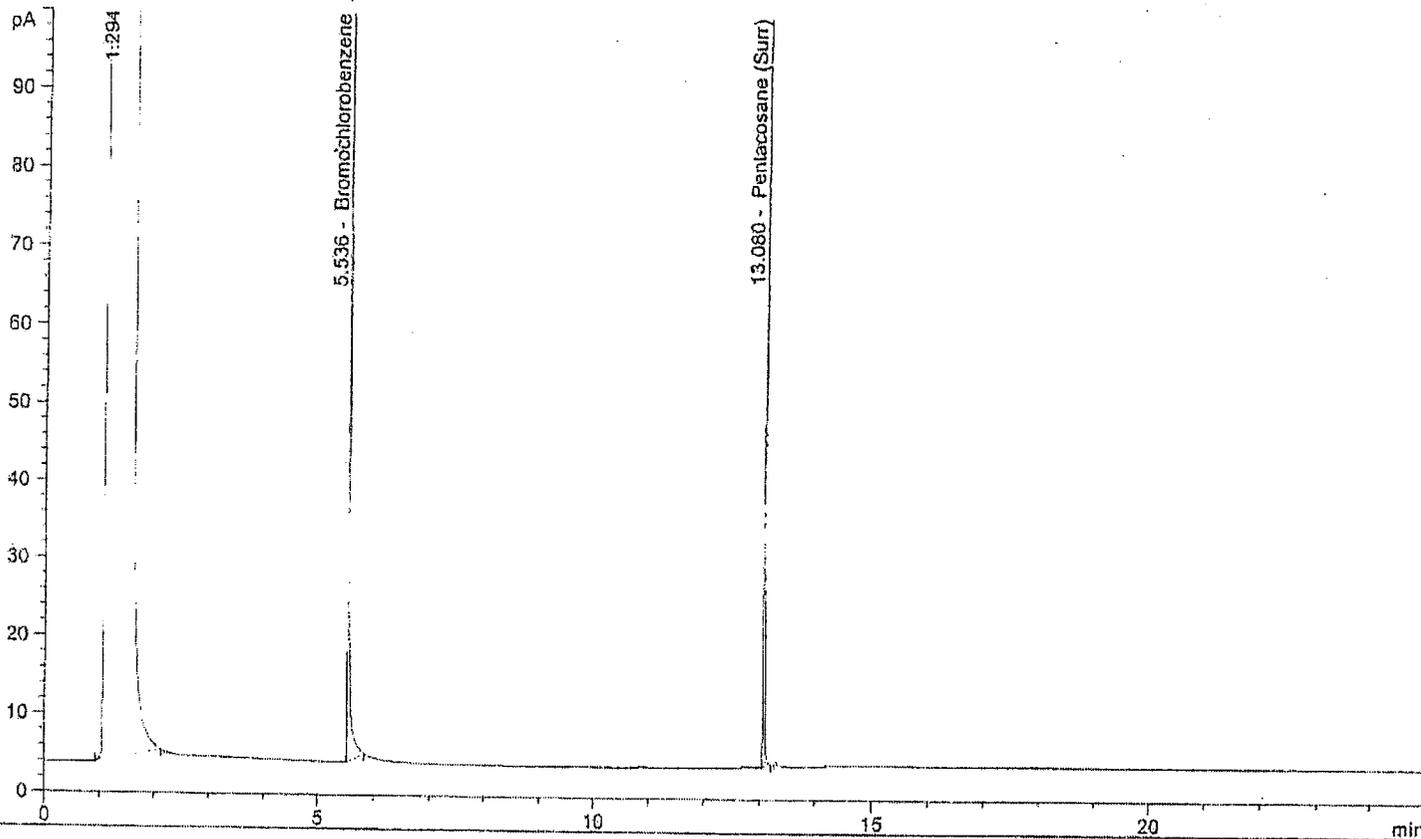
Light oil & lube oil

12-28-05 Dr

REVIEWED BY
 & DATE 12/29/05

Instrument #81 Data File: C:\HPCHEM\1\DATA\81512231\054B1901.D
 Operator: DLC
 Method: C:\HPCHEM\1\METHODS\BHCIDS.M
 Injection Date & Time: 12/23/05 7:37:11 PM 12/23/05 7:37:11 PM
 Report Creation: 12/27/05 9:01:05 AM

