Report
Supplemental Remedial Investigation
Former American Linen Site
771 Valley Street
Seattle, Washington

July 8, 2002

For American Linen

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SUPPLEMENTAL REMEDIAL INVESTIGATION FORMER AMERICAN LINEN SITE 771 VALLEY STREET SEATTLE, WASHINGTON FOR AMERICAN LINEN

1.0 INTRODUCTION

This report presents the results of our subsurface explorations and ground water monitoring services completed at the former American Linen site. The subject site is located at 771 Valley Street in Seattle, Washington. The site consists of the entire block within Valley Street, 8th Avenue North, Roy Street and Dexter Avenue North. The site location in relation to surrounding physical features is shown in the Vicinity Map, Figure 1. The site layout is shown in the attached Figure 2.

2.0 BACKGROUND

2.1 SITE USE HISTORY

The site currently is owned by American Linen Supply. Currently Merlino Baking Company, AutoHound, Huletz Auto and other tenants occupy the site. A two and three-story structure occupies the southeast, southwest and northwest quadrants of the site. This mostly contiguous structure was constructed in three separate phases; in 1927, 1947 and 1967. The building was used as an industrial laundry facility from the 1920s through the 1980s. We understand that dry cleaning solvents were used in three dry cleaning machines during the early 1980s. Based on our conversations with David Maryatt, a valve on one of the machines is alleged to have leaked causing a release of perchloroethylene (PCE, a.k.a. tetrachloroethylene) that impacted subsurface soil and ground water beneath the site. A PCE-contaminated ground water plume including PCEs breakdown products [trichloroethene (TCE) and vinyl chloride (VC)] extends offsite to the southeast based on ground water testing results from monitoring wells installed by others.

Soil and ground water beneath portions of the site also contain residual petroleum hydrocarbons that appear to be less extensive than the solvent contamination. Sources of confirmed and/or suspected petroleum hydrocarbons at the site include: (1) a former service station located in the northwest corner of the site, (2) former gasoline USTs and dispensers located in the northeast corner of the site and (3) four diesel/fuel oil USTs located in the southwest quadrant of the site. We understand that the diesel/fuel oil USTs were used to power a boiler that was used at the site from the 1940s to the 1980s. We further understand that diesel/fuel oil remains in these USTs. The USTs and dispensers related to the fueling facilities at the northeast corner of the site have been removed. However, it is unknown whether a remedial action to remove contaminated soil was completed in this area. It is likely that the UST facilities and petroleum-contaminated soil, if any, in the northwest corner of the site were removed during the construction phase of the existing building.

2.2 PREVIOUS STUDIES

Two site characterization studies were previously completed at the site. (1) A study completed by Roux Associates in 1992 on behalf of Cintas Corporation (a potential property purchaser) and (2) A study, dated July 12, 2000, completed by ThermoRetec on behalf of Nexus Properties (a potential property purchaser). The Roux study consisted of installation of six ground water monitoring wells on and adjacent to the site and follow-up ground water testing by Roux Associates and by Dalton Olmstead & Fuglevand who represented American Linen at the time. The ThermoRetec study consisted of the completion of 10 direct-push soil borings with soil and ground water testing.

Key results from these studies are summarized below:

- The monitoring wells and borings for these studies were constructed in the upper, shallow, unconfined aquifer. Ground water was generally observed in the wells at elevations of 30 to 35 feet relative to mean sea level (These elevations are based on topographic contours represented on City of Seattle GIS department orthophotos. The contours are based on the City of Seattle datum). The ground water flow direction of the upper aquifer is to the southeast. It appears that none of the monitoring wells or direct-push borings were constructed in the lower, semi-confined aquifer. Boring and monitoring well locations are presented in figures presented in each of these previous reports.
- Petroleum hydrocarbons were identified in ground water samples obtained from MW-1 through MW-5 with the highest concentrations observed in MW-1 through MW-3.
- samples obtained from monitoring wells MW-1, MW-4 and MW-6 and direct-push borings B-2, B-6, B-7, B-9 and B-10. The highest PCE concentrations in ground water were observed in B-2, B-7, B-9 and B-10 [21,000 to 120,000 micrograms per liter (μg/l)]. The locations of these explorations were either in the vicinity of the former dry cleaning machines or downgradient to the southeast. The highest PCE concentration detected in ground water samples from the six monitoring wells was in MW-6 (690 μg/l). This well is located at the southeast corner of the site.
- PCE was detected at concentrations exceeding MTCA Method A cleanup levels in soil samples from the following direct-push borings: B-2 [11 feet below ground surface (bgs)], B-6 (18 feet bgs), B-8 (8 feet bgs), B-9 (4 and 8 feet bgs). Apparently, no soil samples were obtained during the 1992 Roux study. The ThermoRetec study speculated that at least one soil sample (B-9-4) had concentrations that may classify as a dangerous waste based on TCLP testing criteria.

Two other (off-site) studies that we reviewed assisted us in establishing the scope of services for the supplemental remedial investigation for the site. These reports included a geotechnical report by HWA Geosciences Inc dated November 20, 1998. This report provided valuable geologic and hydrogeologic information along Roy Street (south of the site). The study was completed as part of the Denny Way/Lake Union CSO Pipeline project. This report documented the presence of the second, lower, semi-confined aquifer beneath the site area at depths of 25 to

35 feet bgs. Based on GeoEngineers' current study it appears that 15 feet of lower permeability silt and silty sand could separate the two aquifers. However, it is also possible that the aquifers may interconnect beneath portions of the site. The second report was a Phase II ESA dated September 1998 by Black & Veatch for the Denny Way/Lake Union CSO Pipeline project. This report included the installation of ground water monitoring wells south and southeast of the subject site. Solvents were detected in ground water samples obtained from several of the monitoring wells located south and southeast of the subject site based on this study. For example concentrations of PCE ranging from 11,000 down to less than 2 micrograms per liter and concentrations of VC ranging from 380 down to less than 2 micrograms per liter were observed in wells installed within Roy Street between 8th and 9th Avenues North.

3.0 PURPOSE

The purpose of the supplemental remedial investigation is to address data gaps and further evaluate site conditions at two locations at the site: (1) immediately downgradient of the former dry cleaning machines, and (2) about 125 feet downgradient of the dry cleaning machines. The first downgradient location was selected to identify the depth of contaminated soil and to evaluate for the potential presence of DNAPL. The second downgradient location is southeast of direct-push boring B-9 where the highest concentrations of solvent-contaminated soil and ground water were identified. The data gaps to be evaluated as part of this study include: (1) the vertical extent of solvent contaminated soil, (2) an evaluation of ground water quality in the deep aquifer beneath the site, (3) the potential for excavated soil to be classified as dangerous waste (DW), and (4) the potential presence of DNAPL. To evaluate the potential for DNAPL in the shallow and/or deep aquifers, the strategy selected was to install both shallow and deep wells at the location where the highest evidence of solvent contamination was identified based on field screening. Because the focus of this phase of work was to establish "order of magnitude" remedial action cost estimates, this phase of services did not focus on: (1) the potential for petroleum hydrocarbon contamination, (2) establishing the lateral extent of solvent-contaminated soil, or (3) re-evaluating ground water concentrations in existing monitoring wells. The following table describes the purpose, strategy and testing program completed during this phase of work. Additional details are described in Section 4.0.

Boring	Environmental	I	Media	Chemical of			
No.	Concern	Extent	DW	DNAPL	To Be Tested	Concern	
MW-1 & MW-2 (shallow & deep)		Evaluate vertical extended and cleaning machines. sample identified dangerous waste podeep wells. Measur DNAPL, if present.	owngradient of Test most by TCLP. otential. Install	f former dry contaminated Characterize shallow and	-	PCE, TCE, VC	

Boring	Environmental	I	Purpose ¹		Media	Chemical of	
No.	Concern	Extent DW DNAPL		DNAPL	To Be Tested	Concern	
SB-4 & MW-3 (1 boring & 1 deep well)		Evaluate potential contaminated soil d cleaning machines a concentration in vic solvent contaminatio TCLP. Characterize Install deep well. Me DNAPL, if present.	owngradient of and drain. Cor sinity of B-9. In is detected, to dangerous was	offirm solvent If significant est sample by ste potential.		PCE, TCE, VC	

4.0 SCOPE OF SERVICES

Our scope of services for the supplemental remedial investigation consisted of the following:

- 1. Prepare a site safety plan for use by GeoEngineers field representatives.
- 2. Arrange for a utility check of the site using the one-call service and a subcontracted utility locating service.
- 3. Monitor the drilling of four exploratory borings at two selected locations at the site using hollow-stem auger drilling equipment. Borings were drilled to depths between 18 and 38 feet bgs for the purpose of installing shallow and deep monitoring wells and for obtaining soil samples at depths greater than 18 feet bgs. These depths were selected because: 1) PCE was detected in soil at 18 feet bgs in direct-push boring B-6; 2) a deeper aquifer is present at approximately 30 feet bgs based on nearby off-site explorations; and 3) a semi-permeable sand layer underlain by less permeable glacial till (possible aquitard) is present between about 30 and 40 feet bgs.
- 4. Obtain soil samples at approximately 2.5-foot-depth intervals from the exploratory borings for field screening of volatile organic compounds and petroleum hydrocarbons.
- 5. Submit selected soil samples from each boring for chemical analyses of Environmental Protection Agency (EPA) Method 8260B. Submitted the most contaminated soil sample from two of the borings for Toxicity Characteristic Leaching Procedure (TCLP) using EPA Method 8260B.
- 6. Construct monitoring wells in three of the borings using 1-1/4-inch diameter PVC casing. Two wells were screened within the lower aquifer at depths between 25 and 35 feet bgs. A third well was screened within the shallow aquifer at depths between 8 and 18 feet bgs.
- 7. Obtain ground water samples from GMW-1 through GMW-3 for the chemical analyses of EPA Method 8260B.
- 8. Measure the organic vapor concentration in each monitoring well casing using a Microtip™ Photoionization detector.
- 9. Evaluate the field and laboratory data with regard to MTCA cleanup levels.

applicable for this site if cleanup levels other than Method A are utilized and/or residual concentrations of contaminants in soil and/or ground water remain beneath the site. The type of site development/use planned at this site may also influence the need for vapor testing and/or a vapor risk analysis.

- Ecological Evaluation An ecological exclusion evaluation is presented in this study.
- Points of Compliance Standard points of compliance will be referenced. Standard points of compliance for each media are defined as throughout the site. It is possible that conditional points of compliance could be negotiated with Ecology for this site for certain media. However, more information will be required related to the off-site extent of contaminants, future site use and relationship of contaminated media (soil, ground water, surface water and air) before conditional points of compliance can be considered.

6.0 SUBSURFACE EXPLORATION RESULTS

6.1 GENERAL

GeoEngineers monitored the drilling and completion of monitoring wells MW-1 through MW-3 and SB-4 between July 18 and July 20, 2001. Monitoring wells MW-1 and MW-2 are located within the northwest quadrant of the building (Huletz Auto Electric) and MW-3 and SB-4 are located within the southeast quadrant (parking garage) of the on-site building. The approximate locations of the monitoring wells and soil boring are shown in Figure 2.

A representative of GeoEngineers observed the drilling, logged the soil encountered and obtained representative soil samples for chemical analytical testing from one boring at each location; Huletz Auto (MW-1) and parking garage (SB-4). These two borings were drilled in areas located downgradient (southeast) of the former dry cleaning machines (alleged source of PCE contamination) and previously documented PCE contaminated soil and ground water. The purpose of these borings was to evaluate vertical and lateral extent of contamination and to supplement results from previous site characterization studies. Additionally, the purpose of these borings was to identify the depth and thickness of the lower, semi-confined aquifer and to install ground water monitoring wells with well screen within the lower aquifer. Because there were difficulties installing a well in boring SB-4, this boring was abandoned and a subsequent boring was drilled and well (MW-3) installed at this location. Both MW-1 and MW-3 were installed to depths down to about 35 feet bgs, the approximate base of the lower aquifer. Finally, a shallow well (MW-2) was installed into the upper, unconfined aquifer in the area immediately downgradient (southeast) of the former dry cleaning machines adjacent to MW-1. This area was selected for installation of the shallow well because soil exhibited the highest evidence of contamination based on field screening at this location. The purpose of this well is to evaluate ground water conditions and the potential for DNAPL in the shallow aquifer in the immediate vicinity of the alleged release of PCE.

Boring logs and monitoring well construction records for MW-1, MW-2, MW-3 and SB-4 are presented in Appendix A. Chemical analytical data for the soil samples are summarized in

Table 1. Chemical analytical data and our review of laboratory quality control (QC) documentation are included in Appendix B.

6.2 SOIL

The soil borings encountered approximately 6 feet of fill beneath 5 inches of surface concrete. The fill is comprised of medium dense silty sand and varying amounts of gravel, bricks and glass. Native soil beneath the fill can be divided into upper and lower zones separated by a very stiff to hard silt located between about 17 and 20 feet bgs. This silt horizon was present in both borings (MW-1 and SB-4) and may separate an upper, unconfined aquifer from a lower, semi-confined aquifer. Soil above the silt horizon consists of medium dense silty fine sand and silty gravel layers. Soil below the silt horizon consists of interlayed very dense to hard silty fine sand and silt layers. A lower hard silt layer was present in boring MW-1 at a depth of 35 to 38 feet bgs and in boring SB-4 at a depth of 36 to 38 feet bgs. This silt layer may represent a lower boundary of a lower aquifer beneath the site.

6.2.1 Volatile Organic Compounds (VOCs)

Field screening results indicated evidence of volatile organic compounds at various depths and concentrations throughout each of the borings (see Table 1 and Boring Logs MW-1 and SB-4).

PCE was detected in soil at concentrations exceeding the MTCA Method A cleanup level [0.05 milligrams per kilograms (mg/kg)] in all the soil samples that we submitted from both borings (MW-1 and SB-4). The soil samples were submitted from depths between 8 and 38 feet bgs. The highest concentrations observed in each boring based on chemical analytical results are as follows:

- Soil in MW-1 at a depth of 20 feet bgs had a detected concentration of 237 mg/kg PCE.
- Soil in SB-4 at a depth of 17.5 feet bgs had a detected concentration of 13.2 mg/kg PCE.

It appears that the highest soil concentrations are present in soil that becomes very dense/hard; near the base of the upper, unconfined aquifer. Elevated concentrations at this depth are consistent with the migration characteristics of solvents, which are denser than water. Solvents tend to "sink" and concentrate in the lower portions of aquifers. Additionally solvents tend to accumulate in erosional lows in soil that has a lower permeability. TCE, a breakdown component of PCE, also was detected in many of the soil samples at concentrations exceeding MTCA cleanup levels. Several nonchlorinated VOCs were detected in the soil samples obtained during this study. However, the concentrations either did not exceed MTCA cleanup levels or were orders of magnitude less than the primary contaminants of concern (PCE, TCE and VC) at this site. Chemical analytical results are presented in Table 1 and in the analytical data sheets presented in Appendix B.

¹ Note that this interpretation is based on two borings generally located in a northwest to southeast trend. To more adequately evaluate the presence of a multiple aquifer system beneath this site would require additional explorations.

6.2.2 Dangerous Waste Designation

The two soil samples (MW1-8-20 and SB4-7-17.5) with the greatest PCE concentrations also were submitted for analysis of Toxicity Characteristic Leaching Procedure (TCLP) by EPA Method 1311/8260B, specifically quantified for PCE, TCE and VC. PCE was detected at 99.3 milligrams per liter (mg/l) and 0.182 mg/l in soil samples MW-1-8-20 and SB4-7-17.5, respectively. Based on these results, soil represented by sample MW-1-8-20 (which resulted in a TCLP concentration of 99.3 mg/l), would designate as a DW per the criteria designation in the Washington State Dangerous Waste regulations [Washington Administrative Code (WAC) 173-303] because it exceeds 0.7 mg/l. Please note that this characterization only is applicable if the soil is excavated. The TCLP result for sample SB4-7-17.5 did not exceed the DW criteria. The result of this testing indicates that soil samples with PCE concentrations between 13.2 and 237 mg/kg likely would fail the TCLP test and result in classification as a DW, if excavated.

6.3 GROUND WATER

GeoEngineers measured depths to ground water in MW-1 through MW-3 on July 24 and August 22, 2001. Ground water was observed at approximately 11 to 13 ft bgs in MW-1 and MW-3 (the two wells screened within the lower aquifer) and approximately 10 ft bgs in MW-2 (the well screened within the upper aquifer). Ground water samples were obtained from these wells on July 24, 2001. Significant concentrations of PCE, TCE and VC were detected in ground water samples obtained from monitoring wells MW-1, MW-2 and MW-3. The highest concentration (176,000 µg/l) of PCE was detected in ground water from MW-2. MW-2 is located immediately downgradient from the former dry cleaning machines. MW-2 is screened within the upper aquifer. PCE, TCE and VC concentrations decreased in samples obtained from the lower aquifer. Additionally, solvent concentrations decreased in the lower aquifer downgradient (southeast) of MW-1 and MW-2. Although solvent concentrations that could exceed the solubility limit were observed, DNAPL was not detected during our field measurements.

Several nonchlorinated VOCs were detected in the ground water samples obtained during this study. However, the concentrations either did not exceed MTCA cleanup levels or were orders of magnitude less than the primary contaminants of concern (PCE, TCE and VC) at this site. The nonchlorinated VOCs are generally similar to those detected in previous studies. The ground water chemical analytical data are summarized in Table 2. Ground water sampling procedures are described in Appendix A. Chemical analytical data and our review of laboratory QC documentation are included in Appendix B.

7.0 TERRESTRIAL ECOLOGICAL EVALUATION

Based on our review of the terrestrial ecological evaluation exclusions section of the MTCA regulation dated February 12, 2001, it is our opinion that this site is excluded from a terrestrial ecological evaluation. The entire site currently is covered by buildings and/or a paved parking lot therefore, "Exclusion B" of WAC 173-340-7491 is applicable for this site. This exclusion indicates that a site may be excluded from further terrestrial ecological evaluation "if all soil

contaminated with hazardous substances is, or will be, covered by buildings, paved roads, pavement or other physical barriers that will prevent plants or wildlife from being exposed to the soil contamination."

8.0 CONCLUSIONS

This study is intended to supplement prior studies of the subject site and has provided new information regarding the: (1) vertical extent of soil contamination, (2) identification and depth of aquifers beneath the site, (3) presence of DNAPL in the aquifers and (4) potential for DW. Based on the results of this study and prior studies in the site vicinity, it is our opinion that:

- The depth of PCE contaminated soil extends beneath the southern half of the subject site. PCE concentrations exceeding the MTCA Method A cleanup level were detected to the total depth of exploration (approximately 38 feet bgs) in MW-1 and SB-4. A distance of approximately 110 feet separates these boring locations.
- It is unlikely that PCE concentrations of regulatory significance in soil extend beyond 50 feet bgs because (1) concentrations show a declining trend with depth and (2) soil becomes very dense and silty at deeper depths (based on previous studies). The soil samples obtained from a depth of 37.5 feet in MW-1 and SB-4 contained much lower PCE concentrations than the shallower samples tested and were relatively close to the MTCA Method A cleanup level (see results presented in Table 1).
- The two aquifers identified in the site vicinity by other studies also may be present beneath the site. The upper aquifer (water levels approximately 10 feet bgs) appears to be unconfined. The lower aquifer appears to be semi-confined. Ground water in lower aquifer was first encountered during drilling at depths of approximately 25 and 33 feet bgs. Ground water levels in the deep wells (screened within the lower aquifer) were measured at approximately 11 to 13 feet bgs during subsequent ground water monitoring. This may indicate connection between the upper and lower aquifers beneath a portion of the site. Additional exploration will be necessary to confirm the presence of a multiple aquifer system beneath other portions of the site.
- The presence of high concentrations of PCE in both aquifers indicates that they likely are hydraulically connected at some location beneath the site.
- The direction of ground water flow beneath the site is toward the east-southeast (based primarily on prior studies).
- Much of the PCE-contaminated soil from near the ground surface to 35 feet bgs in the vicinity of the former dry cleaning machines likely would classify as a dangerous waste (DW) based on the toxicity characteristic (fails TCLP tests), if excavated. It also is possible that most of the soil and ground water contaminated with PCE at the site may be a "listed" DW. Certain materials can be defined as "listed" DW based solely on how the contamination originated and not it's current concentration. The applicability of DW listings can be a subjective process and often requires complex negotiations with regulators.

Although DNAPL was not detected in our wells, the concentrations of PCE detected in the ground water samples from MW-1, MW-2 and MW-3 are in the range that could indicate that DNAPL is present.

We understand that the site is being considered for sale and redevelopment. The PCE-related contamination and selected remedial actions will be large factors in both the transfer and redevelopment of this property. Based on the results of our studies to date and our experience, it is our opinion that:

- Once Ecology has reviewed the current site data, they likely will give this site a high priority ranking and take an active role in enforcing applicable MTCA requirements.
- Further study and possible remedial action will be necessary to specifically address the potential impacts of the ground water contaminant plume on downgradient receptors such as Lake Union.
- Remedial excavation of the contaminated soil will be logistically difficult and expensive, relative to other remedial options, because:
 - 1) the permit process is likely to be onerous
 - 2) the contamination is deep
 - 3) contaminant concentrations are high and widespread
 - 4) ground water is affected and would need to be controlled during excavation
 - 5) hazardous vapors would need to be controlled during excavation so that workers and nearby sites are not exposed, and
 - 6) a significant portion of the soil and ground water handled during construction likely will designate as DW; increasing costs and limiting disposal options.
- A formal remedial investigation/feasibility study (RI/FS) will need to be completed for the site to satisfy MTCA and select a remedy. This RI/FS likely will require additional exploration of soil and ground water conditions both on- and off-site to further assess issues such as the site's impact on downgradient receptors and the effectiveness of in-situ remedial systems.
- In-situ remedial systems and/or institutional controls (such as a deed restriction) will be necessary to mitigate the effects of remaining contaminated soil, volatile organic vapors and/or the ground water contaminant plume even if some level of remedial excavation (with off-site soil disposal/treatment) is completed.

9.0 LIMITATIONS

This report has been prepared for use by American Linen. GeoEngineers has performed this study of the former American Linen site at 771 Valley Street in general accordance with the scope and limitations of our fee estimate dated May 4, 2001.

Within the limitations of scope, schedule and budget, our services have been executed in accordance with the generally accepted environmental science practices this area at the time this report was prepared. It is always possible that contamination is present in areas that were not

explored as part of this study. No warranty or other conditions, express or implied, should be understood.

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



We appreciate the opportunity to be of continued service to American Linen. Please contact -- us if you have questions regarding this report.

Yours very truly,

GeoEngineers, Inc.

David A. Cook
Associate

Sold Cock For KRF
Kurt R. Fraese

Principal

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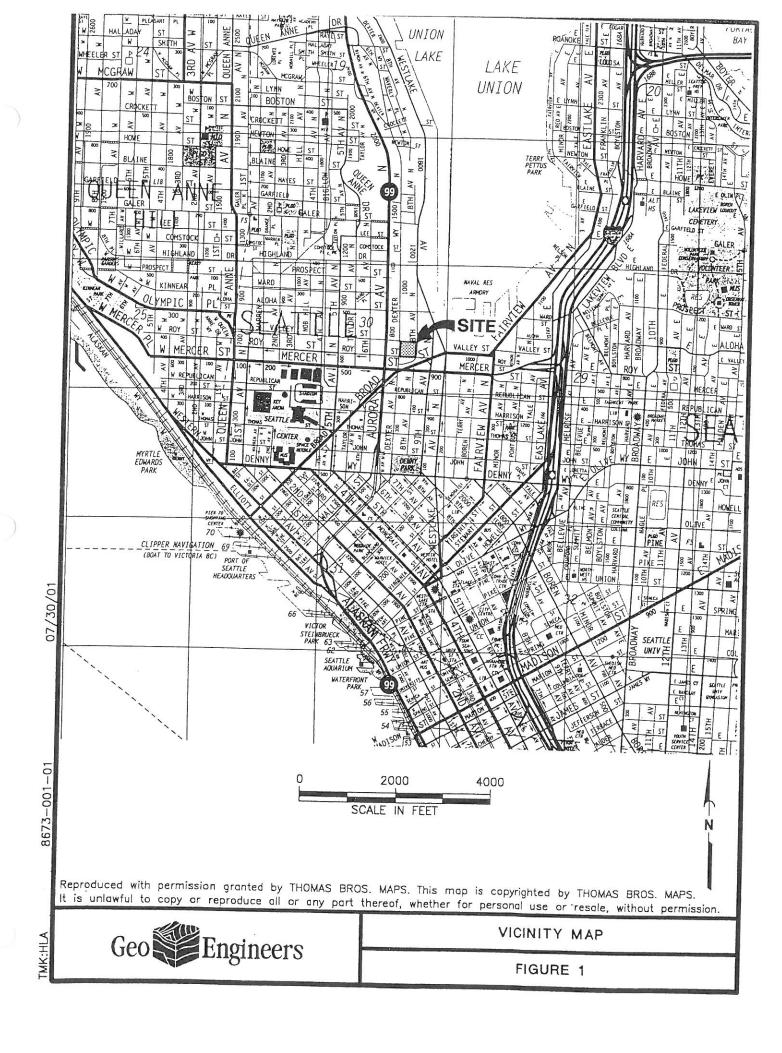
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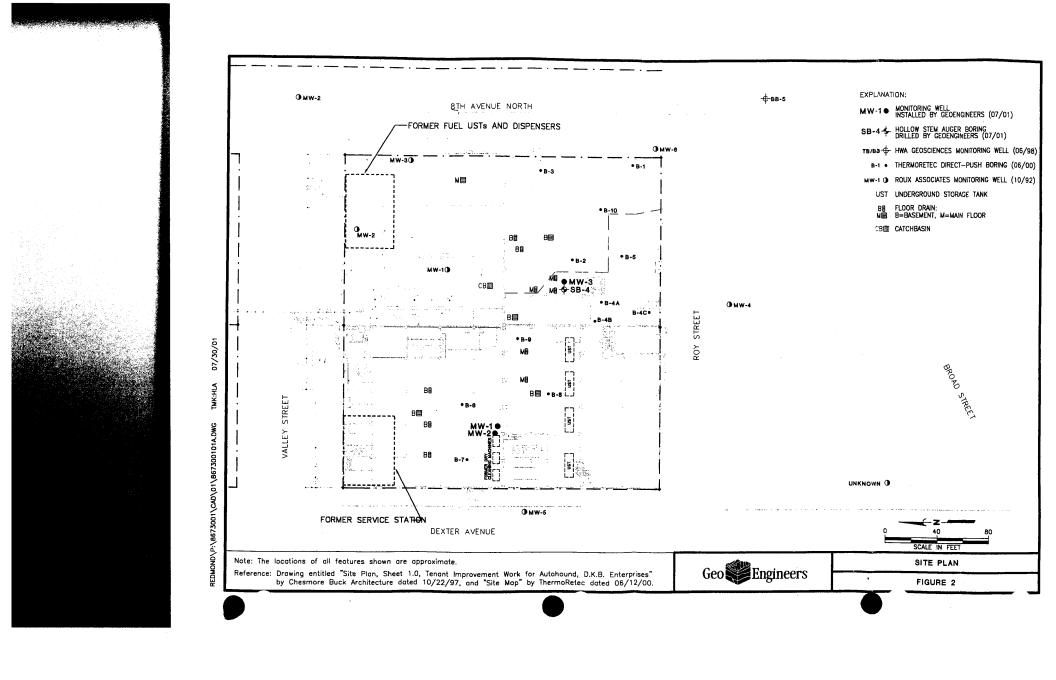
5.0 REGULATORY FRAMEWORK

The Washington State Model Toxics Control Act (MTCA) cleanup regulations, originally promulgated in 1991, were amended on February 12, 2001. These regulations establish cleanup standards for the cleanup of hazardous waste sites. The purpose of the regulation is to ensure that cleanup of hazardous substances is protective of human health and the environment. Cleanup requirements are established using a two-step process. Step 1 involves establishing cleanup standards such as selection of cleanup levels and points of compliance and/or conditional points of compliance. Step 2 involves selection of an appropriate cleanup action for the site. This study provides supplemental subsurface information that can be used to begin to establish cleanup standards for the site. However, in our opinion additional remedial investigation information likely will be required before a final decision can be made regarding selection of cleanup levels and/or points of compliance for this site. Additional information will be required before an appropriate cleanup action can be selected for this site. This may include the identification of future site uses.

Based on our understanding of the current site conditions and amended MTCA cleanup regulations, the following preliminary regulatory framework will be utilized throughout this report:

- Soil Cleanup Levels Method A cleanup levels will be referenced. Method A cleanup levels are commonly the most stringent, represent common contaminants and are based on protection of human health and ground water. Achieving Method A cleanup levels after a cleanup action would allow non-restricted use of the property. As an alternative, Method B cleanup levels could be used. However, Method B cleanup levels are based on deriving a cleanup level by utilizing risk analysis equations. These equations must be utilized to calculate cleanup levels for compounds not present in the Method A "look-up" tables. For example, a Method B site specific cleanup level may need to be calculated for vinyl chloride if it is determined that it will drive the cleanup action process (vinyl chloride is not present in the Method A table). Finally, the Method B cleanup calculation is based on protection of human health. Therefore, a risk assessment may need to be conducted to evaluate whether the calculated Method B cleanup level is also protective of terrestrial and aquatic ecological receptors and is protective of compounds leaching to ground water. As discussed above, Method A (non-restricted use) cleanup levels will be referenced in this report. Method A cleanup levels were selected because future site use is not known at this time and relatively common contaminants are present at the site. Future use of cleanup levels for soil to Methods A and/or B. Selection of cleanup levels (Methods A, B or combination of both) for a final remedy for this site may include but may not be limited to factors such as: risk of exposure related to future site use, type of cleanup method selected, regulatory acceptability and cost.
- Ground Water Cleanup Levels Method A cleanup levels will be referenced. (see soil cleanup level discussion for Method B ground water cleanup levels).
- Vapor Cleanup Levels Since no organic vapor analysis has been conducted at the site, vapor cleanup levels will not be addressed in this report. Future risk from vapors may be





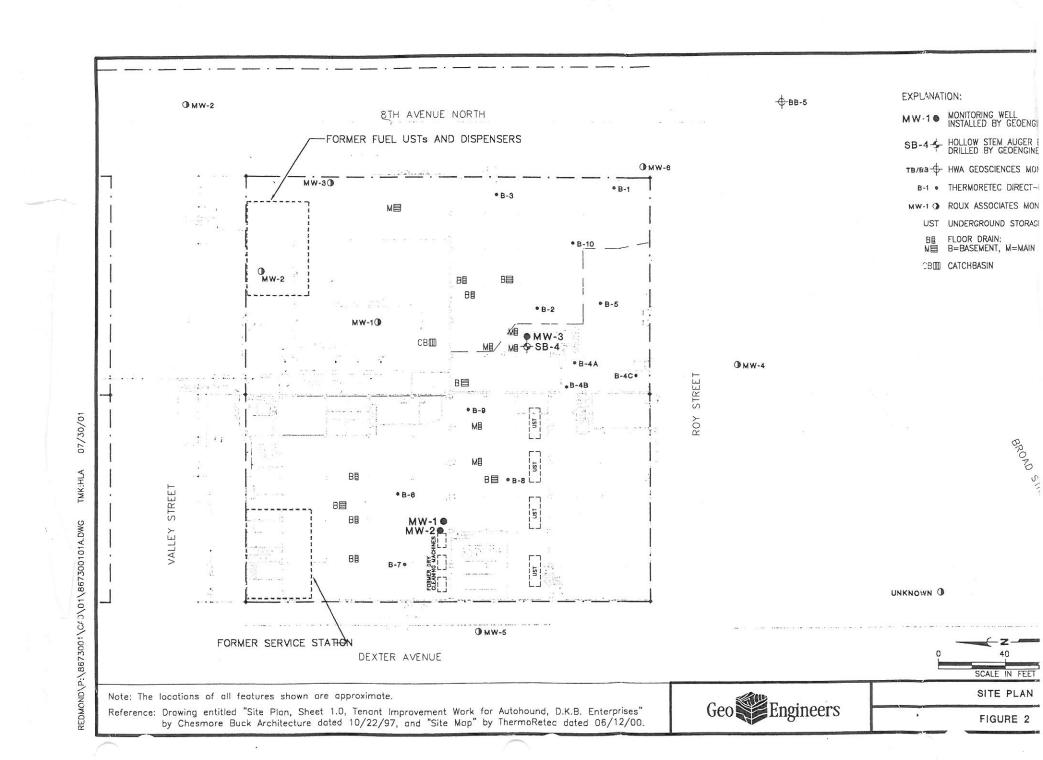


TABLE 1 SOIL FIELD SCREENING AND CHEMICAL ANALYTICAL DATA MONITORING WELL AND SOIL BORINGS

FORMER AMERICAN LINEN SITE SEATTLE, WASHINGTON

ĺ			Field Screening	ig Results ¹	Chlorinated Solvents				
Sample Number ^{2,3}	Date	Sample Depth	Headspace Vapors			(EPA Method 8260 (mg/kg)			
	Sampled	(feet bgs)	(ppm)	Sheen	PCE	TCE VC			
MW1-3-8	07/20/01	8.0	3,673	SS	19.9	<0.0230	<0.0130		
MW1-8-20⁴	07/20/01	20.0	694	SS	237	0.0622	<0.0130		
MW1-11-27.5	07/20/01	27.5	44.5	NS	16.4	0.0706			
MW1-13-32.5	07/20/01	32.5	50.6	NS	33.1		<0.0130		
MW1-15-37.5	07/20/01	37.5	0.6	NS	0.678	0.394	<0.0260		
SB4-4-10	07/18/01	10.0	0	NS	0.528		<0.0130		
SB4-7-17.5 ⁴	07/18/01	17.5	104	NS		<0.0230	<0.0130		
SB4-13-32.5	07/18/01	32.5	46.2		13.2	<0.0230	<0.0130		
SB4-15-37.5	07/18/01	37.5		NS	5.70	0.175	<0.0130		
			6.2	NS	0.581	<0.0230	< 0.0130		
TCA Wethod A	Soil Cleanup Lev	el			0.05	0.03	NE		

Notes:

- 1,2,4-trimethylbenzene=0.169 mg/kg); MW1-11-27.5 (MC=0.0612 mg/kg, 1,2,4-trimethylbenzene=0.0576 mg/kb); MW1-13-32.5 (MC=0.165 mg/kg,
- 1,2,4-trimethylbenzene= 0.305 mg/kg); MW1-15-37.5 (Chloroform=0.0558 mg/kg, MC=0.0484 mg/kg, n-Propylbenzene=0.0300 mg/kg,
- 1,2,4-trimethylbenzene=0.174 mg/kg, 1,3,5-trimethylbenzene=0.0452 mg/kg); SB4-4-10 (MC=0.0793 mg/kg); SB4-7-17.5 (MC=0.0818 mg/kg,
- 1,2,4-trimethylbenzene=0.110 mg/kg); SB4-13-32.5 (MC=0.253 mg/kg, 1,2,4-trimethlybenzene=0.123 mg/kg) and SB4-15-37.5 (MC=0.0842 mg/kg, 1,2,4-trimethylbenzene=0.0611).

PCE = perchloroethylene (aka tetrachloroethene), TCE = trichloroethylene, VC = vinyl chloride ppm = parts per million

mg/kg = milligrams per kilogram

NE = not established

MTCA = Model Toxics Control Act

TCLP = Toxicity Characteristic Leaching Procedure

Chemical analysis performed by North Creek Analytical of Bothell, Washington. Analytical reports in Appendix B.

