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MEMORANDUM

TO: Dave Maryatt

FROM: Matt Dalton

DATE: Draft: March 6, 2009

SUBJECT: Results of January 2009 Sampling
American Linen Site
Seattle, WA

REF. NO: SUM-005

CC: Dave Cooper - DOF

This technical memorandum presents the results of groundwater sampling and analyses at the former American Linen site located at 773 East Valley St., Seattle, Washington (Figures 1 and 2). Dave Cooper of Dalton, Olmsted & Fuglevand, Inc. (DOF) collected samples from available wells on January 29 and 30, 2009.

SAMPLING LOCATIONS

Groundwater samples were obtained from eight on-site wells and two off-site wells. At the time of the sampling, 5 two-inch ID exterior and 3 one-inch ID interior groundwater monitoring wells were available for sampling on the subject property. In addition, 2 two-inch ID off-site monitoring wells, installed by METRO on Roy St. east of the site, were located and sampled. The approximate locations of existing buildings, former dry cleaning machines, existing monitoring wells, and other pertinent site features are presented on Figure 2.

The off-site METRO wells were installed as part of the Denny Way/Lake Union CSO Project – Mercer Street Tunnel in the late 1990s (Black & Veatch 1999¹) and are located in the general downgradient flow direction from the American Linen site. The log of boring/well BB-8 indicates that the boring/well was installed in June 1997 and was

¹ Black & Veatch, 1999, Geotechnical Data Report – Part 1, Denny Way/Lake Union CSO Project – Mercer Street Tunnel, Contract No. C93001C Vo. 5 of 6, Sept. 1999.

drilled to a depth of approximately 78 feet (Attachment 1). A well screen was installed at a depth of between 30 and 40 feet in a very dense, gray SAND (advance outwash) that was encountered beneath a till-like, dense to very dense, grayish brown silty fine SAND (from approximately 15 to 23 feet). The bottom of well BB-8 was measured to be approximately 39 feet below ground level in late January 2009. Solvent constituents were detected in samples obtained from this well in 1998 (discussed below).

The second well (herein designated BB-8A) is located adjacent to BB-8. The purpose and construction of this well is unknown. However, the well bottom was sounded and found to be approximately 40 feet below ground level. A sample from this well was also obtained for analysis as part of the current work.

GROUNDWATER SAMPLING

Fluid level measurements in each monitoring well were completed with an electronic probe to indicate depth to groundwater relative to the top of the well casings (TOC). Groundwater levels beneath the site ranged from 10.5 feet to 22.8 feet below ground surface (Table 1). The inferred groundwater migration direction is to the southeast. This estimate is based upon historic and current groundwater level measurements. Water levels in the two off-site METRO wells were approximately 20.1 to 20.6 feet below ground level.

To obtain a groundwater sample representative of the surrounding formation, each well was purged of between one and three well-casing volumes of groundwater prior to sampling using a peristaltic pump. New polyethylene tubing was installed in each well to minimize the potential for cross contamination and obtain representative samples. The samples were pumped directly into containers provided by the receiving laboratory, labeled, and immediately placed into a chilled cooler for transport to Test America, Inc. (Bothell, WA). Standard chain-of-custody procedures were used to track sample possession from the time of collection until receipt by the analytical laboratory.

During sampling, field measurements were made for pH, temperature and electrical conductivity. These field data are summarized in Table 1.

LABORATORY ANALYSES

Groundwater samples were analyzed for the following constituents:

- Total Petroleum Hydrocarbons-Gasoline range with Benzene, Toluene, Ethylbenzene, and total Xylenes distinction using test methods NWTPH-G and EPA 8021; and
- Volatile Organic Compounds using EPA test method 8260B;

Results of previous and current analyses are summarized in Table 2. Laboratory data sheets for the current sample analyses are presented in Attachment 2.

RESULTS AND DISCUSSION

Petroleum Hydrocarbon Constituents. The highest concentration for each petroleum constituent and its Method A groundwater cleanup level (WAC 173-340-900, Table 720-1) are summarized below.

	<u>Max. Conc.</u>	<u>Location</u>	<u>Cleanup Level</u>
On-Site Wells			
TPH-G	41.3 mg/l	G-MW1	0.8 mg/l
Benzene	<20 ug/l	G-MW1/G-MW2	5 ug/l
Toluene	<20 ug/l	G-MW1/G-MW2	1000 ug/l
Ethylbenzene	28.6 ug/l	G-MW1	700 ug/l
Xylenes	55.1 ug/l	G-MW1	1000 ug/l
Off-Site Well			
TPH-G	0.67 mg/l	BB-8A	0.8 mg/l
Benzene	0.69 ug/l	BB-8	5 ug/l
Toluene	<5 ug/l	BB-8/BB-8A	1000 ug/l
Ethylbenzene	<5 ug/l	BB-8/BB-8A	700 ug/l
Xylenes	<5 ug/l	BB-8/BB-8A	1000 ug/l

Benzene, toluene, ethylbenzene and xylenes did not exceed cleanup levels (CULs) in any of the on-site or off site well samples. The reporting limit (12.5 ug/l to 20 ug/l) for benzene was elevated in samples from interior wells G-MW1, G-MW2 and G-MW3, however previous analyses suggest it likely that benzene concentrations at these locations meet the CUL (see Table 2).

Gasoline range hydrocarbons (TPH-G) in interior well samples G-MW1, G-MW2 and G-MW3 were detected between approximately 26 mg/l and 41 mg/l which exceed the CUL of 0.8 mg/l (Figure 3). TPH-G concentrations in the other site wells, including upgradient and downgradient wells, and the two off-site downgradient wells were below the CUL.

Solvent Constituents. The highest concentration for each solvent constituent and its Method A groundwater CUL (WAC 173-340-900, Table 720-1), if available, or Method B CUL are summarized below.

	<u>Max. Conc.</u>	<u>Location</u>	<u>Cleanup Level</u>
On-Site Wells			
Tetrachloroethene (PCE)	78400 ug/l	G-MW1	5 ug/l (A)
Trichloroethene (TCE)	1580 ug/l	G-MW3	5 ug/l (A)
Cis-1,2-Dichloroethene (Cis-1,2-DCE)	4050 ug/l	G-MW3	80 ug/l (B)
Vinyl Chloride (VC)	2.8 ug/l	R-MW6	0.2 ug/l (A)
Off-Site Well			
Tetrachloroethene (PCE)	1290 ug/l	BB-8A	5 ug/l (A)
Trichloroethene (TCE)	285 ug/l	BB-8A	5 ug/l (A)
Cis-1,2-Dichloroethene (Cis-1,2-DCE)	549 ug/l	BB-8A	80 ug/l (B)
Vinyl Chloride (VC)	3.9 ug/l	BB-8A	0.2 ug/l (A)

Sampling completed in January 2009 indicates that the parent solvent (tetrachloroethene – PCE) and its degradation constituents (trichloroethene- TCE; cis-1,2-dichloroethene – Cis-1,2-DCE; and vinyl chloride – VC) exceed CULs. Groundwater concentrations are also exceeded in the off-site METRO wells. The CUL exceedance patterns are illustrated on Figures 4 to 7.

There is evidence that concentrations have declined based on the available data. Well R-MW-6 is a shallow well located on the downgradient side of the American Linen facility (Figure 2). The PCE concentration in a sample from Well R-MW6 in November 1992 was detected at 690 ug/l that compares with a January 2009 concentration of approximately 1.8 ug/l. The 2009 PCE concentration at this well is below the CUL of 5 ug/l.

Substantial declines in solvent constituent concentrations are also evident in samples from the METRO downgradient well BB-8. This well was sampled twice in 1998 (Black & Veatch 1998ⁱⁱ) and during the current January 2009 work. A comparison of the solvent constituent concentrations are graphically shown on Figure 8.

Concentration declines in samples from BB-8 from 1998 to 2009 ranged between approximately 80% and 99% as summarized below. In making this comparison, the 1998 samples were averaged.

	<u>Avg. 1998 Conc.</u> <u>(ug/l)</u>	<u>2009 Conc.</u> <u>(ug/l)</u>	<u>Conc. Decline</u> <u>(%)</u>
PCE	9700	896	90.7
TCE	1300	258	80.2
Cis 1,2-DCE	3650	441	87.9
VC	230	1.5	99.3

ⁱⁱ Black & Veatch, 1998, Phase II Environmental Site Assessment, Denny Way/Lake Union CSO Project, Prepared for King County Department of Natural Resources, September 1998.

FINDINGS AND RECOMMENDATIONS

- The available data indicate that solvent constituent concentrations have declined beneath and downgradient of the site. The declines, if supported by future data, substantially reduce potential risks to receptors such as Lake Union. To further assess the current groundwater quality in the vicinity of the site, additional wells and sampling would be required, as discussed in our “*Evaluation of Remedial Alternatives*” memorandum (DOF 2008ⁱⁱⁱ).
- While the former American Linen site is a known source of solvent constituents, the site and sampling are located in a commercial area where other sources of solvent contamination may exist.
- The samples discussed in this report were obtained in the middle of the wetter season of the year. We recommend that a set of samples be collected and analyzed in July/August 2009, towards the middle of the drier season of the year. The results of this sampling would be used to assess seasonal trends, assist to confirm the concentration declines summarized in this memorandum, and establish baseline conditions to assess the impacts of any future remediation.

CLOSING

The services described in this memorandum were performed consistent with generally accepted professional consulting principles and practices. No other warranty, expressed or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party’s sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this document.

Dalton Olmsted & Fuglevand

Matthew G. Dalton, LG/LHg
Senior Consulting Hydrogeologist

ⁱⁱⁱ DOF (Dalton, Olmsted & Fuglevand, Inc.), 2008, Evaluation of Remedial Alternatives and “Order-of-Magnitude” Costs, Former American Linen Site, Seattle, Washington, Draft: February 5, 2008.