Sample Name: 512115-15 HCID
 FID2 B, (81512231\054B1901.D)



Ret. Time	Signal	Compound Name	Response	Amount ug/mL
5.536	FID2 B,	Bromochlorobenzene	336.996	53.109 106%
13.080		Pentacosane (Surr)	166.518	10.286 103%

G < 20 mg/kg

D < 50

M0 < 100

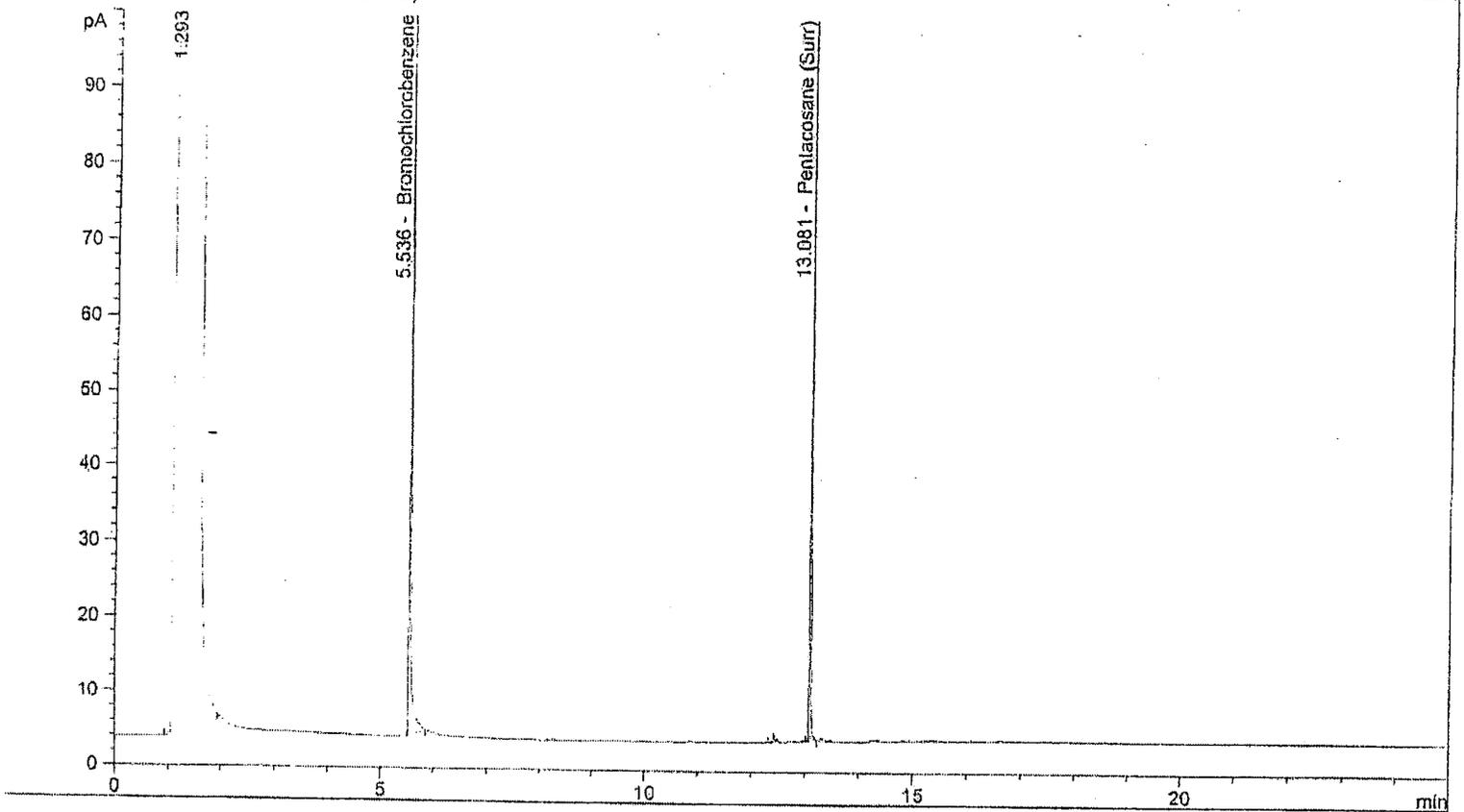
12-27-05 DC

REVIEWED BY
 & DATE 12-28-05

Instrument #81 Data File: C:\HPCHEM\1\DATA\81512231\055B2001.D
 Operator: DLC
 Method: C:\HPCHEM\1\METHODS\BHCIDS.M
 Injection Date & Time: 12/23/05 8:12:26 PM 12/23/05 8:12:26 PM
 Report Creation: 12/27/05 9:01:23 AM

Sample Name: 512115-18 HCID

FID2 B, (81512231\055B2001.D)



Ret. Time	Signal	Compound Name	Response	Amount ug/mL
5.536	FID2 B,	Bromochlorobenzene	332.857	52.457 105%
13.081		Pentacosane (Surr)	161.968	10.005 100%

G < 20 mg/kg

D < 50

MO < 100

12-27-05 DC

REVIEWED BY
 & DATE 12-29-05



CCI Analytical Laboratories, Inc.
 8620 Holly Drive
 Everett, WA 98203
 Phone (425) 356-2600
 (206) 292-9059 Seattle
 (425) 356-2626 Fax
 http://www.cclabs.com

Chain Of Custody/ Laboratory Analysis Request

CCI Job# (Laboratory Use Only)

Date _____ Page 2 Of 2

PROJECT INFORMATION					ANALYSIS REQUESTED										OTHER (Specify)								
PROJECT ID: <u>12000-001-00</u>					INVERTED-HClD	INVERTED-HClX	INVERTED-HClY	BTEX by EPA-8021	MTBE by EPA-8021	EPA-8260	Halogenated Volatiles by EPA-8260	Volatile Organic Compounds by EPA-8260	Ethylene aromatics (EDB) by EPA-8260	EPA-504	1,2-Dichloroethane (EDG) by EPA-8260	Semi-volatile Organic Compounds by EPA-8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM	PCB <input type="checkbox"/> Pesticides <input type="checkbox"/> by EPA 8061/8082	