¹See Appendix A for a description of field screening methods. NS = no sheen, SS = slight sheen.

²MW1-3-8 means monitoring well number 1, third soil sample, obtained at 8 feet below ground surface.

³Additional analytes were detected for MW1-3-8 (acetone=0.214 mg/kg, MC=0.0634 mg/kg); MW1-8-20 (MC=0671 mg/kg, Naphthalene=0.0661 mg/kg,

Sample also analyzed for TCLP by EPA Method 1311/8260B with regard to PCE, TCE and VC. PCE was detected at 99.3 mg/l in soil sample MW1-8-20 and at 0.182 mg/l in soil sample SB4-7-17.5.

TABLE 2 GROUND WATER CHEMICAL ANALYTICAL DATA¹ VOLATILE ORGANIC COMPOUNDS

FORMER AMERICAN LINEN SITE SEATTLE, WASHINGTON

				Volatile Organic Compounds ^{4, 5} (μg/l)										
Monitoring Well ²	Date Sampled	Headspace Vapors ^{3 (ppm)}	DNAPL Thickness (feet)	Depth to Water	Benzene	1,1-Dichloroethane (EDC)	Ethylbenzene	Naphthalene	Tetrachloroethene (PCE)	Toluene	Trichloroethene (TCE)	Vinyl Chloride (VC)	m,p-Xylene	o-Xylene
MW-1	7/24/2001 <1	<1	Not observed 10.54	10.54	0.449	1.17	0.798	0.776	85,500	17.6 to <100 E	1 120			-
MW-2	7/24/2001 <1	<1	Not observed 9.93	9.93	0.375		2.01	3.02			1,130		2.87	1
MW-3	7/24/2001 9.1	9.1	Not observed 13.05	13.05	0.524	0.933	0.459			48.3 to <2,000 E 6.93 to <2,000 E			7.07	
MTCA Method	A cleanup levels				5	5	700	160	5	1,000	5 5	0.2	1.09	000

Notes:

μg/I = microgram per liter

E = estimated value

Shading indicates a concentration greater than the MTCA Method A cleanup level.

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¹Chemical analyses conducted by North Creek Analytical of Bothell, Washington. The laboratory report is provided in Appendix B.

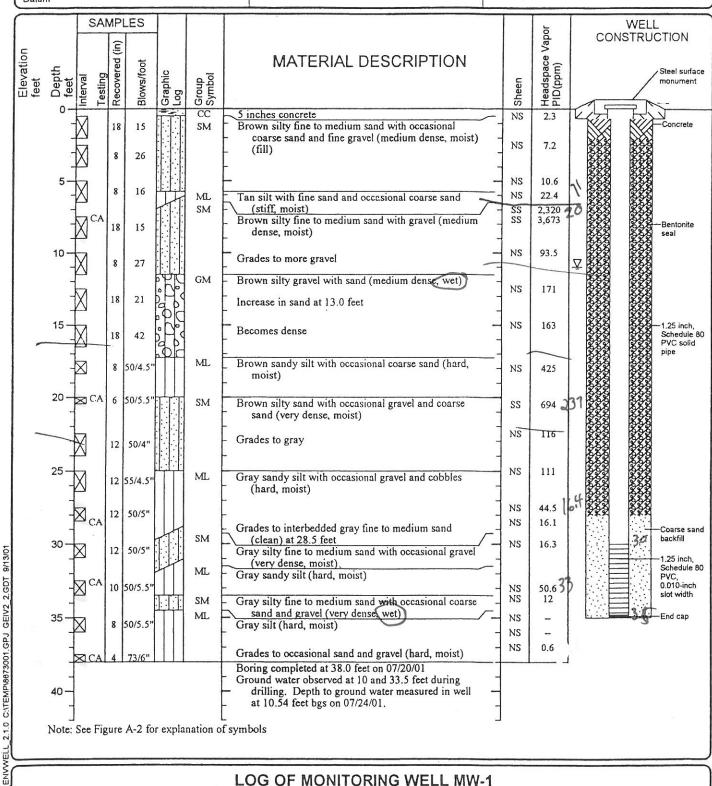
²Approximate monitoring well locations is shown in Figure 2.

³ Measured using a Photovac Microtiptm Photionization detector.

Analyzed by EPA Method 8260B. Because of the high concentrations of PCE, TCE and VC in these samples each sample was rerun by NCA at different dilution levels in order to adequately quantify these compounds. Additionally, only those analytes that were detected and have MTCA Method A cleanup levels are presented in this table. Refer to the laboratory report in Appendix B for a complete list of method analytes and detection limits.

⁵Additional analytes that were detected are presented in the laboratory data sheets in Appendix B. The contaminants of concern based on known sources of contamination are presented in this table.

Drilled	01120101	Ву	LIVIT	By	******
Drilling Contractor	Davies Drilling	Drilling Method	Hollow Stem Auger	Sampling Methods	SPT
Total Boring Depth (ft)	38	Hammer Data	140 (lb) hammer/ 30 (in) drop	Drilling Equipment	Limited Access Rig
Well Depth (ft)	36	Top of Well Elevation (fl		Ground Water Level (ft. bgs)	10, 33.5
System/ Datum	N/A	Easting	Not Determined	Northing	Not Determined



LOG OF MONITORING WELL MW-1



GE

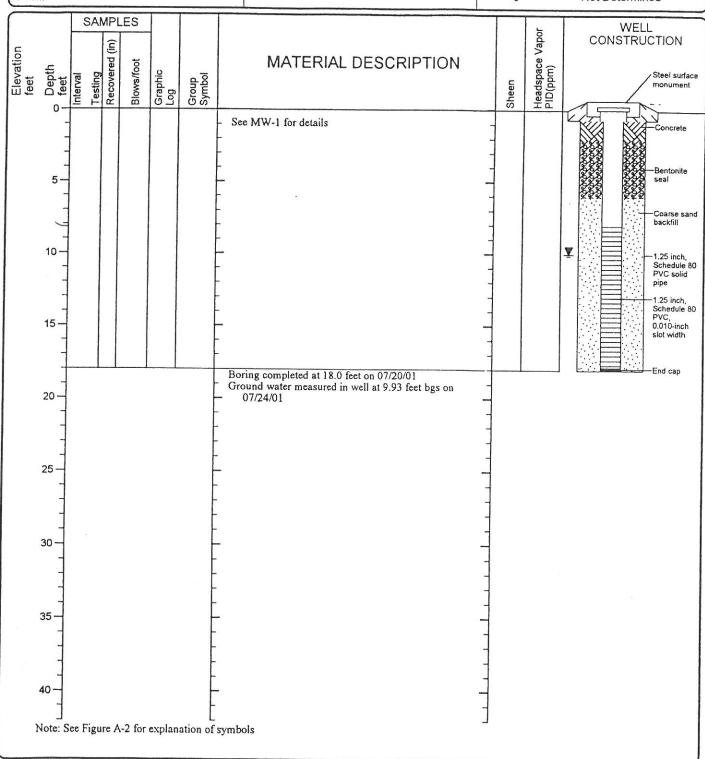
3673-001-01

Project: American Linen Project Location: Seattle, Washington

Project Number: 8673-001-01

Figure: A-3 Sheet 1 of 1

Drilled	07720701	By	IMK	Ву	IMK
Drilling Contractor	Davies Drilling	Drilling Method	Hollow Stem Auger	Sampling Methods	SPT
Total Boring Depth (ft)	18	Hammer Data	140 (lb) hammer/ 30 (in) drop	Drilling Equipment	Limited Access Rig
Well Depth (ft)	18	Top of Well Elevation (ft)		Ground Water Level (ft. bgs)	10
System/ Datum	N/A	Easting	Not Determined	Northing	Not Determined



LOG OF MONITORING WELL MW-2



2.1.0 C:TEMP\8673001.GPJ GEIV2 2.GDT 9/13/01

ENVWELL

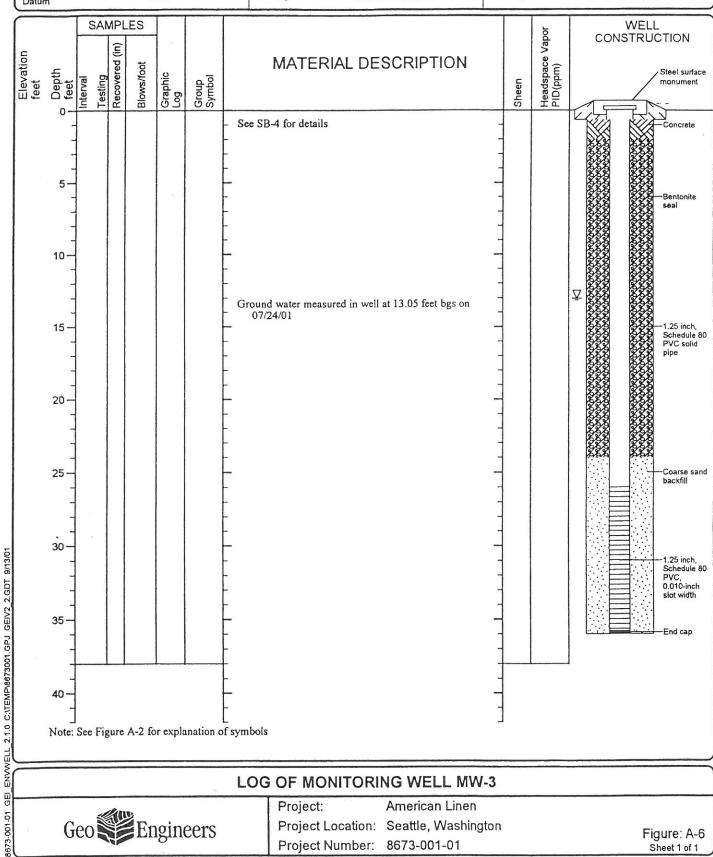
8673-001-01

Project:

American Linen Project Location: Seattle, Washington

Project Number: 8673-001-01 Figure: A-4 Sheet 1 of 1

Drilled	1110/01	Ву	LIVILY	Ву	OWEN
Drilling Contractor	Davies Drilling	Drilling Method	Hollow Stem Auger	Sampling Methods	SPT
Total Boring Depth (ft)	38	Hammer Data	140 (lb) hammer/ 30 (in) drop	Drilling Equipment	Limited Access Rig
Well Depth (ft)	36	Top of Well Elevation (ft)		Ground Water Level (ft. bgs)	10, 32.5
System/ Datum	N/A	Easting	Not Determined	Northing	Not Determined



LOG OF MONITORING WELL MW-3



Project:

American Linen

Project Location: Seattle, Washington

Project Number:

8673-001-01

Figure: A-6 Sheet 1 of 1

Drilled	0//10/01	Ву	I IVIN	Ву	LIVITY
Drilling Contractor	Davies Drilling	Drilling Method	Hollow Stem Auger	Sampling Methods	SPT
Auger Data	4.25 inch I.D.	Hammer Data	140 (lb) hammer/ 30 (in) drop	Drilling Equipment	Limited Access Rig
Total Depth (ft)	38	Surface Elevation (fl)	Not Measured	Ground Water Level (ft. bgs)	10, 32.5
Datum/ System	N/A	Easting	Not Determined	Northing	Not Determined

Sy	System IV/A			Easing Not Determined	MOLUI	Northing Not Determined						
	SAMPLES								_			
Elevation	feet Depth	Interval	Recovered (in)	Blows/foot	Water Level	Graphic Log	Group Symbol	MATERIAL DESCRIPTION		Sheen	Headspace Vapor PID(ppm)	NOTES
	U-		5	3			CC SM	5 inches concrete Brown silty fine to medium sand with occasional gravel, bricks, glass (very loose, moist) (fill)		NS	0	
	5-		12	2			ML	Grades to more silt Brown sandy silt (medium stiff, moist)		NS NS	0 4.1	
		Ø	18	6					-			
	10-	CA	12	27			SM	Brown silty fine to medium sand with occasional coarse sand and gravel (medium dense, moist to wet)	, -	NS	0	
	15-		12	41			GM	Brown silty gravel with fine to coarse sand (medium dense, wet)	m	NS	19.9	
	9	CA CA	6	20		2	ML	Tan silt with occasional fine to medium sand (very stiff, moist)		NS	104	
	20 -	XI XI	18				SM	Gray silty sand with pebbles and cobbles (very		NS	67.6	
	,		10	50/4"			ML	dense, moist) Gray silt with occasional coarse sand and fine grav (hard, moist)	el	NS	28.1	
	25 -	X	4	50/5"				Grades to wet and no gravel	-	NS	4.6	
		×	5	50/6"			SM	Gray silty fine to medium sand with occasional fine gravel and coarse sand (very dense, moist)	; -	NS	10.5	
1.GDT 9/13/01	30 -	×	4	100/6"					-			
	,	⊠ CA	18	50/3"			MIL SM	Grades to silty fine to coarse sand (wet) Gray sandy silt (hard, wet) Gray silty fine to coarse sand with occasional grave		NS NS	46.2	
of GPJ GE	35 -		18	-			ML	(very dense, wet) Gray silt with trace fine to medium sand (hard, moist)				
ORING 2.1.0 C.\TEMP\8673001.GPJ GEIV2	40	≥ea CA		100/4"		111		Boring completed at 38.0 feet on 07/18/01 Ground water encountered at approximately 10 and 32.5 feet during drilling. See MW-3 for ground water measurement on 07/24/01.		NS	6.2	
RING 2	Note: S	see Figu	re A	\-2 for 6	expla	nation	of symb	ois				

LOG OF BORING SB-4



Project: American Linen

Project Location: Seattle, Washington

Project Number: 8673-001-01

Figure: A-5 Sheet 1 of 1

8673-001-01 GEI ENVBORI

APPENDIX A

FIELD PROCEDURES DRILLING AND MONITORING WELL INSTALLATION PROGRAM

APPENDIX A

FIELD PROCEDURES DRILLING AND MONITORING WELL INSTALLATION PROGRAM GENERAL

Subsurface conditions in the site vicinity were explored by completing four borings using hollow-stem auger drilling equipment. A scientist from our staff selected the exploration locations, examined and classified the soils encountered, and prepared a detailed log of each exploration. Soils encountered were visually classified in general accordance with ASTM D-2488-93, which is described in Figure A-1. The boring logs are presented in Figures A-3 and A-6. Ground water monitoring wells were constructed in three of the four borings. Well construction and ground water sampling procedures are described below.

DRILLING AND SOIL SAMPLING

Subsurface conditions on the site were explored during this phase of study by drilling four hollow-stem auger borings (MW-1 through MW-3 and SB-4) in July 2001. The hollow stem auger borings were drilled to depths ranging from approximately 18 to 38 feet bgs using limited-access, hollow-stem auger equipment owned and operated by Davies Drilling of Seattle, Washington. The hollow-stem auger drilling equipment was cleaned with a hot-water pressure washer before each boring was drilled. The sampling equipment was decontaminated before each sampling attempt with a Liquinox wash, a fresh water rinse and a distilled water rinse.

Soil samples from the borings were obtained from approximate 2.5-foot depth intervals using a heavy-duty split-barrel sampler equipped with stainless steel sleeves. The sampler was driven a maximum of 18 inches by a 140-pound weight falling a vertical distance of approximately 30 inches. The number of blows needed to advance the sampler the final 12 inches or other specified distance is indicated to the left of the corresponding sample notation on the boring log.

A portion of each sample was placed in a plastic bag for field screening. A clean laboratory prepared jar was used to collect samples from each sampling interval. Samples were kept cold in a cooler for potential chemical analysis. Chain-of-custody procedures were followed in transport of selected samples to the analytical laboratory.

FIELD SCREENING OF SOIL SAMPLES

A scientist from our staff field screened soil samples obtained from the borings. Field screening results are used as a general guideline to delineate areas of possible petroleum-related and solvent-related contamination. In addition, screening results are used to aid in the selection of soil samples for chemical analysis. The screening methods used include (1) visual screening, (2) water sheen screening, and (3) headspace vapor screening.

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. Water sheen screening and headspace vapor screening are more sensitive methods that have been

effective in detecting contamination at concentrations less than regulatory cleanup levels. However, field screening results are site-specific. The effectiveness of field screening varies with temperature, moisture content, organic content, soil type and age of contaminant. The presence or absence of a sheen or headspace vapors does not necessarily indicate the presence or absence of petroleum hydrocarbons.

Water sheen screening involves placing soil in water and observing the water surface for signs of sheen. Sheen screening may detect both volatile and nonvolatile petroleum hydrocarbons. Sheen classifications are 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. Natural organic matter in the soil may
	produce a slight sheen.
Moderate Sheen (MS)	Light to heavy sheen; may have some color/iridescence; spread
	is irregular to flowing, may be rapid; 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 may identify volatile petroleum hydrocarbon and solvent compounds and 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 Photovac Microtip PID (TIP) is inserted in the bag, and the TIP measures the concentration of combustible vapors present within the sample bag headspace. The TIP measures combustible vapors in ppm and is calibrated to 100 ppm isobutylene. The TIP measures concentrations up to 2,000 ppm. A lower threshold of significance of 1.0 ppm was used in this application.

MONITORING WELL CONSTRUCTION

A ground water monitoring well was constructed in three of the four borings at the completion of drilling. One ¼-inch-diameter, Schedule 80 polyvinyl chloride (PVC) pipe was installed in the borings. Selected portions of the PVC pipe casing installed in the borings are machine-slotted (0.010-inch slot width) to allow entry of water, free product and vapors into the well casing. Medium sand was placed in the borehole annulus surrounding the slotted portion of the wells. A bentonite seal is placed between the well casing sand pack and the ground surface to prevent cross-contamination between zones and surface water infiltration in the borings. The well casings are protected within a surface monument with a slip cap. Monitoring wells were developed by GeoEngineers at the conclusion of monitoring well installation by removing approximately five well volumes of ground water using a polyethylene bailer and peristaltic pump methods. Development water was placed in 55-gallon drums located on site pending off-site disposal.

MONITORING WELL SURVEY

GeoEngineers did not survey the well casings of MW-1 through MW-3 during this study. However, we recommend surveying the wells at a later date when supplemental ground water monitoring and sampling may be necessary. At that time we recommend either tying the new wells into the assumed elevations of the existing wells or resurveying all wells at the site.

GROUND WATER/DNAPL MEASUREMENTS

The depths to ground water relative to the casing rims were measured in monitoring wells MW-1, MW-2 and MW-3. The measurements were made with an electric water level indicator. The potential presence of DNAPL was measured with a Water Mark® interface probe using a solvent-sensitive probe. The equipment used to measure depths to ground water and DNAPL thickness was cleaned with a Liqui-Nox® solution wash and a distilled water rinse prior to use in each well.

ORGANIC VAPOR CONCENTRATIONS

Organic vapor concentrations were measured in each monitoring well casing using a Photovac Microtip photoionization detector (PID) equipped with a flexible drop hose lowered to within 1 foot of the static water level.

GROUND WATER SAMPLING

Ground water samples were obtained from monitoring wells MW-1, MW-2 and MW-3 on July 24, 2001. Each monitoring well was purged and ground water samples were collected using low-flow/low-turbidity sampling techniques, to minimize sediment suspension in ground water samples and because the well recharge rates are low at the site. Dedicated polyethylene tubing was installed to within 1 foot of the bottom of each well and connected to a peristaltic pump at the well head. Wells generally were considered purged when approximately three well volumes were removed from each well.

A hydrochloric acid preservative was present in the laboratory-supplied sample containers used for samples evaluated for the presence halogenated volatile organic compounds (HVOCs). The sample containers were labeled and placed in a cooler with ice for transport, under chain-of-custody documentation, to North Creek Analytical in Bothell, Washington for chemical analysis.

WASTEWATER

Purge, development and decontamination water that was generated during drilling and installation activities of MW-1 through MW-3 currently is stored on-site in four 55-gallon drums, pending off-site disposal.

SOIL CUTTINGS

Soil cuttings that were generated during the subsurface explorations were placed in five 55-gallon drums that currently are stored on-site, pending off-site disposal. An additional 55-gallon drum containing concrete and PVC piping debris from the site activities also is pending offsite disposal.

SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS			GROUP SYMBOL	GROUP NAME
COARSE GRAINED SOILS	GRAVEL More Than 50% of Coarse Fraction Retained on No. 4 Sieve	CLEAN GRAVEL	GW	WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL
			GP	POORLY-GRADED GRAVEL
		GRAVEL WITH FINES	GM	SILTY GRAVEL
			GC	CLAYEY GRAVEL
More Than 50% Retained on No. 200 Sieve	SAND	CLEAN SAND	sw	WELL-GRADED SAND, FINE TO COARSE SAND
			SP	POORLY-GRADED SAND
	More Than 50% of Coarse Fraction Passes No. 4 Sieve	SAND WITH FINES	SM	SILTY SAND
			sc	CLAYEY SAND
FINE GRAINED SOILS	SILT AND CLAY	INORGANIC	ML	SILT
			CL	CLAY
	Liquid Limit Less Than 50	ORGANIC	OL	ORGANIC SILT, ORGANIC CLAY
More Than 50% Passes No. 200 Sieve	SILT AND CLAY	INORGANIC	мн	SILT OF HIGH PLASTICITY, ELASTIC SILT
			СН	CLAY OF HIGH PLASTICITY, FAT CLAY
	Liquid Limit 50 or More	ORGANIC	ОН	ORGANIC CLAY, ORGANIC SILT
HIGHLY ORGANIC SOILS			PT	PEAT

NOTES:

- Field classification is based on visual examination of soil in general accordance with ASTM D2488-93.
- Soil classification using laboratory tests is in general accordance with ASTM D2487-98.
- Descriptions of soil density or consistency are based on interpretation of blow count data, visual appearance of soils, and/or test data.

SOIL MOISTURE MODIFIERS:

Dry - Absence of moisture, dusty, dry to the touch

Moist - Damp, but no visible water

Wet - Visible free water or saturated, usually soil is obtained from below water table



SOIL CLASSIFICATION SYSTEM
FIGURE A-1

KEY TO LOG SYMBOLS

Project Number: 8673-001-01

Project Location: Seattle, Washington

American Linen

Figure: A-2

Sheet 1 of 1

Project:

Geo Engineers

APPENDIX B CHEMICAL ANALYTICAL PROGRAM

APPENDIX B

CHEMICAL ANALYTICAL PROGRAM ANALYTICAL METHODS

Chain-of-custody procedures were followed during the transport of the soil and water samples to North Creek Analytical Inc. of Bothell, Washington. The samples were held in cold storage pending extraction and/or analysis. The analytical results, analytical methods reference and laboratory quality control 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. The data quality exceptions documented by the laboratory in the laboratory reports were reviewed by GeoEngineers using the applicable data validation guidelines from the following documents: "Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses" dated July 1988 (EPA document number EPA540/R94/083) and USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review" dated February 1994 (EPA document number EPA540/R94/012).

ANALYTICAL DATA REVIEW SUMMARY

Several data quality exceptions were noted by NCA. These exceptions were related to the high concentrations of solvents observed in the soil and ground water samples that were tested. Because of the high concentrations, several dilutions were required to adequately quantify PCE in these samples. Based on our review of the analytical data and our conversations with NCA it is our opinion that the data are acceptable for the purposes of this report.

APPENDIX C

REPORT LIMITATIONS AND GUIDELINES FOR USE

GeoEngineers

File No. 8673-001-01

APPENDIX C

REPORT LIMITATIONS AND GUIDELINES FOR USE

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 use by American Linen. 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 American Linen 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

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

If a lending agency or other parties intend to place legal reliance on the product of our services, we require that those parties indicate in writing their acknowledgement that the scope of services provided, and the general conditions under which the services were rendered including the limitation of professional liability, are understood and accepted by them. 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.

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 ground water fluctuations. Always contact GeoEngineers before applying this report to determine if it is still applicable.

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.



509.924.9200 fax 509.924.9290 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

27 August 2001

Dave Cook Geo Engineers - Seattle 600 Stewart Street, Suite 1420 Seattle, WA 98101

RE: American Linen/Seattle

Enclosed are amended results of analyses for samples received by the laboratory on 07/24/01 16:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Scott A. Woerman Project Manager



Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-47/b 509,924,9200 fax 509,924,9290

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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

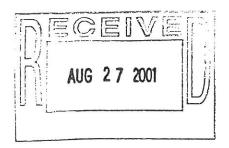
Project Number: 8673-001-01

Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

ANALYTICAL REPORT FOR SAMPLES - Ameneded

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	B1G0573-01	Water	07/24/01 12:30	07/24/01 16:10
MW-2	B1G0573-02	Water	07/24/01 12:15	07/24/01 16:10
MW-3	B1G0573-03	Water	07/24/01 11:15	07/24/01 16:10
P072401	B1G0573-04	Water	07/24/01 12:45	07/24/01 16:10



th Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Scott A. Woerman, Project Manager

North Creek Analytical, Inc. **Environmental Laboratory Network** Page 1 of 27



509.924.9200 18X 509.924.9250 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Geo Engineers - Seattle 500 Stewart Street, Suite 1420 Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

	Re	Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (B1G0573-01) Water			d: 07/24/01	16:10					
Acetone	ND	25.0	ug/l	1	1H06042	08/06/01	08/06/01	EPA 8260B	
Benzene	0.449	0.200	**	**	11	n	u	U	
Bromobenzene	ND	0.500	"	"	11	н	Ħ	n	
Bromochloromethane	ND	0.200	"	"	u	"	u	. "	
Bromodichloromethane	ND	0.200	n		"	11	**	a	
Bromoform	0.358	0.200	11	"	11	"	**	н	
Bromomethane	ND	2.00	11	n	н	tr	311.	эн	
2-Butanone	ND	2.00	111	"	н	**	"	n	
n-Butylbenzene	ND	0.200	11	n	н	ii	•	"	
sec-Butylbenzene	ND	0.200	11	"	"	**	"	11	
tert-Butylbenzene	ND	0.500	**	Ü	**	11	•	11	
Carbon disulfide	0.649	0.500	*1	**	**	**		n	
Carbon tetrachloride	ND	0.200	u		"	11	30 ₁	.11	
orobenzene	ND	0.200	14	"	11	**	:.#0	н	
Jidoroethane	ND	1.00	11	**	н	111	н	n	
Chloroform	ND	0.200	11	"	u	н	"	tt.	
Chloromethane	ND	1.00	н	**	"	0	"	п	
2-Chlorotoluene	ND	0.500	H	n	"	•	11	11	
4-Chlorotoluene	ND	0.500	п	17	11	11	**	.910	
Dibromochloromethane	ND	0.200	u	"	u	311.		н	
1,2-Dibromo-3-chloropropane	ND	0.500	**	u	п	***	н	11	
1,2-Dibromoethane	ND	0.200	**	· u	**	н	11	н	
Dibromomethane	ND	0.200	"	"	**	и	_ #	н	
1,2-Dichlorobenzene	ND	0.200	11	**	**	11	**	11	
1,3-Dichlorobenzene	ND	0.200		Ħ		"	**	н	
1,4-Dichlorobenzene	ND	0.200	**	11	n n	.11	000	н	
Dichlorodifluoromethane	ND	0.500	**	п	II.	u	TI .	н	
1,1-Dichloroethane	1.17	0.200		н	o o	**	11	н	
1,2-Dichloroethane	ND	0.200	"	u	u	**	n	**	
1,1-Dichloroethene	77.5	0.200	n	n	II .	"	н	n	E
cis-1,2-Dichloroethene	23.3	0.200	**	п	n .	**	n	ne	E
trans-1,2-Dichloroethene	0.956	0.200	"	п	111	"	H	н	
1,2-Dichloropropane	ND	0.200	"	и	o o	**	н	и	
1,3-Dichloropropane	ND	0.200		н	**	"			
2,2-Dichloropropane	ND	0.500	**	,,	ŭ	n.	**	m:	
1,1-Dichloropropene	ND	0.200	**	19	: tt =====	n	н	H	
cis-1,3-Dichloropropene	ND	0.200	"	11	п .	11	н	н	
trans-1,3-Dichloropropene	ND	0.200	· ·	H	o o	11	**	u	
dans.1,2-13iontohoptohome	1,2								

th Creek Analytical - Bothell



Fortland 509.924.9200 fax 509.924.9290 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

			56.069 33 L	y iicai - D					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes -
MW-1 (B1G0573-01) Water	Sampled: 07/24/01 12:30	Receive	d: 07/24/0	1 16:10					
Ethylbenzene	0.798	0.200	ug/l	1	1H06042	08/06/01	08/06/01	EPA 8260B	
Hexachlorobutadiene	ND	0.500	"	"	"	,,	11		
2-Hexanone	ND	2.00	**	11		"	"		
Isopropylbenzene	ND	0.500	*1	"	"	" n	"		
p-Isopropyltoluene	ND	0.200	"	11	"		,,		D
Methylene chloride	ND	5.00	*1	"	"	,,	11		В
4-Methyl-2-pentanone	ND	2.00	"	"	**	"	11	,,	
Naphthalene	0.776	0.500	"	ű	"		"		
n-Propylbenzene	ND	0.500	n.	"	"	**		,,	
Styrene	ND	0.500	н	ii	н	u			
1,1,1,2-Tetrachloroethane	1.01	0.200	ii.	**	"	n	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500	n	ж.	"	11			-
Tetrachloroethene	2430	0.200	rt	31	н	**		,,	E
uene	17.6	0.200	"	"	346	11		"	F
1,2,3-Trichlorobenzene	ND	0.200	n	11	**		**		
1,2,4-Trichlorobenzene	ND	0.200	11	н	**	11	n	**	
1,1,1-Trichloroethane	0.549	0.200	**	**	H	**	**	v	
1,1,2-Trichloroethane	ND	0.200	n	**	н	"	"	n 	_
Trichloroethene	490	0.200	**	an.	"	**	n	"	Ī
Trichlorofluoromethane	ND	0.500	11	11	"	**	н	"	
1,2,3-Trichloropropane	ND	0.500	"	**	**	"	H	"	
1,2,4-Trimethylbenzene	2.18	0.200	**	н	ü	н	"		
1,3,5-Trimethylbenzene	0.588	0.500	**	"	"	11	30% 10	н	
Vinyl chloride	74.5	0.200	n	11	"	"	"	"	I
	2.87	0.500	n	ü	a .	n	"	n	
m,p-Xylene	2.65	0.250	11		н	н	11	11	
o-Xylene		77-133			"	"	"	"	
Surrogate: 1,2-DCA-d4	110 / 0	80-120			"	"	и	"	S-0-
Surrogate: Toluene-d8		80-120			"	"	"	n	
Surrogate: 4-BFB	ND	2500	н	100	1H07035	08/07/01	08/07/01	er .	
Acetone	ND	100	**	н	н	н	Ħ	n	
Benzene		100	**	"	**		- 11		
Bromobenzene	ND	100	11	**	**		"	11	
Bromochloromethane	ND		**	. 11		н	n	н	
Bromodichloromethane	ND	100	" n	**	н	11	"	*	
Bromoform	ND	100	"		**	н	**	•	
Bromomethane	ND	200	,,		o	**	"	н	
2-Butanone	ND	1000		"		ii	n	,,	
n-Butylbenzene	ND	100	11	"	****				

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Geo Engineers - Seattle

Seattle WA, 98101

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Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	R Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (B1G0573-01) Water	Sampled: 07/24/01 12:30	Receive	d: 07/24/01	1 16:10			// 		*
sec-Butylbenzene	ND	100	ug/l	100	1H07035	08/07/01	08/07/01	EPA 8260B	
tert-Butylbenzene	ND	100	"	n	11	н	11	li .	
Carbon disulfide	ND	100	**	и		**	**	n .	
Carbon tetrachloride	ND	100	н		11				
Chlorobenzene	ND	100	n	u	11	н	11	ū	
Chloroethane	ND	100		n	*1	.11	**	ш	
Chloroform	ND	100	**	an a	n	m	:01	1011	
Chloromethane	ND	500	**	н	11	11	н	≅u	
2-Chlorotoluene	ND	100	**	н	n		**	au .	
4-Chlorotoluene	ND	100	11	н		u	**		
Dibromochloromethane	ND	100	"	н	п	u	-11	**	
1,2-Dibromo-3-chloropropane	ND	500	u.	н	11	ш	n	•	
1,2-Dibromoethane	ND	100	.11.	11.	**	11	n	.,	
romomethane	ND	100	n	3113	.0	u	.0	Hit	
	ND	100	11	n	п	и	ш	//n	
., \(\alpha - \text{Dichlorobenzene} \)	ND	100		**	u	11	н	u	
1,3-Dichlorobenzene	ND	100	*1		**	и	tr	U	
1,4-Dichlorobenzene Dichlorodifluoromethane	ND	100	**		"	п	tt	u	
	ND	100	111	11	"	11	"	ŭ	
1,1-Dichloroethane	ND	100	**	316		n	н	"	
1,2-Dichloroethane	ND	100	"	**	н	11	н	u .	
1,1-Dichloroethene	ND	100	"		w	n	11	111	
cis-1,2-Dichloroethene	ND	100	n	п	u	**	11	н	
trans-1,2-Dichloroethene			11	"	"	н	- 11	11	
1,2-Dichloropropane	ND	100 100	,,	н	,,		,,		
1,3-Dichloropropane	ND		19	н	u .		11	v	
2,2-Dichloropropane	ND	100	"			"	,,	20	
1,1-Dichloropropene	ND	100	"	**	"	"		0	
cis-1,3-Dichloropropene	ND	100		,,	,,	,,	#	"	
trans-1,3-Dichloropropene	ND	100	#		**	"	,,	**	
Ethylbenzene	ND	100	41	11		"	"	"	
Hexachlorobutadiene	ND	100	"	**	31				
2-Hexanone	ND	1000	н	н	н		H	"	
Isopropylbenzene	ND	100	н	"	н	11	"	**	
p-Isopropyltoluene	ND	100	н	"	**	"	H	u ·	
Methylene chloride	ND	500	311	н	**	**	"	11	
4-Methyl-2-pentanone	ND	1000	"	**	***			H	
Naphthalene	ND	100	11	**	**	"	"	n	
n-Propylbenzene	ND	100	11	n	H	"	H	**	

th Creek Analytical - Bothell

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Scott A. Woerman, Project Manager