Attachments: Table 1 - Summary of Water levels and Field Data

Table 2 – Summary of Groundwater Quality Data

Figure 1 – Vicinity Map

Figure 2 – Site Plan and Boring/Well Location Map

Figure 3 – TPH-G Concentrations in Groundwater (January 2009)

Figure 4 – PCE Concentrations in Groundwater (January 2009)

Figure 5 – TCE Concentrations in Groundwater (January 2009)

Figure 6 – Cis-1,2-DCE Concentrations in Groundwater (January 2009)

Figure 7 – Vinyl Chloride Concentrations in Groundwater (January 2009)

Figure 8 – Well BB8 Comparisons

Attachment 1 – Log of BB-8

Attachment 2 – Laboratory Data Sheets

TABLE 1 - Summary of Water Level Data And Field Data

1a. Water Level Summary

Location	Screen Depth (feet)	Date	Measuring Point Elev. (ft - MSL)	Depth to Water (feet)	Water Level Elevation (Feet)(a)
MW-1(Roux)	4-14	10/23/92	28.11	7.11	21.00
	4-14	10/24/92	28.11	7.15	20.96
	4-14	10/27/92	28.11	7.36	20.75
	4-14	10/28/92	28.11	7.38	20.73
R-MW1(DOF)	4-14	1/29/09	28.11	10.50	17.61
MW-2(Roux)	5-15	10/23/92	30.86	10.00	20.86
	5-15	10/24/92	30.86	10.04	20.82
	5-15	10/27/92	30.86	10.13	20.73
	5-15	10/28/92	30.86	10.15	20.71
R-MW2(DOF)	5-15	1/29/09	30.86	12.97	17.89
MW-3(Roux)	7-17	10/23/92	32.04	11.25	20.79
	7-17	10/24/92	32.04	11.29	20.75
	7-17	10/27/92	32.04	11.39	20.65
	7-17	10/28/92	32.04	11.41	20.63
R-MW3(DOF)	7-17	1/29/09	32.04	14.22	17.82
MW-4(Roux)	15-30	10/24/92	40.94	21.99	18.95
	15-30	10/27/92	40.94	21.93	19.01
	15-30	10/28/92	40.94	21.93	19.01
MW-5(Roux)	15-30	10/28/92	47.20	22.89	24.31
R-MW5(DOF)	15-30	1/30/09	47.20	22.80	24.40
MW-6(Roux)	12-22	10/28/92	35.39	17.85	17.54
R-MW6(DOF)	12-22	1/30/09	35.39	19.15	16.24
Geo-MW1	30-35	7/24/01	na	10.54	na
G-MW1(DOF)	30-35	1/29/09	na	11.25	na
Geo-MW2	8-18	7/24/01	na	9.93	na
G-MW2(DOF)	8-18	1/29/09	na	10.76	na
Geo-MW3	26-36	7/24/01	na	13.05	na
Geo-MW3(DOF)	26-36	12/10/04	na	15.30	na
G-MW3(DOF)	26-36	1/30/09	na	13.49	na
BB-8	40	1/30/09	na	20.08	na
BB-8A	40	1/30/09	na	20.60	na

Notes: na - not available
(a) - Arbitrary datum

1b. Field Measurements (January 30, 2009)

Well	pH	Temperature (C)	Conductivity (uS)
R-MW1	6.9	14.8	1722
R-MW2	6.6	15.7	1158
R-MW3	6.7	15.4	1492
R-MW5	6.4	15.5	604
R-MW6	6.8	15.2	1325
G-MW1	7.5	16	740
G-MW2	7.5	15.4	636
G-MW3	7.1	14.8	950
BB-8	6.7	13.2	1009
BB-8A	6.9	13.4	1087

TABLE 2 - Summary of Groundwater Quality Data

DRAFT

American Linen Site
Seattle, WA

Location	Lab.	Screen Depth (feet)	Elevation TOC (feet)	Date	TPH-G (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	TPH-D (mg/l)	O&G (mg/l)	PCE (ug/l)	TCE (ug/l)	Cis-1,2-DCE (ug/l)	VC (ug/l)
MTCA CUL					0.8(A)	5(A)	1000(A)	700(A)	1000(A)	0.5(A)	----	5(A)	5(A)	80(B)	0.2(A)
MW-1(Roux)	NET	4-14	28.11	10/24/92	0.057	1	1	<0.5	<0.5	1.3	6	3.3	<0.5	na	100
MW-1(DOF)	NCA	4-14	28.11	10/24/92	0.053	0.61	0.83	<0.5	<1.0	26	12	4.2	0.62	12	170
MW-1(Roux)	Sequoia	4-14	28.11	10/24/92	0.054	0.58	1	<0.5	<0.5	0.29	5	2.3	<2	14	140
R-MW1(DOF)	TA	4-14	28.11	1/29/09	<0.05	<0.5	<0.5	<0.5	<1.0	----	----	17.1	4.26	1.6	0.63
MW-2(Roux)	NET	5-15	30.86	10/24/92	4.2	480	17	230	300	10.5	2	<5	<5	na	<5
MW-2(DOF)	NCA	5-15	30.86	10/24/92	4	310	<0.5	140	180	16	25	----	----	----	----
R-MW2(DOF)	TA	5-15	30.86	1/29/09	0.657	<0.5	0.557	0.513	2.08	----	----	5.05	<0.2	<0.2	<0.2
MW-3(Roux)	NET	7-17	32.04	10/24/92	0.087	<0.5	<0.5	<0.5	<0.5	3	1.2	<5	<5	na	<5
MW-3(DOF)	NCA	7-17	32.04	10/24/92	<0.05	<0.5	<0.5	<0.5	<1.0	----	----	----	----	----	----
R-MW3(DOF)	TA	7-17	32.04	1/29/09	<0.05	<0.5	<0.5	<0.5	<1.0	----	----	4.26	<0.2	<0.2	<0.2
MW-4(Roux)	NET	15-30	40.94	10/24/92	0.41	<0.5	2	1	4	0.2	<1	814	69	na	<5
MW-4(DOF)	NCA	15-30	40.94	10/24/92	0.64	<0.5	1.8	<0.5	3.1	----	----	31	2.8	<2.0	<2.0
R-MW4	abandoned														
MW-5(Roux)	NET	15-30	47.2	10/28/92	0.093	<0.5	1	<0.5	<0.5	0.086	<1	<0.5	<0.5	<0.5	<0.5
R-MW5(DOF)	TA	15-30	40.94	1/29/09	<0.05	<0.5	<0.5	<0.5	<1.0	----	----	0.8	<0.2	<0.2	<0.2
MW-6(Roux)	NET	12-22	35.39	10/28/92	<0.05	<0.5	2	<0.5	2	<0.05	<1	4500	920	2600	240
MW-6(DOF)	NCA	12-22	----	11/3/92	----	----	----	----	----	----	----	690	160	620	<40
R-MW6(DOF)	TA	12-22	----	1/29/09	<0.05	<0.5	<0.5	<0.5	<1.0	----	----	1.78	<0.2	2.64	2.75
Geo-MW1	NCA	30-35	----	7/24/01	----	0.449	17.6E	0.798	5.5	----	----	85500	1130	nr	74.5E
G-MW1(DOF)	TA	30-35	----	1/29/09	41.3	<20.0	<20.0	28.6	55.1	----	----	78400	1160	34.4	<0.2
Geo-MW2	NCA	8-18	----	7/24/01	----	0.375	48.3E	2.01	12.9	----	----	176000	237E	nr	0.46
G-MW2(DOF)	TA	8-18	----	1/29/09	39.6	<20.0	<20.0	<20.0	48.9	----	----	59000	210	373	<0.2
Geo-MW3	NCA	26-36	----	7/24/01	----	0.524	6.93E	0.459	2.1	----	----	47700	385E	nr	42.5E
Geo-MW3(DOF)	NCA	26-36	----	12/10/04	----	<2	7	<2	2	----	----	220000	1200	570	19
G-MW3(DOF)	TA	26-36	----	1/29/09	26.6	<12.5	<12.5	<12.5	<25	----	----	64000	1580	4050	<0.2
BB-8(DOF)	TA	38.9?	----	1/29/09	0.499	0.694	<0.5	<0.5	<1.0	----	----	896	258	441	1.48
BB-8A(DOF)	TA	40.3?	----	1/29/09	0.669	<0.5	<0.5	<0.5	<1.0	----	----	1290	285	549	3.86
B2(Retec)	ARI	11.5	----	6/23/00	----	----	----	----	----	----	----	37000	600	4100	<250
B6(Retec)	ARI	14.5	----	6/24/00	----	----	----	----	----	----	----	6800	54	57	<50
B7(Retec)	ARI	14	----	6/24/00	----	----	----	----	----	----	----	21000	310	880	<50
B8(Retec)	ARI	8	----	6/24/00	----	----	----	----	----	----	----	3100	<50	<50	<50
B9(Retec)	ARI	12	----	6/24/00	----	----	----	----	----	----	----	120000	210	270	<50