Metals-MSCA-5 <input type="checkbox"/> BCRA-8 <input type="checkbox"/> RHPOL <input type="checkbox"/> TAL <input type="checkbox"/>	Metals Other (Specify)	TCMP-Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Pest <input type="checkbox"/> Hams <input type="checkbox"/>	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
REPORT TO COMPANY: <u>COAST GUARDIAN</u>																							
PROJECT MANAGER: <u>L. B. ...</u>																							
ADDRESS: <u>REDMOND</u>																							
PHONE: <u>425 861-6000</u> FAX: _____																							
P.O. NUMBER: _____ E-MAIL: _____																							
INVOICE TO COMPANY: <u>STATE</u>																							
ATTENTION: _____																							
ADDRESS: <u>State</u>																							
SAMPLE I.D.	DATE	TIME	TYPE	LAB#																			
1. <u>A-1A-5</u>	<u>12/15/05</u>	<u>1300</u>	<u>S</u>	<u>11</u>																			
2. <u>A-1A-7</u>		<u>1310</u>	<u>S</u>	<u>12</u>																			
3. <u>A-1-6</u>		<u>1415</u>	<u>S</u>	<u>13</u>																			
4. <u>A-1-8</u>		<u>1420</u>	<u>S</u>	<u>14</u>																			
5. <u>A-2-10</u>		<u>1445</u>	<u>S</u>	<u>15</u> X																			
6. <u>A-2-12</u>		<u>1450</u>	<u>S</u>	<u>16</u>																			
7. <u>A-2-4</u>		<u>1510</u>	<u>S</u>	<u>17</u>																			
8. <u>A-2-6</u>		<u>1520</u>	<u>S</u>	<u>18</u> X																			
9. <u>A-2-8</u>		<u>1515</u>	<u>S</u>	<u>19</u>																			
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]
 Received By: [Signature] COCA 12/21/05 9:30
 2. Relinquished By: _____
 Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis
 10 15 20 25 30 35 40