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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (B1G0573-01) Water	Sampled: 07/24/01 12:3	0 Receive	d: 07/24/01	16:10					
Styrene	ND	100	ug/l	100	1H07035	08/07/01	08/07/01	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	100		н	u	n	n	**	
1,1,2,2-Tetrachloroethane	ND	100	11	**	"	M	***	346	
Tetrachloroethene	50000	100	u	u	11	30	41	**	E
Toluene	ND	100	11	n	п	n .	11	п	
1,2,3-Trichlorobenzene	ND	100	11	"		н	н	"	
1,2,4-Trichlorobenzene	ND	100	н	**	u	**	"	n	
1,1,1-Trichloroethane	ND	100	н	н	н	н	Ħ	n	
1,1,2-Trichloroethane	ND	100	n	**	11		н		
Trichloroethene	1130	100	н	"	**	n	**	916	
Trichlorofluoromethane	ND	100	u.	**	Ħ	÷#.	н	H	
1,2,3-Trichloropropane	ND	100	u	"	**	. 11	n	"	
1,2,4-Trimethylbenzene	ND	100	"	"	u	н	"	•	
5-Trimethylbenzene	ND	100	**	ıı	11		n	**	
vinyl chloride	ND	100	,	н	**	n	11		
	ND	200	"	n		w	п	"	
m,p-Xylene	ND	100	tt	n	11	**	н	**	
o-Xylene	With the second	73-137			"	"	"	"	
Surrogate: 1,2-DCA-d4		75-137 75-124			"	"	,,	,,	
Surrogate: Toluene-d8	(5)(5)(5)(5)(5)				"	"	,,	"	
Surrogate: 4-BFB	106 %	77-120							
MW-1 (B1G0573-01RE1) W				24/01 16:10					
Acetone	ND	50000	ug/l	2000	1H07035	08/07/01	08/07/01	EPA 8260B	
Benzene	ND	2000	**	н	"	11	"	11	
Bromobenzene	ND	2000	n	н			"	II.	
Bromochloromethane	ND	2000	н	"	"		"	H	
Bromodichloromethane	ND	2000	*	t)	#1	Ü	**	***	
Bromoform	ND	2000	**	n	M. J	u	30.0	100	
Bromomethane	ND	4000	li .	"	11	11	n	н	
2-Butanone	ND	20000	11	**	11	11	11	н	
n-Butylbenzene	ND	2000	**	"	11	**	u	**	
sec-Butylbenzene	ND	2000		u		**	8 n (ж.	
ACCUPATION OF THE PROPERTY OF	ND	2000			н	11	w	n	
tert-Butylbenzene	ND	2000	"	"	D	•	"	**	
Carbon disulfide	ND	2000	11			11		**	
Carbon tetrachloride	ND	2000		н	24	11	"	"	
Chlorobenzene		2000	"		**	101		**	
Chloroethane	ND				п		11	"	
Chloroform	ND	2000	(22)	**				2225	

th Creek Analytical - Bothell

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Project: American Linen/Seattle

Project Number: 8673-001-01

Amended Report Issued: 08/27/01 13:21

Geo Engineers - Seattle 600 Stewart Street, Suite 1420 Seattle WA, 98101

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Project Manager: Dave Cook

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-1 (B1G0573-01RE1) Water	Sampled: 07/24/0	1 12:30 Rec	eived: 07/	24/01 16:10					
Chloromethane	ND	10000	ug/l	2000	1H07035	08/07/01	08/07/01	EPA 8260B	
2-Chlorotoluene	ND	2000	"	"	"	"	"	EFA 8260B	
4-Chlorotoluene	ND	2000	11	11	**	11	"	"	
Dibromochloromethane	ND	2000	**	**	н	н	**	, и	
1,2-Dibromo-3-chloropropane	ND	10000	11	"	n			ш	
1,2-Dibromoethane	ND	2000	n	tr.	**	**	*	н	
Dibromomethane	ND	2000	**		ж	0	u		
1,2-Dichlorobenzene	ND	2000	m i	**	n	11	n	u .	
,3-Dichlorobenzene	ND	2000	HT.	и	*	**	n	,,	
,4-Dichlorobenzene	ND	2000	**	п	н	11	п	**	
Dichlorodifluoromethane	ND	2000	**	н	н	**	11	"	
,1-Dichloroethane	ND	2000				30	н		
2-Dichloroethane	ND	2000	n	ji	910	11	u	ii	
Dichloroethene	ND	2000	**	,,	н	"	11		
1,2-Dichloroethene	ND	2000	**	11	**	u	"	"	
rans-1,2-Dichloroethene	ND	2000	u	**	11	n .	**	11	
,2-Dichloropropane	ND	2000	ii .	n	11	11	n	an a	
,3-Dichloropropane	ND	2000	**	16	п	ii .	**	Set .	
,2-Dichloropropane	ND	2000	ii	ü	11	**	II.	u	
,1-Dichloropropene	ND	2000	"	n.	**	u		,,	
is-1,3-Dichloropropene	ND	2000	**		"	**	и	"	
rans-1,3-Dichloropropene	ND	2000	in .		"	H	**	n	
Cthylbenzene	ND	2000	"	н		**	n	310	
Hexachlorobutadiene	ND	2000	н	**	ii.	ū	*	11	
-Hexanone	ND	20000	11	n	**	**	11	11	
sopropylbenzene	ND	2000	er.	H	S 0.		н	ır	
-Isopropyltoluene	ND	2000	н	11		**	ü	0	
Methylene chloride	ND	10000	н	н	н	11	u	**	В
-Methyl-2-pentanone	ND	20000	**	"	**	**	n	н	В
Vaphthalene	ND	2000	**	*	**	110	н	n .	
-Propylbenzene	ND	2000	н	"	ŧI.	н	n	,,	
tyrene	ND	2000	ш	**	н	11	11	,,	
,1,1,2-Tetrachloroethane	ND	2000	n			**	"	H .	
,1,2,2-Tetrachloroethane	ND	2000	11	n	н	n		n s	
etrachloroethene	103000	2000	н		**	11	TI .	**	
oluene	ND	2000	п	н	н		н	 n	E
2,3-Trichlorobenzene	ND	2000	n	**	11	ű		"	
2,4-Trichlorobenzene	ND	2000	w	,,	11			**	

th Creek Analytical - Bothell

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Scott A. Woerman, Project Manager



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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (B1G0573-01RE1) Water	Sampled: 07/24/0	01 12:30 Rec	ceived: 07/	24/01 16:10					
1,1,1-Trichloroethane	ND	2000	ug/l	2000	1H07035	08/07/01	08/07/01	EPA 8260B	
1,1,2-Trichloroethane	ND	2000	"	ū	Ħ	11	н	**	
Trichloroethene	ND	2000	**	u	**	11	**	•	
Trichlorofluoromethane	ND	2000	*	11	**	u	**	"	
,2,3-Trichloropropane	ND	2000	**	11	н		"	**	
,2,4-Trimethylbenzene	ND	2000	11	"	n:		n	н	
3,5-Trimethylbenzene	ND	2000	11	11	11	161	H	**	
Vinyl chloride	ND	2000	и	"	11	н	11	<u>u</u>	
	ND	4000	n	28	**		"	u	
n,p-Xylene	ND	2000	**	"	н	"	н	"	
o-Xylene	122 %	73-137			"	"	"	"	
Surrogate: 1,2-DCA-d4	101 %	75-124			"	"	"	"	
Surrogate: Toluene-d8		77-120			"	"	"	"	
Surrogate: 4-BFB	104 %								
V-1 (B1G0573-01RE2) Water									
Acetone	ND	125000	ug/l	5000	1H07035	08/07/01	08/07/01	EPA 8260B	
Benzene	ND	5000	u	"	н	tr.	"	"	
Bromobenzene	ND	5000	11	н	II	Ħ	11	u.	
Bromochloromethane	. ND	5000	"	"	w	**	11	"	
Bromodichloromethane	ND	5000	н	"	11	**	n	"	
Bromoform	ND	5000	*1	11	**	**	n		
Bromomethane	ND	10000	11	н	tt	11	11	п	
2-Butanone	ND	50000	u	"	"	u.	" -	н	
n-Butylbenzene	ND	5000	n	"	311	11	11	ü	
sec-Butylbenzene	ND	5000	"	**	111	· ·	n	u u	
tert-Butylbenzene	ND	5000	**	11	**	"	u		
Carbon disulfide	ND	5000	п	п	**	**	**	u	
Carbon tetrachloride	ND	5000	**		*1	11	"		
	ND	5000	н	ж	110	ш	,,	,,	
Chlorobenzene	ND	5000	<u>u</u>	**	**	rt	11	m ·	
Chloroethane	ND	5000		H	"		н	n	
Chloroform	ND	25000		н	,	11	**	41	
Chloromethane	ND	5000	H.S.	**	n	11-	11	•	
2-Chlorotoluene	ND	5000	"	**	н	**	"	н	
4-Chlorotoluene			н	Ü	**		п	н	
Dibromochloromethane	ND	5000	**		11	"	н	н	
1,2-Dibromo-3-chloropropane	ND	25000		,,	,,		n		
1,2-Dibromoethane	ND	5000			,				
Dibromomethane	ND	5000	H	**		"	30.2		

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Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-1 (B1G0573-01RE2) Water	Sampled: 07/24/01	12:30 Rec	eived: 07/	24/01 16:10					-
1,2-Dichlorobenzene	ND	5000	ug/l	5000	1H07035	08/07/01	08/07/01	EPA 8260B	
1,3-Dichlorobenzene	ND	5000	u		11	11	н	"	
1,4-Dichlorobenzene	ND	5000	11	"	"	н	0	n	
Dichlorodifluoromethane	ND	5000	rt	н	tr	11	H	. "	
1,1-Dichloroethane	ND	5000	0.	H	u	**	n		
,2-Dichloroethane	ND	5000	10	311.5	n	H	**	"	
1,1-Dichloroethene	ND	5000	10	11	н	Ħ	Ħ	H ©	
cis-1,2-Dichloroethene	ND	5000	11		11	н	11	**	
rans-1,2-Dichloroethene	ND	5000	**	•	**	"	**	н	
1.2-Dichloropropane	ND	5000	н	11	**	11	11	**	
1,3-Dichloropropane	ND	5000	n	11	**	11	11	11	
2,2-Dichloropropane	ND	5000	10		n	н	и		
1,1-Dichloropropene	ND	5:000	U	30.5	**	116	U	N.	
1,3-Dichloropropene	ND	5000	11	300	310	**	0	H	
.s-1,3-Dichloropropene	CIN	5000	н	11		n	u	••	
Ethylbenzene	ND	5000	11	in	u	**	n n	n	
Hexachlorobutadiene	ND	5000	11	**		n	Ü	te	
2-Hexanone	ND	50000		**	"	11			
Isopropylbenzene	ND	5000	31	an .	п	30%	o o	17	
o-Isopropyltoluene	ND	5000	п	3116		316	0	**	
Methylene chloride	ND	25000		**	11	n	n	**	
4-Methyl-2-pentanone	ND	50000	11	Ħ.	.,	11	H	и	
Naphthalene	ND	5000	**	н .		11	_"	n	
n-Propylbenzene	ND	5000	н	**		11	,,		
Styrene	ND	5000	н	H	п	н	•	n	
1,1,1,2-Tetrachloroethane	ND	5000	**	100	11	n:	11	.00	
1,1,2,2-Tetrachloroethane	ND	5000	11	"	"	**	"	**	
Tetrachloroethene	85500	5000	11	**	н	**	**	**	
Toluene	ND	5000	**	n	**	**	"	11	
1,2,3-Trichlorobenzene	ND	5000	316	11	**	**	**	11	
1,2,4-Trichlorobenzene	ND	5000	n	н	311	H	19	н	
1,1,1-Trichloroethane	ND	5000	н	**	11	**	11	н	
	ND	5000	и	**		,	H	**	
1,1,2-Trichloroethane	ND	5000	н	11	11	**	n	n	
Trichloroethene	ND ND	5000	***	11		**	U		
Trichlorofluoromethane		5000	u u	11	11	11		11	
1,2,3-Trichloropropane	ND		11	11	н	н	n n	Ħ	
1,2,4-Trimethylbenzene	ND	5000	,,	11		,,	ï		
1,3,5-Trimethylbenzene	ND	5000	1.00	0.55%	2750		of.	- 400	

Morth Creek Analytical - Bothell



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Geo Engineers - Seattle

Seattle WA, 98101

600 Stewart Street, Suite 1420

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (B1G0573-01RE2) Water	Sampled: 07/24/0	1 12:30 Rec	eived: 07/	24/01 16:10					
Vinyl chloride	ND	5000	ug/l	5000	1H07035	08/07/01	08/07/01	EPA 8260B	
m,p-Xylene	ND	10000	н	"	11	**	**		
o-Xylene	ND	5000	"	"	"	**	"		
Surrogate: 1,2-DCA-d4	114 %	73-137			"	"	"	и	
Surrogate: Toluene-d8	99.5 %	75-124			n	"	"	· "	
Surrogate: 4-BFB	103 %	77-120			"	"	"	"	
•	ampled: 07/24/01 12	15 Received	d: 07/24/0	1 16:10					
Acetone	ND	25.0	ug/l	1	1H06042	08/06/01	08/06/01	EPA 8260B	
Benzene	0.375	0.200	"	**	n	10	"	н	
Bromobenzene	ND	0.500	11	"	11	113	"	u	
Bromochloromethane	ND	0.200	m	11	"	n	Ħ	10	
Bromodichloromethane	0.338	0.200	**	10	**	u	u	"	
Bromoform	0.509	0.200	u	11	и	**			
momethane	ND	2.00	л	**	п	11	**	u u	
2-Butanone	ND	2.00	H.	11		n	**	u	
n-Butylbenzene	ND	0.200	n	n	11	an :	11	·	
sec-Butylbenzene	ND	0.200	n	н	n	w	"	n	
tert-Butylbenzene	ND	0.500	u	"	n	н	"	u	
Carbon disulfide	ND	0.500	п	**	"	n	n	n n	
Carbon tetrachloride	ND	0.200	10	31	n	н	"	•	
Chlorobenzene	ND	0.200	310	14.	"	**	"	310	
Chloroethane	ND	1.00	"	"	#	.11	"		
Chloroform	4.29	0.200	n	и	n	**	11	IT	
Chloromethane	ND	1.00	н	"	**	**	**	11	
2-Chlorotoluene	ND	0.500	11	"	11	**	11	n	
4-Chlorotoluene	ND	0.500	Ħ	11	11	**	, n		
Dibromochloromethane	ND	0.200	n	**	**	111	11		
1,2-Dibromo-3-chloropropane	ND	0.500	n	H	**	10	"	н	
1,2-Dibromoethane	ND	0.200	н	**	π	**	11	и	
Dibromomethane	ND	0.200		11	н	**	II	н	
1,2-Dichlorobenzene	ND	0.200	u	in:	**	n	н	H	
1,3-Dichlorobenzene	ND	0.200	"	"	ЭН	н	**	*	
1,4-Dichlorobenzene	ND	0.200	**	"	"	"	**	"	37
Dichlorodifluoromethane	ND	0.500	0	u	н	**	n	•	
1,1-Dichloroethane	ND	0.200	0	H	"	11	•	•	
1,2-Dichloroethane	ND	0.200	"	**		111	"	"	
1,1-Dichloroethene	2.97	0.200	**	н	н	TH .	**	H	

North Creek Analytical - Bothell

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North Creek Analytical, Inc. **Environmental Laboratory Network**



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Geo Engineers - Seattle 600 Stewart Street, Suite 1420 Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Reporting												
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
MW-2 (B1G0573-02) Water	Sampled: 07/24/01 12:15	Receive	d: 07/24/01	1 16:10								
cis-1,2-Dichloroethene	129	0.200	ug/l	1	1H06042	08/06/01	08/06/01	EPA 8260B	E			
trans-1,2-Dichloroethene	1.02	0.200	**	**	**	,,	н	н				
1,2-Dichloropropane	ND	0.200	n.	.11	н	11	tt	**				
1,3-Dichloropropane	ND	0.200	N.	n	n	11	3 11	, w				
2,2-Dichloropropane	ND	0.500	**	11	11	"	н	"				
1,1-Dichloropropene	ND	0.200	н	н	11	u	н	**				
cis-1,3-Dichloropropene	ND	0.200	11	**	11	40	n					
trans-1,3-Dichloropropene	ND	0.200	"	**	"	**	"	**				
Ethylbenzene	2.01	0.200	11	u	11	M	.11	,				
Hexachlorobutadiene	ND	0.500	**	п	Ħ	.11	11	**				
2-Hexanone	ND	2.00	**	110	TH.	n .	"	**				
Isopropylbenzene	ND	0.500	11	n	n n	n .	н	п				
p-Isopropyltoluene	ND	0.200	**	u	и	14	n	ü				
* 'athylene chloride	ND	5.00	11	11	u	0	n	ii	В			
lethyl-2-pentanone	ND	2.00	11	11	n	n	"	n .				
Naphthalene	3.02	0.500	17	н	11	n	н	n				
-Propylbenzene	0.920	0.500	(11)	н	н	**	**	n .				
Styrene	ND	0.500	311	110	***	0	u	"				
1,1,1,2-Tetrachloroethane	13.1	0.200	11	и	H	11		н	E			
1,1,2,2-Tetrachloroethane	ND	0.500	11	n	11	**		u	2			
Tetrachloroethene	2330	0.200	11		u	ii		u u	Е			
Toluene	48.3	0.200	n	**	**	D	H		E			
1,2,3-Trichlorobenzene	ND	0.200		m	н	**		н	2			
1,2,4-Trichlorobenzene	ND	0.200	**	"	н	"	"	н				
1,1,1-Trichloroethane	7.65	0.200	н	н	п	11	11	и	E			
1,1,2-Trichloroethane	ND	0.200	n	"	11	"	11	"	L			
Trichloroethene	237	0.200	ū		u.	н	и	н	E			
Trichlorofluoromethane	ND	0.500	ar .	**	**	Ent.	н	**	L			
1,2,3-Trichloropropane	ND	0.500	11	"	11	n						
1,2,4-Trimethylbenzene	7.90	0.200	,,	"	,,	11	**	н	E			
1,3,5-Trimethylbenzene	2.01	0.500	"	11	"	н	11	н	L			
	0.457	0.200	"		,,		"					
Vinyl chloride	7.07	0.500	11	**	"	"	"	и				
m,p-Xylene	5.81	0.250	,,	1943	**	"	"	н				
o-Xylene												
Surrogate: 1,2-DCA-d4		-133			"	"	"	"				
Surrogate: Toluene-d8		-120			"	"	"	"	S-04			
Surrogate: 4-BFB		-120			"	. "	"	· r				
Acetone	ND	50000		2000	1H07035	08/07/01	08/07/01	n =				

North Creek Analytical - Bothell

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Page 10 of 27



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600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

•		100th Creek randy wear Bother												
Analyte	R Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method -	Notes					
MW-2 (B1G0573-02) Water	Sampled: 07/24/01 12:15	Receive	d: 07/24/01	1 16:10										
Benzene	ND	2000	ug/l	2000	1H07035	08/07/01	08/07/01	EPA 8260B						
Bromobenzene	ND	2000	u	"	н	TT.	"	н						
Bromochloromethane	ND	2000	n	n	**	H	**	"						
Bromodichloromethane	ND	2000	"	n	**	**	**	"						
Bromoform	ND	2000	"	"		**	11	"						
Bromomethane	ND	4000		"	"	0	"	"						
2-Butanone	ND	20000	**	H	**	n	11	"						
n-Butylbenzene	ND	2000	**	H	H	n	11	•						
sec-Butylbenzene	ND	2000	"	**		"	11	"						
tert-Butylbenzene	ND	2000	ir .	II.	и		. It	,,						
Carbon disulfide	ND	2000	"	U	11		н	11						
Carbon tetrachloride	ND	2000	"	n	u	н	n	"						
Chlorobenzene	ND	2000	п	п	**	•	u u	и						
Chloroethane	ND	2000	n	.00	11	и	•;	11						
oroform	ND	2000	ıı	11.	**	n	"	и						
Chloromethane	ND	10000	н	и	**	n	11							
2-Chlorotoluene	ND	2000	н	u	11	U	"	#						
4-Chlorotoluene	ND	2000	u	11	"	u	"	n						
Dibromochloromethane	ND	2000	.11	п	#	**	"	11						
1,2-Dibromo-3-chloropropane	ND	10000	n	н	11	H	n	u						
1,2-Dibromoethane	ND	2000	11	ii n	и	11	n	n						
Dibromomethane	ND	2000	10	**	103	ti.	"	n.						
	ND	2000	11	u	н	п	n	н						
1,2-Dichlorobenzene	ND	2000	н	u	н		u	**						
1,3-Dichlorobenzene	ND	2000	h		u	•	"	•						
1,4-Dichlorobenzene	ND	2000	***	n		n	11	н						
Dichlorodifluoromethane	ND	2000	н	11	11	"	"							
1,1-Dichloroethane	ND	2000	**	"	н	M.:	н	**						
1,2-Dichloroethane	ND	2000	"	n	**	н	n	111						
1,1-Dichloroethene	ND	2000	**	**	11	11	11							
cis-1,2-Dichloroethene		2000	11	3C	••	и	11	11						
trans-1,2-Dichloroethene	ND	2000	11	11	an.	н	11	,,						
1,2-Dichloropropane	ND			n		144	ж.	DI.						
1,3-Dichloropropane	ND	2000		н		**	"	н						
2,2-Dichloropropane	ND	2000	**			н	11	**						
1,1-Dichloropropene	ND	2000		"	,,			•						
cis-1,3-Dichloropropene	ND	2000	"	**	,,		**							
trans-1,3-Dichloropropene	ND	2000	**		"	11	"	е п						
Ethylbenzene	ND	2000	"			"	TT.							

North Creek Analytical - Bothell

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Seattle WA, 98101

Project: American Linen/Seattle

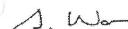
Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (B1G0573-02) Water	Sampled: 07/24/01 12:1:	Receive	d: 07/24/01	16:10					
Hexachlorobutadiene	ND	2000	ug/l	2000	1H07035	08/07/01	08/07/01	EPA 8260B	
2-Hexanone	ND	20000		"	"	"	u	Ħ	
Isopropylbenzene	ND	2000	11	"	n	n	"	Ü	
p-Isopropyltoluene	ND	2000	н	н	n	n	U	ū	
Methylene chloride	ND	10000	**	н	**	**	*	н	E
4-Methyl-2-pentanone	ND	20000	***		.11	m.	ш	20	
Naphthalene	ND	2000	**	н	***	II.	· rr	и	
n-Propylbenzene	ND	2000	"	н	u	"	n	11	
Styrene	ND	2000	"	"		*	u	н	
1,1,1,2-Tetrachloroethane	ND	2000	"	Ħ	II	н	п	n	
1,1,2,2-Tetrachloroethane	ND	2000	11	"	n .	Ħ	n	n	
Tetrachloroethene	161000	2000	11	и	11	н	11	Ø 11 .	H
Toluene	ND	2000	WS	11	10	HC.	u	Set.	
12.3-Trichlorobenzene	ND	2000	116	H.	ır	и	11	11	
,4-Trichlorobenzene	ND	2000	**	н		н	п	н	
1.1,1-Trichloroethane	ND	2000	н	**	11	11	11	u	
1,1,2-Trichloroethane	ND	2000	11	"	**	н	Ü	"	
Trichloroethene	ND	2000		u		n	u.	н	
Trichlorofluoromethane	ND	2000	m:	11	**	#	ж	3H.	
1.2,3-Trichloropropane	ND	2000	п	41.1	ŧı	Hr.	n.	н	
1,2,4-Trimethylbenzene	ND	2000	n	11	**	u	II.	n.	
1,3,5-Trimethylbenzene	ND	2000	n	"	ŧŧ	0	11	п	
Vinyl chloride	ND	2000	11	"	"	"	_ #	11	
m,p-Xylene	ND	4000	**	"	11	11	н	.11	
o-Xylene	ND	2000	M.	er ·	н	n	10.	Эн.	
Surrogate: 1,2-DCA-d4	118 % 7	3-137			"	"	"	"	
Surrogate: Toluene-d8	98.5 % 7	5-124			"	"	"	"	
Surrogate: 4-BFB	104 % 7	7-120			"	"	"	"	æ

Trth Creek Analytical - Bothell





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Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (B1G0573-02RE1) Water	Sampled: 07/24/0	1 12:15 Rec	eived: 07/2	24/01 16:10				7	
Acetone	ND	250000	ug/I	10000	1H07035	08/07/01	08/07/01	EPA 8260B	
Benzene	ND	10000	n	"	"	**	u u	"	
Bromobenzene	ND	10000	n	"	"	**	"	22	
Bromochloromethane	ND	10000	u	u	**	н	**	n	
Bromodichloromethane	ND	10000	н		H	**	11	ű	*
Bromeform	ND	10000	н	**	н	**	н	"	
Bromomethane	ND	20000	н	**	**		***	v.	
2-Butanone	ND	100000	**	n	н	Ħ	11	"	
n-Butylbenzene	ŇD	10000	**	"	"	**	n	W.	
sec-Butylbenzene	ND	10000	n	н	"	**	11	н	
tert-Butylbenzene	ND	10000	н		··	н	ü	Ü	
Carbon disulfide	ND	10000			н	u	ü	n.	
Carbon tetrachloride	ND	10000	n	H.	**	n .	ii.	d	
Cilorobenzene	ND	10000	n	и	m	30	u	u	
oroethane	ND	10000	и	II .	11	u	11	u	
Chloroform	ND	10000	н	11	н	**	H	u	
Chloromethane	ND	50000	н	11	п	**	2	u	
2-Chlorotoluene	ND	10000	u	"	и	**	**	ü	
4-Chlorotoluene	ND	10000	**	11	11	**	Ü	Ü	
Dibromochloromethane	ND	10000	**	an.		**	11	14	
1,2-Dibromo-3-chloropropane	ND	50000	**	"	**	91	11	**	
1,2-Dibromoethane	ND	10000	11	**	"	n	"	н	
Dibromomethane	ND	10000	11	11	н	11	<u>,"</u>	Ħ	
1,2-Dichlorobenzene	ND	10000	n	н	"	"	**	**	
1,3-Dichlorobenzene	ND	10000	ių:	30		n	и	н	
1,4-Dichlorobenzene	ND	10000	u	n.	.0	и	u	n	
Dichlorodifluoromethane	ND	10000	11	"	н	n	н	**	
1,1-Dichloroethane	ND	10000	11	н	**	н	н	n	
1,2-Dichloroethane	ND	10000	ш	11	"	н	ű	11	
1,1-Dichloroethene	ND	10000	111	110	**	**	19	и	
cis-1,2-Dichloroethene	ND	10000	"	эн	11	11.11	11	u	
A CONTRACTOR OF THE CONTRACTOR	ND	10000	11	11	**	ű	n	н	
trans-1,2-Dichloroethene	ND	10000	"	10	"	**	u	<u>u</u>	
1,2-Dichloropropane	ND	10000	**	н	ñ	11	ü	ï	
1,3-Dichloropropane	ND	10000	"	191	**	"	11	"	
2,2-Dichloropropane	ND	10000		u	**	**	**		
1,1-Dichloropropene	ND ND	10000	11	11	**	u.	11		
cis-1,3-Dichloropropene	ND ND	10000	,,	,,	**	,,	,	11	
trans-1,3-Dichloropropene	עא	10000							

Trth Creek Analytical - Bothell

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North Creek Analytical, Inc. **Environmental Laboratory Network** Page 13 of 27



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Geo Engineers - Seattle

Project: American Linen/Seattle

600 Stewart Street, Suite 1420 Project Number: 8673-001-01 Project Manager: Dave Cook Seattle WA, 98101

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

	Note: 1 and	Reporting	24000 Lake 12	200.20 200	65.55 EV 95	AND 1000			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (B1G0573-02RE1) Water	Sampled: 07/24/0	1 12:15 Re	ceived: 07/2	24/01 16:10					
Ethylbenzene	ND	10000	ug/l	10000	1H07035	08/07/01	08/07/01	EPA 8260B	
Hexachlorobutadiene	ND	10000	- n	u.	10	u	"	11	
2-Hexanone	ND	100000	"	н -	**	н	"	**	
Isopropylbenzene	ND	10000	"	11	er	H	**	. "	
p-Isopropyltoluene	ND	10000	ti.	**	**	n	u u	11	
Methylene chloride	ND	50000	11	•		0	Ü	n .	F
4-Methyl-2-pentanone	ND	100000	u	11	11	41	**	н	
Naphthalene	ND	10000	111	.1100	H	111	**	н	
n-Propylbenzene	ND	10000	ार	HE.	i er	н	11	#	
Styrene	ND	10000	.11	11	11	и	"	11	
1,1,1,2-Tetrachloroethane	ND	10000	**	**	11		a	я	
1,1,2,2-Tetrachloroethane	ND	10000	н	**	11	и	ű	**	
Tetrachloroethene	176000	10000	"	**	11	н	ü	**	
T-luene	ND	10000	"	**	.01	141	110	11	
,3-Trichlorobenzene	ND	10000	: M.	1100	ш	***	п	gt.	
1,2,4-Trichlorobenzene	ND	10000	**	11	11	н	u	*1	
1,1,1-Trichloroethane	ND	10000	rr .	**	**	II.	, iii	11	
1,1,2-Trichloroethane	ND	10000	п	**	н	n	Ħ	q	
Trichloroethene	ND	10000	11	11	H	н	It		
Trichlorofluoromethane	ND	10000	11	. "	11	u .	.00	· u	
1,2,3-Trichloropropane	ND	10000	**	11	le:	υ	n	**	
1,2,4-Trimethylbenzene	ND	10000	11	11	ır	"	11	н	
1,3,5-Trimethylbenzene	ND	10000	11	"	11	0	_11	и	
Vinyl chloride	ND	10000	, m	"	11	Ü	n .	н	
m,p-Xylene	ND	20000	**	II	**	ű	**	**	
o-Xylene	ND	10000	•	ű	11	**		н	
Surrogate: 1,2-DCA-d4	112 %	73-137			н	"	"	"	***************************************
Surrogate: Toluene-d8	100 %	75-124			"	"	"	"	
Surrogate: 4-BFB	103 %	77-120			n.	"	"	"	

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Scott A. Woerman, Project Manager

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Page 14 of 27



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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Analyte									
MW-3 (B1G0573-03) Water		Received	1: 07/24/01	1 16:10		00/06/01	00/0//01	ED4 82(0D	
Acetone	ND	25.0	ug/l	1	1H06042	08/06/01	08/06/01	EPA 8260B	
Benzene	0.524	0.200	11	"	**		**	"	
Bromobenzene	ND	0.500	н	n		11	**	**	
Bromochloromethane	ND	0.200	**	"		"	. 11	н	
Bromodichloromethane	ND	0.200	"	"	"	,,	"	"	
Bromoform	ND	0.200	"	"		ï		н	
Bromomethane	ND	2.00	"			"		"	
2-Butanone	ND	2.00	"		"		,,		
n-Butylbenzene	ND	0.200	**	"	"		0.	**	
sec-Butylbenzene	ND	0.200		11		"	10	,,	
tert-Butylbenzene	ND	0.500	"	tt	H	"	n	"	
Carbon disulfide	ND	0.500	11		**	,,	n		
Carbon tetrachloride	ND	0.200	n	n	311				
Chlorobenzene	ND	0.200	11	ji .	316			"	
.oroethane	ND	1.00	"	11	OIT.		11		
Chloroform	1.06	0.200	**	**	н -	11	u .	41)	
Chloromethane	ND	1.00	(01)	n	"	n	"	H I	
2-Chlorotoluene	ND	0.500	100		n	"		n	
4-Chlorotoluene	ND	0.500	**	#	*1	н	"	"	
Dibromochloromethane	ND	0.200	11	M	ш	**	ü	II.	
1,2-Dibromo-3-chloropropane	ND	0.500	*	"	2	н	**	"	
1,2-Dibromoethane	ND	0.200	u	11	n	п	н		
Dibromomethane	ND	0.200		н	Ħ	11	ett A	(10)	
1,2-Dichlorobenzene	ND	0.200	u	-11	11	u	••	"	
1,3-Dichlorobenzene	ND	0.200	n	ंश	n .	n	**	"	
1,4-Dichlorobenzene	ND	0.200	11	"	п	11	11	11	
Dichlorodifluoromethane	ND	0.500	H	u	II.	"	11	**	
	0.933	0.200	H	**	11	"	n'	***	
1,1-Dichloroethane	ND	0.200	**		u	D.	"	u	
1,2-Dichloroethane	17.0	0.200	H	11	**	"	n	•	
1,1-Dichloroethene	ND	0.200	**	"	10	11		•	
cis-1,2-Dichloroethene	3.71	0.200	**	н	**	n	**	"	
trans-1,2-Dichloroethene	ND	0.200	m	u	**	ш	'n	**	
1,2-Dichloropropane	ND	0.200	"		11	11	"	"	
1,3-Dichloropropane		0.500	н	"	**		11		
2,2-Dichloropropane	ND		**			. **	n	•	
1,1-Dichloropropene	ND	0.200	n		11	н	111	nt-≘	
cis-1,3-Dichloropropene	ND	0.200	,,			"	**	स	
trans-1,3-Dichloropropene	ND	0.200	"	048					

Trth Creek Analytical - Bothell

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Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Result			Reporting							
Ethylhenzene	Analyte			Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Hexachlorobutadiene	MW-3 (B1G0573-03) Water	Sampled: 07/24/01 11:1	5 Receive	ed: 07/24/01	16:10	0				
2-Hexanone ND 2.00 " " " " " " " " " " "	Ethylbenzene	0.459	0.200	ug/l	1	1H06042	08/06/01	08/06/01	EPA 8260B	
Isopropylloluene	Hexachlorobutadiene	ND	0.500		н		0	"	•	
p-Isopropylloluene	2-Hexanone	ND	2.00	**	"	,,	2	n	п	
p-Isopropylloluene ND 0.200 " " " " " " " " " " " " " " " " " "	Isopropylbenzene	ND	0.500	11	**	"	ii	**	, u	81
4-Methyl-2-pentanone ND 2.00 " " " " " " " " " " " " " " " " " "		ND	0.200	ti	**	ir	Ü	n	11	
4-Methyl-2-pentanone ND 2.00 " " " " " " " " " " " " " " " " " "	Methylene chloride	6.20	5.00	**	"	11		11	m.	F
Naphthalene	17/	ND	2.00	"	91		n	n	п	~
n-Propylenzene ND 0.500 " " " " " " " " " " " " " " " " " "		0.643	0.500	h	tr	**	**	n	н	
Styrene ND 0.500 " <t< td=""><td></td><td>ND</td><td>0.500</td><td>u</td><td>H</td><td>11</td><td>11</td><td>"</td><td>и</td><td></td></t<>		ND	0.500	u	H	11	11	"	и	
1,1,2,2-Tetrachloroethane		ND	0.500	u	н	**	**	11	n	
1,1,2,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane	ND	0.200		11	u	**	n	н	
Tetrachloroethene		ND	0.500	ш	ш	u	"	"	п	
3-Trichlorobenzene ND 0.200 "		1900	0.200	11	**	u	и	11	н	F
3-Trichlorobenzene ND 0.200 "	Taluene	6.93	0.200	н	п	"	ж	n	**	F
1,2,4-Trichloroethane ND 0.200 " " " " " " " " " " " " " " " " " " "		ND	0.200	an:	en:	200	EII.	"	11	7
1,1,1-Trichloroethane 0.669 0.200 " " " " " " " " " " " " " " " " " " "		ND	0.200	н	311	in	u	n	tr.	
1,1,2-Trichloroethane	The state of the s	0.669	0.200	**	**	**	**	и	n	
Trichloroethene Trichlorofluoromethane ND 0.500 " " " " " " " " " " " " " " " " " "		ND	0.200	**	•	н		u	ti .	
Trichlorofluoromethane ND 0.500 " " " " " " " " " 1 1 1 1 1 1 1 1 1 1		385	0.200	п	11		**	ü	H	F
1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene ND 0.589 0.200 " " " " " " " " " " " " " " " " " "		ND	0.500	ır		11	H	и	11	_
1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene ND 0.500 " " " " " " " " " " " " " " " " " "		ND	0.500	и	n	11	**	"	"	
1,3,5-Trimethylbenzene		0.589	0.200	**	н	Эн	11	II.	ii	
Vinyl chloride 42.5 0.200 """"""""""""""""""""""""""""""""""""		ND	0.500	If	II	п	**	n	n	
1.09 0.500			0.200	u	н	n	"	-	ũ	F
1.01 0.250 "				"		u	н	11	ű.	2
Surrogate: Toluene-d8 168 % 80-120 " " " " " " " " " " " " " " " " " " "				**	*1	"	tr	111	/ H	
Surrogate: Toluene-d8 168 % 80-120 " " " " " " " " " " " " " " " " " " "	Surrogate: 1,2-DCA-d4	86.8 %	77-133			"	"	"	n .	
Surrogate: 4-BFB 92.0 % 80-120 " " " " " " " Acetone ND 50000 " 2000 1H07035 08/07/01 08/07/01 " " " " " " Benzene ND 2000 " " " " " " " " " " " " " " " " " " " " Bromobenzene ND 2000 " " " " " " " " " " " " " " " " " " " " " " " Bromochloromethane ND 2000 " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " "		168 %	30-120			"	"	"	"	S-04
ND S0000 2000 1H07035 08/07/01 08/07/01	9	92.0 %	80-120			"	"	"	"	
ND 2000 "	and the second s	ND	50000	tt	2000	1H07035	08/07/01	08/07/01	: II	
Bromobenzene ND 2000 "		ND	2000	II.	**	H	н	н	8 11	
Bromochloromethane ND 2000 "		ND	2000	10	w		"	"	11	
Bromodichloromethane ND 2000 " <td></td> <td></td> <td></td> <td>11</td> <td>11</td> <td>Ħ</td> <td>11</td> <td>н</td> <td>u</td> <td></td>				11	11	Ħ	11	н	u	
Bromoform ND 2000 " <				n	11	n n	"	n	H	
Bromomethane ND 4000 " " " " " " " " " " " " " " " " "				"	u -			.11	an c	
2-Butanone ND 20000 " " " " " "				HS	11	.0.	N	**	н	
				H	11	17		п	rt	
n Butylhenzene ND 2000 " " " " " "	n-Butylbenzene	ND	2000				,,	11	11	