TABLE 2 - Summary of Groundwater Quality Data


DRAFT

American Linen Site
Seattle, WA

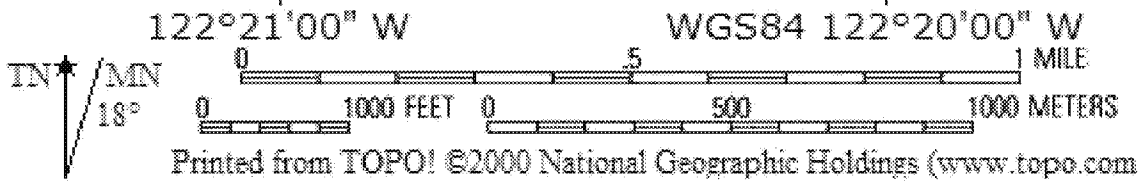
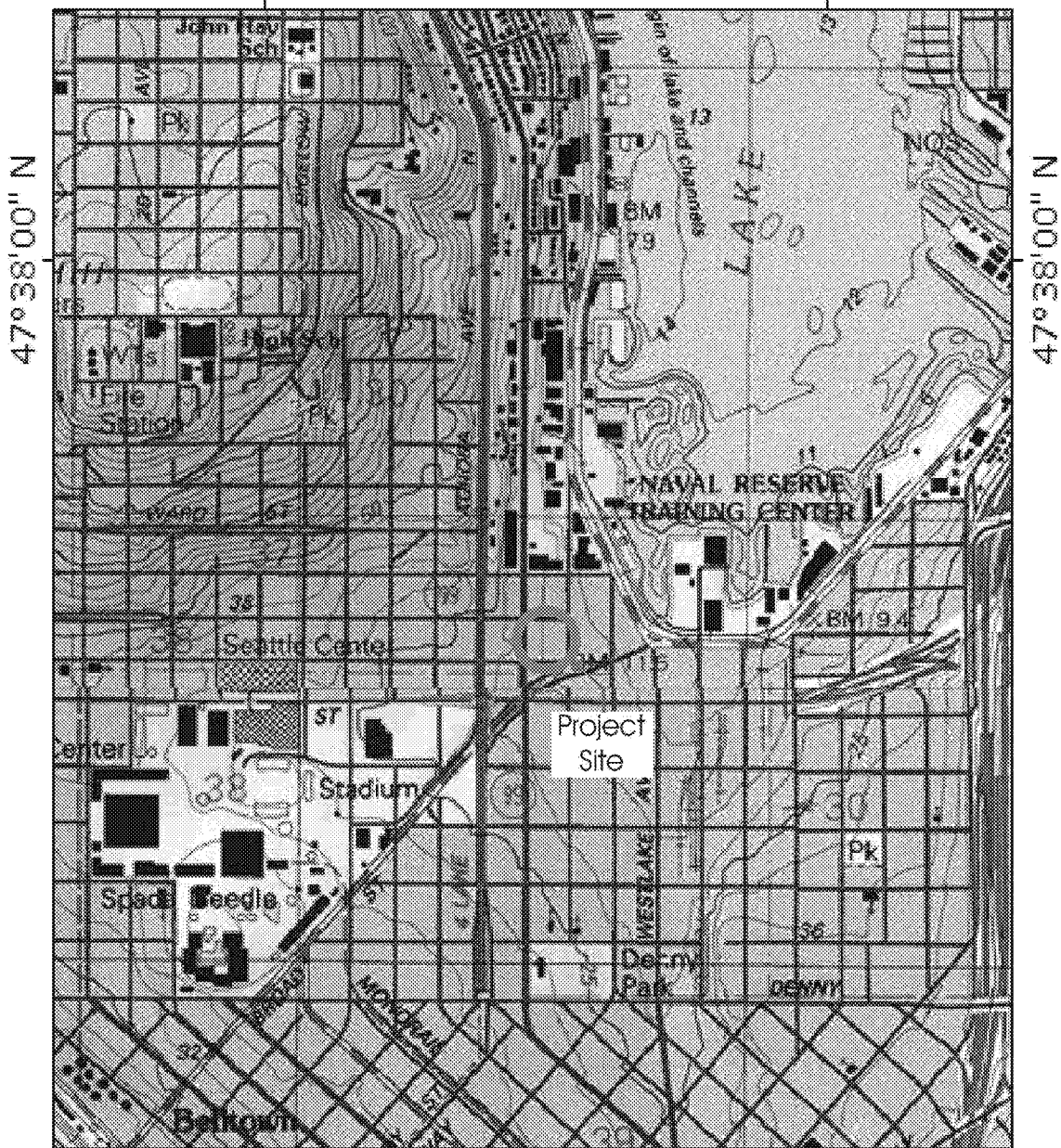
Location	Lab.	Screen Depth (feet)	Elevation TOC (feet)	Date	TPH-G (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	TPH-D (mg/l)	O&G (mg/l)	PCE (ug/l)	TCE (ug/l)	Cis-1,2-DCE (ug/l)	VC (ug/l)
B10(Retec)	ARI	12.5	----	6/24/00	----	----	----	----	----	----	----	9100	1100	7600	98

Notes:

na - not available
 TPH-G - Gasoline range hydrocarbons
 TPH-D - Diesel range hydrocarbons
 O&G - Oil and grease
 PCE- Tetrachloroethene
 TCE - Trichloroethene
 Cis-1,2-DCE - Cis-1,2-Dichloroethene
 VC - Vinyl Chloride
 E - Concentration outside of calibration range of instrument.

NET - National Environmental Testing Inc.
 NCA - North Creek Analytical Inc.
 DOF - Dalton, Olmsted & Fuglevand, Inc.
 Geo - GeoEngineers
 ARI - Analytical Resources Inc.
 TA - Test America
 (A) - MTCA CUL - Method A
 (B) - MTCA CUL - Method B
 Exceeds CUL

map printed on 02/03/08 from "Washington.tpo" and "Untitled
122°21'00" W WGS84 122°20'00" W



American Linen
773 Valley Street, Seattle, WA

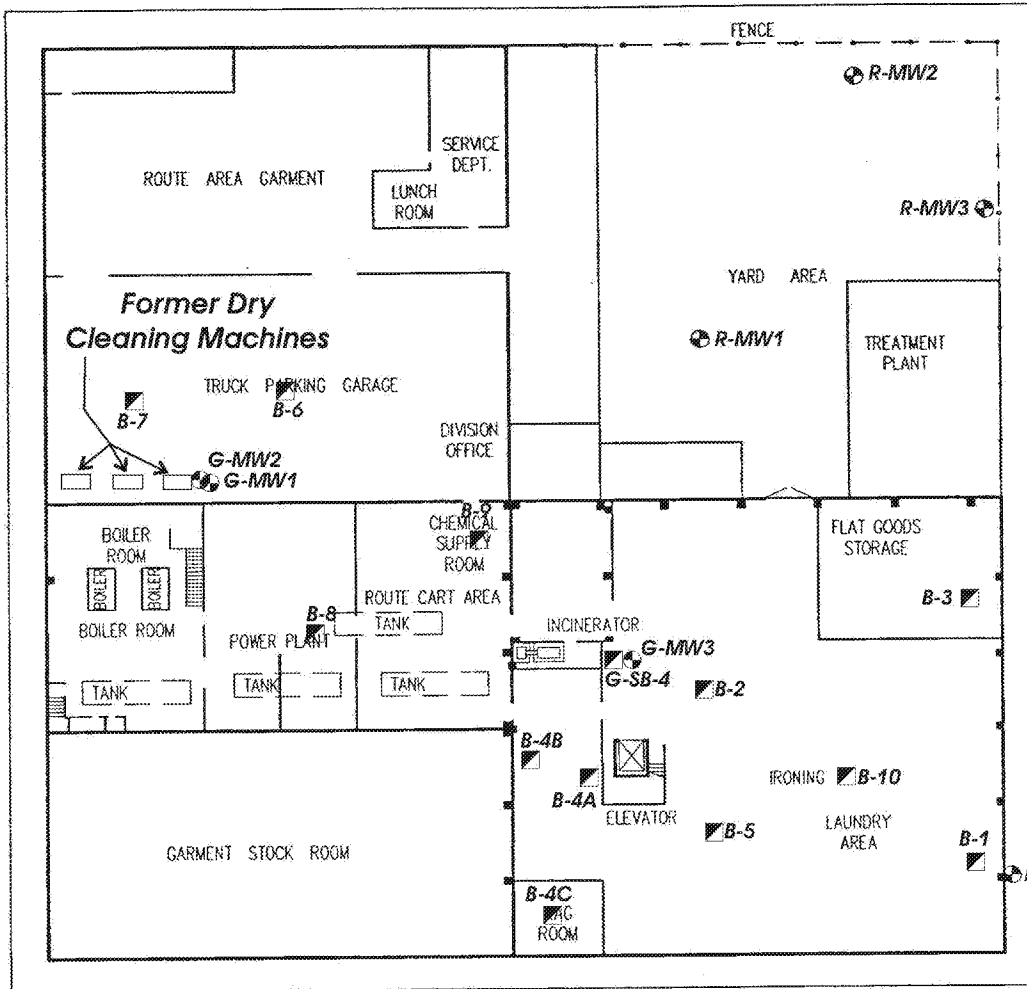
Vicinity Map

SUB-005-00 **FIGURE 1** February 2008
Dalton, Olmsted & Fuglevand, Inc.

VALLEY STREET

DEXTER AVENUE

8th AVENUE

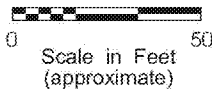


BB-8A BB-8 → 40 feet

ROY STREET

R-MW4 (destroyed)

- B-8** Geoprobe by TEG (2000) for ReTec
- G-SB4** HSA Boring by Davies for GeoEngineers (2001)
- R-MW1** Well (HSA-B56) by Tac. Pump and Drilling for Roux (1992)
- G-MW2** HSA Well by Davies for GeoEngineers (2001)