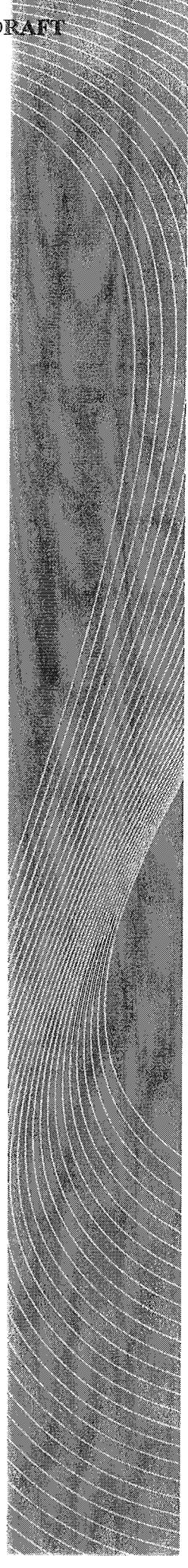
Fuels & Hydrocarbon Analysis
 10 15 20 25 30 35 40

OTHER:
 Specify: Standard TAT
HCO Water 3 day
OTU-TPH-Sky

* Turnaround request less than standard may incur Rush Charges



APPENDIX D
REPORT LIMITATIONS AND GUIDELINES FOR USE



APPENDIX D REPORT LIMITATION AND GUIDELINES FOR USE¹

This Appendix provides information to help you manage your risks with respect to the use of this report.

ENVIRONMENTAL SERVICES ARE PERFORMED FOR SPECIFIC PURPOSES, PERSONS AND PROJECTS

This report has been prepared for the exclusive use of Northshore School District, their authorized agents and regulatory agencies. This report is not intended for use by others, and the information contained herein is not applicable to other sites.

GeoEngineers structures our services to meet the specific needs of our clients. For example, an environmental site assessment study conducted for a property owner may not fulfill the needs of a prospective purchaser of the same property. Because each environmental study is unique, each environmental report is unique, prepared solely for the specific client and project site. No one except Northshore School District should rely on this environmental report without first conferring with GeoEngineers. This report should not be applied for any purpose or project except the one originally contemplated.

THIS ENVIRONMENTAL REPORT IS BASED ON A UNIQUE SET OF PROJECT-SPECIFIC FACTORS

This report has been prepared for the Northshore School District site in Bothell, Washington. GeoEngineers considered a number of unique, project-specific factors when establishing the scope of services for this project and report. Unless GeoEngineers specifically indicates otherwise, do not rely on this report if it was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

If important changes are made after the date of this report, GeoEngineers should be given the opportunity to review our interpretations and recommendations and provide written modifications or confirmation, as appropriate.

RELIANCE CONDITIONS FOR THIRD PARTIES

Our report was prepared 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. Within the limitations of scope, schedule and budget, our services have been executed in accordance with our Agreement with the Client and generally accepted environmental practices in this area at the time this report was prepared.

¹ Developed based on material provided by ASFE, Professional Firms Practicing in the GeoSciences, www.asfe.org.