North Creek Analytical - Bothell



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Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

			K Allai	yucai - E				S. 4 - 2	
Analyte	R Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (B1G0573-03) Water	Sampled: 07/24/01 11:15	Received	1: 07/24/0	1 16:10					
sec-Butylbenzene	ND	2000	ug/l	2000	1H07035	08/07/01	08/07/01	EPA 8260B	
tert-Butylbenzene	ND	2000	п	H	**	2007	"		
Carbon disulfide	ND	2000	н	н	"	11	u		
Carbon tetrachloride	ND	2000	i i	H	11	n	н	"	
Chlorobenzene	ND	2000	"	"	11	31	n	"	
Chloroethane	ND	2000	11	"	**	NO.	п	"	
Chloroform	ND	2000	"	н	16	11	3112	11	
Chloromethane	ND	10000	"	**	"	**	11	"	
2-Chlorotoluene	ND	2000	**	и	"	ir.	"	"	
4-Chlorotoluene	ND	2000	"	**	"	*1	H	11	
Dibromochloromethane	ND	2000	"	**	**	*1	11	'n	
1,2-Dibromo-3-chloropropane	ND	10000	"		"	0	"	"	
1,2-Dibromoethane	ND	2000	n	"	"	H	(11)	н	
hromomethane	ND	2000	и	"	"	**	10.	**	
Dichlorobenzene	ND	2000	11	u	"		п	п	
1,3-Dichlorobenzene	ND	2000	11	**	u	**	"	n	
1,4-Dichlorobenzene	ND	2000	(11)	"	"	**	Ħ	**	
Dichlorodifluoromethane	ND	2000	W	"	"	"	**	n	
1,1-Dichloroethane	ND	2000	н	0	м	**	**	45	
1,2-Dichloroethane	ND	2000	"	9	II.	**	Ħ	30	
1,1-Dichloroethene	ND	2000	"	н	11	11	"	и	
cis-1,2-Dichloroethene	ND	2000	u	"	11	11.	"	н	
trans-1,2-Dichloroethene	ND	2000	.11	II.	11	11	_"	н	
1,2-Dichloropropane	ND	2000	**	"	11		"	11	
1,3-Dichloropropane	ND	2000	Ħ	***	11*	п	11	्स	
2,2-Dichloropropane	ND	2000	н	"	"	"	n	n	
1,1-Dichloropropene	ND	2000	"	11	н	"	u	11	
cis-1,3-Dichloropropene	ND ·	2000	310	**	"	11	н	n	
trans-1,3-Dichloropropene	ND	2000	н	"	**	н	11	n	
	ND	2000	17	"	11.	**	эн	ાત	
Ethylbenzene Hexachlorobutadiene	ND	2000	н	11	**	11	н		
	ND	20000	"	11	1r	m	н	**	
2-Hexanone	ND	2000	u	**	11	•	н		
Isopropylbenzene	ND	2000		**	н	н	**		
p-Isopropyltoluene	ND	10000	**			0	н	i n	
Methylene chloride	ND	20000	11	**	**	••	"		
4-Methyl-2-pentanone	ND ND	2000	н	,,		"	11	"	
Naphthalene		2000	11		.,	"	п	,,	
n-Propylbenzene	ND	2000							

Th Creek Analytical - Bothell

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Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (B1G0573-03) Water	Sampled: 07/24/01 11:1:	5 Receive	d: 07/24/0	1 16:10					
Styrene	ND	2000	ug/l	2000	1H07035	08/07/01	08/07/01	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	2000	"	**	**	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2000	п	н	н	11	**	**	
Tetrachloroethene	47700	2000	**	"	н	н	н	, u	
Toluene	ND	2000	**	n	n	**	**	n	
1,2,3-Trichlorobenzene	ND	2000	Ħ	п	**	H		n	
1,2,4-Trichlorobenzene	ND	2000		**	, и	IT	н	11	
1,1,1-Trichloroethane	ND	2000	n	**	**	11	11		
1,1,2-Trichloroethane	ND	2000	11	"	**	n	п	er .	
Trichloroethene	ND	2000	11	**	11	**	11	"	
Trichlorofluoromethane	ND	2000	u	**	н	ir.	"	100	
1,2,3-Trichlorepropane	ND	2000	н	u	11		н	in.	
1,2,4-Trimethylbenzene	ND	2000	n.	n:	3113	n	н	2. 100	
¹ ² ,5-Trimethylbenzene	ND	2000	н	mo	n	11	H		
.yl chloride	ND	2000	п	и	10		н	w	
n,p-Xylene	ND	4000	U	п	11	"	"	11	
-Xylene	ND	2000	**	**	u	"	II .	"	
Surrogate: 1,2-DCA-d4		3-137			"	"	"	"	
Surrogate: Toluene-d8		5-124			,,	"	"	"	
Surrogate: 4-BFB		7-120			,,	<i>n</i> :	'n	и	
			and, 07/24/	01.16.10					
P072401 (B1G0573-04) Water									
Acetone	ND	12500	ug/l	500	1H07035	08/07/01	08/07/01	EPA 8260B	
Benzene	ND	500	н	"		***	**	in.	
Bromobenzene	ND	500	"	н	н	319	u	"	
Bromochloromethane	ND	500	"	н	"	ш	н	н	
Bromodichloromethane	ND	500	"	"	. "	п	n	"	
Bromoform	ND	500	**	н	v	11	H	n	
Bromomethane	ND	1000	"	"	"	**	н	н	
2-Butanone	ND	5000	Ħ		n	.11	ir.	m .	
n-Butylbenzene	ND	500	***		II.	и	п	"	
sec-Butylbenzene	ND	500	н	**	"	H	11	n .	
tert-Butylbenzene	ND	500	,	"	U	"	n	11	
Carbon disulfide	ND	500	**	n	н	11	n	II.	
	ND	500	**	"	11	u	н	•	
Carbon tetrachloride									
Carbon tetrachloride Chlorobenzene	ND	500	"	н	"	н	**	H	
		500 500	"	"	"	"	"	11	

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Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

		Reporting	1000		D. d. I	Department of	Analyzed	Method	Notes
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	
P072401 (B1G0573-04) Water	Sampled: 07/24/01 12	:45 Receiv	ed: 07/24	/01 16:10			- Approximate to the second		
Chloromethane	ND	2500	ug/l	500	1H07035	08/07/01	08/07/01	EPA 8260B	
2-Chlorotoluene	ND	500	"	н	n	**	**		
4-Chlorotoluene	ND	500	**		"		,,		
Dibromochloromethane	ND	500	н	н	91	,,	"		
1,2-Dibromo-3-chloropropane	ND	2500	"	"	и	**	"	н	
1,2-Dibromoethane	ND	500	u	11	"				
Dibromomethane	ND	500	**	n	"	11	"		
1,2-Dichlorobenzene	ND	500	п	"	ır	11		**	
1,3-Dichlorobenzene	ND	500	***	.11	11	"			
1,4-Dichlorobenzene	ND	500	н	u	ŧf	n	"		
Dichlorodifluoromethane	ND	500	**	н	"	"	IT		
1,1-Dichloroethane	ND	500			**	"	"	**	
1,2-Dichloroethane	ND	500	Ü	**	u	10	11	u	
1.2-Dichloroethene	ND	500		11	"	H	н	**	
1,2-Dichloroethene	ND	500	m	"	**	11	AT.		
trans-1,2-Dichloroethene	ND	500	11	н	11	**	II.	"	
	ND	500	••	w	. 11	u u	.11	"	
1,2-Dichloropropane	ND	500	**	н	.0	Ħ	**	и	
1,3-Dichloropropane	ND	500		11	11	11	n	ii	
2,2-Dichloropropane	ND	500	11	н	U	-11	- 31	n	
1,1-Dichloropropene	ND	500	. 11	**	"	**	"	ni	
cis-1,3-Dichloropropene	ND	500	н	н	и	н	n	ar I	
trans-1,3-Dichloropropene	ŅD	500	**	111	•	н	."	n	
Ethylbenzene	ND	500		п	u	**	ű		
Hexachlorobutadiene	ND	5000	n	11	н	11	"	н	
2-Hexanone		500		"	н	ч	11	tt	
Isopropylbenzene	ND	500	**		**	"	,,	(10)	
p-Isopropyltoluene	ND			2 11	"	**	11	11	
Methylene chloride	ND	2500	**	11	n	n		11	
4-Methyl-2-pentanone	ND	5000	и	"	н	,,		**	
Naphthalene	ND	500		"	**	**		11	
n-Propylbenzene	ND	500	11	"	"	n	11	•	
Styrene	ND	500	**			,,	"	**	
1,1,1,2-Tetrachloroethane	ND	500	"	**		n	11	n	
1,1,2,2-Tetrachloroethane	ND	500	"	**	**				
Tetrachloroethene	16700	500	**	н	"	**	"		
Toluene	ND	500	н	"	"	"	**	"	
1,2,3-Trichlorobenzene	ND	500	"	.11	п	н	"	11	
1,2,4-Trichlorobenzene	ND	500	tr	"	**	н	н	*	

Trth Creek Analytical - Bothell

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North Creek Analytical, Inc. **Environmental Laboratory Network** Page 19 of 27



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541.383.9310 fax 541.382.7588

Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
P072401 (B1G0573-04) Water	Sampled: 07/24/01	12:45 Receiv	ved: 07/24/	01 16:10					
1,1,1-Trichloroethane	ND	500	ug/l	500	1H07035	08/07/01	08/07/01	EPA 8260B	
1,1,2-Trichloroethane	ND	500	н		11	11	"	*	
l'richloroethene	ND	500	н	н	н	**	n.	II tt	
Trichlorofluoromethane	ND	500	ii .	н	"			er ion	
1,2,3-Trichloropropane	ND	500	**	.11.		н	η	0	
1,2,4-Trimethylbenzene	ND	500	m	n.	-10	11	**		
1,3,5-Trimethylbenzene	ND	500		**	**	п	n	11	
Vinyl chloride	ND	500	и	**	**	п	11	11	
n,p-Xylene	ND	1000	n	FF .	**	**	11	п	
o-Xylene	ND	500		п	H	н	n	en e	
Surrogate: 1,2-DCA-d4	115 %	73-137			"	"	"	н	
Surrogate: Toluene-d8	100 %	75-124			"	"	"	177	
Surrogate: 4-BFB	99.0 %	77-120			"	"	"	"	

Th Creek Analytical - Bothell

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Scott A. Woerman, Project Manager

North Creek Analytical, Inc. Environmental Laboratory Network

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Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Project: American Linen/Seattle

600 Stewart Street, Suite 1420

Geo Engineers - Seattle

Seattle WA, 98101

Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC		RPD
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit Notes
Batch 1H06042: Prepared 08/06/01	Using EI	A 5030B	[P/T]						
Blank (1H06042-BLK1)									
cetone	ND	25.0	ug/l						
Benzene	ND	0.200	"						
Bromobenzene	ND	0.500	**						
Bromochloromethane	ND	0.200	"						
Bromodichloromethane	ND	0.200	"						
Bromoform	ND	0.200	н						
Bromomethane	ND	2.00	н						
-Butanone	ND	2.00	н						
-Butylbenzene	ND	0.200	**						
ec-Butylbenzene	ND	0.200	н						
ert-Butylbenzene	ND	0.500	11						
-bon disulfide	ND	0.500	H.						
oon tetrachloride	ND	0.200	н						
Chlorobenzene	ND	0.200	n						
Chloroethane	ND	1.00	u						
Chloroform	ND	0.200	п						
Chloromethane	ND	1.00	**						
-Chlorotoluene	ND	0.500	"						
-Chlorotoluene	ND	0.500							
Dibromochloromethane	ND	0.200	H				_		
,2-Dibromo-3-chloropropane	ND	0.500	316						
,2-Dibromoethane	ND	0.200	n						
Dibromomethane	ND	0.200	H						
,2-Dichlorobenzene	ND	0.200	н						
,3-Dichlorobenzene	ND	0.200	н						
,4-Dichlorobenzene	ND	0.200							
Dichlorodifluoromethane	ND	0.500	"						
1,1-Dichloroethane	ND	0.200	и						
1,2-Dichloroethane	ND	0.200	**						
1,1-Dichloroethene	ND	0.200	п						
cis-1,2-Dichloroethene	ND	0.200	•						
rans-1,2-Dichloroethene	ND	0.200	"						
rans-1,2-Dictionoccinente	ND	0.200	-11						

North Creek Analytical - Bothell



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Geo Engineers - Seattle

500 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report

Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1H06042:]	Prepared 08/06/01	Using El	A 5030B	[P/T]							
Blank (1H06042-BLK	(1)										
2,2-Dichloropropane		ND	0.500	ug/l							
1.1-Dichloropropene		ND	0.200	п							
cis-1,3-Dichloropropene		ND	0.200	**							
trans-1,3-Dichloropropene		ND	0.200	*1							
Ethylbenzene		ND	0.200	**							
Hexachlorobutadiene		ND	0.500	п							
2-Hexanone		ND	2.00	**							
Isopropylbenzene		ND	0.500	**							
p-Isopropyltoluene		ND	0.200	tt							
Methylene chloride		ND	5.00	r							
4-Methyl-2-pentanone		ND	2.00	n							
Nanhthalene		ND	0.500	11							
opylbenzene		ND	0.500	n							
ltyrene		ND	0.500	11							
,1,1,2-Tetrachloroethane		ND	0.200	н							
1,1,2,2-Tetrachloroethane		ND	0.500	**							
Tetrachloroethene		ND	0.200	n							
Toluene		ND	0.200	n							
1,2,3-Trichlorobenzene		ND	0.200	u							
1,2,4-Trichlorobenzene		ND	0.200	"							
1,1,1-Trichloroethane		ÑD	0.200	н				-			
1,1,2-Trichloroethane		ND	0.200	"		3					
Trichloroethene		ND	0.200	11							
Trichlorofluoromethane		ND	0.500	11							
1,2,3-Trichloropropane		ND	0.500	11							
1,2,4-Trimethylbenzene		ND	0.200	ш							
1,3,5-Trimethylbenzene		ND	0.500	11							
Vinyl chloride		ND	0.200	n							
m,p-Xylene		ND	0.500	**							
o-Xylene		ND	0.250	H							
Surrogate: 1,2-DCA-d4		4.13		"	4.00		103	77-133			
Surrogate: Toluene-d8		4.12		n	4.00		103	80-120			
Surrogate: 4-BFB		4.13		"	4.00		103	80-120			

North Creek Analytical - Bothell

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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1H06042:	Prepared 08/06/01	Using El	PA 5030B	[P/T]							
LCS (1H06042-BS1)											
Benzene		1.96	0.200	ug/l	2.00		98.0	80-130			
Chlorobenzene	(i)	1.99	0.200	н	2.00		99.5	80-120			
1,1-Dichloroethene		2.28	0.200	"	2.00		114	80-120			
Toluene		1.88	0.200	**	2.00		94.0	80-120			
Frichloroethene	84	2.03	0.200	n.	2.00		102	70-130			
Surrogate: 1,2-DCA-d4		4.11		"	4.00		103	77-133			
Surrogate: Toluene-d8		3.81		"	4.00		95.2	80-120			
Surrogate: 4-BFB		4.05		"	4.00		101	80-120			
LCS Dup (1H06042-	BSD1)							00.111			
Benzene		1.91	0.200	ug/l	2.00		95.5	80-130	2.58	20	
Chlorobenzene		1.92	0.200	"	2.00		96.0	80-120	3.58	20	
Dichloroethene		2.00	0.200	**	2,00		100	80-120	13.1	30	
Joluene		1.95	0.200	"	2.00		97.5	80-120	3.66	20	
Trichloroethene		1.98	0.200	•	2.00		99.0	70-130	2.49	20	
Surrogate: 1,2-DCA-d4		4.03		"	4.00		101	77-133			
Surrogate: Toluene-d8		4.04		"	4.00	•	101	80-120			
Surrogate: 4-BFB		3.91		"	4.00		97.8	80-120			
Batch 1H07035:	Prepared 08/07/01	Using E	PA 5030B	[P/T]							
Blank (1H07035-BL	K1)							_			
Acetone		ND	25.0	ug/l							
Benzene	10	ND	1.00	Ħ							
Bromobenzene		ND	1.00	H							
Bromochloromethane		ND	1.00	***							
Bromodichloromethane		ND	1.00	н							
Bromoform		ND	1.00	**							
Bromomethane		ND	2.00	н							
2-Butanone		ND	10.0	.00						30	
n-Butylbenzene		ND	1.00	**							
		ND	1.00	n							
sec-Butylbenzene		ND	1.00	**						20	
tert-Butylbenzene		ND	1.00								
Carbon disulfide		ND	1.00	**							
		111									
Carbon tetrachloride Chlorobenzene		ND	1.00	u							

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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

		Reporting			Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD		Notes
Batch 1H07035:	Prepared 08/07/01	Using EP	A 5030B	[P/T]							
Blank (1H07035-BL	K1)										
Chloroethane		ND	1.00	ug/l							
Chloroform		ND	1.00								
Chloromethane		ND	5.00	ü							
2-Chlorotoluene		ND	1.00	**							
4-Chlorotoluene		ND	1.00	U							
Dibromochloromethane		ND	1.00	п							
1,2-Dibromo-3-chloropro	ppane	·ND	5.00								
1,2-Dibromoethane		ND	1.00	n							
Dibromomethane		ND	1.00	п							
1,2-Dichlorobenzene		ND	1.00	п							
1,3-Dichlorobenzene		ND	1.00	11							
'-Dichlorobenzene		ND	1.00	11							
alorodifluoromethane		ND	1.00	n							
1,1-Dichloroethane		ND	1.00	"							
1,2-Dichloroethane		ND	1.00	н							
l, l-Dichloroethene		ND	1.00	"							
cis-1,2-Dichloroethene		ND	1.00	ж							
rans-1,2-Dichloroethene	:	ND	1.00	н							
,2-Dichloropropane		ND	1.00	11							
,3-Dichloropropane		ND	1.00	er							
2,2-Dichloropropane		ND	1.00	"				-			
,1-Dichloropropene		ND	1.00								
is-1,3-Dichloropropene		ND	1.00	"							
rans-1,3-Dichloropropen	e	ND	1.00	*							
Ethylbenzene		ND	1.00	tt							
Hexachlorobutadiene		ND	1.00	н							
-Hexanone		ND	10.0	**							
sopropylbenzene		ND	1.00								
-Isopropyltoluene		ND	1.00	n							
Aethylene chloride		ND	5.00	**							
-Methyl-2-pentanone		ND	10.0	**							
Vaphthalene		ND	1.00	н							
-Propylbenzene		ND	1.00	n							
tyrene		ND	1.00	**							

Th Creek Analytical - Bothell

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Scott A. Woerman, Project Manager

North Creek Analytical, Inc. **Environmental Laboratory Network**

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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

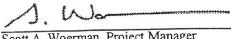
Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

		Reporting			Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1H07035:	Prepared 08/07/01	Using El	PA 5030B [P/T]							
Blank (1H07035-BL	K1)										
1,1,1,2-Tetrachloroethan	16	ND	1.00	ug/l							
1,1,2,2-Tetrachloroethau	ne	ND	1.00	11							
Tetrachloroethene		ND	1.00	н							
Toluene		ND	1.00	н							
1,2,3-Trichlorobenzene		ND	1.00	"							
1,2,4-Trichlorobenzene		ND	1.00	**							
1,1,1-Trichloroethane		ND	1.00	**							
1,1,2-Trichloroethane		ND	1.00	91							
Trichloroethene		ND	1.00	н							
Trichlorofluoromethane		ND	1.00	н							
1,2,3-Trichloropropane		ND	1.00	n							
1 2 4-Trimethylbenzene		ND	1.00	n							
5-Trimethylbenzene		ND	1.00	H							
Vinyl chloride		ND	1.00	"							
m,p-Xylene		ND	2.00	u							
o-Xylene		ND	1.00	**							
Surrogate: 1,2-DCA-d4		23.8		н	20.0		119	73-137			
Surrogate: Toluene-d8		19.5		"	20.0		97.5	75-124			
Surrogate: 4-BFB		21.1		"	20.0		106	77-120			
LCS (1H07035-BS1)											
Benzene		9.85	1.00	ug/l	10.0		98.5	80-120			
Chlorobenzene		10.3	1.00	**	10.0		103	77-120			
1,1-Dichloroethene		9.36	1.00	n	10.0		93.6	80-120			
Toluene		9.63	1.00	н	10.0		96.3	80-120			
Trichloroethene		10.2	1.00	n	10.0	2000	102	80-120			
Surrogate: 1,2-DCA-d4		23.4		"	20.0	*	117	73-137			
Surrogate: Toluene-d8		19.9		n	20.0		99.5	75-124			
Surrogate: 4-BFB		21.2		"	20.0		106	77-120			

th Creek Analytical - Bothell





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541.383.9310 fax 541.382.7588

Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1H07035:	Prepared 08/07/01	Using El	A 5030B	[P/T]							
LCS Dup (1H07035-	BSD1)										
Benzene		10.3	1.00	ug/l	10.0		103	80-120	4.47	20	
Chlorobenzene		10.8	1.00	**	10.0		108	77-120	4.74	. 20	
1,1-Dichloroethene		9.73	1.00	н	10.0		97.3	80-120	3.88	20	
Toluene		10.1	1.00	н	10.0		101	80-120	4.76	20	
Trichloroethene		10.6	1.00	"	10.0		106	80-120	3.85	20	
Surrogate: 1,2-DCA-d4		23.9		"	20.0		120	73-137			
Surrogate: Toluene-d8		19.9		"	20.0		99.5	75-124			
Surrogate: 4-BFB		20.8		"	20.0		104	77-120			
Matrix Spike (1H070	35-MS1)		5544 Tell (1984) 55 - 1282 State (1984)			Source: B	1H0097-0)2			
Benzene		9.76	1.00	ug/l	10.0	ND	97.6	75-125			
Chlorobenzene		9.56	1.00	***	10.0	ND	95.6	75-125			
Dichloroethene		8.96	1.00	H	10.0	ND	89.6	40-154			
Joinene		9.18	1.00	"	10.0	ND	89.0	72-125			
Trichloroethene		9.71	1.00	"	10.0	ND	97.1	73-131			
Surrogate: 1,2-DCA-d4		22.4		"	20.0		112	73-137			
Surrogate: Toluene-d8		20.2		"	20.0		101	75-124			
Surrogate: 4-BFB		20.4		"	20.0		102	77-120			
Matrix Spike Dup (1)	H07035-MSD1)					Source: B	1H0097-0	02			
Benzene		10.7	1.00	ug/l	10.0	ND	107	75-125	9.19	20	
Chlorobenzene		10.5	1.00	**	10.0	ND	105	75-125	9.37	20	
1,1-Dichloroethene	×	9.77	1.00	**	10.0	ND	97.7	40-154	8.65	30	
Toluene		10.1	1.00	n	10.0	ND	98.2	72-125	9.54	20	
Trichloroethene		10.5	1.00	н	10.0	ND	105	73-131	7.82	20	
Surrogate: 1,2-DCA-d4		22.7		n .	20.0		114	73-137			
Surrogate: Toluene-d8		20.1		"	20.0		100	75-124			
Surrogate: 4-BFB		20.2		"	20.0		101	77-120			

Th Creek Analytical - Bothell

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Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Amended Report Issued: 08/27/01 13:21

Notes and Definitions

Analyte detected in the method blank. В

Estimated value. The reported value exceeds the calibration range of the analysis. E

The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. S-04

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

Not Reported NR

Geo Engineers - Seattle

Seattle WA, 98101

600 Stewart Street, Suite 1420

Sample results reported on a dry weight basis dry

Relative Percent Difference RPD

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FAX 420-9210 FAX 924-9290 FAX 906-9210 FAX 382-7588 (425) 420-yeur (541) 383-9310 (509) 924-9200 (503) 906-9200

20332 Empire Avenue, Suite F-1, Bend, OR 97701-571

TURNAROUND REQUEST in Business Days *Tumaround Requests less than standard may incur Rush Charge DATE: 7 TIME DATE: Petroleum Hydrocarbon Analyses COMMENTS Please Specify 5 4 3 OTHER CONT. FIRM: NCA # OF n deock & groom (W, S, O) MATRIX Work Order #: X me look @ PRINTINAME: PRANT REQUESTED ANALYSES RECEIVED BOTO RECEIVEDBY PRINT NAME: CHAIN OF CUSTODY REPORT 0 Feare C-mark tox rounts to FAX: 406-728 -2737 P.O. NUMBER: INVOICE TO: DATE TIME: DATE: TIME: 1230 DATE/TIME SAMPLING 7/24/61 ise colone CLIENT SAMPLE IDENTIFICATION ADDITIONAL REMARKS: PROJECT NUMBER: MW-3 RELINQUISHED BY: PHONE: 48 e-mu PROJECT NAME: RELINQUISHED BY: PRINT NAME: 4. P07340 SAMPLED BY: REPORT TO: PRINT NAME: ADDRESS: CLIENT

10.

12. 13 COC REV



24 August 2001

Dave Cook
Geo Engineers - Seattle
600 Stewart Street, Suite 1420
Seattle, WA 98101
RE: American Linen/Seattle

Enclosed are the results of analyses for samples received by the laboratory on 08/21/01 12:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

1. W-

Scott A. Woerman Project Manager

AUG 2 7 2001



509.924.9200 fax 509.924.9290 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

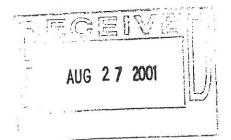
Project Number: 8673-001-01 Project Manager: Dave Cook

Reported:

08/24/01 19:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	
	B1H0455-01	Soil	08/17/01 12:00	08/21/01 12:25	
Comp081701					



Firth Creek Analytical - Bothell

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Scott A. Woerman, Project Manager

North Creek Analytical, Inc. **Environmental Laboratory Network** Page 1 of 12



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Geo Engineers - Seattle

600 Stewart Street, Suite 1420 Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported: 08/24/01 19:14

Physical Parameters by APHA/ASTM/EPA Methods North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch -	Prepared	Analyzed	Method	Notes
Comp081701 (B1H0455-01) Soil	Sampled: 08/17/01	12:00 Rec	eived: 08/2	21/01 12:25					
Dry Weight	68.3	1.00	%	1	1H23008	08/23/01	08/24/01	BSOPSPL003R07	

th Creek Analytical - Bothell

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Scott A. Woerman, Project Manager

North Creek Analytical, Inc. **Environmental Laboratory Network**

Page 4 of 12



Portland

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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

Project Manager: Dave Cook

Reported: 08/24/01 19:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1H23046: Prepared 08/23/01	Using I	EPA 5030B	[P/T]							
Blank (1H23046-BLK1)										
Acetone	ND	1.00	mg/kg							
Benzene	ND	0.100	"							
Bromobenzene	ND	0.100	**							
Bromochloromethane	ND	0.100	"							
Bromodichloromethane	ND	0.100	n							
Bromoform	ND	0.100	**							
Bromomethane	ND	0.100	u							
2-Butanone	ND	1.00	311							
n-Butylbenzene	ND	0.100	**							
sec-Butylbenzene	ND	0.100	**							
tert-Butylbenzene	ND	0.100	11							
Son disulfide	ND	0.100	11							
carbon tetrachloride	ND	0.100	NO.							
Chlorobenzene	ND	0.100	***							
Chloroethane	ND	0.100	и							٠
Chloroform	ND	0.100	n							
Chloromethane	ND	0.500	"							
2-Chlorotoluene	ND	0.100	н							
4-Chlorotoluene	ND	0.100	"							
Dibromochloromethane	ND	0.100	· i							
1,2-Dibromo-3-chloropropane	ND	0.500	**							
1,2-Dibromoethane	ND	0.100	"							
Dibromomethane	ND	0.100	ij							
1,2-Dichlorobenzene	ND	0.100	**							
1,3-Dichlorobenzene	ND	0.100	**							
1,4-Dichlorobenzene	ND	0.100	M							
Dichlorodifluoromethane	ND	0.100	11							
1,1-Dichloroethane	ND	0.100	н							
1,2-Dichloroethane	ND	0.100	**							
1,1-Dichloroethene	ND	0.100	**							
cis-1,2-Dichloroethene	ND	0.100	n							
trans-1,2-Dichloroethene	ND	0.100	3 91			120				
1,2-Dichloropropane	ND	0.100	n							
1,3-Dichloropropane	ND	0.100	111							

th Creek Analytical - Bothell



Portland 9405 SW Nimbus Avenue, Beaverton, UR 97008-7132 503.906.9200 fax 503.906.9210 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported: 08/24/01 19:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1H23046: Prepared 08/23/01	Using E	PA 5030B	[P/T]				1			
Blank (1H23046-BLK1)										
2,2-Dichloropropane	ND	0.100	mg/kg							
1,1-Dichloropropene	ND	0.100	"							
cis-1,3-Dichloropropene	ND	0.100	11							
trans-1,3-Dichloropropene	ND	0.100	**							
Ethylbenzene	ND	0.100	п							
Hexachlorobutadiene	ND	0.100	n							
2-Hexanone	ND	1.00	**							
Isopropylbenzene	ND	0.100	**							
p-Isopropyltoluene	ND	0.100	111							
Methylene chloride	ND	1.00	**							
4-Methyl-2-pentanone	ND	1.00	n							
hthalene	ND	0.100	•							
ropylbenzene	ND	0.100	11							
Styrene	ND	0.100	н							
1,1,2-Tetrachloroethane	ND	0.100	**							
1,1,2,2-Tetrachloroethane	ND	0.100	п							
Tetrachloroethene	ND	0.100	n							
Toluene	ND	0.100	H.C							
1,2,3-Trichlorobenzene	ND	0.100	•							
1,2,4-Trichlorobenzene	ND	0.100	H.							
1,1,1-Trichloroethane	ND	0.100	n							
1,1,2-Trichloroethane	ND	0.100	n							
Trichloroethene	ND	0.100	н							
Trichlorofluoromethane	ND	0.100	н							
1,2,3-Trichloropropane	ND	0.100	11							
1,2,4-Trimethylbenzene	ND	0.100	n							
1,3,5-Trimethylbenzene	ND	0.100	n							
Vinyl chloride	ND	0.100	n							
m,p-Xylene	ND	0.200	н							
o-Xylene	ND	0.100	"							
Surrogate: 1,2-DCA-d4	4.71		"	4.00		118	57-139	W. C. C. W. (N. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10		
Surrogate: Toluene-d8	4.26		"	4.00		106	66-122			
Surrogate: 4-BFB	4.16		"	4.00		104	62-121			

th Creek Analytical - Bothell

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North Creek Analytical, Inc. **Environmental Laboratory Network**

Page 6 of 12



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541.383.9310 fax 541.382.7588

Geo Engineers - Seattle

Project: American Linen/Seattle

600 Stewart Street, Suite 1420 Seattle WA, 98101

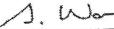
Project Number: 8673-001-01 Project Manager: Dave Cook

Reported: 08/24/01 19:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source	0 1000 (automatical trans	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1H23046: Prepared 08/23/0	1 Using E	PA 5030B	[F/T]							
Blank (1H23046-BLK2)										
Acctone	ND	1.00	mg/kg							
Benzene	ND	0.100	n							
Bromobenzene	ND	0.100	H							
Bromochloromethane	ND	0.100	11							
Bromodichloromethane	ND	0.100	"							
Bromoform	ND	0.100								
Bromomethane	ND	0.100	u							
2-Butanone	ND	1.00	"							
n-Butylbenzene	ND	0.100								
sec-Butylbenzene	ND	0.100	H							
tert-Butylbenzene	ND	0.100	n:							
Son disulfide	ND	0.100	"							
bon tetrachloride	ND	0.100	**							
Chlorobenzene	ND	0.100	"							
Chloroethane	·ND	0.100	"							
Chloroform	ND	0.100	"							
Chloromethane	ND	0.500	"							
2-Chlorotoluene	ND	0.100	"							
4-Chlorotoluene	ND	0.100								
Dibromochloromethane	ND	0.100								
1,2-Dibromo-3-chloropropane	ND	0.500								
1,2-Dibromoethane	ND	0.100	"							
Dibromomethane	ND	0.100	н							
1,2-Dichlorobenzene	ND	0.100								
1,3-Dichlorobenzene	ND	0.100	"							
1,4-Dichlorobenzene	ND	0.100	**							
Dichlorodifluoromethane	ND	0.100	"							
1,1-Dichloroethane	ND	0.100	"							
1,2-Dichloroethane	ND	0.100	"							
1,1-Dichloroethene	ND	0.100	н							
cis-1,2-Dichloroethene	ND	0.100	**							
trans-1,2-Dichloroethene	ND	0.100	н							
1,2-Dichloropropane	ND	0.100	"							
1,3-Dichloropropane	ND	0.100	n							

th Creek Analytical - Bothell





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20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

Project Manager: Dave Cook

Reported:

08/24/01 19:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1H23046: Prepared 08/23/01	Using E	PA 5030B	[P/T]	365 N. S.						
Blank (1H23046-BLK2)			2							
2,2-Dichloropropane	ND	0.100	mg/kg							
1,1-Dichloropropene	ND	0.100	"							
cis-1,3-Dichloropropene	ND	0.100	"					50		
trans-1,3-Dichloropropene	ND	0.100	"							
Ethylbenzene	ND	0.100	"							
Hexachlorobutadiene	ND	0.100	***							
2-Hexanone	. ND	1.00	ü							
Isopropylbenzene	ND	0.100	*1							
p-Isopropyltoluene	ND	0.100	ü							
Methylene chloride	ND	1.00	11							
4-Methyl-2-pentanone	ND	1.00	**							
hthalene	ND	0.100	**							
1. 1 ropylbenzene	ND	0.100	"							
Styrene	ND	0.100	**							
1,1,1,2-Tetrachloroethane	ND	0.100	15							
1,1,2,2-Tetrachloroethane	ND	0.100	n							
Tetrachloroethene	ND	0.100	311							
Toluene	ND	0.100	II .							
1,2,3-Trichlorobenzene	ND	0.100	10							
1,2,4-Trichlorobenzene	ND	0.100	**							
1,1,1-Trichloroethane	ND	0.100	17							
1,1,2-Trichloroethane	ND	0.100	**							
Trichloroethene	· ND	0.100	**							
Trichlorofluoromethane	ND	0.100	**							
1,2,3-Trichloropropane	ND	0.100	11							
1,2,4-Trimethylbenzene	ND	0.100	11							
1,3,5-Trimethylbenzene	ND	0.100	It							
Vinyl chloride	ND	0.100	н							
m,p-Xylene	ND	0.200	u							
o-Xylene	ND	0.100	N							
Surrogate: 1,2-DCA-d4	4.08		"	4.00		102	57-139			
Surrogate: Toluene-d8	4.31		"	4.00		108	66-122			
Surrogate: 4-BFB	4.05		"	4.00		101	62-121			

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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

Project Manager: Dave Cook

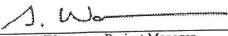
Reported: 08/24/01 19:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1H23046:	Prepared 08/23/01	Using EP	A 5030B	[P/T]							
LCS (1H23046-BS1)											
Benzene		1.00	0.100	mg/kg	1.00		100	73-133			
Chlorobenzene		0.990	0.100	**	1.00		99.0	69-130			
1,1-Dichloroethene		0.891	0.100	11	1.00		89.1	51-130			
Toluene .		0.951	0.100	"	1.00		95.1	68-130			
Trichloroethene		0.886	0.100	ш	1.00		88.6	66-135			
Surrogate: 1,2-DCA-d4		4.88		"	4.00		122	57-139			
Surrogate: Toluene-d8		4.20	2	"	4.00		105	66-122			
Surrogate: 4-BFB		4.10		"	4.00		102	62-121			
LCS Dup (1H23046-	-BSD1)										
Benzene		1.02	0.100	mg/kg	1.00		102	73-133	1.98	20	
Chlorobenzene		0.983	0.100	"	1.00		98.3	69-130	0.710	20	
Dichloroethene		0.964	0.100	n	1.00		96.4	51-130	7.87	20	
Toluene		0.986	0.100	"	1.00		98.6	68-130	3.61	20	
Trichloroethene		0.911	0.100	#1	1.00		91.1	66-135	2.78	20	
Surrogate: 1,2-DCA-d4		4.61		"	4.00		115	57-139			
Surrogate: Toluene-d8		4.23		"	4.00		106	66-122			
Surrogate: 4-BFB		4.04		"	4.00		101	62-121			
Matrix Spike (1H23	046-MS1)					Source: I	B1H0455-	01			
Benzene		1.17	0.100	mg/kg dry	1.46	ND	80.1	62-138			
Chlorobenzene		1.16	0.100	n	1.46	ND	79.5	56-132			
1,1-Dichloroethene		0.983	0.100	**	1.46	ND	67.3	41-131			
Toluene		1.14	0.100	и	1.46	ND	78.1	44-133			
Trichloroethene		1.19	0.100	**	1.46	0.137	72.1	61-139			
Surrogate: 1,2-DCA-d4		5.84		"	5.86		99.7	57-139			
Surrogate: Toluene-d8		5.59		"	5.86		95.4	66-122			
Surrogate: 4-BFB		5.33		"	5.86		91.0	62-121			

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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

Project Manager: Dave Cook

Reported: 08/24/01 19:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source	***************************************	%REC		RPD
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit Notes
Batch 1H23046:	Prepared 08/23/01	Using El	A 5030B	[P/T]						
Matrix Spike Dup (1H23046-MSD1)					Source: E	31 H 0455-	01		
Benzene		1.11	0.100	mg/kg dry	1.46	ND	76.0	62-138	5.26	25
Chlorobenzene		1.14	0.100	н	1.46	ND	78.1	56-132	1.74	25
1,1-Dichloroethene		0.893	0.100	**	1.46	ND	61.2	41-131	9.59	25
Toluene		1.09	0.100	11	1.46	ND	74.7	44-133	4.48	25
Trichloroethene		1.15	0.100	"	1.46	0.137	69.4	61-139	3.42	25
Surrogate: 1,2-DCA-d-	1	6.01		"	5.86		103	57-139		
Surrogate: Toluene-d8		5.54		"	5.86		94.5	66-122		
Surrogate: 4-BFB		5.24		"	5.86		89.4	62-121		

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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

Project Manager: Dave Cook

Reported:

08/24/01 19:14

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source	A/DEG	%REC	DDD	RPD	NT-4
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1H23008:	Prepared 08/23/01	Using Dr	y Weight								
Blank (1H23008-BI	LK1)			ė.							
Dry Weight		100	1.00	%							

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Scott A. Woerman, Project Manager

North Creek Analytical, Inc. Environmental Laboratory Network Page 11 of 12



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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

Project Manager: Dave Cook

Reported:

08/24/01 19:14

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

th Creek Analytical - Bothell

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Scott A. Woerman, Project Manager

North Creek Analytical, Inc. Environmental Laboratory Network

Page 12 of 12



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0024-424 (YUC) (503) 906-9200

3 906-9210 UK74-474 VWJ LAX 382-7588 (541) 383-9310

CHAIN OF CUSTODY REPORT

TURNAROUND REQUEST in Business D ~ .*Turnaround Requests less than standard may incur Rush C. DAT TIM DAT TIN Petroleum Hydrocarbon Analyses COMMENTS Please Specify Organic & Inorganic Analyses Work Order #: 81+10455 7 OTHER き CONT. 4 # OF r. 7 FIRM: FIRM: (W, S, O) MATRIX 10 SESTIC OFFICE INVOICE TO: DOUS (BOX RECEIVED BY: RECEIVED BY: PRINT NAME: PRINT NAME: REQUESTED ANALYSES DATE: \$ 120 / 1 1/100 TIME: Osse P.O. NUMBER: DATE: TIME: 1 D0958 S プログラール FIRM: FAX: DATE/TIME SAMPLING Lus Ton ADDRESS: CHES ENGINEERS, IN PROJECT NAME: AMERICA LUNGA PROJECT NUMBER: 3673 - col - c / 11/1/6 PHONE: 206 723 2674 1000 Sestie (UA SAMPLED BY: 650 1. CONZ (36) PRINT NAME: CORETS REPORT TO: DAJE CLIENT SAMPLE IDENTIFICATION 'L REMARKS: RELINQUISHED BY: RELINQUISHED BY: CLIENT: 60 PRINT NAME: ADL 200 10. 12. 13. 14 1. 6 ∞i



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3 August, 2001

Dave Cook Geo Engineers - Seattle 600 Stewart Street, Suite 1420 Seattle, WA 98101

RE: American Linen/Seattle

Enclosed are the results of analyses for samples received by the laboratory on 07/23/01 14:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Scott A. Woerman act Manager

> North Creek Analytical, Inc. Environmental Laboratory Network



 Spokane
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290

 Portland
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 Bend
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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

Project Manager: Dave Cook

Reported:

08/03/01 18:59

ANALYTICAL REPORT FOR SAMPLES

MW1-13-32.5 SB4-7-17.5 SB4-4-10	(8 8 8	B1G0503-04 B1G0503-07	Soil (87.18% dry wt.)	07/20/01 11:20	07/23/01 14:15
0 0 0 0		B1G0503-07			
SB4-4-10		2100000-07	Soil (83.62% dry wt.)	07/18/01 10:27	07/23/01 14:15
		B1G0503-06	Soil (90.68% dry wt.)	07/18/01 09:55	07/23/01 14:15
MW1-3-8	~	B1G0503-01	Soil (86.48% dry wt.)	07/20/01 08:56	07/23/01 14:15
MW1-8-20		B1G0503-02	Soil (88.04% dry wt.)	07/20/01 09:55	07/23/01 14:15
SB4-15-37.5		B1G0503-09	Soil (88.20% dry wt.)	07/18/01 14:10	07/23/01 14:15
MW1-11-27.5	•	B1G0503-03	Soil (91.34% dry wt.)	07/20/01 10:45	07/23/01 14:15
SB4-13-32.5		B1G0503-08	Soil (86.53% dry wt.)	07/18/01 13:55	07/23/01 14:15



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Geo Engineers - Seattle

600 Stewart Street, Suite 1420 Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported: 08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

MW1-3-8 (B1G0503-01) Soil Acetone Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform	Sample	0.214 ND ND ND ND	0.0650 0.0190 0.0140 0.0220	1.00 0.100 0.100	7/23/01 14 mg/kg dry	1	1G24032				
Benzene Bromobenzene Bromochloromethane Bromodichloromethane		ND ND ND ND	0.0190 0.0140 0.0220	0.100 0.100		1	1G24032				
Bromobenzene Bromochloromethane Bromodichloromethane		ND ND ND	0.0140 0.0220	0.100	н		1027032	07/24/01	07/24/01	EPA 8260B	
Bromochloromethane Bromodichloromethane		ND ND	0.0220			Ħ	er .	tr .	"	н	
Bromodichloromethane		ND			11	Ħ	"	н	Ħ	н	
				0.100	11	"		**	н	**	
Bromoform		NTTN.	0.0150	0.100	fi	**	*f	**	n	**	
		ND	0.00900	0,100	**	н	*1	**	н	н	
Bromomethane		ND	0.0230	0.100	**	H	**	**	n	n	
2-Butanone		ND	0.0720	1.00	11	н	**	.11	**	n	
n-Butylbenzene		ND	0.0180	0.100	11	11	m		**	**	
sec-Butylbenzene		ND	0.0180	0.100	n	**	101	н	"		
ert-Butylbenzene	2	ND	0.0180	0.100	11		н	"	tr .	**	
Carbon disulfide		ND	0.00700	0.100	h.	"	u		11	Ħ	
Carbon tetrachloride		ND	0.0150	0.100	**	u	u	н	11		
Tobenzene		ND	0.0150	0.100	н		u	н	"	: N	
roethane		ND	0.0140	0.100	11	**	u	n	н	(H)	
Chloroform		ND	0.0180	0.100	H		н	11	HE.	н	
Chloromethane		ND	0.0110	0.500	tt	H	#	#	11	**	
-Chlorotoluene		ND	0.0160	0.100	11	11	#	81	n		
4-Chlorotoluene		ND	0.0150	0.100	#10	"		**	"	н	
Dibromochloromethane		ND	0.0100	0.100	н	**	"	**	**	н	
,2-Dibromo-3-chloropropane		ND	0.0280	0.500	н	**	n	11	"	н	
,2-Dibromoethane		ND	0.0130	0.100	**	**	н	*	n		
Dibromomethane		ND	0.0180	0.100	11	H	**	310	11	**	
,2-Dichlorobenzene		ND	0.0150	0.100	'n	**	**	H	H	**	
,3-Dichlorobenzene		ND	0.0130	0.100	н	**	"	н	n	•	
,4-Dichlorobenzene		ND	0.0160	0.100	n	**	"	н	**	н	
Dichlorodifluoromethane		ND	0.0290	0.100	**	. н	11	11	"	н	
,1-Dichloroethane		ND	0.0200	0.100	H	**	"	11	"	n	
,2-Dichloroethane		ND	0.0250	0.100	"	**	11	*	**		
,1-Dichloroethene		ND	0.0140	0.100	11	*1	н	M:	**	ar :	
is-1,2-Dichloroethene		ND	0.0260	0.100	11	Ħ	н	**	**	11	
rans-1,2-Dichloroethene		ND	0.0130	0.100	**	н	н	H	н	н .	
,2-Dichloropropane		ND	0.0180	0.100	ff	n	"	"	"	н	
,3-Dichloropropane		ND	0.0140	0.100	"		н	. 11		n	
,2-Dichloropropane		ND	0.0140	0.100			**		"	**	
,1-Dichloropropene		ND	0.0130	0.100	u	н	н	st .	н	**	
is-1,3-Dichloropropene		ND	0.0220	0.100	**	н	н	н	"	,	
rans-1,3-Dichloropropene		ND	0.0140	0.100	**	н	**		n	**	

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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported: 08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	. MDL	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method		Notes
MW1-3-8 (B1G0503-01RE1) Soil	Sampled: 07	/20/01 08:56	Received	1: 07/23/0	1 14:15						
Ethylbenzene	ND	1.90	10.0 m	g/kg dry	100	1G24032	07/24/01	07/25/01	EPA 8260B		
Hexachlorobutadiene	ND	2.10	10.0	**	н	•	•	•	n		
2-Hexanone	ND	4.80	100	**	If	н	н	W	н		
Isopropylbenzene	ND	1.90	10.0	11	**	H	Ħ	H	"		
p-Isopropyltoluene	ND	1.70	10.0	**	н	**	**	"	n		
Methylene chloride	20.9	1.70	100	н	**	"	*1	"	n ·	()	В,
4-Methyl-2-pentanone	ND	6.50	100	11	**	n	*1	н	u		
Naphthalene	ND	1.40	10.0	11	**	11	n	**	,		
n-Propylbenzene	ND	1.60	10.0	11	311	11	S 71	H	*		
Styrene	ND	1.70	10.0	H	11	п	Ħ	н	•		
1,1,1,2-Tetrachloroethane	ND	1.50	10.0	H	n	н	н	**	**		
1,1,2,2-Tetrachloroethane	ND	1.40	10.0	h.	**	n	**	er	**		
Tetrachloroethene	19.9	1.80	10.0	TI.	n	u	n	11	н		
Toluene	ND	1.80	10.0	n .	n	"	**	11	n		
Trichlorobenzene	ND	1.20	10.0	u	Ħ	*	••	11	Ħ		
1,2,4-Trichlorobenzene	ND	1.10	10.0	H	n	н	**	111	n		
1,1,1-Trichloroethane	ND	1.00	10.0	11	**	H.	in.	11	u		
1,1,2-Trichloroethane	ND	2.00	10.0	11	.10	Ħ	h	11	**		
Trichloroethene	ND	2.30	10.0	**	11	Ħ	**		и		
Trichlorofluoromethane	ND	1.50	10.0	17	n	n	**	и -	H		
1,2,3-Trichloropropane	ND	1.50	10.0	**		H	Ħ		н		i.
1,2,4-Trimethylbenzene	ND	0.900	10.0	h	н	н	*1	11	***		
1,3,5-Trimethylbenzene	ND	1.80	10.0	n	н	п	**	11	н		
Vinyl chloride	ND	1.30	10.0	**	н	"	11	***	n		
m,p-Xylene	ND	3.70	20.0	**	n e	. п	п	п	11		
o-Xylene	ND	1.70	10.0	ıı	"	н	11	n	н		
Surrogate: 1,2-DCA-d4	92.5 %		57-139)		"	'n	"	"		
Surrogate: Toluene-d8	85.8 %		66-122	?		*	"	"	"		
Surrogate: 4-BFB	95.7%		62-121	,		"	н	"	"		

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Geo Engineers - Seattle

)0 Stewart Street, Suite 1420 eattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported: 08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

· · · · · · ·			, , , , , , , , , , , , , , , , , , ,							
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-8-20 (B1G0503-02) Soil	Sampled: 07/2	0/01 09:55	Received:	07/23/01 1	4:15					
Acetone	ND	0.0650	1.00	mg/kg dry	1	1G24032	07/24/01	07/24/01	EPA 8260B	
Benzene	ND	0.0190	0.100	н	w	n	11	н	n	
Bromobenzene	ND	0.0140	0.100	**	H	41	н	n	11	
Bromochloromethane	ND	0.0220	0.100	H	н	*	int.	**	"	
Bromodichloromethane	ND	0.0150	0.100	11	0	**	**	"		
Bromoform	ND	0.00900	0.100	11	H		11	**	**	
Bromomethane	ND	0.0230	0.100	n	**	n	Ħ	"	"	
2-Butanone	ND	0.0720	1.00			н	н	n	"	
n-Butylbenzene	ND	0.0180	0.100	н	n	n	n	Ü	n	
sec-Butylbenzene	ND	0.0180	0.100	н	**	**	11	11		
tert-Butylbenzene	ND	0.0180	0.100	н	u	u		**	**	
Carbon disulfide	ND	0.00700	0.100	11	n	11	**	11	н	
Carbon tetrachloride	ND	0.0150	0.100	н		**		"	11	
Ch'orobenzene	ND	0.0150	0.100	11	0	n	**	n	n	
oethane	ND	0.0140	0.100	n	н	Ħ	11	It	п	
Chloroform	ND	0.0180	0.100	н	н	u	п	"		
loromethane	ND	0.0110	0.500	n	н	**	•	11	п	
Chlorotoluene	ND	0.0160	0.100	n	11	tt	п	**	n	
4-Chlorotoluene	ND	0.0150	0.100	11	11	11		**	**	
Dibromochloromethane	ND	0.0100	0.100	n	**	**	**	**		
1,2-Dibromo-3-chloropropane	NĎ	0.0280	0.500	n	**	311	**	ti .	**	
1,2-Dibromoethane	ND	0.0130	0.100	n	н	••	м		"	
Dibromomethane	ND	0.0180	0.100	н	11	**	**	**	и	
1,2-Dichlorobenzene	ND	0.0150	0.100	Ħ	п	••	н	te .	,,	
1,3-Dichlorobenzene	ND	0.0130	0.100	n	u	u	n	н	н	
I,4-Dichlorobenzene	ND	0.0160	0.100	**	н	11	"	н	ne .	
Dichlorodifluoromethane	ND	0.0290	0.100	u	**	11	н	н	н	
1,1-Dichloroethane	ND	0.0200	0.100	tt.	. **	н	н	. н	н	
1,2-Dichloroethane	ND	0.0250	0.100	11	***	п	**	н	н	
1,1-Dichloroethene	ND	0.0140	0.100	.fr	н	**	н	н	n	
cis-1,2-Dichloroethene	ND	0.0260	0.100	tt.	н	п	**	н	н	
trans-1,2-Dichloroethene	ND	0.0130	0.100	**		"		н	st.	
1,2-Dichloropropane	ND	0.0180	0.100	11	н	н		H	n	
1,3-Dichloropropane	ND	0.0140	0.100	н	н	н	**	п	н	
2,2-Dichloropropane	ND	0.0140	0.100	11	н		**	н		
1,1-Dichloropropene	ND	0.0130	0.100	**	11	**	n .	H	**	
	ND	0.0220	0.100	11	n	**	**			
cis-1,3-Dichloropropene trans-1,3-Dichloropropene	ND	0.00900	0.100	Ħ	н	,,	**			
trans-1,3-Dichioropropelle	ND	0.00500	0.100		10.77	WAII		0.500	····	

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Scott A. Woeman, Project Manager

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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported: 08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-8-20 (B1G0503-02) Soil	Sampled: 07/2	0/01 09:55	Received:	07/23/01 1	4:15		2 2			
Ethylbenzene	ND	0.0190	0.100	mg/kg dry	1	1G24032	07/24/01	07/24/01	EPA 8260B	
Hexachiorobutadiene	ND	0.0210	0.100	".	н	н	н	н	. п	
2-Hexanone	ND	0.0480	1.00	**	"	"		*1	"	
Isopropylbenzene	ND	0.0190	0.100	н	"	n	"	"	4	
p-lsopropyltoluene	ND	0.0170	0.100	**	11	н	"	e:	н	
Methylene chloride	0.0671	0.0170	1.00	*1	**	"	"	. "	н	J
4-Methyl-2-pentanone	ND	0.0650	1.00	*1	"	н	"	**	11	
Naphthalene	0.0661	0.0140	0.100	11	н	н	H.	H	11	J
n-Propylbenzene	ND	0.0160	0.100	11	Ħ	er.	n	**	1.	
Styrene	ND	0.0170	0.100	. 11	ü	"	"	"	**	
1,1,1,2-Tetrachloroethane	ND	0.0150	0.100	n	Ħ	н	н	п	31	
1,1,2,2-Tetrachloroethane	ND	0.0140	0.100	11	**	"	M	**	×n.	
Tetrachloroethene	219	0.0180	0.100	11	**	**		п	n	E
Talvene	ND	0.0180	0.100	11	ti	"	"	11	r	
-Trichlorobenzene	ND	0.0120	0.100	"	н	11	**	n	**	
1,2,4-Trichlorobenzene	ND	0.0110	0.100	en .	**	н	**	н	**	
1,1,1-Trichioroethane	ND	0.0100	0.100	11	11	н	11	Ħ	н	
1,1,2-Trichloroethane	ND	0.0200	0.100	11	н		н	n	**	
Trichloroethene	0.0622	0.0230	0.100	11	H.	11	н		***	J
Trichlorofluoromethane	ND	0.0150	0.100	**	m:	H		16	. 11	
1,2,3-Trichloropropane	ND	0.0150	0.100	n	н	11	n	п	**	18
1,2,4-Trimethylbenzene	0.169	0.00900	0.100	n	**	н			"	
1,3,5-Trimethylbenzene	ND	0.0180	0.100	H	Ħ	**	H	и	н	
Vinyl chloride	ND	0.0130	0.100	11	Ħ	н	Ħ	"	n	
m,p-Xylene	ND	0.0370	0.200	"	Ħ	"	**	"	н	
o-Xylene	ND	0.0170	0.100	"	41:	н	"	"	н	
Surrogate: 1,2-DCA-d4	103 %		57-			"	"	"	" .	
Surrogate: Toluene-d8	91.0 %		66	122		"	n	"	Ħ	
Surrogate: 4-BFB	99.8 %		62	121		"	"	H	"	

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600 Stewart Street, Suite 1420 Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported: 08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

		MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW1-8-20 (B1G0503-02RE1) Soil	Sampled: 0	7/20/01 09:55	Receiv	ed: 07/23/	01 14:15					
Acetone	ND	26.0		ng/kg dry	400	1G24032	07/24/01	07/25/01	EPA 8260B	
Benzene	ND	7.60	40.0	tt	H	***	н	n	н	
Bromobenzene	ND	5.60	40.0	u	н	**	н	н	**	
Bromochloromethane	ND	8.80	40.0	"	n	**	Ħ	n	н	
Bromodichloromethane	ND	6.00	40.0	11	**	н	н	**	1) (8)	
Bromoform	ND	3.60	40.0	н	91	n	Ħ	n	**	
Bromomethane	ND	9.20	40.0	н	**	*	**	11	Ħ	
2-Butanone	ND	28.8	400	11	**	**	н	"	11	
n-Butylbenzene	ND	7.20	40.0	11	n	н	11	n	11	
sec-Butylbenzene	ND	7.20	40.0	n	11	н	**		**	
tert-Butylbenzene	ND	7.20	40.0	H	11	н	**	et	**	
Carbon disulfide	ND	2.80	40.0	11	n		н	ü	an .	
Carbon tetrachloride	ND	6.00	40.0	11	"	**	**	•	n	
Chrobenzene	ND	6.00	40.0	**	**	н	**	n	9003	
oethane	ND	5.60	40.0	11	n	n	m	10	11	
Chloroform	ND	7.20	40.0	11	n	"	H	н		
Chloromethane	ND	4.40	200	11	an an	.01	11	**	н	
-Chlorotoluene	ND	6.40	40.0	11	Э.	H	"	11	rr	
4-Chlorotoluene	ND	6.00	40.0	**	rr .	п	n	u	11	
Dibromochloromethane	ND	4.00	40.0	Ħ	н	11	"	11	**	
1,2-Dibromo-3-chloropropane	ND	11.2	200	n	**	н	**	н	**	
1,2-Dibromoethane	ND	5.20	40.0	н	н	11	**	ur	11	
Dibromomethane	ND	7.20	40.0		11	11	**	n	"	
1,2-Dichlorobenzene	ND	6.00	40.0	11	11	**	ા	u	•	
1,3-Dichlorobenzene	ND	5.20	40.0	11	н	11:0	п	н	**	
,4-Dichlorobenzene	ND	6.40	40.0	н	**				ir	
Dichlorodifluoromethane	ND	11.6	40.0	н	н		Ħ	11	н	
,1-Dichloroethane	ND	8.00	40.0	Ħ	н	,,	**			
,2-Dichloroethane	ND	10.0	40.0	11	н	,,	**	11		
,1-Dichloroethene	ND	5.60	40.0	11	n			11	,,	
ris-1,2-Dichloroethene	ND	10.4	40.0	11	*	tr	n	**	"	
rans-1,2-Dichloroethene	ND	5.20	40.0		и	н	н	"	"	
,2-Dichloropropane	ND	7.20	40.0	"	и	п	11	н	**	
,3-Dichloropropane	ND	5.60	40.0	H	н	н	11	11	"	
2,2-Dichloropropane	ND	5.20	40.0		n	"	**	**	"	
,1-Dichloropropene	ND	8.80	40.0	n		"		"		
ris-1,3-Dichloropropene	ND	5.60	40.0	11	"	"	н	11	"	
	ND	3.60			**	н	"	**		
rans-1,3-Dichloropropene	ND	3.00	40.0		-		11	T	Ħ	

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Project: American Linen/Seattle

Project Number: 8673-001-01

Reported: 08/03/01 18:59

Project Manager: Dave Cook

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	Re MDL	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-8-20 (B1G0503-02RE1) Soil	Sampled: 07/	20/01 09:55	Receiv	ed: 07/23/	01 14:15	А				-
Ethylbenzene	ND	7.60	40.0 n	ng/kg dry	400	1G24032	07/24/01	07/25/01	EPA 8260B	
Hexachlorobutadiene	ND	8.40	40.0	**			H	ı	н	
2-Hexanone	ND	19.2	400	**	*	H	Ħ	11	11	
Isopropylbenzene	ND	7.60	40.0	11	**	H	**	u	Ħ	
p-Isopropyltoluene	ND	6.80	40.0	11	**	"	n	•	**	
Methylene chloride	99.0	6.80	400	H	**	**	n	hr	к	В,
4-Methyl-2-pentanone	ND	26.0	400	tf	#	Ħ	11	н	,,	
Naphthalene	ND	5.60	40.0	Ħ	**	"	•	н	"	
n-Propylbenzene	ND	6.40	40.0	н	#	"	•	н	**	
Styrene	ND	6.80	40.0	11	#	н	н	н	:- (N)	
1,1,1,2-Tetrachloroethane	ND	6.00	40.0	n	п	"	**	71	H.	
1,1,2,2-Tetrachloroethane	ND	5.60	40.0	u	Ħ	n	**	in.	**	
Tetrachloroethene	237	7.20	40.0	·u		н	91		**	
T-'rene	ND	7.20	40.0	н	"	**	11	51	*1	
·Trich!orobenzene	ND	4.80	40.0	9	n	11	n	**	n	
1,2,4-Trichlorobenzene	ND	4.40	40.0	ü	Ħ	n	n -	tr	11	
1,1,1-Trichloroethane	ND	4.00	40.0	11	н	н	Yi	w	u	
1,1,2-Trichloroethane	ND	8.00	40.0	Ü	**	11	**	ж	tt	*
Trichloroethene	ND	9.20	40.0	n	я	н	ir.	н	11	
Trichlorofluoromethane	ND	6.00	40.0	**	п	Н	w	Ħ	tt	
1,2,3-Trichloropropane	ND	6.00	40.0	н	"	н	"		**	
1,2,4-Trimethylbenzene	ND	3.60	40.0	11	11	н	н	H	81	
1,3,5-Trimethylbenzene	ND	7.20	40.0	11	11	н	**	"	*2	8
Vinyl chloride	ND	5.20	40.0	11	н	+	н	"	**	
m,p-Xylene	ND	14.8	80.0	11	н	n	*	**	41	
o-Xylene	ND	6.80	40.0	n	н	н		S H	**	
Surrogate: 1,2-DCA-d4	101 %		57-13			"	"	"	n	8
Surrogate: Toluene-d8	93.0 %		66-12	22		"	H	rr	"	
Surrogate: 4-BFB	104 %		62-12	21		"	"	n	**	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This

Scott A. Woerman, Project Manager

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Geo Engineers - Seattle

Project: American Linen/Seattle

00 Stewart Street, Suite 1420 Project Number: .8673-001-01 Project Manager: Dave Cook Seattle WA, 98101

Reported:

08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-11-27.5 (B1G0503-03) Soil	Sampled: 0	7/20/01 10:45	Receive	d: 07/23/0	1 14:15					
Acetone	ND	0.0650	1.00 r	ng/kg dry	1	1G24032	07/24/01	07/24/01	EPA 8260B	
Benzene	ND	0.0190	0.100	n	"	n	n	п	п	
Bromobenzene	ND	0.0140	0.100	11	н	11	**	H	n	
Bromochloromethane	ND	0.0220	0.100	11	**	11	. "	H	u	
Bromodichloromethane	ND	0.0150	0.100	**	n	н	**	**	н	
Bromoform	ND	0.00900	0.100	н	"	Ħ	**	**	и	
Bromomethane	ND	0.0230	0.100	и	н	н	an .	11	н	
2-Butanone	ND	0.0720	1.00		**	н	н	"	u	
n-Butylbenzene	ND	0.0180	0.100	31	n	н	11	н	**	
sec-Butylbenzene	ND	0.0180	0.100	11	н	11	**	"	n	
tert-Butylbenzene	ND	0.0180	0.100	. "	"	н	н .	**	n	
Carbon disulfide	ND	0.00700	0.100	н	"	11	ir	н	**	
Carbon tetrachloride	ND	0.0150	0.100	n	. "	Ħ	Ħ	11		
C' 'robenzene	ND	0.0150	0.100	H	"	**	et	n n	:11	
·oethane	ND	0.0140	0.100	.11	**	**	n	н	316	
Chloroform	ND	0.0180	0.100	11	"	**	***	**	н	
hloromethane	ND	0.0110	0.500	и	u	**	*	**	**	
-Chlorotoluene	ND	0.0160	0.100	u	н	**	**	**	**	
4-Chlorotoluene	ND	0.0150	0.100	10	, II	u	**	**	**	
Dibromochloromethane	ND	0.0100	0.100	ш	n	11	ir		**	
1,2-Dibromo-3-chloropropane	ND	0.0280	0.500	11	11	11	**	**	н	
1,2-Dibromoethane	ND	0.0130	0.100	н	н	Ħ	111	n	(H)	
Dibromomethane	ND	0.0180	0.100	11	**		×10°	11	н	
1,2-Dichlorobenzene	ND	0.0150	0.100	211	"	11	**	**	**	
1,3-Dichlorobenzene	ND	0.0130	0.100	11	**	н	**	**	**	
1,4-Dichlorobenzene	ND	0.0160	0.100	н	#	•	**	"	**	
Dichlorodifluoromethane	ND	0.0290	0.100	11	**	н	**	**	н	
1,1-Dichloroethane	ND	0.0200	0.100	11	н	н	. 11			
1,2-Dichloroethane	ND	0.0250	0.100	11	#	11	**	н	11	
1,1-Dichloroethene	ND	0.0140	0.100	11	н	11	11	*1	n	
cis-1,2-Dichloroethene	ND	0.0260	0.100	эн		"	**	**	n	
trans-1,2-Dichloroethene	ND	0.0130	0.100	н	**	"	**	n	**	
1,2-Dichloropropane	ND	0.0180	0.100	н	"	"	tt	n	11	
1,3-Dichloropropane	ND	0.0140	0.100	11	**	m	**	•	н	
2,2-Dichloropropane	ND	0.0130	0.100	u		"	**	**	**	
1,1-Dichloropropene	ND	0.0220	0.100	tt	ж.	n	PF	**	u	
cis-1,3-Dichloropropene	ND	0.0140	0.100	n	n	н	**	**	n	
trans-1,3-Dichloropropene	ND	0.00900	0.100	**	н	н	Ħ			

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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

Project Manager: Dave Cook

Reported:

08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	MDL F	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-11-27.5 (B1G0503-03) Soil	Sampled: 0	7/20/01 10:45		d: 07/23/0	1 14:15				Modelod	Hotes
Ethylbenzene	ND	0.0190	0.100 1	ng/kg dry	1	1G24032	07/24/01	07/24/01	EPA 8260B	
Hexachlorobutadiene	ND	0.0210	0.100	,11	**	•	н	#	"	
2-Hexanone	ND	0.0480	1.00	Ħ	*	n	H		"	
Isopropylbenzene	ND	0.0190	0.100	n	н	***	н	•	**	
p-Isopropyltoluene	ND	0.0170	0.100	11	n	**	н	Ħ	#	
Methylene chloride	0.0612	0.0170	1.00	ft	51	"		n	н	J
4-Methyl-2-pentanone	ND	0.0650	1.00	11	"	"	**	n	н	3
Naphthalene	ND	0.0140	0.100	11	**	Ħ	н	и	H:	
n-Propylbenzene	ND	0.0160	0.100	n	**	н	н	"	11	
Styrene	ND	0.0170	0.100	11	**	61	Ħ	**		
1,1,1,2-Tetrachloroethane	ND	0.0150	0.100	"		**	"		n .	
1,1,2,2-Tetrachloroethane	ND	0.0140	0.100	n.		. "	н	*	,,	
Tetrachloroethene	9.21	0.0180	0.100	n	и.	**	11	**	,,	Е
Trinene	ND	0.0180	0.100	Ü	m	н	н	N.	,,	L
-Trichlorobenzene	ND	0.0120	0.100	n	н	**	"	n	n	
1,2.4-Trichlorebenzene	ND	0.0110	0.100	90	"	н		11	ti	
1,1,1-Trichloroethane	ND	0.0100	0.100	H	n	н	н	11	11	
1,1,2-Trichloroethane	ND	0.0200	0.100	11	n	н	11	Ħ	**	
Trichloroethene	0.0706	0.0230	0.100	tr	n	"		m	ч	J
Trichlorofluoromethane	ND	0.0150	0.100	Ü	**	н	**	**	н	J
1,2,3-Trichloropropane	ND	0.0150	0.100	Ħ	H	н	**	н	u	
1,2,4-Trimethylbenzene	0.0576	0.00900	0.100	11	H.	н	,,	11	11	J
1,3,5-Trimethylbenzene	ND.	0.0180	0.100	#	,	H	н	ii	Ħ	,
Vinyl chloride	ND	0.0130	0.100	OPT	**	H	н	n	н	
m,p-Xylene	ND	0.0370	0.200	11	**	**		ū	н	
o-Xylene	ND	0.0170	0.100	11		11	**	**	11	
Surrogate: 1,2-DCA-d4	106 %		57-13	9			n	"	"	
Surrogate: Toluene-d8	92.7 %		66-12	2		n	•	n	n	
Surrogate: 4-BFB	98.4 %		62-12	1		н	"	"	"	