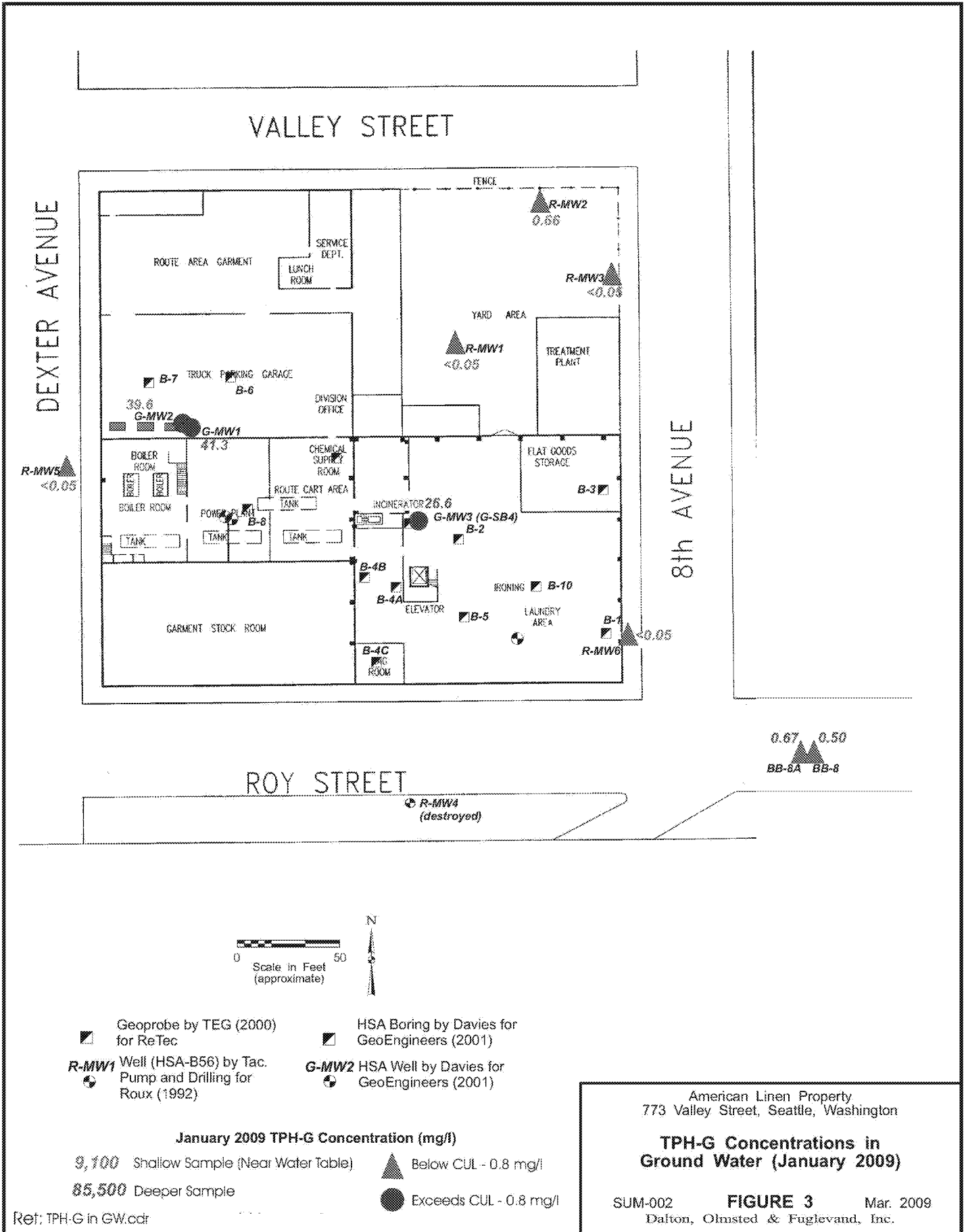


Ref: Site Plan 2-09.cdr

American Linen Property
773 Valley Street, Seattle, Washington

Site Plan and Boring/Well Location Map

SUM-005 **FIGURE 2** Mar. 2009
Dalton, Olmsted & Fuglevand, Inc.

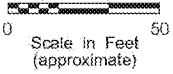


VALLEY STREET

DEXTER AVENUE

8th AVENUE

ROY STREET



- Geoprobe by TEG (2000) for ReTec
- HSA Boring by Davies for GeoEngineers (2001)
- R-MW1 Well (HSA-B56) by Tac. Pump and Drilling for Roux (1992)
- G-MW2 HSA Well by Davies for GeoEngineers (2001)

January 2009 TPH-G Concentration (mg/l)

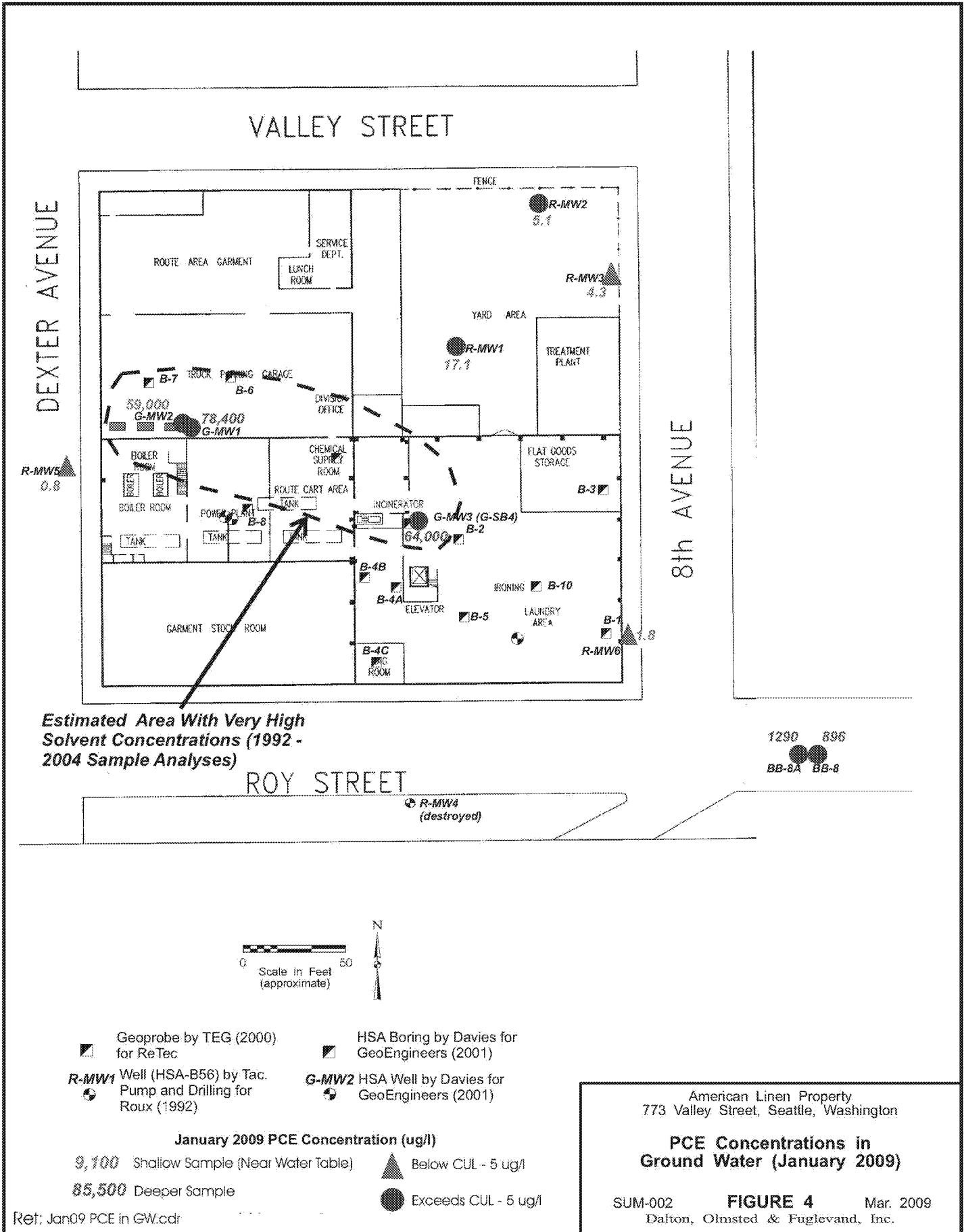
- 9,100 Shallow Sample (Near Water Table)
- 85,500 Deeper Sample
- ▲ Below CUL - 0.8 mg/l
- Exceeds CUL - 0.8 mg/l