ENVIRONMENTAL REGULATIONS ARE ALWAYS EVOLVING

Some substances may be present in the site vicinity in quantities or under conditions that may have led, or may lead, to contamination of the subject site, but are not included in current local, state or federal regulatory definitions of hazardous substances or do not otherwise present current potential liability. GeoEngineers cannot be responsible if the standards for appropriate inquiry, or regulatory definitions of hazardous substance, change or if more stringent environmental standards are developed in the future.

UNCERTAINTY MAY REMAIN EVEN AFTER THIS PHASE II ESA IS COMPLETED

No ESA can wholly eliminate uncertainty regarding the potential for contamination in connection with a property. Our interpretation of subsurface conditions in this study is based on field observations and chemical analytical data from widely-spaced sampling locations. It is always possible that contamination exists in areas that were not explored, sampled or analyzed.

SUBSURFACE CONDITIONS CAN CHANGE

This environmental report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time, by manmade events such as construction on or adjacent to the site, by new releases of hazardous substances, or by natural events such as floods, earthquakes, slope instability or groundwater fluctuations. Always contact GeoEngineers before applying this report to determine if it is still applicable.

SOIL AND GROUNDWATER END USE

The cleanup levels referenced in this report are site- and situation-specific. The cleanup levels may not be applicable for other sites or for other on-site uses of the affected media (soil and/or groundwater). Note that hazardous substances may be present in some of the site soil and/or groundwater at detectable concentrations that are less than the referenced cleanup levels. GeoEngineers should be contacted prior to the export of soil or groundwater from the subject site or reuse of the affected media on site to evaluate the potential for associated environmental liabilities. We cannot be responsible for potential environmental liability arising out of the transfer of soil and/or groundwater from the subject site to another location or its reuse on site in instances that we were not aware of or could not control.

MOST ENVIRONMENTAL FINDINGS ARE PROFESSIONAL OPINIONS

Our interpretations of subsurface conditions are based on field observations and chemical analytical data from widely spaced sampling locations at the site. Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. GeoEngineers reviewed field and laboratory data and then applied our professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ – sometimes significantly – from those indicated in this report. Our report, conclusions and interpretations should not be construed as a warranty of the subsurface conditions.

DO NOT REDRAW THE EXPLORATION LOGS

Environmental scientists prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in an environmental report should never be redrawn for inclusion in other design drawings. Only photographic or electronic reproduction is acceptable, but recognize that separating logs from the report can elevate risk.

READ THESE PROVISIONS CLOSELY

Some clients, design professionals and contractors may not recognize that the geoscience practices (geotechnical engineering, geology and environmental science) are far less exact than other engineering and natural science disciplines. This lack of understanding can create unrealistic expectations that could lead to disappointments, claims and disputes. GeoEngineers includes these explanatory "limitations" provisions in our reports to help reduce such risks. Please confer with GeoEngineers if you are unclear how these "Report Limitations and Guidelines for Use" apply to your project or site.

GEOTECHNICAL, GEOLOGIC AND GEOENVIRONMENTAL REPORTS SHOULD NOT BE INTERCHANGED

The equipment, techniques and personnel used to perform an environmental study differ significantly from those used to perform a geotechnical or geologic study and vice versa. For that reason, a geotechnical engineering or geologic report does not usually relate any environmental findings, conclusions or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. Similarly, environmental reports are not used to address geotechnical or geologic concerns regarding a specific project.

BIOLOGICAL POLLUTANTS

GeoEngineers' Scope of Work specifically excludes the investigation, detection, prevention or assessment of the presence of Biological Pollutants. Accordingly, this report does not include any interpretations, recommendations, findings, or conclusions regarding the detecting, assessing, preventing or abating of Biological Pollutants and no conclusions or inferences should be drawn regarding Biological Pollutants, as they may relate to this project. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria, and viruses, and/or any of their byproducts.

If Client desires these specialized services, they should be obtained from a consultant who offers services in this specialized field.