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Geo Engineers - Seattle

00 Stewart Street, Suite 1420 Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported: 08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		d: 07/20/01 1		· · · · · · · · · · · · · · · · · · ·			- Toparou	7 11117200	·	
MW1-11-27.5 (B1G0503-03RE1) Soil										
Acetone	ND	0.260		ng/kg dry	4	1G24032	07/24/01	07/25/01	EPA 8260B	
Benzene	ND	0.0760	0.400	"	"	*	**	н	"	
Bromobenzene	ND	0.0560	0.400	17	H	e1	l tt		Ħ	
Bromochloromethane	ND	0.0880	0.400	11	***	н	-0	"	"	
Bromodichloromethane	ND	0.0600	0.400	н	"	н	"	**	" "	
Bromoform	ND	0.0360	0.400	11	**	n	n	**	н	
Bromomethane	ND	0.0920	0.400	н	"	н	**	"	н	
2-Butanone	ND	0.288	4.00	n	"	11	н	**	n	
n-Butylbenzene	ND	0.0720	0.400	n	**	16	11	tr	п	
sec-Butylbenzene	ND	0.0720	0.400	н	"	**	11	er .	્મ	
tert-Butylbenzene	ND	0.0720	0.400	*	**	н	111	**	**	
Carbon disulfide	ND	0.0280	0.400	n	M.	n	11	н	н	
Carbon tetrachloride	ND	0.0600	0.400	н	**	н	"	••	**	
Chlorobenzene	ND	0.0600	0.400	11	"	•	11	**	**	
coethane	ND	0.0560	0.400	и	н	n	н	81	11	
Chloroform	ND	0.0720	0.400	11	**	n	н	n	"	
hloromethane	ND	0.0440	2.00	11	и	11	11	**	**	
Chlorotoluene	ND	0.0640	0.400	11	н	п	11	m .	11	
4-Chlorotoluene	ND	0.0600	0.400	u	**	н	н	**	"	
Dibromochloromethane	ND	0.0400	0.400	0	н	n	n	**		
1,2-Dibromo-3-chloropropane	ND	0.112	2.00	11	n	"	н	tt		
1,2-Dibromoethane	ND	0.0520	0.400		"	n	**	n.	"	
Dibromomethane	ND	0.0720	0.400	•	Ħ	н	11	н	н	
1,2-Dichlorobenzene	ND	0.0600	0.400	H	11	н	11	n	н	
1,3-Dichlorobenzene	ND	0.0520	0.400	н	"	11	**	**	***	
1,4-Dichlorobenzene	ND	0.0640	0.400	н	**	- 11	"	**	n	
Dichlorodifluoromethane	ND	0.116	0.400	n		н	н	н	н	
1,1-Dichloroethane	ND	0.0800	0.400	H i	**	н	11	11		
1,2-Dichloroethane	ND	0.100	0.400	н	"	**	"	•	**	
1,1-Dichloroethene	ND	0.0560	0.400	н		н	11	11		
cis-1,2-Dichloroethene	ND	0.104	0.400	**	н	w	"	н	**	
trans-1,2-Dichloroethene	ND	0.0520	0.400	n	н	Ħ		п	**	
1,2-Dichloropropane	ND	0.0720	0.400	11	**	н	**	н	**	
1,3-Dichloropropane	ND	0.0560	0.400	n	#	н	,,	н	н	
2,2-Dichloropropane	ND	0.0520	0.400	н	**	**	11	**		
77	ND	0.0320	0.400	н	41	н	11	n	n	
1,1-Dichloropropene	ND	0.0560	0.400	н	**	*1	,,		ii	
cis-1,3-Dichloropropene	ND	0.0360	0.400	н	н	"				
trans-1,3-Dichloropropene	MD	0.0360	0.400							

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Scott A. Woeman, Project Manager

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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

Project Manager: Dave Cook

Reported:

08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-11-27.5 (B1G0503-03RE1) Soil	Sample	d: 07/20/01 1	0:45 Re	ceived: 07/	23/01 14:	15			,	
Ethylbenzene	ND	0.0760	0.400	mg/kg dry	4	1G24032	07/24/01	07/25/01	EPA 8260B	
Hexachlorobutadiene	ND	0.0840	0.400	н	н	н .	н ,	n	н	
2-Hexanone	ND	0.192	4.00	. "	н	н	, 0	n	34	
Isopropylbenzene	ND	0.0760	0.400	"	н	н	n	**	7	
p-Isopropyltolnene	ND	0.0680	0.400	TI .	**	н	н	v	21	
Methylene chloride	0.406	0.0680	4.00	. "	"	н	н	u	n	B,J
4-Methyl-2-pentanone	ND	0.260	4.00	11	"	42	13	**	11	
Naphthalene	ND	0.0560	0.400	. "	н	**	n	**	н	
n-Propylbenzene	ND	0.0640	0.400	н	Ħ	**	H	31	11	
Styrene	ND	0.0680	0.400	H	н	**	**	71	•	
1,1,1,2-Tetrachloroethane	ND	0.0600	0.400	н	. "	11	n	**	n	
1,1,2,2-Tetrachloroethane	ND	0.0560	0.400	**	**	u	ti	***	н	
Tetrachloroethene	16.4	0.0720	0.400	31	.11	er	**	**	n	
T-mene	ND	0.0720	0.400	11		**	n	11	п	
-Trichlorobenzene	ND	0.0480	0.400	्रम	•	***	н	11	н	
1.2.4-Trichlorobenzene	ND	0.0440	0.400	11	11	п	н	**	**	
1,1,1-Trichloroethane	ND	0.0400	0.400	n	11	n	H	tt	**	
1,1,2-Trichloroethane	ND	0.0800	0.400	11	n	н	п	*1	rr	
Trichloroethene	ND	0.0920	0.400	"	"	н	**	"	**	
Trichlorofluoromethane	ND	0.0600	0.400	Ħ	ŧI	"	n	gi.	и	
1,2,3-Trichloropropane	ND	0.0600	0.400	н	*1	111	н	Ħ	, 11	
1,2,4-Trimethylbenzene	ND	0.0360	0.400	**	"	m	n	**	**	
1,3,5-Trimethylbenzene	ND	0.0720	0.400	*1	**	**	н	n	н	
Vinyl chloride	ND	0.0520	0.400	"	. #	n	н	Ħ	н	
m,p-Xylene	ND	0.148	0.800	11	11	. "	н	н	"	
o-Xylene	ND	0.0680	0.400	11	н	" :	н	н	*1	
Surrogate: 1,2-DCA-d4	101 %		57-1	39		"	н	"	"	
	92.7 %		66-1	22		"	n	*	n	
Surrogate: 4-BFB	100 %		62-1	21		"	#	n	rr .	

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Geo Engineers - Seattle

500 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

Project Manager: Dave Cook

Reported: 08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-13-32.5 (B1G0503-04) Soil	Sampled: 0	7/20/01 11:20	Receive	d: 07/23/0	1 14:15					akti ya
Acetone	ND	0.130	2.00 п	ng/kg dry	2	1G24032	07/24/01	07/24/01	EPA 8260B	
Benzene	ND	0.0380	0.200	tt.	Ħ		**	H	п	
Bromobenzene	ND	0.0280	0.200	11	"	"	"	n	**	
Bromochloromethane	ND	0.0440	0.200	**	"	n	**	Ü	11	
Bromodichloromethane	ND	0.0300	0.200	n	tt	**	II		н	
Bromoform	ND	0.0180	0.200	11	**	**	11	II.	*1	
Bromomethane	ND	0.0460	0.200	11	u	**	н	Ħ	41	
2-Butanone	ND	0.144	2.00	H	* **	Ħ	н	: M	11	
n-Butylbenzene	ND	0.0360	0.200		n	n	11	l er	**	
sec-Butylbenzene	ND	0.0360	0.200	11	**	n	**	н	**	
tert-Butylbenzene	ND	0.0360	0.200	11	н	Ħ		, п	**	
Carbon disulfide	ND	0.0140	0.200	11	Ħ	11	11	н	H	
Carbon tetrachloride	ND	0.0300	0.200	n	"	•	n	n		
Chrobenzene	ND	0.0300	0.200	11	н	ir	**	n	п	
coethane	ND	0.0280	0.200	n	н	н	**	н	н	
Chloroform	ND	0.0360	0.200	Ħ	н	"	**	CH.	**	
hloromethane	ND	0.0220	1.00	11	n		n:	11	**	
Chlorotoluene	ND	0.0320	0.200	n	. 10	**		, n	н	
4-Chlorotoluene	ND .	0.0300	0.200	II .	**	**	**	11	**	
Dibromochloromethane	ND	0.0200	0.200	10	**	11	**	n		
1,2-Dibromo-3-chloropropane	ND	0.0560	1.00	**	н	n		н	**	
1,2-Dibromoethane	ND	0.0260	0.200	н	"	11	"	**	(91)	
Dibromomethane	ND	0.0360	0.200	11	"	"	ü	**	н	
1,2-Dichlorobenzene	ND	0.0300	0.200	11	. #	H	"	н	10	
1,3-Dichlorobenzene	ND	0.0260	0.200	11	н	**	***	н	•	
1,4-Dichlorobenzene	ND	0.0320	0.200	**	н	"	**	"	н	
Dichlorodifluoromethane	ND	0.0580	0.200	Ħ	"	H	н	H	*	
1,1-Dichloroethane	ND	0.0400	0.200	н	н	"	'n	n		
1,2-Dichloroethane	ND	0.0500	0.200	**	"	"		"	**	
1,1-Dichloroethene	ND	0.0280	0.200	11	**	11	51	31	н	
cis-1,2-Dichloroethene	ND	0.0520	0.200	n		11	н	н		
trans-1,2-Dichloroethene	ND	0.0260	0.200	11	11	#		*	,	
1,2-Dichloropropane	ND	0.0260	0.200	11	11	11	11	н	tr .	
1,2-Dichloropropane	ND	0.0380	0.200	11	н	#	и	n	"	
-	ND	0.0260		11		"	H	"	"	
2,2-Dichloropropane			0.200				11	н	**	
1,1-Dichloropropene	ND	0.0440	0.200	11	"	"	**			
cis-1,3-Dichloropropene	ND	0.0280	0.200	,,	и			"	n	
trans-1,3-Dichloropropene	ND	0.0180	0.200	u u	н	11:	.11	•	11	

h Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Scott A. Woeman, Project Manager

North Creek Analytical, Inc.

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Environmental Laboratory Network



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Portland

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Geo Engineers - Seattle

Project: American Linen/Seattle

600 Stewart Street, Suite 1420 Seattle WA, 98101

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported:

08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	MDL.	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-13-32.5 (B1G0503-04) Soil	Sampled: 07	7/20/01 11:20	Receive	ed: 07/23/0	1 14:15		·			3
Ethylbenzene	ND	0.0380	0.200	mg/kg dry	2	1G24032	07/24/01	07/24/01	EPA 8260B	
Hexachlorobutadiene	ND	0.0420	0.200	H	Ħ	Ħ	**	•	π	
2-Hexanone	ND	0.0960	2.00	н	н	**	**	**	11	
Isopropylbenzene	ND	0.0380	0.200	11	H	#1	"	11	н	
p-lsopropyltoluene	ND	0.0340	0.200	II	H	и .	н	**	**	
Methylene chloride	0.165	0.0340	2.00	tt.	n	n	"		**	J
4-Methyl-2-pentanone	ND	0.130	2.00	11	n	"	**	71	**	
Naphthalene	ND	0.0280	0.200	n		Ħ	**	11	⊕ #f	
n-Propylbenzene	ND	0.0320	0.200	û	Ħ	11	*	11	HH	
Styrene	ND	0.0340	0.200	н	**	11	**		**	
1,1,1,2-Tetrachloroethane	ND	0.0300	0.200	u	110	.11	111		**	
1,1,2,2-Tetrachloroethane	ND	0.0280	0.200	ji.	41	31	17	"	•	
Tetrachloroethene	30.9	0.0360	0.200	11	"	**	н	•	**	Е
T 'nene	ND	0.0360	0.200	н	и.,	н	н	•	n	
-Trichlorobenzene	ND	0.0240	0.200	n	n	**	н	W	·	
1,2,4-Trichlorobenzene	ND	0.0220	0.200	. 11	n	н	**	"	•	
1,1,1-Trichloroethane	ND	0.0200	0.200	n	н	11	L1	**	23.00	
1,1,2-Trichloroethane	ND	0.0400	0.200	н	**	н	м ,	**	**	
Trichloroethene	0.394	0.0460	0.200	n			**	n		
Trichlorofluoromethane	ND	0.0300	0.200	н	**	н	"	н	н	
1,2,3-Trichloropropane	ND	0.0300	0.200	и	11	н		n	H	
1,2,4-Trimethylbenzene	0.305	0.0180	0.200	H	н		"	**	н	
1,3,5-Trimethylbenzene	ND	0.0360	0.200	н	n		и	•	n	
Vinyl chloride	ND	0.0260	0.200	н	н	n	n	н	.11	
m,p-Xylene	ND	0.0740	0.400		**	**		н	**	
o-Xylene	ND	0.0340	0.200	n	n	n	н	rt	H	
Surrogate: 1,2-DCA-d4	135 %		57-1	39		"	"	"	"	
Surrogate: Toluene-d8	121 %		66-1	22		"	n	"	n	
Surrogate: 4-BFB	128 %		62-1	21		n	"	. "	н	S-01

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Geo Engineers - Seattle

20 Stewart Street, Suite 1420

seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported: 08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

A-dido	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Nate-
Analyte		200000000000000000000000000000000000000					tichated	Alialyzed	MENION	Notes
MW1-13-32.5 (B1G0503-04RE1) Soil	Sample	ed: 07/20/01	11:20 Rec	eived: 07	/23/01 14:	15				
Acetone	ND	0.650		ng/kg dry	10	1G24032	07/24/01	07/26/01	EPA 8260B	
Benzene	ND	0.190	1.00	ii ii	**	н	11	"	Ħ	
Bromobenzene	ND	0.140	1.00	**	**	**	**	**	H.	
Bromochloromethane	ND	0.220	1.00	**	Ħ	89	H	**	**	
Bromodichloromethane	ND	0.150	1.00	**		n		**	н	
Bromoform	ND	0.0900	1.00	**	ij	**	**	n	:00	
Bromomethane	ND	0.230	1.00	**	н	n	10	H.	ero	
2-Butanone	ND	0.720	10.0	11	н	11	н	п	**	
n-Butylbenzene	ND	0.180	1.00	11	ü	п	•	"	н	
sec-Butylbenzene	ND	0.180	1.00	11	H H	**	tt	н	.11	
tert-Butylbenzene	ND	0.180	1.00	**	<u>n</u>	"	п	**	н	
Carbon disulfide	ND	0.0700	1.00	u u	u u	"	*	u	**	
Carbon tetrachloride	ND	0.150	1.00	, ti	ü	**	"	n	*1	
Charobenzene	ND	0.150	1.00	64	11	**	"	H	**	
roethane	ND	0.140	1.00	*1	**	11	.11	**	41	
Chloroform	ND	0.180	1.00	Ü	п	н	н	**	**	
hloromethane	ND	0.110	5.00	81	ti.	**	"	**	"	
Chlorotoluene	ND	0.160	1.00	*1	"	"		**	**	
4-Chlorotoluene	ND	0.150	1.00	**	н	**	**	H	**	
Dibromochloromethane	ND	0.100	1.00	et .	11	**	н	**	п	
1,2-Dibromo-3-chloropropane	ND	0.280	5.00	rı	n	41	"	"		
1,2-Dibromoethane	ND	0.130	1.00	**	**	**	31	11	. 11	
Dibromomethane	ND	0.180	1.00	11	н	**	11%	11	n	
1,2-Dichlorobenzene	ND	0.150	1.00	11	**	**	11	11	**	
1,3-Dichlorobenzene	ND	0.130	1.00	0	*	**	"	11	**	
1,4-Dichlorobenzene	ND	0.160	1.00	11	11	11	н	11	27	
Dichlorodifluoromethane	ND	0.290	1.00		11	n		**	n	
1,1-Dichloroethane	ND	0.200	1.00	11	11	**			**	
1,2-Dichloroethane	ND	0.250	1.00	**	11	н	#1:	21	11	
1,1-Dichloroethene	ND	0.140	1.00	**	н	н	H	**	**	
cis-1,2-Dichloroethene	ND	0.260	1.00	PÍ	н	н	n	"	Ħ	
trans-1,2-Dichloroethene	ND	0.130	1.00	**	*	н	н	11	н	
1,2-Dichloropropane	ND	0.180	1.00		н	**	**	11	**	
1,3-Dichloropropane	ND	0.140	1.00	"	ī	**	**	,	**	
2,2-Dichloropropane	ND	0.130	1.00	ti .	**	н	#	n		
1,1-Dichloropropene	ND	0.220	1.00	"	**	n	н	n	**	
cis-1,3-Dichloropropene	ND	0.140	1.00		**	**	11	н	**	
trans-1,3-Dichloropropene	ND	0.0900	1.00	н	**	,,	**	н	н	
trans-1,3-Dichioropropene	מאו	0.0300	1.00							

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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported:

08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	. Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-13-32.5 (B1G0503-04RE1)	Soil Sample	d: 07/20/01	11:20 Rec	eived: 07/	23/01 14:	15				
Ethylbenzene	ND	0.190		ng/kg dry	10	1G24032	07/24/01	07/26/01	EPA 8260B	
Hexachlorobutadiene	ND	0.210	1.00	"	н	Ħ	**	н	m	
2-Hexanone	ND	0.480	10.0	n	**	n		н	н	
Isopropylbenzene	ND	0.190	1.00	н	Ħ	11	61	**	**	
p-Isopropyltoluene	ND	0.170	1.00	11	n	"	H	. 11	**	
Methylene chloride	0.950	0.170	10.0	Ħ	н	н	Ħ	*1	н	B,J
4-Methyl-2-pentanone	ND	0.650	10.0	II.	H	*	н	н	**	
Naphthalene	ND	0.140	1.00	Ħ	н	*	11	11	n	
n-Propylbenzene	ND	0.160	1.00	fi .	н		41	11	11	23
Styrene ·	ND	0.170	1.00	11	**	n	Ħ	n	•	
1,1,1,2-Tetrachloroethane	ND	0.150	1.00	n	**		н	,,,	**	
1,1,2,2-Tetrachloroethane	ND	0.140	1.00	H	**		*1	н	,m	
Tetrachloroethene	33.1	0.180	1.00	n	m	#	11	н	*	
Trinene.	ND	0.180	1.00	n	н	•	11	W	"	
. Trichlorobenzene	ND	0.120	1.00	11	н	**	11	Ħ	"	
1,2,4-Trichlorobenzene	ND	0.110	1.00	11	**	11	н	11		
1,1,1-Trichloroethane	ND	0.100	1.00	и	**		n	11	u	
1,1,2-Trichloroethane	ND	0.200	1.00	Ħ	н	**	11	**	w	
Trichloroethene	0.625	0.230	1.00	11	81	11	н	H		J
Trichlorofluoromethane	ND	0.150	1.00		н	**	H	**	1100	
1,2,3-Trichloropropane	. ND	0.150	1.00	11	н	**	11	m	**	
1,2,4-Trimethylbenzene	ND	0.0900	1.00	н	н		н	и	"	
1,3,5-Trimethylbenzene	ND	0.180	1.00	n	**	**	Ħ		"	
Vinyl chloride	ND	0.130	1.00	11	н	IT	**	H	*	
m,p-Xylene	ND	0.370	2.00	11	н	н	н			
o-Xylene	ND	0.170	1.00	TI .	**	"	. 11	н	n	
Surrogate: 1,2-DCA-d4	99.6 %		57-13	200		"	n	н	n	
Surrogate: Toluene-d8	89.7 %		66-12	2		"	"	"	rr	
Surrogate: 4-BFB	102 %		62-12	1		n		н	Ħ	

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Scott A. Woerman, Project Manager

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Geo Engineers - Seattle

00 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported: 08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB4-4-10 (B1G0503-06) Soil S	Sampled: 07/18	01 09:55	Received: 0	7/23/01 14:	15			8	25 M 12	
Acetone	0.188	0.0650	1.00	mg/kg dry	1	1G24032	07/24/01	07/24/01	EPA 8260B	J
Benzene	ND	0.0190	0.100	II	tr.	**	н	т.	н	
Bromobenzene	ND -	0.0140	0.100	11	n	*	"		н	
Bromochloromethane	ND	0.0220	0.100	11	H	. "	н	н	п	
Bromodichloromethane	ND	0.0150	0.100	11%	**	**	11	H	, н	
Bromoform	ND	0.00900	0.100	n	11	**	**	11	и	
Bromomethane	ND ·	0.0230	0.100		**	**	11	14	н	
2-Butanone	ND	0.0720	1.00	Ħ	11	n	**	11	н	
n-Butylbenzene	ND	0.0180	0.100	"	н	н	**	H .	11	
sec-Butylbenzene	ND	0.0180	0.100	ii	**		**	11	н	
tert-Butylbenzene	ND	0.0180	0.100	н	10	H		11	11	
Carbon disulfide	ND	0.00700	0.100	Ħ	11	**	"	"	u u	
Carbon tetrachloride	ND	0.0150	0.100	11	11	**	н	н	н	
Chrobenzene	ND	0.0150	0.100	11	*1	**	11	11	н	
coethane	ND	0.0140	0.100	n n	*1	**	"	"	n	
Chloroform	ND	0.0180	0.100	11	**	11	**	н	•	
hloromethane	ND	0.0110	0.500	n	H	n	11	n:	1111	
Chlorotoluene	ND	0.0160	0.100	Ü	**	H.		n	H	
4-Chlorotoluene	ND	0.0150	0.100	11	"	"	"	п	н	
Dibromochloromethane	ND .	0.0100	0.100	11	11	II.	11	n	11	
1,2-Dibromo-3-chloropropane	ND	0.0280	0.500	ü	"	11	n		"	
1,2-Dibromoethane	ND	0.0130	0.100	n	**	n	"	n	n	
Dibromomethane	ND	0.0180	0.100	n	**	**	"	**	tt .	
1,2-Dichlorobenzene	ND	0.0150	0.100	9	*1	**	H	n	**	
1,3-Dichlorobenzene	ND	0.0130	0.100	Ü	**	H	**	"	н	
1,4-Dichlorobenzene	ND	0.0160	0.100	tt	н	Ħ		**	n	
Dichlorodifluoromethane	ND	0.0290	0.100	11	•	**	<u>u</u>	•	**	
1,1-Dichloroethane	ND	0.0200	0.100	"	**	**		**	"	
1,2-Dichloroethane	. ND	0.0250	0.100	**	**	н	Ħ	n	н	
1,1-Dichloroethene	ND	0.0140	0.100	"	**	н	*	n	n	
cis-1,2-Dichloroethene	ND	0.0260	0.100	**	"	**	**	Ħ		
trans-1,2-Dichloroethene	ND	0.0130	0.100	11	N	H	н	н	IR	
1,2-Dichloropropane	ND	0.0180	0.100	tt	#1	**	н	н	"	
1,3-Dichloropropane	ND	0.0140	0.100	u u	n	"	н	**	"	
2,2-Dichloropropane	ND	0.0130	0.100	tt	н	*	ŧi	н	н	
1,1-Dichloropropene	ND	0.0220	0.100	11	**	н	u	н	н	
cis-1,3-Dichloropropene	ND	0.0140	0.100	u		"		**	н	
trans-1,3-Dichloropropene	ND	0.00900	0.100	11	Ħ	**	11	**	**	

h Creek Analytical - Bothell

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Seott A. Woeman, Project Manager

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541.383.9310 fax 541.382.7588

Geo Engineers - Seattle

Project: American Linen/Seattle

600 Stewart Street, Suite 1420 Seattle WA, 98101

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported: 08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB4-4-10 (B1G0503-06) Soil	Sampled: 07/18/0	1 09:55	Received: 07	7/23/01 14:	15					
Ethylbenzene	ND	0.0190		mg/kg dry	1	1G24032	07/24/01	07/24/01	EPA 8260B	
Hexachlorobutadiene	ND	0.0210	0.100	u	"	n	н	"	"	
2-Hexanone	ND	0.0480	1.00	311	**	"	**	pr .	**	
Isopropylbenzene	ND	0.0190	0.100	11	n	ï.	н	er	н	
p-Isopropyltoluene	ND	0.0170	0.100	11		н	**	н	•	
Methylene chloride	0.0793	0.0170	1.00	u	"	п	н	11	H	J
4-Methyl-2-pentanone	ND	0.0650	1.00	.11	**	n	14	11	Ħ	
Naphthalene	ND	0.0140	0.100	11	"	"	н	**	H	
n-Propylbenzene	ND	0.0160	0.100	11	n	n	n	H	н	
Styrene	ND	0.0170	0.100	Ħ	11	п	Ħ	*1	н	
1,1,1,2-Tetrachloroethane	ND	0.0150	0.100	11	н	"	н	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0140	0.100	**	n	"	n	**	u	
Tetrachloroethene	0.528	0.0180	0.100	н	н .	H .	н	*1	п	
T' 'ene	ND	0.0180	0.100	*11	11	*	н	"	**	
Trichlorobenzene	ND	0.0120	0.100	**	11	. "	н	**	n	
1.2,4-Trichlorobenzene	ND	0.0110	0.100	11	u	H	**	**	н	
1,1,1-Trichloroethane	ND	0.0100	0.100	tt	H	•	tr	***	н	
1,1,2-Trichloroethane	ND	0.0200	0.100	u	**	111	tr.	**	***	
Trichloroethene	ND	0.0230	0.100	311	'n	"	н	*1	Ħ	
Trichlorofluoromethane	ND	0.0150	0.100	n	н	**	н	**	n	
1,2,3-Trichloropropane	ND	0.0150	0.100	**	n	**	71	m	n	
1,2,4-Trimethylbenzene	ND	0.00900	0.100	r	н	"	tt	**	11	
1,3,5-Trimethylbenzene	ND	0.0180	0.100	n	н	*	**	н	41	
Vinyl chloride	ND	0.0130	0.100	**	,	*	**	m.	н	
m,p-Xylene	ND	0.0370	0.200	*1	н	**	· w	tr.	н	
o-Xylene	ND	0.0170	0.100	Ħ	۳.	11	н	11	н	
Surrogate: 1,2-DCA-d4	101 %		57-1	39		"	"	н	"	
Surrogate: Toluene-d8	92.7 %		66-1	22		"	"	"	"	
Surrogate: 4-BFB	96.4 %		62-1	21		"	. "	"	H	

'ı Creek Analytical - Bothell

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Scott A. Woerman, Project Manager

North Creek Analytical, Inc.

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Geo Engineers - Seattle

Project: American Linen/Seattle

00 Stewart Street, Suite 1420 seattle WA, 98101

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported: 08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB4-7-17.5 (B1G0503-07) Soil	Sampled: 07/1	8/01 10:27	Received:	07/23/01 1	4:15			a * 1 a		
Acetone	ND	0.0650	1.00 r	ng/kg dry	1	1G24032	07/24/01	07/27/01	EPA 8260B	
Benzene	ND	0.0190	0.100	- 11	н	n	n	1100	n	
Bromobenzene	ND	0.0140	0.100	н	н	н	11	11	н	
Bromochloromethane	ND	0.0220	0.100	n	н	"	•	"	н	
Bromodichloromethane	ND	0.0150	0.100	41	**	н	n	н		
Bromoform	ND	0.00900	0.100	11	."	н	H	tr	**	
Bromomethane	ND	0.0230	0.100	11	**	11	н	B	n	
2-Butanone	ND	0.0720	1.00	11	"	**	Ħ	11	11	
n-Butylbenzene	ND	0.0180	0.100	*1	**	11	11	II	100	
sec-Butylbenzene	ND	0.0180	0.100	11	**	**	11	**	*1	
tert-Butylbenzene	ND	0.0180	0.100	**	n	11	11	"	"	
Carbon disulfide	ND	0.00700	0.100	11	n	n	••	"	и	
Carbon tetrachloride	ND	0.0150	0.100	11	n	н	•		**	
C'irobenzene	ND	0.0150	0.100	11	н	н	n	11	**	
coethane	ND	0.0140	0.100	11	ii.	н	11	ņ	н	
Chloroform	ND	0.0180	0.100	11	n	н	n	n .	11	
hloromethane	ND	0.0110	0.500	11	n	**	n	m	n	
Chlorotoluene	ND	0.0160	0.100	Ħ	**	**	н	11%	m:	
4-Chlorotoluene	ND	0.0150	0.100	11	, HC	H	**	11	н	
Dibromochloromethane	ND	0.0100	0.100	11	tr	**	**	**	11	
1,2-Dibromo-3-chloropropane	ND	0.0280	0.500	41	n	w	n	n	11	
1,2-Dibromoethane	ND	0.0130	0.100	11	**	**	n	**	11	
Dibromomethane	ND	0.0180	0.100	*1	**	п	n	"	n	
1,2-Dichlorobenzene	ND	0.0150	0.100	н	tt	11	н	11	n	
1,3-Dichlorobenzene	ND	0.0130	0.100	**	н	н	ii.	Ħ	н	
1.4-Dichlorobenzene	ND	0.0160	0.100	**	H	n		**	**	
Dichlorodifluoromethane	ND	0.0290	0.100	11	n	н		*1	**	
1,1-Dichloroethane	ND	0.0200	0.100	**	**	**	•	Ħ	"	
1,2-Dichloroethane	ND	0.0250	0.100	**	Ħ	**	н	H	**	
1,1-Dichloroethene	ND	0.0140	0.100	n	н	ti	n	Ĥ	н	
cis-1,2-Dichloroethene	ND	0.0260	0.100	11	. "	н	H	**	Ħ	
trans-1,2-Dichloroethene	ND	0.0130	0.100	н	н	**	**	н	n	
1,2-Dichloropropane	ND	0.0180	0.100	п	п	и	**	"	M	
1,3-Dichloropropane	ND	0.0140	0.100	11	"	**	11	11	**	
2,2-Dichloropropane	ND	0.0140	0.100	11	**	**	u	11	n	
1,1-Dichloropropene	ND	0.0220	0.100	16		н	"	"	11	
cis-1,3-Dichloropropene	ND	0.0140	0.100	11		н		"	н	
	ND	0.00900	0.100			"	*	#	п	
trans-1,3-Dichloropropene	עא	0.00900	0.100							

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503.906.9200 fax 503.906.9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

Project Manager: Dave Cook

Reported: 08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB4-7-17.5 (B1G0503-07) Soil	Sampled: 07/	18/01 10:27	Received: 0	7/23/01 1	4:15					
Ethylbenzene	ND	0.0190	0.100 m	g/kg dry	1	1G24032	07/24/01	07/27/01	EPA 8260B	·
Hexachlorobutadiene	ND	0.0210	0.100		*	**	n	н	•	
2-Hexanone	ND	0.0480	1.00	ш	**	11	11	n	11	
Isopropylbenzene	ND	0.0190	0.100	п		n	*1	n	95	
p-Isopropyltoluene	ND	0.0170	0.100	.01	**	n	**	"	77	
Methylene chloride	0.0818	0.0170	1.00	n	н	**	11	н	11.	j
4-Methyl-2-pentanone	ND	0.0650	1.00	11	Ħ	•	"	er.	31	
Naphthalene	ND	0.0140	0.100	n	•	*		11	**	
n-Propylbenzene	ND	0.0160	0.100	11	н	**	**	M Z	n	
Styrene	ND	0.0170	0.100	11	H	n	·	н	**	
1,1,1,2-Tetrachloroethane	ND	0.0150	0.100	11	u	н	"	"		
1,1,2,2-Tetrachloroethane	ND	0.0140	0.100	11	п	n	**	"	и	
Tetrachloroethene	12.9	0.0180	0.100	U	41	n	*11	Ü	n	E
T rene	ND	0.0180	0.100	n	**	**	H	n	,,	
-Trichlorobenzene	ND	0.0120	0.100	n	н	n	m	n	11	
1,2,4-Trichlorobenzene	ND	0.0110	0.100	п	u	n	н	и	111	
1,1,1-Trichloroethane	ND	0.0100	0.100	п	Ħ	п	n	**	"	
1,1,2-Trichloroethane	ND	0.0200	0.100	H	**		Ħ	"	и	
Trichloroethene	ND	0.0230	0.100	u	**	н	**	"	н	
Trichlorofluoromethane	ND	0.0150	0.100	311	. н	н	11	"	11	
1,2,3-Trichloropropane	ND	0.0150	0.100	11	н	H	"	**	11	
1,2,4-Trimethylbenzene	0.110	0.00900	0.100	ii	u	Ħ	11	n	n	
1,3,5-Trimethylbenzene	ND	0.0180	0.100	11	н	Ħ	**	**	n.	
Vinyl chloride	ND	0.0130	0.100	11 .	"	n	**	= H	**	
m,p-Xylene	ND	0.0370	0.200	11	эн	**	Ħ	п	**	
o-Xylene	ND	0.0170	0.100	11	H	n	н	P	rr .	
Surrogate: 1,2-DCA-d4	102 %		57-139	9:		"	н	"	н	
Surrogate: Toluene-d8	87.0 %	*	66-122	2		"	n	n	"	
Surrogate: 4-BFB	94.4 %		62-12	l .		"	n	н	"	

ት Creek Analytical - Bothell

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Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported: 08/03/01 18:59

Geo Engineers - Seattle 30 Stewart Street, Suite 1420 eattle WA, 98101

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	Re MDL	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB4-7-17.5 (B1G0503-07RE1) Soil	Sampled:	07/18/01 10:27	Receiv	ed: 07/23/	01 14:15			,		
Acetone	ND	0.325		ng/kg dry	5	1G24032	07/24/01	07/27/01	EPA 8260B	
Benzene	ND	0.0950	0.500	"	Ħ	Ħ	н	n		
Bromobenzene	ND	0.0700	0.500	rı	**	**	111	u	••	
Bromochloromethane	ND	0.110	0.500	•	**	н	н	11	н	
Bromodichloromethane	ND	0.0750	0.500	11	H	41	н	**	. "	
Bromoform	ND	0.0450	0.500	11	. "	**	••	Ħ	н	
Bromomethane	ND	0.115	0.500	*1	H	11	n	ä	n	
2-Butanone	ND	0.360	5.00	**	Ħ	Ħ	н	n	H.	
n-Butylbenzene	ND	0.0900	0.500	n	11	н	"	u	**	
sec-Butylbenzene	ND ·	0.0900	0.500	**	**	Ħ	81	н	**	
tert-Butylbenzene	ND	0.0900	0.500	Ħ	**	. "	**	11	**	
Carbon disulfide	ND	0.0350	0.500	11	*1	n		"	•	
Carbon tetrachloride	ND	0.0750	0.500	11	w .	и	**	v	w	
O' 'probenzene	ND	0.0750	0.500	II	**	"	н	ij	n	
roethane	ND	0.0700	0.500	tt	**	11		ij	**	
Chloroform	ND	0.0900	0.500	tr	**	*	**	,,	**	
hloromethane	ND	0.0550	2.50	11	•	H	Ħ	11	m	
Chlorotoluene	ND	0.0800	0.500	11	**	н	n	**	W	
4-Chlorotoluene	ND	0.0750	0.500	ш		н	11	ú	n	
Dibromochloromethane	ND	0.0500	0.500	H	**		"	tí	11	
1,2-Dibromo-3-chloropropane	ND	0.140	2.50	11	*1	n	11	u	и	
1,2-Dibromoethane	ND	0.0650	0.500	н	"	**	11	11	**	
Dibromomethane	ND	0.0900	0.500	11	**	**	11	и	TE.	
1,2-Dichlorobenzene	ND	0.0750	0.500	II	n	**	tt	**	**	
,3-Dichlorobenzene	ND	0.0650	0.500	11	н	"	H	n	н	
,4-Dichlorobenzene	ND	0.0800	0.500	n	"	и	н	н	11	
Dichlorodifluoromethane	ND	0.145	0.500	H	н	н	"	п	,,	
1,1-Dichloroethane	ND	0.100	0.500	**	**	"	"	н		
,2-Dichloroethane	ND	0.125	0.500	**	н .		н	ŧ1		
1,1-Dichloroethene	ND	0.0700	0.500	н	н	н	н	**	n	
cis-1,2-Dichloroethene	ND	0.130	0.500	11	н	"	**	Ħ	et :	
rans-1,2-Dichloroethene	ND	0.0650	0.500	11	н	**	**	311	n.	
1,2-Dichloropropane	ND	0.0900	0.500	n	n:	11	**	н	**	
1,3-Dichloropropane	ND	0.0700	0.500	11	н	**		н		
2,2-Dichloropropane	ND	0.0650	0.500	11.		11	n	**	**	
1,1-Dichloropropene	ND	0.110	0.500	11		**	ir	**		
cis-1,3-Dichloropropene	ND	0.0700	0.500	11		**	Ü		n	
rans-1,3-Dichloropropene	ND	0.0450	0.500	**	**	"	11	**		

h Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This

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North Creek Analytical, Inc. **Environmental Laboratory Network**