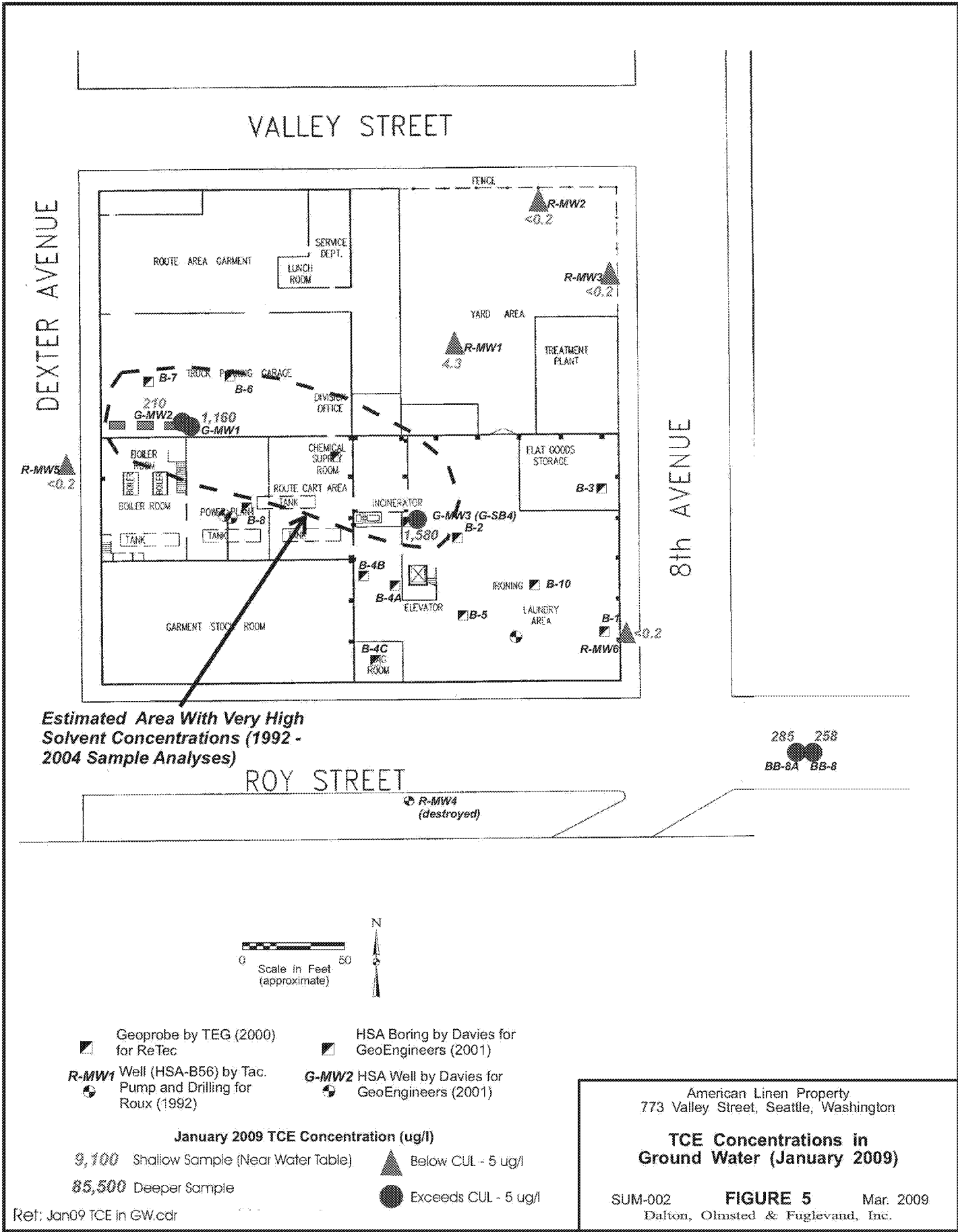
Ret: TPH-G in GW.cdr

American Linen Property
773 Valley Street, Seattle, Washington

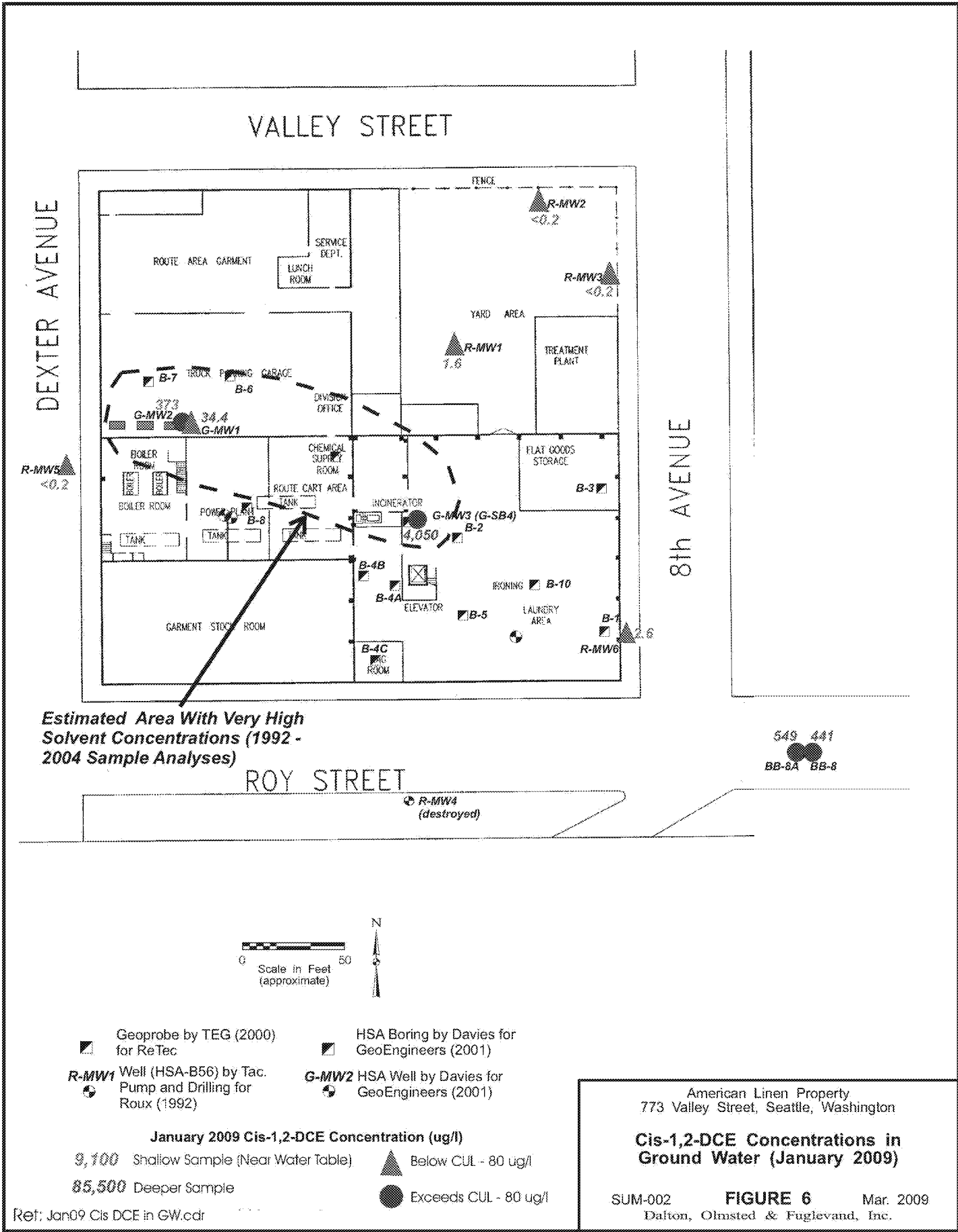
TPH-G Concentrations in Ground Water (January 2009)

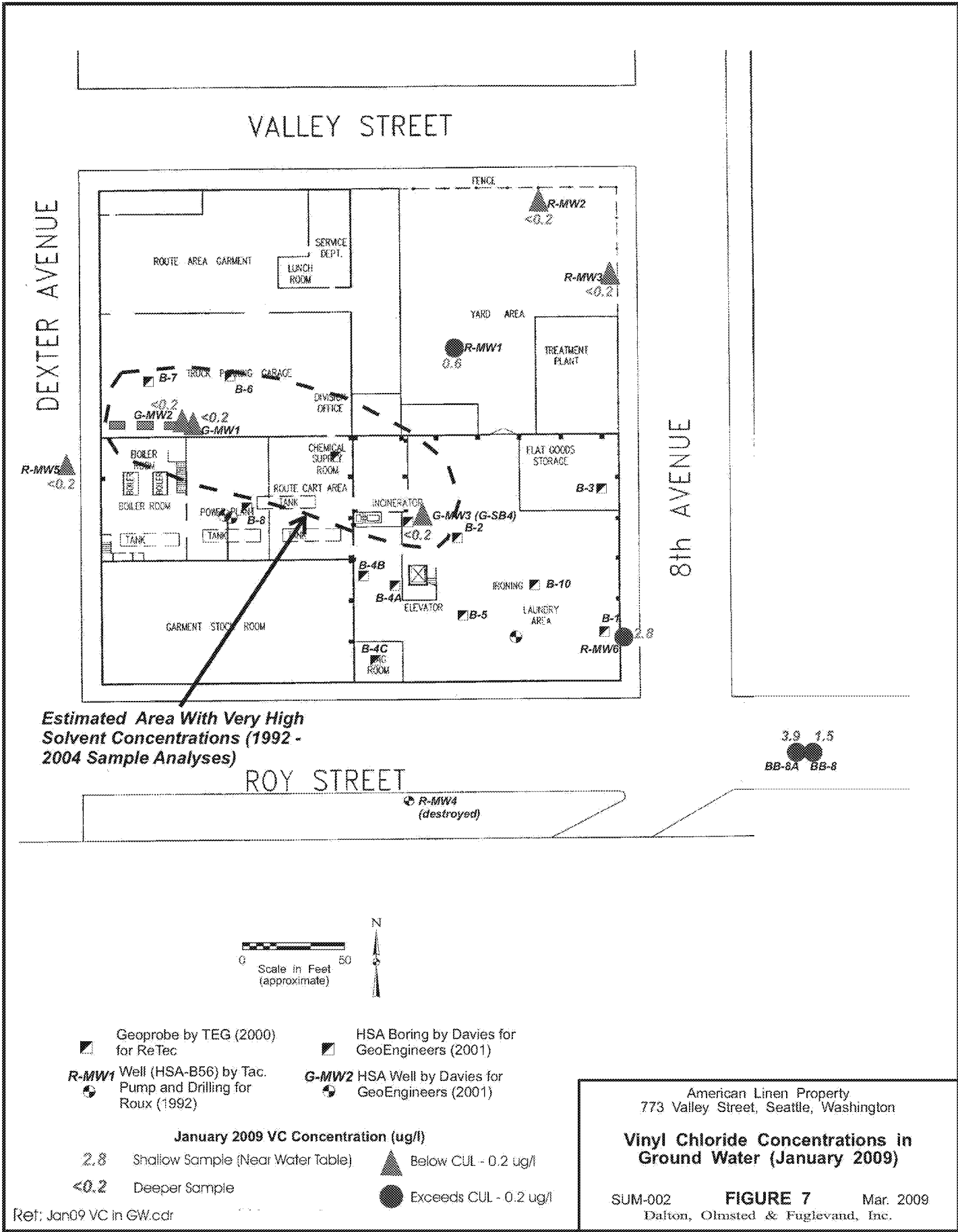
SUM-002 **FIGURE 3** Mar. 2009
Dalton, Olmsted & Fuglevand, Inc.