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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

Project Manager: Dave Cook

Reported:

08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	Re MDL	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB4-7-17.5 (B1G0503-07RE1) Soil	Sampled:	07/18/01 10:27	Recei	ved: 07/23/	01 14:15					
Ethylbenzene	ND	0.0950	0.500	mg/kg dry	5	1G24032	07/24/01	07/27/01	EPA 8260B	
Hexachlorobutadiene	ND	0.105	0.500	n	. n	H	W	*	H	
2-Hexanone	ND	0.240	5.00	**	н	**	н	**	п	
Isopropylbenzene	ND	0.0950	0.500	ēt.	TI.	н	н	**	**	
p-Isopropyltoluene	ND	0.0850	0.500	n	H	н	**	"	**	
Methylene chloride	ND	0.0850	5.00		**	н	н	"	11	
4-Methyl-2-pentanone	ND	0.325	5.00	н	н	н	н	U	¥I	
Naphthalene	ND	0.0700	0.500	11	11	Ħ	н	н	н	
n-Propylbenzene	ND	0.0800	0.500	**	**		**	**	11	
Styrene	ND	0.0850	0.500	**	**	**	**	н	11	
1,1,2-Tetrachloroethane	ND	0.0750	0.500	н	H	н	11	**	***	
1,1,2,2-Tetrachloroethane	ND	0.0700	0.500	**	**		**	: !!	***	
Tetrachloroethene	13.2	0.0900	0.500	n	n	Ħ	н	n	**	
T. i ene	ND	0:0900	0.500	n	н	н	н			
-Trichlorobenzene	ND	0.0600	0.500	**	"	н	n	••	**	
1,2,4-Trichlorobenzene	ND	0.0550	0.500	n	и	H	н	n	Pt.	
1,1,1-Trichloroethane	ND	0.0500	0.500	11	n		H			
1,1,2-Trichloroethane	ND	0.100	0.500	n	**	Ħ	H			
Trichloroethene	ND	0.115	0.500	11	н	**	**	ш	не	
Trichlorofluoromethane	ND	0.0750	0.500	tt	*	n	п	п	, HO	
1,2,3-Trichloropropane	ND	0.0750	0.500	n	.11	н	er.	n	"	
1,2,4-Trimethylbenzene	ND	0.0450	0.500	11	3 H.S	Ħ	**	n	**	
1,3,5-Trimethylbenzene	ND	0.0900	0.500	111	*	*	**	11	11	
Vinyl chloride	ND	0.0650	0.500	"	n	•	**	11	,,	
m,p-Xylene	ND	0.185	1.00	11	**	Ħ	41		•	
o-Xylene	ND	0.0850	0.500		**		97	n	п	
Surrogate: 1,2-DCA-d4	100 %		57-1	39		"	п	"	"	
Surrogate: Toluene-d8	89.5 %		66-1	22		н	n	"	"	
Surrogate: 4-BFB	100 %		62-1	21		н	"	"	u .	

h Creek Analytical - Bothell

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Geo Engineers - Seattle

00 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported: 08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

			Reporting							
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB4-13-32.5 (B1G0503-08) Soil	Sampled: 07/	18/01 13:55	Received:	07/23/01	14:15					
Acetone	ND	0.0650		ng/kg dry	1	1G24032	07/24/01	07/25/01	EPA 8260B	
Benzene	ND	0.0190	0.100	u	- 11	H	W.	**	11	
Bromobenzene	ND	0.0140	0.100	11	"	"	"	**	44	
Bromochloromethane	ND	0.0220	0.100	i N	"	H	"	"	**	
Bromodichloromethane	ND	0.0150	0.100	H	н	"	"	н	**	
Bromoform	ND	0.00900	0.100	Ħ	"	11	"	**	71	
Bromomethane	ND	0.0230	0.100	"	"	ū	"	11	**	
2-Butanone	ND	0.0720	1.00	n	"	"	**	u.	11	
n-Butylbenzene	ND	0.0180	0.100	n	н	"	**	3H	11	
sec-Butylbenzene	ND	0.0180	0.100	n		H	**	н	11	
tert-Butylbenzene	ND	0.0180	0.100	"	H	n		n	n	
Carbon disulfide	ND	0.00700	0.100	Ħ	**	"	"	u	TI.	
Carbon tetrachloride	ND	0.0150	0.100	н	"	"		"	н	
C' 'robenzene	ND	0.0150	0.100	"	11	*1	**	11	H	
roethane	ND	0.0140	0.100	11	Ħ	н	11	Ħ	**	
Chloroform	ND	0.0180	0.100	11	Ħ	11	"	"	**	
aloromethane	ND	0.0110	0.500	u	н	п	11	.11	11	
Chlorotoluene	ND	0.0160	0.100	#	н	н	н	11	11	
4-Chlorotoluene	ND	0.0150	0.100	11	۳.	н	**	"	"	
Dibromochloromethane	ND	0.0100	0.100	Ħ	"	11	**	H	11	
1,2-Dibromo-3-chloropropane	ND	0.0280	0.500	11	et	11	"	н	n	
1,2-Dibromoethane	ND	0.0130	0.100	*1	Ħ	н	H	n	"	
Dibromomethane	ND	0.0180	0.100	11	**	11	**	n	11	
1,2-Dichlorobenzene	ND	0.0150	0.100	**	Ħ	н	**	-11	· ·	
1,3-Dichlorobenzene	ND	0.0130	0.100	11	н	**	11	**	"	
1,4-Dichlorobenzene	ND	0.0160	0.100	Ħ	#	н	"	u	u	
Dichlorodifluoromethane	ND	0.0290	0.100	11		н	ij	"	n	
1,1-Dichloroethane	ND '	0.0200	0.100	u	**	**	ű	n	п	
1,2-Dichloroethane	ND	0.0250	0.100	u	4	**	11	"	"	
1,1-Dichloroethene	ND	0.0140	0.100	u	н	**	11	**	п	
cis-1,2-Dichloroethene	ND	0.0260	0.100	n	**	**	Ħ	Ħ	311	
trans-1,2-Dichloroethene	ND	0.0130	0.100	**	н	m.	**	**	Set	
1,2-Dichloropropane	ND	0.0180	0.100	. "	н	н	н	11	11	
1,3-Dichloropropane	ND	0.0140	0.100	**	н	W	н	u u		
2,2-Dichloropropane	ND	0.0130	0.100	0	н	"	**	11	"	
1,1-Dichloropropene	ND	0.0220	0.100	n	n	41		н	н	
cis-1,3-Dichloropropene	ND	0.0140	0.100	11	н	**	,	n	••	
trans-1,3-Dichloropropene	ND	0.00900	0.100	u u	**	**	н	**	2311	

h Creek Analytical - Bothell

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Geo Engineers - Seattle

Project: American Linen/Seattle

600 Stewart Street, Suite 1420 Seattle WA, 98101

Project Number: 8673-001-01 · Project Manager: Dave Cook

Reported: 08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Anaiyte	Result	MDL ·	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB4-13-32.5 (B1G0503-08) Soil	Sampled: 07/	18/01 13:55	Received:	07/23/01	14:15				·	
Ethylbenzene	ND	0.0190	0.100 n	ng/kg dry	1	1G24032	07/24/01	07/25/01	EPA 8260B	
Hexachlorobutadiene	ND	0.0210	0.100	*1	n	H	п.	Ħ	*	
2-Hexanone	ND	0:0480	1.00	11	н	н	**	**	**	
Isopropylbenzene	ND	0.0190	0.100	*1	311	n	**	**	ж	
p-lsopropyltoluene	ND	0.0170	0.100	11	w	**	11	्या	н	
Methylene chloride	0.253	0.0170	1.00	11	**	rt	Ħ			B,J
4-Methyl-2-pentanone	ND	0.0650	1.00	ii.	**	.11	н	**	n	
Naphthalene	ND	0.0140	0.100	***	11	n	71	17	**	
n-Propylbenzene	ND	0.0160	0.100	"	"	Ħ	Ħ	*1	"	
Styrene	ND	0.0170	0.100	H	u	**	**	n	n	
1,1,1,2-Tetrachloroethane	ND	0.0150	0.100	Ħ	n	11	tr	**	**	
1,1,2,2-Tetrachloroethane	ND	0.0140	0.100	n	n	11	n	H	n.	
Tetrachloroethene	5.70	0.0180	0.100	11		n	Ħ	21	391	
T 'ene	ND	0.0130	0.100	**	- 11	н	"	Ħ	н	
-Trichlorobenzene	ND	0.0120	0.100	41	tt	"	H		H	
1,2,4-Trichiorobenzene	ND	0.0110	0.100	ш ,	"	Ħ	*		n .	
1,1,1-Trichloroethane	ND	0.0100	0.100	lt .	**	"	n	**	n	
1,1,2-Trichloroethane	ND	0.0200	0.100	н	п	н		tr	н	
Trichloroethene	0.175	0.0230	0.100	н	11	**	lt .	**	н	
Trichlorofluoromethane	ND	0.0150	0.100	**	. "	**	**	**	и	
1,2,3-Trichloropropane	. ND	0.0150	0.100	**	H	H :	н	Ħ	#	
1,2,4-Trimethylbenzene	0.123	0.00900	0.100	11	**	**	10	*1	in	
1.3,5-Trimethylbenzene	ND	0.0180	0.100	19	**	Ħ	H	**	н	
Vinyl chloride	ND	0.0130	0.100	н		*	Ħ		н	
m,p-Xylene	ND	0.0370	0.200	"	H		**	n	**	
o-Xylene	ND	0.0170	0.100	11	*	п	n	"	Ħ	
Surrogate: 1,2-DCA-d4	102 %		57-13	39		"	n	н	н	-
Surrogate: Toluene-d8	88.5 %		66-12	22		#	н	н	"	
Surrogate: 4-BFB	93.9 %		62-12	21		"	"	н	"	

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Geo Engineers - Seattle

00 Stewart Street, Suite 1420

Leattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported: 08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte Result MDL Limit Units Dilution Batch Prepared Analyzed Method	Notes
Acetone ND 0.0650 1.00 mg/kg dry 1 1G24032 07/24/01 07/24/01 EPA 8260B Benzene ND 0.0190 0.100 " <	
Benzene ND 0.0190 0.100 "	
Bromobenzene ND 0.0140 0.100 " " " " " " " " " " " " " " " " " "	
Bromochloromethane ND 0.0220 0.100 "	
Bromodichloromethane ND 0.0150 0.100 " <th< td=""><td></td></th<>	
Bromoform ND 0.00900 0.100 "	
Bromomethane ND 0.0230 0.100 " " " " " " " " " " " " " " " " " "	
2-Butanone ND 0.0720 1.00 " " " " " "	
n-Butylbenzene ND 0.0180 0.100 " " " " " "	
sec-Butylbenzene ND 0.0180 0.100 " " " " " "	
tert-Butylbenzene ND 0.0180 0.100 " " " " " "	
Carbon disulfide ND 0.00700 0.100 " " " " " "	
Carbon tetrachloride ND 0.0150 0.100 " " " " " "	
C' 'robenzene ND 0.0150 0.100 " " " " " "	
Octhane ND 0.0140 0.100 " " " " " " "	
Chloroform ND 0.0180 0.100 " " " " " "	
loromethane ND 0.0110 0.500 " " " " " "	
Chlorotoluene ND 0.0160 0.100 " " " " " "	
4-Chlorotoluene ND 0.0150 0.100 " " " " " "	
Dibromochloromethane ND 0.0100 0.100 " " " " " "	
1,2-Dibromo-3-chloropropane ND 0.0280 0.500 " " " " " " "	
1,2-Dibromoethane ND 0.0130 0.100 " " " " " "	
Dibromomethane ND 0.0180 0.100 " " " " " "	
1,2-Dichlorobenzene ND 0.0150 0.100 " " " " " "	
1,3-Dichlorobenzene ND 0.0130 0.100 " " " " " " "	
1,4-Dichlorobenzene ND 0.0160 0.100 " " " " " "	
Dichlorodifluoromethane ND 0.0290 0.100 " " " " " "	
1,1-Dichloroethane ND 0.0200 0.100 " " " " " " " " " " " " " " " " " "	
1,2-Dichlorocalate 10.0250 0.100	
CIS-1,2-DICHIOI DELICITE 11D 0.0250 0.100	
Halls-1,2-Dictioloculation	
1,2-Dichlorophopane 10 0.0180 0.100	
1,5-Dictiolopiopare 105 0.0140 0.100	
2,2-Dichiolophopane 14D 0.0130 0.100	
1,1-Dichloropropene ND 0.0220 0.100 " " " " " "	
cis-1,3-Dichloropropene ND 0.0140 0.100 " " " " " " "	
trans-1,3-Dichloropropene ND 0.00900 0.100 " " " " " "	

'n Creek Analytical - Bothell

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Portland

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503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

Project Manager: Dave Cook

Reported:

08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB4-15-37.5 (B1G0503-09) Soil	Sampled: 07/2	18/01 14:10	Received:	07/23/01	14:15	·				
Ethylbenzene	ND	0.0190	0.100 r	ng/kg dry	1	1G24032	07/24/01	07/24/01	EPA 8260B	
Hexachlorobutadiene	ND	0.0210	0.100	**		**	**	**	•	
2-Hexanone	ND	0.0480	1.00	**	n	*	"	H	н	
Isopropylbenzene	ND	0.0190	0.100	11	n	11	**	n	Ħ	
p-Isopropyltoluene	ND	0.0170	0.100	11	•	II	**	91	rr	
Methylene chloride	0.0842	0.0170	1.00	17	15	н	"	н	"	J
4-Methyl-2-pentanone	ND	0.0650	1.00	1:	. 11	**	**	н	**	
Naphthalene	ND	0.0140	0.100	н	11	**	r	**	"	
n-Propylbenzene	ND	0.0160	0.100	11	**	Ħ	"	11	"	1
Styrene	ND	0.0170	0.100	17	н	н	n	n	n	
1,1,1,2-Tetrachloroethane	ND	0.0150	0.100	**	"	n	n	н		
1,1,2,2-Tetrachloroethane	ND	0.0140	0.100	11	tr.	н	**	н		
Tetrachloroethene	0.581	0.0180	0.100	н.,	Ħ	н	п	**	н	
T 'ene	ND	0.0180	0.100	Ħ	11	**	н	11	W.	
-Trichlorobenzene	ND	0.0120	0.100	"	"	"	"	"	и	
1,2,4-Trichlorobenzene	ND	0.0110	0.100	ŧt.	н	"	•	"	п	
1,1,1-Trichloroethane	ND	0.0100	0.100	н	11	**	"	"	H	
1,1,2-Trichloroethane	ND	0.0200	0.100	**	n	**	***	11	н	
Trichloroethene	ND	0.0230	0.100	. 11		н	**	n	Ħ	
Trichlorofluoromethane	ND	0.0150	0.100	Ħ	н	н	Ħ	н	11	
1,2,3-Trichloropropane	ND	0.0150	0.100	11	**	M.	n	**	**	
1,2,4-Trimethylbenzene	0.0611	0.00900	0.100	н	11	11	π	Ħ	н	J
1,3,5-Trimethylbenzene	ND	0.0180	0.100	11	**		Ħ	Ħ	п	
Vinyl chloride	ND	0.0130	0.100	Ħ	. "	н	w	"	"	
m,p-Xylene	ND	0.0370	0.200	**	Ħ	н	н	**	н	
o-Xylene	ND	0.0170	0.100	. 11	. н	11	п	11	n	
Surrogate: 1,2-DCA-d4	104 %		57-1	39	19	. "	"	***	н	
Surrogate: Toluene-d8	94.3 %		66-1	22		"	H	"	"	
Surrogate: 4-BFB	101 %		. 62-1	21		н	"	n	"	

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Geo Engineers - Seattle

500 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

Project Manager: Dave Cook

Reported:

08/03/01 18:59

TCLP Volatile Organic Compounds by EPA Method 1311/8260B North Creek Analytical - Bothell

Analyte	Result MD	Reporting DL Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-8-20 (B1G0503-02) Soil	Sampled: 07/20/01 09:	55 Received:	07/23/01	14:15					
Benzene	ND	0.0800	mg/l	1	1H01013	08/01/01	08/01/01	EPA 8260B	
2-Butanone	ND	0.800	10	Ħ	"	:11	*1	11	
Carbon tetrachloride	ND	0.0800	**	эн.	н	11	n	**	
Chlorobenzene	ND	0.0800	11	11	**	n	11	11	
Chloroform	ND	0.0800	. 11	n	**	**	ŧi.	. 17	В
1,2-Dichloroethane	ND	0.0800	•1	11	"	**	**	**	
1,1-Dichloroethene	ND	0.0800	11	**	н	н	11	н	
Tetrachloroethene	17.6	0.0800	н	•	н	н	"	••	B,E
Trichloroethene	ND	0.0800	**	**	**	11	**	***	5 0.53%
Vinyl chloride	ND	0.0800		"	"	.11	н	H	
Surrogate: 1,2-DCA-d4	96.4 %	80-1.	20		"	"	"	"	
Surrogate: Toluene-d8	93.4 %	80-1.	20		"	"	"	"	
Surrogate: 4-BFB	104 %	80-1.	20		"	· n.	n:	3 <i>11</i>	
1-8-20 (B1G0503-02RE2) S	Soil Sampled: 07/20/01	1 09:55 Receiv	ed: 07/23	/01 14:15					
Benzene	ND	16.0	mg/l	200	1H01013	08/01/01	08/01/01	EPA 8260B	
-Butanone	ND	160	W	11	R	H.	11	SINC.	
arbon tetrachloride	ND	16.0	91	11	п	п	"	***	
Chlorobenzene	ND	16.0	11	**	n	11	"	11	
Chloroform	ND	16.0	91	**	п	*1	41	**	В
1,2-Dichloroethane	ND	16.0	11	"	н	"	"	••	
1,1-Dichloroethene	ND	16.0	**	**	n	44	ü	"	
Tetrachloroethene	99.3	16.0	**	11	et .	н	H	**	В
Trichloroethene	ND	16.0	11	Ħ	n	***	ांश	811	
Vinyl chloride	ND	16.0	.11	п	"	11	11	и	
Surrogate: 1,2-DCA-d4	96.0 %	80-12	20		"	"	"	"	
Surrogate: Toluene-d8	91.9 %	80-12	20		"	"	n	"	
Surrogate: 4-BFB	93.5 %	80-12	20		"	**	11	"	

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Geo Engineers - Seattle

Project: American Linen/Seattle

600 Stewart Street, Suite 1420 Seattle WA, 98101

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported:

08/03/01 18:59

TCLP Volatile Organic Compounds by EPA Method 1311/8260B North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB4-7-17.5 (B1G0503-07) Soil	Sampled: 07/18/	01 10:27	Received: 0	7/23/01	14:15			100-140		
Benzene	ND		0.0800	mg/l	1	1H01013	08/01/01	08/01/01	EPA 8260B	
2-Butanone	ND	6	0.800	**	#	"	ņ	**	•	
Carbon tetrachloride	ND		0.0800	n	**	•	26	**	Ħ	
Chiorobenzene	ND		0.0800	н	Ħ	"	· H	11	н	
Chloroform	ND		0.0800	11	11	"	10	11	н	В
1,2-Dichloroethane	ND		0.0800	11	н	11	. #	b .		
1,1-Dichloroethene	ND		0.0800	11	**	,,	**	н	**	
Tetrachloroethene	0.182		0.0800	н	n	H	11:	M	w	В
Trichloroethene	ND		0.0800	н	**	n	111	н		
Vinyl chloride	ND		0.0800	, M	**	#	. и	*1	*	
Surrogate: 1,2-DCA-d4	96.9 %		80-12	20		"	"	"	"	
Surrogate: Toluene-d8	79.0 %		80-12	20		н	**	"	H	S-03
Surrogate: 4-BFB	94.6 %		80-12	20		11	"	"	"	



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Geo Engineers - Seattle

00 Stewart Street, Suite 1420

attle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

Project Manager: Dave Cook

Reported: 08/03/01 18:59

Physical Parameters by APHA/ASTM/EPA Methods North Creek Analytical - Bothell

Analyte	Result MD	Reporting L Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-3-8 (B1G0503-01) Soil	Sampled: 07/20/01 08:56	Received: 0'	7/23/01	14:15					
Dry Weight	86.5	1.00	%	1	1G26007	07/26/01	07/27/01	BSOPSPL00	
MW1-8-20 (B1G0503-02) Soil	Sampled: 07/20/01 09:5	55 Received: (07/23/01	14:15				3R07	
Dry Weight	88.0	1.00	%	1	1G26007	07/26/01	07/27/01	BSOPSPL00	
MW1-11-27.5 (B1G0503-03) Sc	il Sampled: 07/20/01 1	0:45 Receive	d: 07/23	/01 14:15				3R07	
Dry Weight	91.3	1.00	%	1	1G26007	07/26/01	07/27/01	BSOPSPL00	
MW1-13-32.5 (B1G0503-04) So	il Sampled: 07/20/01 1	1:20 Receive	d: 07/23	01 14:15				3R07	
Dry Weight	87.2	1.00	%	1	1G26007	07/26/01	07/27/01	BSOPSPL00	
SB4-4-10 (B1G0503-06) Soil S	Sampled: 07/18/01 09:55	Received: 07	/23/01 1	4:15				3R07	
Dry Weight	90.7	1.00	%	1	1.G26007	07/26/01	07/27/01	BSOPSPL00	
574-7-17.5 (B1G0503-07) Soil	Sampled: 07/18/01 10:2	7 Received:	07/23/01	14:15				3R07	
L., Weight	83.6	1.00	%	1	1G26007	07/26/01	07/27/01	BSOPSPL00	
34-13-32.5 (B1G0503-08) Soil	Sampled: 07/18/01 13:	:55 Received:	07/23/0	1 14:15				3R07	
y Weight	86.5	1.00	%	1 .	1G26007	07/26/01	07/27/01	BSOPSPL00	
SB4-15-37.5 (B1G0503-09) Soil	Sampled: 07/18/01 14:	10 Received:	07/23/0	1 14:15				3R07	
Dry Weight	88.2	1.00	%	1	1G26007	07/26/01	07/27/01	BSOPSPL00 3R07	

'ı Creek Analytical - Bothell

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Geo Engineers - Seattle

Project: American Linen/Seattle

600 Stewart Street, Suite 1420

Project Number: 8673-001-01

Reported:

Seattle WA, 98101

Project Manager: Dave Cook

08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	_Notes
Batch 1G24032:	Prepared 07/24/01	Using EPA	5030B [P/]	r]							
Blank (1G24032-BL	K1)										
Acetone	ND	0.0650	1.00	mg/kg							
Benzene	ND	0.0190	0.100	"							
Bromobenzene	ND	0.0140	0.100	н							
Bromochloromethane	ND	0.0220	0.100	**							
Bromodichloromethane	ND	0.0150	0.100	н							
Bromoform	ND	0.00900	0.100	•							
Bromomethane	ND	0.0230	0.100	**	ē.						
2-Butanone	ND	0.0720	1.00	н							
n-Butylbenzene	NE	0.0180	0.100	**							
sec-Butylbenzene	NE	0.0180	0.100	Ħ							
ntylbenzene	NI	0.0180	0.100	"							
on disulfide ومرية	NE	0.00700	0.100	н							
Carbon tetrachloride	NE	0.0150	0.100	**					1000		
Chlorobenzene	NI	0.0150	0.100	**							
Chloroethane	NI	0.0140	0.100	н							
Chloroform	NE	0.0180	0.100								
Chloromethane	NI	0.0110	0.500	"							
2-Chlorotoluene	NI	0.0160	0.100	**					*		
4-Chlorotoluene	NI	0.0150	0.100	"							
Dibromochloromethane	NI	0.0100	0.100	"							
1,2-Dibromo-3-chlorop	ropane NI	0.0280	0.500	11	ti .						
1,2-Dibromoethane	NI	0.0130	0.100	"							
Dibromomethane	NI	0.0180	0.100	"							
1,2-Dichlorobenzene	NI	0.0150	0.100	"							
1,3-Dichlorobenzene	NI	0.0130	0.100	Ħ							
1,4-Dichlorobenzene	NI	0.0160	0.100	*							
Dichlorodifluoromethar	ne NI	0.0290	0.100	n							
1,1-Dichloroethane	NI	0.0200	0.100	, н							
1,2-Dichloroethane	NI	0.0250	0.100) "							
1,1-Dichloroethene	NI	0.0140	0.100	"							
cis-1,2-Dichloroethene	NI	0.0260	0.100) "							

'ı Creek Analytical - Bothell

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Geo Engineers - Seattle

500 Stewart Street, Suite 1420 Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported: 08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

Analyte	Resu	lt MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	_Notes
Batch 1G24032:	Prepared 07/24/01	Using EPA	5030B [P/7	Γ]				**************************************			
Blank (1G24032-BL)											
trans-1,2-Dichloroethen	N	D 0.0130	0.100	mg/kg							
1,2-Dichloropropane	N	O.0180	0.100								
1,3-Dichloropropane	N	0.0140	0.100	W							
2,2-Dichloropropane	N	0.0130	0.100								
1,1-Dichloropropene	N	0.0220	0.100	н							
cis-1,3-Dichloropropene	N	0.0140	0.100	11							
trans-1,3-Dichloroproper	ne Ni	0.00900	0.100	ñ		·					
Ethylbenzene	NI	0.0190	0.100	"							
Hexachlorobutadiene	N	0.0210	0.100	"							
2-Hexanone	NI	0.0480	1.00	. **							
ls: hpylbenzene	NI	0.0190	0.100	н							
ropyltolueneپر	NI	0.0170	0.100	н							
1ethylene chloride	NI	0.0170	1.00	н							
Methyl-2-pentanone	NI	0.0650	1.00	n							
Naphthalene	NI	0.0140	0.100	111							
n-Propylbenzene	NI	0.0160	0.100	ett.							
Styrene	NI	0.0170	0.100	11							
1,1,1,2-Tetrachloroethan	e NI	0.0150	0.100	et				×			
1,1,2,2-Tetrachloroethan	e NI	0.0140	0.100	**							
Tetrachloroethene	NI	0.0180	0.100	71							
Toluene	NI	0.0180	0.100	**							
,2,3-Trichlorobenzene	NI	0.0120	0.100	**							
,2,4-Trichlorobenzene	NI	0.0110	0.100	н							
,1,1-Trichloroethane	NI		0.100	Ħ							
,1,2-Trichloroethane	NI		0.100	н							
Trichloroethene	NI		0.100	11							
Trichlorofluoromethane	NI	0.0150	0.100	Ħ							
,2,3-Trichloropropane	NI		0.100	**							
,2,4-Trimethylbenzene	NI		0.100	11							
,3,5-Trimethylbenzene	NI		0.100	**							
Vinyl chloride	NI		0.100	11							
n,p-Xylene	NI		0.200	**							

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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

Project Manager: Dave Cook

Reported:

08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

Analyte		Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	_ Notes
Batch 1G24032:	Prepared	1 07/24/01 Us	sing EPA 5	030B [P/]	[]							
Blank (1G24032-BL)	K1)											
o-Xylene	16. 10. 31	ND	0.0170	0.100	mg/kg							
Surrogate: 1,2-DCA-d4		4.90			н	4.00		122	57-139			
Surrogate: Toluene-d8		4.19			"	4.00		105	66-122			
Surrogate: 4-BFB		4.43	*		#	4.00		111	62-121			
Blank (1G24032-BLI	K2)											
Acetone		ND	0.0650	1.00	mg/kg							
Benzene		ND	0.0190	0.100								
Bromobenzene		ND	0.0140	0.100	ЭН 2							
Bromochloromethane		ND	0.0220	0.100	"							
Bromodichloromethane		ND	0.0150	0.100	**							
oform		ND	0.00900	0.100	"							
Bromomethane		ND	0.0230	0.100	11	¥.						
2-Butanone		ND	0.0720	1.00	**							
n-Butylbenzene	20	ND	0.0180	0.100	"					967		
ec-Butylbenzene		ND	0.0180	0.100	ŧŧ							
ert-Butylbenzene	tu .	ND	0.0180	0.100	**							
Carbon disulfide		ND	0.00700	0.100	н							
Carbon tetrachloride		. ND	0.0150	0.100	**							
Chlorobenzene		ND	0.0150	0.100	**							
Chloroethane		ND .	0.0140	0.100	"							
Chloroformi		ND	0.0180	0.100	n							
Chloromethane		ND	0.0110	0.500	н							
2-Chlorotoluene		ND	0.0160	0.100	11			70				
-Chlorotoluene		ND	0.0150	0.100								
Dibromochloromethane		ND	0.0100	0.100	н	12						
,2-Dibromo-3-chloropro	opane	ND	0.0280	0.500	н							
,2-Dibromoethane		ND	0.0130	0.100	*1							
Dibromomethane		ND	0.0180	0.100	**							
,2-Dichlorobenzene		ND	0.0150	0.100	**							
,3-Dichlorobenzene		ND	0.0130	0.100	н							
,4-Dichlorobenzene		ND	0.0160	0.100	н							

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Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Geo Engineers - Seattle

Project: American Linen/Seattle

500 Stewart Street, Suite 1420 Seattle WA, 98101

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported: 08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD Limit	_ Notes
Batch 1G24032: Pr	epared 07/24/01 U	Jsing EPA	5030B [P/]	[]	TIS IN	7	***************************************			
Blank (1G24032-BLK2)										
Dichlorodifluoromethane	ND	0.0290	0.100	mg/kg						
1,1-Dichloroethane	ND	0.0200	0.100	· · · · ·						
1,2-Dichloroethane	ND	0.0250	0.100	***					er .	
1,1-Dichloroethene	ND	0.0140	0.100	и						
cis-1,2-Dichloroethene	ND	0.0260	0.100	"						
rans-1,2-Dichloroethene	ND	0.0130	0.100	H						
1,2-Dichloropropane	ND	0.0180	0.100	11						
1,3-Dichloropropane	ND	0.0140	0.100	311		8 (5)				
2,2-Dichloropropane	ND	0.0130	0.100	n						
1, I-Dichloropropene	ND	0.0220	0.100	11						
: 3-Dichloropropene	ND	0.0140	0.100	11						
1,3-Dichloropropene	ND	0.00900	0.100	11						
Ethylbenzene	ND	0.0190	0.100	**						
exachlorobutadiene	ND	0.0210	0.100	11						
2-Hexanone	ND	0.0480	1.00	**						
sopropylbenzene	ND	0.0190	0.100	н						
o-Isopropyltoluene	ND	0.0170	0.100	"						
Methylene chloride	0.0892	0.0170	1.00	**						
4-Methyl-2-pentanone	ND	0.0650	1.00	**						
Naphthalene	ND	0.0140	0.100	"						
1-Propylbenzene	ND	0.0160	0.100	**						
Styrene	ND	0.0170	0.100	н						
,1,1,2-Tetrachloroethane	ND	0.0150	0.100	n						
,1,2,2-Tetrachloroethane	ND	0.0140	0.100	м						
Tetrachloroethene	ND	0.0180	0.100	н						
Toluene	ND	0.0180	0.100	н						
,2,3-Trichlorobenzene	ND	0.0120	0.100	n						
,2,4-Trichlorobenzene	ND	0.0110	0.100	н						
,1,1-Trichloroethane	ND	0.0100	0.100	п						
,1,2-Trichloroethane	ND	0.0200	0.100	n n						
Trichloroethene	ND	0.0230	0.100	n						
Frichlorofluoromethane	ND	0.0150	0.100	н						

'n Creek Analytical - Bothell

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Portland

9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

Geo Engineers - Seattle

Project: American Linen/Seattle

600 Stewart Street, Suite 1420

Project Number: 8673-001-01

Reported:

Seattle WA, 98101

Project Manager: Dave Cook

08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

Analyte	N 20	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	_Notes
Batch 1G24032:	Prepared 07/2	4/01 U	sing EPA	5030B [P/]	רן							
Blank (1G24032-BLF	(2)											
1,2,3-Trichloropropane		ND	0.0150	0.100	mg/kg							-
1,2,4-Trimethylbenzene		ND	0.00900	0.100	**							
1,3.5-Trimethylbenzene		ND	0.0180	0.100	н							
Vinyl chloride		ND	0.0130	0.100	"							
m,p-Xylene		ND	0.0370	0.200	n							
o-Xylene		ND	0.0170	0.100	Ħ							
Surrogate: 1,2-DCA-d4		4.74			"	4.00		118	57-139			
Surrogate: Toluene-d8		4.25			"	4.00		106	66-122			
Surrogate: 4-BFB		4.37			" .	4.00		109	62-121			
P'~¬k (1G24032-BLk	(3)											
.ne		ND	0.0650	1.00	mg/kg							
]enzene		ND	0.0190	0.100	•							
Bromobenzene		ND	0.0140	0.100	*1							
Bromochloromethane		ND	0.0220	0.100	Ħ							
Bromodichloromethane		ND	0.0150	0.100	**							
Bromoform		ND	0.00900	0.100	**							
Bromomethane		ND	0.0230	0.100	*1		×					
2-Butanone		ND	0.0720	1.00	**							
n-Butylbenzene		ND	0.0180	0.100	*1							
sec-Butylbenzene		ND	0.0180	0.100	**							
ert-Butylbenzene		ND	0.0180	0.100	**							
Carbon disulfide		ND	0.00700	0.100	п							
Carbon tetrachloride		ND	0.0150	0.100	"							
Chlorobenzene		ND	0.0150	0.100	н							
Chloroethane		ND	0.0140	0.100	"							
Chloroform		ND	0.0180	0.100	**							
Chloromethane		ND	0.0110	0.500	"							
2-Chlorotoluene		ND	0.0160	0.100	*							
4-Chlorotoluene		ND	0.0150	0.100	n							
Dibromochloromethane		ND	0.0100	0.100	н							
1,2-Dibromo-3-chloropro	Dane	ND	0.0280	0.500	н							

i Creek Analytical - Bothell

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Scott A. Woerman, Project Manager

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Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Geo Engineers - Seattle