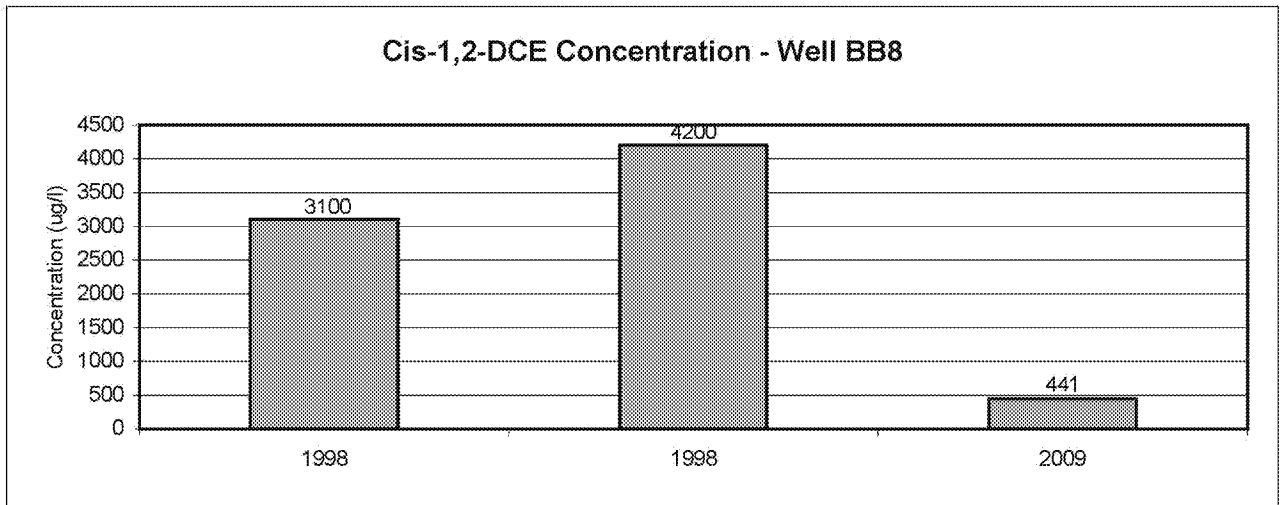
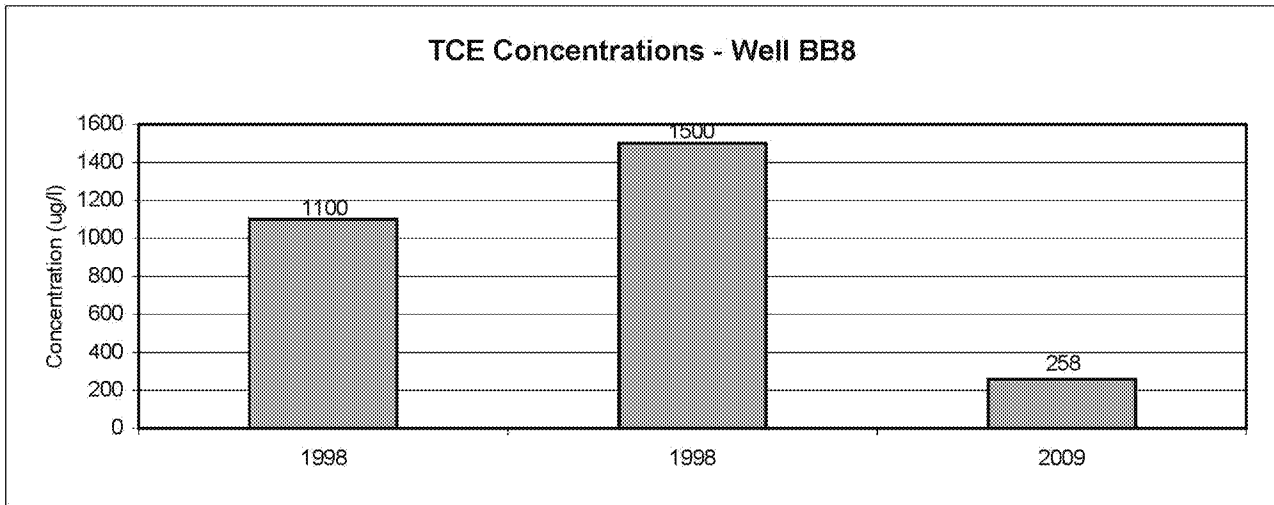
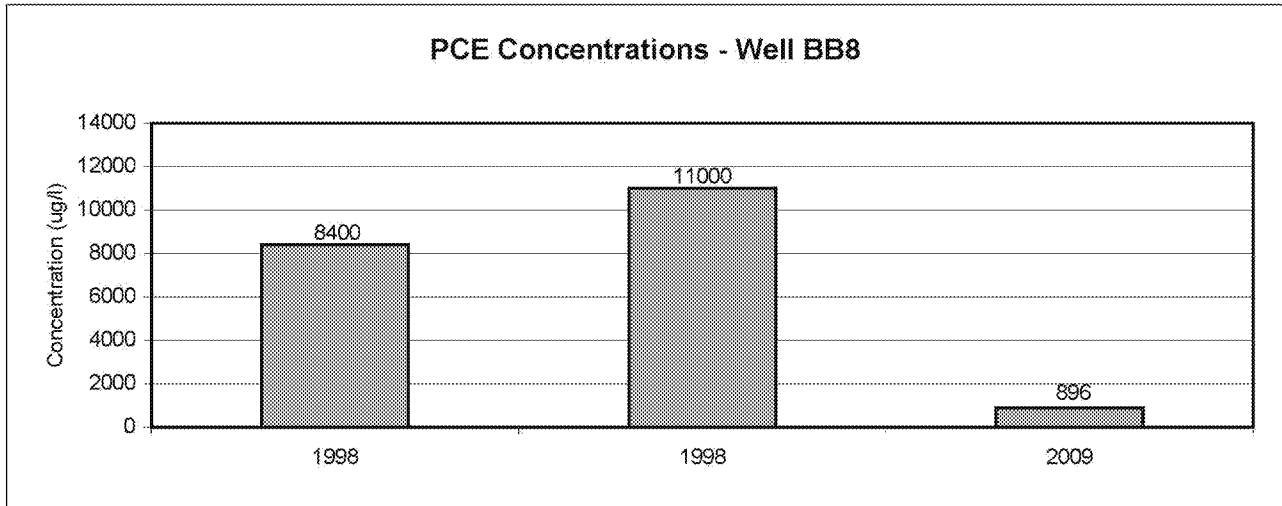


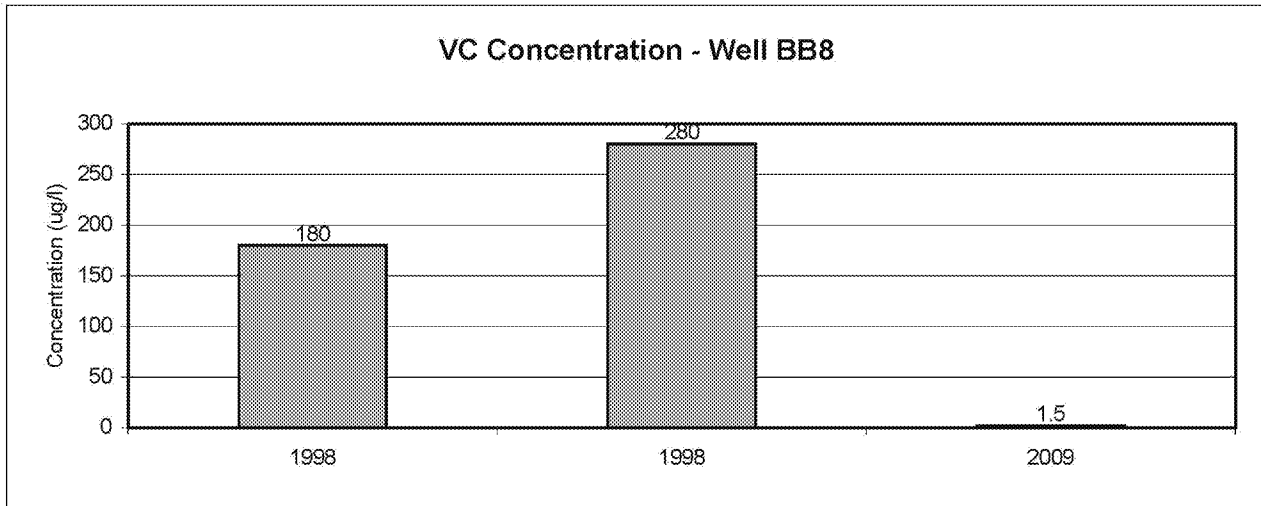


Estimated Area With Very High Solvent Concentrations (1992 - 2004 Sample Analyses)