500 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

Project Manager: Dave Cook

Reported: 08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

Analyte	Resu	lt MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	- Notes
Batch 1G24032:	Prepared 07/24/01	Using EPA	5030B [P/]	[]							
Blank (1G24032-BLI	(3)									· · · · · · · · · · · · · · · · · · ·	
1,2-Dibromoethane	N		0.100	mg/kg							
Dibromomethane	NI		0.100	**							
1,2-Dichlorobenzene	NI		0.100	"					*		
1,3-Dichlorobenzene	NI		0.100	а							
1,4-Dichlorobenzene	NI		0.100	11							
Dichlorodifluoromethane			0.100	"							
1,1-Dichloroethane	NI	0.0200	0.100	**							
1,2-Dichloroethane	NI		0.100	"							
1,1-Dichloroethene	NI	0.0140	0.100	***							
cis-1,2-Dichloroethene	NI	0.0260	0.100	*							
1,2-Dichloroethene	NI		0.100	**							
1,2 Dichloropropane	NI		0.100	**							
3-Dichloropropane	NI	0.0140	0.100	н							
2-Dichloropropane	NI	0.0130	0.100	***							
1,1-Dichloropropene	NI	0.0220	0.100	**							
cis-1,3-Dichloropropene	NI	0.0140	0.100	"							
trans-1,3-Dichloropropen	e NI	0.00900	0.100	**							
Ethylbenzene	NI	0.0190	0.100	n							
Hexachlorobutadiene	NI	0.0210	0.100	भ							
2-Hexanone	NI	0.0480	1.00	n							
Isopropylbenzene	NI	0.0190	0.100	**							
p-Isopropyltoluene	NI	0.0170	0.100	11							
Methylene chloride	0.080	3 0.0170	1.00	н							
4-Methyl-2-pentanone	NI	0.0650	1.00	"							
Naphthalene	NI	0.0140	0.100								
n-Propylbenzene	NI	0.0160	0.100	**							
Styrene	NI	0.0170	0.100	11							
1,1,1,2-Tetrachloroethane	. NI	0.0150	0.100	н							
1,1,2,2-Tetrachloroethane	. NI	0.0140	0.100	н						¥1.	
Tetrachloroethene	NI	0.0180	0.100	н							
Toluene	NI	0.0180	0.100	. 11							
1,2,3-Trichlorobenzene	NI	0.0120	0.100	n							

1 Creek Analytical - Bothell

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9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.966.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

Reported:

Project Manager: Dave Cook

08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

Analyte		Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	_ Notes
Batch 1G24032:	Prepared 07/2	4/01 U	sing EPA	5030B [P/]	r]							
Blank (1G24032-BL	K3)								220			
1,2,4-Trichlorobenzene		ND	0.0110	0.100	mg/kg			į,			**************************************	
1,1,1-Trichloroethane		ND	0.0100	0.100	**							
1,1,2-Trichloroethane		ND	0.0200	0.100	n			8				
Trichloroethene		ND	0.0230	0.100	**							
Trichlorofluoromethane		ND	0.0150	0.100	tr.							
1,2,3-Trichloropropane		ND	0.0150	0.100	н							
1,2,4-Trimethylbenzene		ND	0.00900	0.100	"							
1,3,5-Trimethylbenzene		ND	0.0180	0.100	w							
Vinyl chloride		ND	0.0130	0.100	n							
m,p-Xylene		ND	0.0370	0.200	н							
ene		ND	0.0170	0.100	н							
Surrogate: 1.2-DCA-d4		4.75			"	4.00		119	57-139			
Surrogate: Toluene-d8		4.09			,	4.00		102	66-122			
Surrogate: 4-BFB		4.29			n	4.00		107	62-121			
Blank (1G24032-BL	K4)		ă.	2				12				
Acetone	THE STATE OF THE S	ND	0.0650	1.00	mg/kg							
Benzene		ND	0.0190	0.100	**							
Bromobenzene		ND	0.0140	0.100	**							
Bromochloromethane		ND	0.0220	0.100	11							
Bromodichloromethane		ND	0.0150	0.100	н							
Bromoform		ND	0.00900	0.100	н				16	s		
Bromomethane		ND	0.0230	0.100	"							
2-Butanone		ND	0.0720	1.00	**							
n-Butylbenzene		ND	0.0180	0.100	Ħ							
sec-Butylbenzene		ND	0.0180	0.100	n	19						
tert-Butylbenzene		ND	0.0180	0.100	n							
Carbon disulfide		ND	0.00700	0.100	н							
Carbon tetrachloride		ND	0.0150	0.100	н							
Chlorobenzene		ND	0.0150	0.100	. 11							
Chloroethane		ND	0.0140	0.100	**							
Chloroform		ND	0.0180	0.100	**							
Chiololom		ND	0.0100	0.100								

1 Creek Analytical - Bothell

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Scott A. Woeman, Project Manager

North Creek Analytical, Inc. **Environmental Laboratory Network**

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503.906.9200 fax 503.906.9210

Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Geo Engineers - Seattle

00 Stewart Street, Suite 1420

Project: American Linen/Seattle

Project Number: 8673-001-01

Reported: 08/03/01 18:59

Seattle WA, 98101

Project Manager: Dave Cook

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

Analyte	Resul	t MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	- Notes
	pared 07/24/01	Using EPA :	5030B [P/]								
Blank (1G24032-BLK4)											
Chloromethane	ND	0.0110	0.500	mg/kg						1	
2-Chlorotoluene	ND	0.0160	0.100	4							
4-Chlorotoluene	ND	0.0150	0.100	"					2		
Dibromochloromethane	ND	0.0100	0.100	Ħ							
1,2-Dibromo-3-chloropropane	ND	0.0280	0.500	11							
1,2-Dibromoethane	ND	0.0130	0.100	11							
Dibromomethane	ND	0.0180	0.100	**							
1,2-Dichlorobenzene	ND	0.0150	0.100	W.							
1,3-Dichlorobenzene	ND	0.0130	0.100				. 100				
1,4-Dichlorobenzene	ND	0.0160	0.100								
rorodifluoromethane	ND	0.0290	0.100	11							
1,1-Dichloroethane	ND	0.0200	0.100	0							
2-Dichloroethane	ND	0.0250	0.100	11							
-Dichloroethene	ND	0.0140	0.100	n							
cis-1,2-Dichloroethene	ND	0.0260	0.100	11							
trans-1,2-Dichloroethene	ND	0.0130	0.100	"							
1,2-Dichloropropane	ND	0.0180	0.100	**							
1,3-Dichloropropane	ND	0.0140	0.100	"							
2,2-Dichloropropane	ND	0.0130	0.100	"							
1,1-Dichloropropene	ND	0.0220	0.100	ार							
cis-1,3-Dichloropropene	ND	0.0140	0.100	n							
trans-1,3-Dichloropropene	ND	0.00900	0.100	**							
Ethylbenzene	ND	0.0190	0.100	"							
Hexachlorobutadiene	ND	0.0210	0.100								
2-Hexanone	ND	0.0480	1.00	**							
Isopropylbenzene	ND	0.0190	0.100	**							
p-Isopropyltoluene	ND	0.0170	0.100								
Methylene chloride	ND		1.00	ti							
4-Methyl-2-pentanone	ND	0.0650	1.00								
Naphthalene	ND	0.0140	0.100	n n							
n-Propylbenzene	ND	0.0160	0.100	e e							
Styrene	ND	0.0170	0.100	н	10						

i Creek Analytical - Bothell

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503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

Geo Engineers - Seattle

Project: American Linen/Seattle

600 Stewart Street, Suite 1420 Seattle WA, 98101

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported: 08/03/01 18:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

Analyte	Resu	lt MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1G24032:	Prepared 07/24/01	Using EPA	5030B [P/]	Γ]							
Blank (1G24032-BL											
1,1,1,2-Tetrachloroetha			0.100								
1,1,2,2-Tetrachloroethan			0.100	н							
Tetrachloroethene	NI		0.100								
Toluene	NI	0.0180	0.100	"							
1,2,3-Trichlorobenzene	NI	0.0120	0.100	"							
1,2,4-Trichlorobenzene	NI	0.0110	0.100	"							
1,1,1-Trichloroethane	NI	0.0100	0.100								
1,1,2-Trichloroethane	NI	0.0200	0.100	**							
Trichloroethene	NI	0.0230	0.100	**							
Trichlorofluoromethane	NI	0.0150	0.100	"							
¹ Trichloropropane	NI	0.0150	0.100	11							
1,, +-Trimethylbenzene	NI	0.00900	0.100	, PE							
1,3,5-Trimethylbenzene	NI	0.0180	0.100	Ħ							
Vinyl chloride	NI	0.0130	0.100	"							
m,p-Xylene	NI	0.0370	0.200	**							
o-Xylene	NI	0.0170	0.100	"							
Surrogate: 1,2-DCA-d4	4.9	0		"	4.00		122	57-139			
Surrogate: Toluene-d8	4.2	I		"	4.00		105	66-122			
Surrogate: 4-BFB	4.3	9		"	4.00		110	62-121			
LCS (1G24032-BS1)											
Benzene	0.98	0.0190	0.100	mg/kg	1.00		98.0	73-133			
Chlorobenzene	0.91	0.0150	0.100	n	1.00		91.1	69-130			
1,1-Dichloroethene	0.88	5 0.0140	0.100	н	1.00		88.5	51-130			
Toluene	0.92	8 0.0180	0.100	**	1.00		92.8	68-130			
Trichloroethene	1.0	I 0.0230	0.100	•	1.00		101	66-135			
Surrogate: 1,2-DCA-d4	4.5	2		"	4.00		113	57-139	23115		
Surrogate: Toluene-d8	3.8	9		Ħ	4.00	*	97.2	66-122			
Surrogate: 4-BFB	4.0	8		"	4.00		102	62-121			

1 Creek Analytical - Bothell

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Scott A. Woeman, Project Manager

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Geo Engineers - Seattle

00 Stewart Street, Suite 1420

Project: American Linen/Seattle

Project Number: 8673-001-01

Reported: 08/03/01 18:59

Seattle WA, 98101

Project Manager: Dave Cook

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

Analyte	Resi	ılt MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	_ Notes
Batch 1G24032: Pre	pared 07/24/01	Using EPA	5030B [P/]	Γ]							
LCS Dup (1G24032-BSD	1)										
Benzene	0.9	79 0.0190	0.100	mg/kg	1.00		97.9	73-133	0.102	20	
Chlorobenzene	0.93	0.0150	0.100	Ħ	1.00		92.2	69-130	1.20	20	
1,1-Dichloroethene	0.83	0.0140	0.100	н	1.00		85.3	51-130	3.68	20	
Toluene	0.93	0.0180	0.100	н	1.00		93.3	68-130	0.537	20	
Trichloroethene	1.0	0.0230	0.100	11	1.00		102	66-135	0.985	20	
Surrogate: 1,2-DCA-d4	4	54		n	4.00		114	57-139			
Surrogate: Toluene-d8	3.9			"	4.00		98.5	66-122			
Surrogate: 4-BFB	4.0	06		"	4.00		102	62-121			
Matrix Spike (1G24032-N	1S1)					Source: B	1G0503-0	03			
F ne	1.1	6 0.0190	0.100 r	ng/kg dry	1.09	ND	106	62-138			
CJ. obenzene	1.1	0.0150	0.100	Ħ	1.09	ND	101	56-132			
1-Dichloroethene	0.98	0.0140	0.100	н	1.09	ND	90.0	41-131			
luene	1.1	0.0180	0.100	n	1.09	ND	101	44-133			
frichloroethene	1.2	0.0230	0.100	11	1.09	0.0706	107	61-139			
Surrogate: 1,2-DCA-d4	4.0	59		"	4.38		107	57-139			
Surrogate: Toluene-d8	4.1	8		re.	4.38		95.4	66-122			
Surrogate: 4-BFB	4.3	8		"	4.38		100	62-121			
Matrix Spike Dup (1G240	32-MSD1)					Source: B	1G0503-0)3			
Benzene	1.1	4 0.0190	0.100 r	ng/kg dry	1.09	ND	105	62-138	1.74	25	
Chlorobenzene	1.0	8 0.0150	0.100	**	1.09	ND	99.1	56-132	1.83	25	
1,1-Dichloroethene	0.98	7 0.0140	0.100	**	1.09	ND	90.6	41-131	0.610	25	
Toluene	1.0	9 0.0180	0.100	**	1.09	ND	100	44-133	0.913	25	
Trichloroethene	1.2	3 0.0230	0.100	"	1.09	0.0706	106	61-139	0.810	25	
Surrogate: 1,2-DCA-d4	4.0	7		"	4.38		107	57-139			
Surrogate: Toluene-d8	4.1	1		n	4.38		93.8	66-122			
Surrogate: 4-BFB	4.3	5		n	4.38		99.3	62-121			

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Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported:

08/03/01 18:59

TCLP Volatile Organic Compounds by EPA Method 1311/8260B - Quality Control North Creek Analytical - Bothell

Analyte	Resu	ılt MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Prepared 08/01/01	Using EPA	5030B [P/I	<u> </u>			Analysis GA Unitably				
Blank (1H01013-BL)											
Benzene	N	D	0.0800	mg/l							
2-Butanone	N	D	0.800	н							
Carbon tetrachloride	N	D	0.0800	н						84	
Chlorobenzene	N	D	0.0800	н							
Chloroform	N	D	0.0800	H							
,2-Dichloroethane	N	D	0.0800	n							
,1-Dichloroethene	N	D	0.0800	н							
Tetrachloroethene	N	D	0.0800	n							
Trichloroethene	N	D	0.0800	11							
inyl chloride	N	D	0.0800	**							
zate: 1,2-DCA-d4	0.76	58		н	0.800		96.0	80-120			
urrogate: Toluene-d8	0.75	56		n	0.800		94.5	80-120			
Surrogate: 4-BFB	0.75	3		"	0.800		94.1	80-120			
LCS (1H01013-BS1)											
Benzene	0.39	93	0.0800	mg/l	0.400		98.2	80-120			
Chlorobenzene	0.38	8	0.0800	н	0.400		97.0	80-120			
,1-Dichloroethene	0.35	4	0.0800	n	0.400		88.5	80-120			
richloroethene	0.39	8	0.0800	11	0.400		99.5	80-120			
urrogate: 1,2-DCA-d4	0.78	20		"	0.800		97.5	80-120			
urrogate: Toluene-d8	0.75	3		н	0.800		94.1	80-120			
urrogate: 4-BFB	0.75	7		"	0.800		94.6	80-120			
CS Dup (1H01013-I	BSD1)										
Benzene	0.40	0	0.0800	mg/l	0.400	100000000000000000000000000000000000000	100	80-120	1.77	15	* * * * * * * * * * * * * * * * * * * *
Chlorobenzene	0.39	8	0.0800	н	0.400		99.5	80-120	2.54	15	
,1-Dichloroethene	0.36	3	0.0800	"	0.400		90.8	80-120	2.51	15	
richloroethene	0.40	6	0.0800	**	0.400		102	80-120	1.99	15	
Surrogate: 1,2-DCA-d4	0.78	?3		"	0.800		97.9	80-120			
Surrogate: Toluene-d8	0.75	6		н	0.800		94.5	80-120			
Surrogate: 4-BFB	0.75	10		"	0.800		93.8	80-120			

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Geo Engineers - Seattle

00 Stewart Street, Suite 1420

Project: American Linen/Seattle

Project Number: 8673-001-01

Reported: 08/03/01 18:59

seattle WA, 98101

Project Manager: Dave Cook

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control North Creek Analytical - Bothell

			Reporting	oul:	Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	_Notes
Batch 1G26007:	Prepared 07/26/01 U	sing Dry V	Veight=								

Blank (1G26007-BLK1)

Dry Weight

1.00

1 Creek Analytical - Bothell

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North Creek Analytical, Inc.

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Geo Engineers - Seattle

Project: American Linen/Seattle

600 Stewart Street, Suite 1420

Project Number: 8673-001-01

Reported:

Seattle WA, 98101

E

Project Manager: Dave Cook

08/03/01 18:59

Notes and Definitions

В	Analyte detected in the method blank.
---	---------------------------------------

Estimated value. The reported value exceeds the calibration range of the analysis.

Estimated value.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or S-01

matrix interferences.

The surrogate recovery for this sample is outside of established control limits. Review of associated QC indicates the recovery for S-03

this surrogate does not represent an out-of-control condition.

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

Sample results reported on a dry weight basis dry

Relative Percent Difference RPD

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> (503) 906-9200 (509) 924-9200

(541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT Work Order #:	ler #: 8/40503
CLIENT: (Sellent Specific Spec	TURNAROUND REQUEST in Business Days*
REPORT TO: Davel Cook	norganic Analyses
ADDRESS: 600 Siteword	
PHONE: 366-728-2674 FAX: 066-728-2732 P.O. NUMBER:	υn
PROJECT NAME: Amoricum Linen/ Sealte REQUESTED ANALYSES	STD. Please Specify
PROJECT NUMBER: 8673 - 001-01	OTHER
	*Turnaround Requests less than standard may incur Rush Charges.
CLIENT SAMPLE SAMPLING	MATRIX # OF NCA
IDENTIFICATION DATE/TIME DISS.	(W, S, O) CONT. COMMENTS I
1, MWI-3-8 7/30/01 /0856 X	0
2MUSt 8-20 1 0955 X	0
3.MWI-11-27,5 1045 X	0
4.MW1-13-32,5 1/20 X	C
smw1-14-35 X 136 X	9
-10 7/18/07/0	C
15B4-7-17.57 / 1027 X	0
3-32.5	0
9. SB#-15-37.5 1410 X	
10.	
12.	
13.	
14.	
15.	
EDBY: Jung Kung DATE: 72301 RECEIVED BY:	L' NCA DATE:
TIME: OFF	Corlyon Receipt 1
ARKS: * Please run the hostest sample to	4 to 0
,	

COC REV 3/99



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Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

3 August, 2001

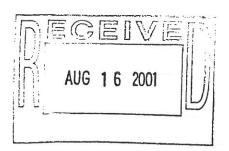
Dave Cook Geo Engineers - Seattle 600 Stewart Street, Suite 1420 Seattle, WA 98101

RE: American Linen/Seattle

Enclosed are the results of analyses for samples received by the laboratory on 07/31/01 14:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

ົ⊂ott A. Woerman ject Manager





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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported: 08/03/01 20:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	
MW 1-15-37.5	B1H0016-01	Soil (90.27% dry wt.)	07/20/01 12:22	07/31/01 14:30	



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Geo Engineers - Seattle 600 Stewart Street, Suite 1420 Seattle WA, 98101 Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook Reported: 08/03/01 20:24

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

	D		eporting	-C	Diluti	Datab	D		N1 . 1	
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW 1-15-37.5 (B1H0016-01) Soil	Sampled:	07/20/01 12:22	Receive	ed: 07/31/0	14:30	Ç.	1			
Acetone	ND	0.0650		ng/kg dry	1	1H02032	08/02/01	08/02/01	EPA 8260B	7
Benzene	ND	0.0190	0.100	11	11	11	"	**	"	
Bromobenzene	ND	0.0140	0.100	"		n	**	0.00	**	
Bromochloromethane	ND	0.0220	0.100	"	300		и	11	н	
Bromodichloromethane	ND	0.0150	0.100	н	in.	10	10	11	н	
Bromoform	ND	0.00900	0.100	н	**	1411	11	"	"	
Bromomethane	ND	0.0230	0.100	u	н	11	**	11	n	
2-Butanone	ND	0.0720	1.00	II.	n	**	**	н	11	
n-Butylbenzene	ND	0.0180	0.100	11	н	*1	"	н	11	
sec-Butylbenzene	ND	0.0180	0.100	11	**		**	"	11	
tert-Butylbenzene	ND	0.0180	0.100	ш	11	11	"	H	н	
Carbon disulfide	ND	0.00700	0.100	u		11	**	н	m:	
Carbon tetrachloride	ND	0.0150	0.100	н		n		н	TES	
orobenzene	ND	0.0150	0.100	н	111	н	**	**	n	
cnloroethane	ND	0.0140	0.100	н	п	.00	**	0	н	
Chloroform	0.0558	0.0180	0.100	н	n	**	н	"	11	B,J
Chloromethane	ND	0.0110	0.500	н	н	"	14	11	H	
2-Chlorotoluene	ND	0.0160	0.100	n	11	**	**	"	n	
4-Chlorotoluene	ND	0.0150	0.100	**	11	**	**	"		
Dibromochloromethane	ND	0.0100	0.100	***	:11	Ħ	n	н	H	
1,2-Dibromo-3-chloropropane	ND	0.0280	0.500	11	111	**	Ħ	н	н	
1,2-Dibromoethane	ND	0.0130	0.100	u	н	(11)	11	н	n	
Dibromomethane	ND	0.0180	0.100	II.	н		п	u	**	
1,2-Dichlorobenzene	ND	0.0150	0.100	fi .	н	н	n	ч	**	
1,3-Dichlorobenzene	ND	0.0130	0.100	п		**	н	n	11	
1,4-Dichlorobenzene	ND	0.0160	0.100	H	n	**	"	**	II.	
Dichlorodifluoromethane	ND	0.0290	0.100	n	эт.	"	н	n	107	
1,1-Dichloroethane	ND	0.0200	0.100	11	н	·	н	**	H.	
1,2-Dichloroethane	ND	0.0250	0.100	11	**	***	**	**	н	
1,1-Dichloroethene	ND	0.0140	0.100	н	11	"	11	п	н	
cis-1,2-Dichloroethene	ND	0.0260	0.100	н	n	**	**	n	*	
trans-1,2-Dichloroethene	ND	0.0130	0.100	tt	н	ıı	н	II	n	
1,2-Dichloropropane	ND	0.0180	0.100	11	11	н	н	"	м	
1,3-Dichloropropane	ND	0.0140	0.100	и	н	*	н	"	**	
2,2-Dichloropropane	ND	0.0130	0.100	11			**	H	11	
1,1-Dichloropropene	ND	0.0220	0.100	n	н	н	"	н	н	
cis-1,3-Dichloropropene	ND	0.0140	0.100	**		**		н		
	ND	0.00900	0.100	н		**	и	н		
trans-1,3-Dichloropropene	עא	0.00700	0.100							

th Creek Analytical - Bothell

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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported:

08/03/01 20:24

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

A . 1.4.	Result	MDL R	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Analyte										110103
MW 1-15-37.5 (B1H0016-01) Soil	Sampled: (07/20/01 12:22	Receive	d: 07/31/0	01 14:30					
Ethylbenzene	ND	0.0190	0.100 n	ng/kg dry	1	1H02032	08/02/01	08/02/01	EPA 8260B	
Hexachlorobutadiene	ND	0.0210	0.100	11	"	"	н	"		
2-Hexanone	ND	0.0480	1.00	н	"	"	H	н	н	
Isopropylbenzene	ND	0.0190	0.100	**	#1	**	n	11	H	
p-Isopropyltoluene	ND	0.0170	0.100	91	n:	**	11	н	**	
Methylene chloride	0.0484	0.0170	1.00	#1	**	"	11	11	"	$_{\mathrm{B,J}}$
4-Methyl-2-pentanone	ND	0.0650	1.00	**	"	**	н	**	•	
Naphthalene	ND	0.0140	0.100	"	"	"	н	н	n	
n-Propylbenzene	0.0300	0.0160	0.100	11	••	"	"	н	"	J
Styrene	ND	0.0170	0.100	11	n	**	н	н	n	
1,1,1,2-Tetrachloroethane	ND	0.0150	0.100	н	11	"	н	n	"	
1,1,2,2-Tetrachloroethane	ND	0.0140	0.100	н	"	•	n	ıı .	"	
Tetrachloroethene	0.678	0.0180	0.100	Ü	"	ü	n	н	11	
uene	ND	0.0180	0.100	Ħ	**	H	n	.11	**	
1,4,3-Trichlorobenzene	ND	0.0120	0.100	**	100	**	H	эн	"	
1,2,4-Trichlorobenzene	ND	0.0110	0.100	81	n	Ħ	*	11	**	
1,1,1-Trichloroethane	ND	0.0100	0.100	11	IT	Ħ	n	n	"	
1,1,2-Trichloroethane	ND	0.0200	0.100	11	11	,,		"	"	
Trichloroethene	ND	0.0230	0.100	"	11	**	н	**	,,	
Trichlorofluoromethane	ND	0.0150	0.100	11	n	••	"	"	n	
1.2.3-Trichloropropane	ND	0.0150	0.100	"	11	•	n	**		
1,2,4-Trimethylbenzene	0.174	0.00900	0.100	"	11	•	н		**	
1,3,5-Trimethylbenzene	0.0452	0.0180	0.100	If	H	**	w	in .	"	J
Vinyl chloride	ND	0.0130	0.100	н	**	17	н			
m,p-Xylene	ND	0.0370	0.200	**	n		n	н	**	
o-Xylene	ND	0.0170	0.100	n	n	**	н	n		
Surrogate: 1,2-DCA-d4	88.7%		57-13	39		"	"	"	"	
Surrogate: Toluene-d8	86.5 %		66-12	?2		"	"	"	*	
Surrogate: 4-BFB	77.4 %		62-12	21		"	"	"	"	
Durioguic. 7 Di D				00000						

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Geo Engineers - Seattle 600 Stewart Street, Suite 1420 Project: American Linen/Seattle

Project Number: 8673-001-01

Reported:

Seattle WA, 98101

Project Manager: Dave Cook 08/03/01 20:24

Physical Parameters by APHA/ASTM/EPA Methods North Creek Analytical - Bothell

Analyte	Result	R MDL	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW 1-15-37.5 (B1H0016-01) Soil	Sampled: 07	7/20/01 12:22	Receive	d: 07/31	01 14:30	31				
Dry Weight	90.3		1.00	%	1	1H02004	08/02/01	08/03/01	BSOPSPL00 3R07	

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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported:

08/03/01 20:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

Analyte	Resu	lt MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1H02032:	Prepared 08/02/01	Using EPA	5030B [P/]	Γ]							
Blank (1H02032-BLK	1)				***************************************						
Acetone	NI	0.0650	1.00	mg/kg							
Benzene	NI	0.0190	0.100	н							
Bromobenzene	NI	0.0140	0.100	**							
Bromochloromethane	NI	0.0220	0.100	"							
Bromodichloromethane	NI	0.0150	0.100	n							
Bromoform	NE	0.00900	0.100	**							
Bromomethane	NE	0.0230	0.100	Ü							
2-Butanone	ND	0.0720	1.00	"							
n-Butylbenzene	ND	0.0180	0.100	*							
sec-Butylbenzene	ND	0.0180	0.100	"							
Butylbenzene	ND	0.0180	0.100	н							
Carbon disulfide	ND	0.00700	0.100	· ·							
Carbon tetrachloride	. ND	0.0150	0.100	n							
Chlorobenzene	ND	0.0150	0.100	n							
Chloroethane	ND	0.0140	0.100	H							
Chloroform	0.0512	0.0180	0.100	11							J
Chloromethane	ND	0.0110	0.500	**							
2-Chlorotoluene	ND	0.0160	0.100	н							
-Chlorotoluene	ND	0.0150	0.100	н							
Dibromochloromethane	ND	0.0100	0.100	100							
,2-Dibromo-3-chloroprop	ane ND	0.0280	0.500	"							
,2-Dibromoethane	ND	0.0130	0.100	**							
Dibromomethane	ND	0.0180	0.100	n							
,2-Dichlorobenzene	ND	0.0150	0.100	11							
,3-Dichlorobenzene	ND	0.0130	0.100	n							
,4-Dichlorobenzene	ND	0.0160	0.100								
Dichlorodifluoromethane	ND	0.0290	0.100	**							
, 1-Dichloroethane	ND	0.0200	0.100	••							
,2-Dichloroethane	ND		0.100								
,1-Dichloroethene	ND		0.100	**							
is-1,2-Dichloroethene	ND	0.0260	0.100	n							

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Woerman, Project Manager

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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

Project Manager: Dave Cook

Reported: 08/03/01 20:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	_ Notes
L		sing EPA				Apopt Processing All	ANALOS (ATAMO)				
Blank (1H02032-BLK1)											
trans-1,2-Dichloroethene	ND	0.0130	0.100	mg/kg							
1,2-Dichloropropane	ND	0.0180	0.100	, m							
1,3-Dichloropropane	ND	0.0140	0.100	0					39		
2,2-Dichloropropane	ND	0.0130	0.100	n							
1.1-Dichloropropene	ND	0.0220	0.100	••							
cis-1,3-Dichloropropene	ND	0.0140	0.100	**							
trans-1,3-Dichloropropene	ND	0.00900	0.100	**							
Ethylbenzene	ND	0.0190	0.100	:. H							
Hexachlorobutadiene	ND	0.0210	0.100								
2-Hexanone	ND	0.0480	1.00	u							
ropylbenzene	ND	0.0190	0.100	"							
p-Isopropyltoluene	ND	0.0170	0.100	u							
Methylene chloride	0.0503	0.0170	1.00	e.H.			21				
4-Methyl-2-pentanone	ND	0.0650	1.00	н							
Naphthalene	ND	0.0140	0.100	11							
n-Propylbenzene	ND	0.0160	0.100	"							
Styrene	ND	0.0170	0.100	**							
1,1,1,2-Tetrachloroethane	ND	0.0150	0.100	н							
1,1,2,2-Tetrachloroethane	ND	0.0140	0.100	11							
Tetrachloroethene	ND	0.0180	0.100								
Toluene	ND	0.0180	0.100	**							
1,2,3-Trichlorobenzene	ND	0.0120	0.100	"							
1,2,4-Trichlorobenzene	ND	0.0110	0.100	п							
1,1,1-Trichloroethane	ND	0.0100	0.100	**							
1,1,2-Trichloroethane	ND	0.0200	0.100	**							
Trichloroethene	ND	0.0230	0.100	**							
Trichlorofluoromethane	ND	0.0150	0.100								
1,2,3-Trichloropropane	ND	0.0150	0.100	"							
,2,4-Trimethylbenzene	ND	0.00900	0.100	"							
,3,5-Trimethylbenzene	ND	0.0180	0.100						-21		
Vinyl chloride	ND	0.0130	0.100								
n,p-Xylene	ND	0.0370	0.200	н							

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Geo Engineers - Seattle

600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported:

08/03/01 20:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

Analyte	Resu	lt MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1H02032: Pr	epared 08/02/01	Using EPA	5030B [P/	Γ]							
Blank (1H02032-BLK1)											
o-Xylene	NI	0.0170	0.100	mg/kg							
Surrogate: 1,2-DCA-d4	4.1	2	*	"	4.00		103	57-139			
Surrogate: Toluene-d8	3.9	0		"	4.00		97.5	66-122			
Surrogate: 4-BFB	3.5	6		n	4.00		89.0	62-121			
LCS (1H02032-BS1)											
Benzene	0.99	2 0.0190	0.100	mg/kg	1.00		99.2	73-133			
Chlorobenzene	0.97	7 0.0150	0.100	"	1.00		97.7	69-130			
1,1-Dichloroethene	0.88	9 0.0140	0.100	10	1.00		88.9	51-130			
Toluene	0.93	6 0.0180	0.100	**	1.00		93.6	68-130			
hloroethene	0.97	9 0.0230	0.100	"	1.00		97.9	66-135			
Surrogate: 1,2-DCA-d4	3.7	6		"	4.00		94.0	57-139		****	
Surrogate: Toluene-d8	3.5	3		"	4.00		88.2	66-122			
Surrogate: 4-BFB	3.2	3		"	4.00		80.8	62-121			
LCS Dup (1H02032-BSI	01)										
Benzene	1.1	0.0190	0.100	mg/kg	1.00		110	73-133	10.3	20	
Chlorobenzene	1.0	9 0.0150	0.100	**	1.00		109	69-130	10.9	20	
1,1-Dichloroethene	1.0	0.0140	0.100	9	1.00		100	51-130	11.8	20	
Toluene	1.0	5 0.0180	0.100	**	1.00		105	68-130	11.5	20	
Trichloroethene	1.1	0.0230	0.100	"	1.00		111	66-135	12.5	20	
Surrogate: 1,2-DCA-d4	3.8	2		"	4.00		95.5	57-139			
Surrogate: Toluene-d8	3.6	3		"	4.00		90.8	66-122			
Surrogate: 4-BFB	3.5	6		"	4.00		89.0	62-121			
Matrix Spike (1H02032-	MS1)					Source: 1	B1H0007-	07			
Benzene	1.0	0.0190	0.100	mg/kg dry	1.06	ND	95.3	62-138			
Chlorobenzene	1.0	0.0150	0.100	11	1.06	ND	95.3	56-132			
1,1-Dichloroethene	0.88	8 0.0140	0.100	**	1.06	ND	83.8	41-131			
Toluene	0.96	0.0180	0.100	Ħ	1.06	ND	90.6	44-133			
Trichloroethene	1.0	3 0.0230	0.100	H	1.06	ND	97.2	61-139			
Surrogate: 1,2-DCA-d4	3.7	8		"	4.23		89.4	57-139			
Surrogate: Toluene-d8	3.6	7		"	4.23		86.8	66-122			

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Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported:

08/03/01 20:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1H02032: P1	repared 08/02/01 Usi	ng EPA 5	5030B [P/T]===							
Matrix Spike (1H02032	2-MS1)					Source: E	31H0007-	07			
Surrogate: 4-BFB	3.43			"	4.23		81.1	62-121			
Matrix Spike Dup (1H0)2032-MSD1)					Source: E	31H0007-	07			
Benzene	1.07	0.0190	0.100 m	ng/kg dry	1.06	ND	101	62-138	5.77	25	
Chlorobenzene	1.07	0.0150	0.100		1.06	ND	101	56-132	5.77	25	
1,1-Dichloroethene	0.929	0.0140	0.100	**	1.06	ND	87.6	41-131	4.51	25	
Toluene	1.02	0.0180	0.100	n	1.06	ND	96.2	44-133	6.06	25	
Trichloroethene	1.07	0.0230	0.100	ш	1.06	ND	101	61-139	3.81	25	
Surrogate: 1,2-DCA-d4	3.88			"	4.23		91.7	57-139			
Surrogate: Toluene-d8	3.75			"	4.23		88.7	66-122			
ogate: 4-BFB	3.30			"	4.23		78.0	62-121			

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600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01

Project Manager: Dave Cook

Reported:

08/03/01 20:24

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control North Creek Analytical - Bothell

Analyte	Resi	ult MDL	Reporting Limit	Units	Spike Level	Source Result	%RĖC	%REC Limits	D.DD	RPD
Batch 1H02004:		Using Dry V	**************************************	Oms		Result	- VIICEC	Linis	RPD	Limit Notes
Blank (1H02004-Bl	LK1)		***************************************							
Dry Weight	10	00	1.00	%	****	H. S				

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600 Stewart Street, Suite 1420

Seattle WA, 98101

Project: American Linen/Seattle

Project Number: 8673-001-01 Project Manager: Dave Cook

Reported: 08/03/01 20:24

Notes and Definitions

Analyte detected in the method blank. В

Estimated value. J.

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

Not Reported NR

Sample results reported on a dry weight basis dry

Relative Percent Difference RPD

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NTINAME: PLOCENCE CONCRET CONTRACTOR ARKS: PLOCENCE CONTRACTOR ARKS: PLOCENCE CONTRACTOR ASSERTED THE PRINTINAME:	DATE:	VT NAME: TIME: /// PRINT NAME:						5B4-14-34:5 7/8/01/14/16 X	MW1-15-37.5 760/01/1202 X	IDENTIFICATION DATE/TIME	ra lang	BER: 8673-001-01	American Luxin/20	10-1-001 FAX: 106-728-1081	DRESS: 600 Steway	3		North Crook Analytical, Inc. Environmental Laboratory Network WWW.ncalabs.com 20332 Emp
gook & geornfineers, com	DATE:	DATE: 7/31/61	samples were not @2-60 Upon Receipt					-C3	10	MATRIX # OF NCA WO (W, S, O) CONT. COMMENTS ID	*Turnaround Requests less than standard may incur Ruch Charges.	OTHER) Please Specify	STD. Petroleum Hydrocarbon Analyses	10 7 5 4 3 2 1 <1	TURNAROUND REQUEST in Business Days*	Work Order #: Buttoollo	11115 Montgomery, Suite B, Spokane, WA 99206-4776 (509) 924-9200 FA. 290 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 906-9200 FAX 906-9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 (541) 383-9310 FAX 382-7588