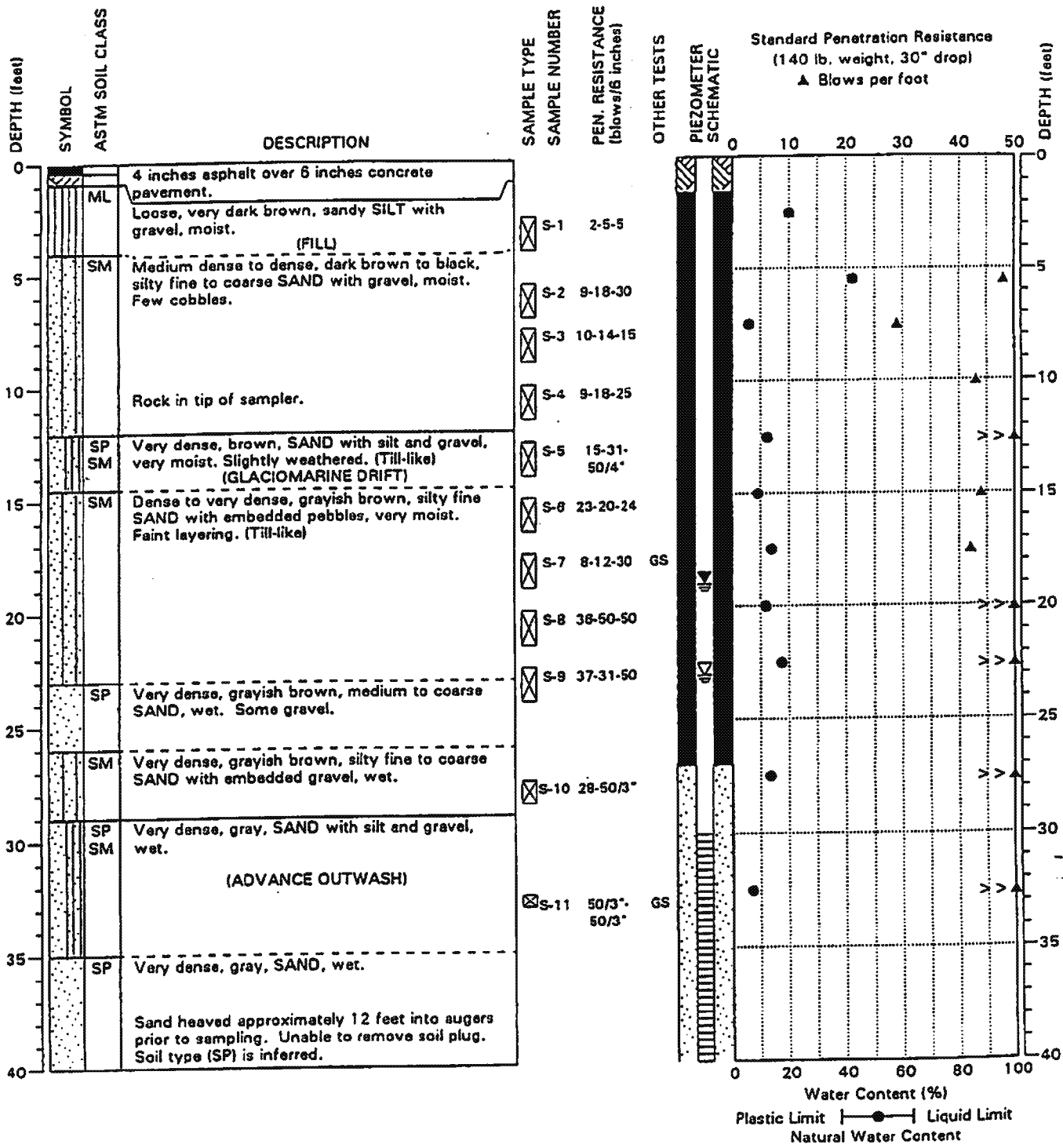






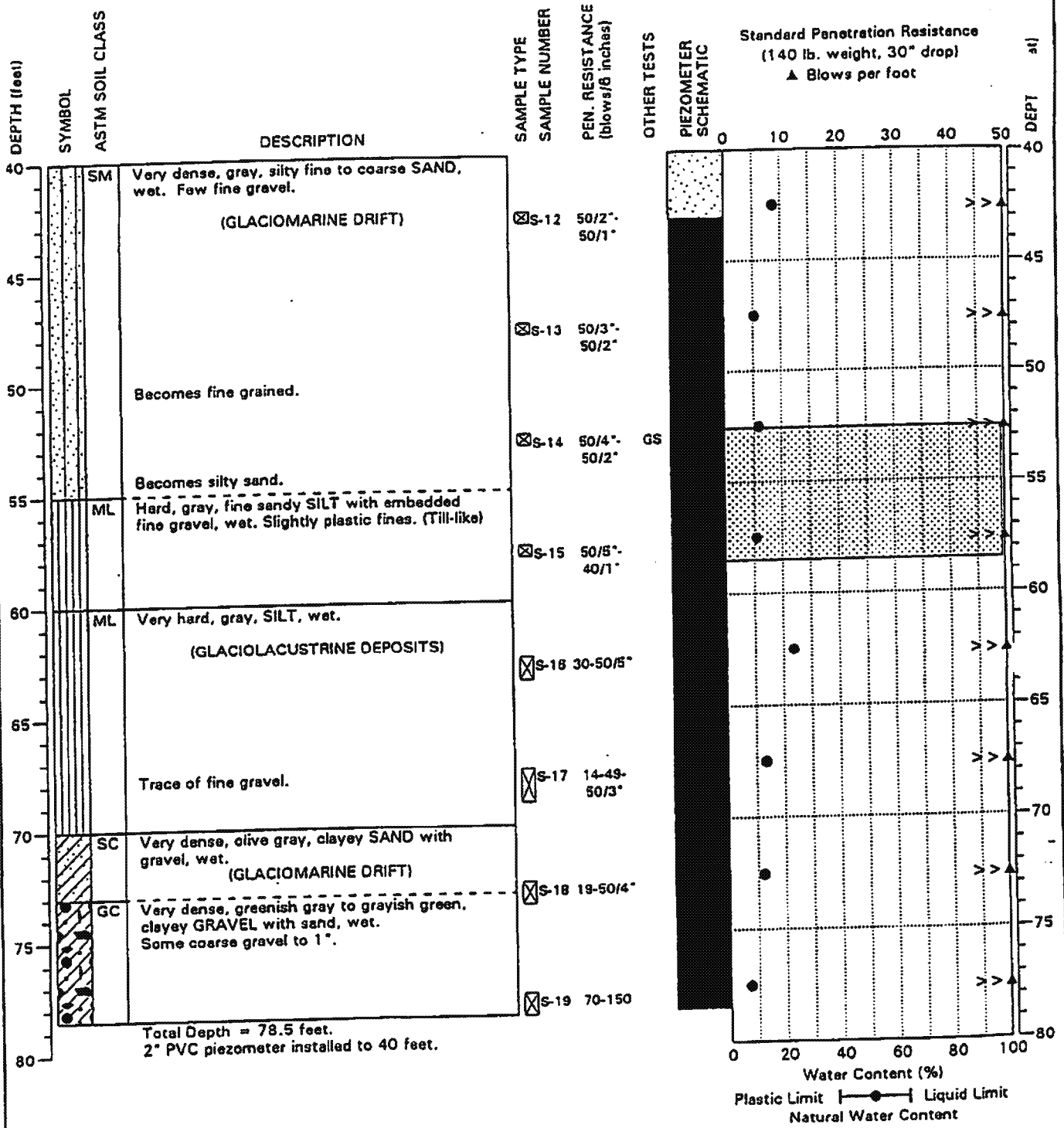
ATTACHMENT 1

Geologic and Well Construction Log – Well BB-8



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

BORING: BB- 8



BORING: BB-8

HWA Denny Way / Lake Union CSO, Contract B
 HWAGEOSCIENCES INC. Seattle, Washington

PAGE: 2 of 2

PROJECT NO.: 97061

FIGURE: A-9

ATTACHMENT 2

Laboratory Data Sheets

February 11, 2009

Matthew Dalton
Dalton, Olmsted and Fuglevand
6034 N Star Rd.
Ferndale, WA 98248

RE: American Linen

Enclosed are the results of analyses for samples received by the laboratory on 01/30/09 15:15.
The following list is a summary of the Work Orders contained in this report, generated on 02/11/09
14:04.

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

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSA0257	American Linen	SUM-005

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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Dalton, Olmsted and Fuglevand

6034 N Star Rd.
Ferndale, WA 98248

Project Name: **American Linen**
Project Number: SUM-005
Project Manager: Matthew Dalton

Report Created:
02/11/09 14:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
R-MW1	BSA0257-01	Water	01/29/09 14:00	01/30/09 15:15
R-MW2	BSA0257-02	Water	01/29/09 16:00	01/30/09 15:15
R-MW-3	BSA0257-03	Water	01/29/09 15:00	01/30/09 15:15
R-MW5	BSA0257-04	Water	01/30/09 11:00	01/30/09 15:15
R-MW6	BSA0257-05	Water	01/30/09 09:00	01/30/09 15:15
G-MW1	BSA0257-06	Water	01/29/09 13:00	01/30/09 15:15
G-MW2	BSA0257-07	Water	01/29/09 12:00	01/30/09 15:15
G-MW3	BSA0257-08	Water	01/30/09 08:00	01/30/09 15:15
BB-B	BSA0257-09	Water	01/30/09 12:00	01/30/09 15:15
BB-BA	BSA0257-10	Water	01/30/09 13:00	01/30/09 15:15

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Dalton, Olmsted and Fuglevand

6034 N Star Rd.
 Ferndale, WA 98248

Project Name: **American Linen**
 Project Number: **SUM-005**
 Project Manager: **Matthew Dalton**

Report Created:
 02/11/09 14:04

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSA0257-01 (R-MW1)		Water				Sampled: 01/29/09 14:00				
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	ND	----	50.0	ug/l	1x	9B02031	02/02/09 13:45	02/04/09 02:42	
Benzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	----	1.00	"	"	"	"	"	
<i>Surrogate(s): 4-BFB (FID)</i>				89.3%		70 - 145 %	"			"
<i>4-BFB (PID)</i>				104%		80 - 130 %	"			"
BSA0257-02 (R-MW2)		Water				Sampled: 01/29/09 16:00				
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	657	----	50.0	ug/l	1x	9B02031	02/02/09 13:45	02/04/09 10:48	
Benzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	0.557	----	0.500	"	"	"	"	"	
Ethylbenzene	"	0.513	----	0.500	"	"	"	"	"	
Xylenes (total)	"	2.08	----	1.00	"	"	"	"	"	
<i>Surrogate(s): 4-BFB (FID)</i>				117%		70 - 145 %	"			"
<i>4-BFB (PID)</i>				108%		80 - 130 %	"			"
BSA0257-03 (R-MW-3)		Water				Sampled: 01/29/09 15:00				
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	ND	----	50.0	ug/l	1x	9B02031	02/02/09 13:45	02/03/09 20:12	
Benzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	----	1.00	"	"	"	"	"	
<i>Surrogate(s): 4-BFB (FID)</i>				91.2%		70 - 145 %	"			"
<i>4-BFB (PID)</i>				101%		80 - 130 %	"			"
BSA0257-04 (R-MW5)		Water				Sampled: 01/30/09 11:00				
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	ND	----	50.0	ug/l	1x	9B02031	02/02/09 13:45	02/03/09 20:45	
Benzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	----	1.00	"	"	"	"	"	
<i>Surrogate(s): 4-BFB (FID)</i>				89.9%		70 - 145 %	"			"
<i>4-BFB (PID)</i>				99.0%		80 - 130 %	"			"

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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Dalton, Olmsted and Fuglevand

6034 N Star Rd.
 Ferndale, WA 98248

Project Name: **American Linen**
 Project Number: **SUM-005**
 Project Manager: **Matthew Dalton**

Report Created:
 02/11/09 14:04

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSA0257-05 (R-MW6)		Water		Sampled: 01/30/09 09:00						
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	ND	----	50.0	ug/l	1x	9B02031	02/02/09 13:45	02/03/09 21:17	
Benzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	C
Xylenes (total)	"	ND	----	1.00	"	"	"	"	"	
<i>Surrogate(s): 4-BFB (FID)</i>				88.3%		70 - 145 %	"			
<i>4-BFB (PID)</i>				98.9%		80 - 130 %	"			

BSA0257-06 (G-MW1)		Water		Sampled: 01/29/09 13:00						
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	41300	----	2000	ug/l	40x	9B02031	02/02/09 13:45	02/04/09 07:01	QP
Benzene	"	ND	----	20.0	"	"	"	"	"	
Toluene	"	ND	----	20.0	"	"	"	"	"	
Ethylbenzene	"	28.6	----	20.0	"	"	"	"	"	
Xylenes (total)	"	55.1	----	40.0	"	"	"	"	"	
<i>Surrogate(s): 4-BFB (FID)</i>				91.9%		70 - 145 %	1x			
<i>4-BFB (PID)</i>				100%		80 - 130 %	"			

BSA0257-07 (G-MW2)		Water		Sampled: 01/29/09 12:00						
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	39600	----	2000	ug/l	40x	9B02031	02/02/09 13:45	02/04/09 07:34	QP
Benzene	"	ND	----	20.0	"	"	"	"	"	
Toluene	"	ND	----	20.0	"	"	"	"	"	
Ethylbenzene	"	ND	----	20.0	"	"	"	"	"	
Xylenes (total)	"	48.9	----	40.0	"	"	"	"	"	
<i>Surrogate(s): 4-BFB (FID)</i>				87.9%		70 - 145 %	1x			
<i>4-BFB (PID)</i>				104%		80 - 130 %	"			

BSA0257-08 (G-MW3)		Water		Sampled: 01/30/09 08:00						
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	26600	----	1250	ug/l	25x	9B02031	02/02/09 13:45	02/04/09 11:21	QP
Benzene	"	ND	----	12.5	"	"	"	"	"	
Toluene	"	ND	----	12.5	"	"	"	"	"	
Ethylbenzene	"	ND	----	12.5	"	"	"	"	"	
Xylenes (total)	"	ND	----	25.0	"	"	"	"	"	
<i>Surrogate(s): 4-BFB (FID)</i>				89.0%		70 - 145 %	1x			
<i>4-BFB (PID)</i>				104%		80 - 130 %	"			

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Curtis D. Armstrong, Project Manager

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Dalton, Olmsted and Fuglevand 6034 N Star Rd. Ferndale, WA 98248	Project Name:	American Linen	Report Created:
	Project Number:	SUM-005	02/11/09 14:04
	Project Manager:	Matthew Dalton	

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSA0257-09 (BB-B)		Water			Sampled: 01/30/09 12:00					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	499	----	50.0	ug/l	1x	9B02031	02/02/09 13:45	02/03/09 22:22	
Benzene	"	0.694	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	----	1.00	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>4-BFB (FID)</i>			<i>91.0%</i>		<i>70 - 145 %</i>	"			"
	<i>4-BFB (PID)</i>			<i>104%</i>		<i>80 - 130 %</i>	"			"

BSA0257-10 (BB-BA)		Water			Sampled: 01/30/09 13:00					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	669	----	50.0	ug/l	1x	9B02031	02/02/09 13:45	02/04/09 03:14	
Benzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	----	1.00	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>4-BFB (FID)</i>			<i>90.2%</i>		<i>70 - 145 %</i>	"			"
	<i>4-BFB (PID)</i>			<i>102%</i>		<i>80 - 130 %</i>	"			"

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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Dalton, Olmsted and Fuglevand

6034 N Star Rd.
 Ferndale, WA 98248

Project Name: **American Linen**
 Project Number: SUM-005
 Project Manager: Matthew Dalton

Report Created:
 02/11/09 14:04

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSA0257-01 (R-MWI)										
		Water								
										Sampled: 01/29/09 14:00
Bromochloromethane	EPA 8260B	ND	----	0.250	ug/l	1x	9B02024	02/02/09 12:57	02/02/09 18:08	
Bromodichloromethane	"	ND	----	0.200	"	"	"	"	"	
Bromoform	"	ND	----	0.250	"	"	"	"	"	
Bromomethane	"	ND	----	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	----	0.200	"	"	"	"	"	
Chloroethane	"	ND	----	1.00	"	"	"	"	"	
Chloroform	"	ND	----	0.200	"	"	"	"	"	
Chloromethane	"	ND	----	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	1.60	----	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	0.500	"	"	"	"	"	
Tetrachloroethene	"	17.1	----	0.200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
Trichloroethene	"	4.26	----	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	0.500	"	"	"	"	"	
Vinyl chloride	"	0.630	----	0.200	"	"	"	"	"	
<i>Surrogate(s):</i>										
	<i>1,2-DCA-d4</i>			<i>96.0%</i>						<i>76 - 138%</i>
	<i>Toluene-d8</i>			<i>99.9%</i>						<i>80 - 120%</i>
	<i>4-BFB</i>			<i>103%</i>						<i>80 - 120%</i>

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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Dalton, Olmsted and Fuglevand 6034 N Star Rd. Ferndale, WA 98248	Project Name:	American Linen	Report Created:
	Project Number:	SUM-005	02/11/09 14:04
	Project Manager:	Matthew Dalton	

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSA0257-02 (R-MW2)		Water				Sampled: 01/29/09 16:00				
Bromochloromethane	EPA 8260B	ND	----	0.250	ug/l	1x	9B02024	02/02/09 12:57	02/02/09 18:37	
Bromodichloromethane	"	ND	----	0.200	"	"	"	"	"	
Bromoform	"	ND	----	0.250	"	"	"	"	"	
Bromomethane	"	ND	----	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	----	0.200	"	"	"	"	"	
Chloroethane	"	ND	----	1.00	"	"	"	"	"	
Chloroform	"	ND	----	0.200	"	"	"	"	"	
Chloromethane	"	ND	----	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	0.500	"	"	"	"	"	
Tetrachloroethene	"	5.05	----	0.200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
Trichloroethene	"	ND	----	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	----	0.200	"	"	"	"	"	
<hr/>										
Surrogate(s):	1,2-DCA-d4		97.8%		76 - 138%	"				"
	Toluene-d8		99.2%		80 - 120%	"				"
	4-BFB		102%		80 - 120%	"				"

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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Dalton, Olmsted and Fuglevand 6034 N Star Rd. Ferndale, WA 98248	Project Name:	American Linen	Report Created:
	Project Number:	SUM-005	02/11/09 14:04
	Project Manager:	Matthew Dalton	

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSA0257-03 (R-MW-3)		Water				Sampled: 01/29/09 15:00				
Bromochloromethane	EPA 8260B	ND	----	0.250	ug/l	1x	9B02024	02/02/09 12:57	02/02/09 19:06	
Bromodichloromethane	"	ND	----	0.200	"	"	"	"	"	
Bromoform	"	ND	----	0.250	"	"	"	"	"	
Bromomethane	"	ND	----	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	----	0.200	"	"	"	"	"	
Chloroethane	"	ND	----	1.00	"	"	"	"	"	
Chloroform	"	ND	----	0.200	"	"	"	"	"	
Chloromethane	"	ND	----	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	0.500	"	"	"	"	"	
Tetrachloroethene	"	4.26	----	0.200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
Trichloroethene	"	ND	----	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	----	0.200	"	"	"	"	"	
<hr/>										
Surrogate(s):	1,2-DCA-d4		94.2%		76 - 138%	"				"
	Toluene-d8		99.6%		80 - 120%	"				"
	4-BFB		104%		80 - 120%	"				"

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Curtis D. Armstrong, Project Manager

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Dalton, Olmsted and Fuglevand 6034 N Star Rd. Ferndale, WA 98248	Project Name:	American Linen	Report Created:
	Project Number:	SUM-005	02/11/09 14:04
	Project Manager:	Matthew Dalton	

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSA0257-04 (R-MW5)		Water			Sampled: 01/30/09 11:00					
Bromochloromethane	EPA 8260B	ND	----	0.250	ug/l	1x	9B02024	02/02/09 12:57	02/02/09 19:35	
Bromodichloromethane	"	ND	----	0.200	"	"	"	"	"	
Bromoform	"	ND	----	0.250	"	"	"	"	"	
Bromomethane	"	ND	----	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	----	0.200	"	"	"	"	"	
Chloroethane	"	ND	----	1.00	"	"	"	"	"	
Chloroform	"	ND	----	0.200	"	"	"	"	"	
Chloromethane	"	ND	----	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	0.500	"	"	"	"	"	
Tetrachloroethene	"	0.800	----	0.200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
Trichloroethene	"	ND	----	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	----	0.200	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>98.8%</i>		<i>76 - 138%</i>	"				"
	<i>Toluene-d8</i>		<i>100%</i>		<i>80 - 120%</i>	"				"
	<i>4-BFB</i>		<i>104%</i>		<i>80 - 120%</i>	"				"

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Dalton, Olmsted and Fuglevand

6034 N Star Rd.
 Ferndale, WA 98248

Project Name: **American Linen**
 Project Number: SUM-005
 Project Manager: Matthew Dalton

Report Created:
 02/11/09 14:04

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSA0257-05 (R-MW6)		Water		Sampled: 01/30/09 09:00						
Bromochloromethane	EPA 8260B	ND	----	0.250	ug/l	1x	9B02024	02/02/09 12:57	02/02/09 20:04	
Bromodichloromethane	"	ND	----	0.200	"	"	"	"	"	
Bromoform	"	ND	----	0.250	"	"	"	"	"	
Bromomethane	"	ND	----	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	----	0.200	"	"	"	"	"	
Chloroethane	"	ND	----	1.00	"	"	"	"	"	
Chloroform	"	ND	----	0.200	"	"	"	"	"	
Chloromethane	"	ND	----	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	2.64	----	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	0.500	"	"	"	"	"	
Tetrachloroethene	"	1.78	----	0.200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
Trichloroethene	"	ND	----	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	0.500	"	"	"	"	"	
Vinyl chloride	"	2.75	----	0.200	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>			<i>102%</i>						<i>96 - 138%</i>
	<i>Toluene-d8</i>			<i>101%</i>						<i>80 - 120%</i>
	<i>4-BFB</i>			<i>102%</i>						<i>80 - 120%</i>

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Curtis D. Armstrong, Project Manager

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Dalton, Olmsted and Fuglevand 6034 N Star Rd. Ferndale, WA 98248	Project Name:	American Linen	Report Created:
	Project Number:	SUM-005	02/11/09 14:04
	Project Manager:	Matthew Dalton	

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSA0257-06 (G-MWT)		Water			Sampled: 01/29/09 13:00					
Bromochloromethane	EPA 8260B	ND	----	0.250	ug/l	1x	9B02024	02/02/09 12:57	02/02/09 20:33	
Bromodichloromethane	"	ND	----	0.200	"	"	"	"	"	
Bromoform	"	ND	----	0.250	"	"	"	"	"	
Bromomethane	"	ND	----	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	0.200	"	"	"	"	"	
Chlorobenzene	"	0.500	----	0.200	"	"	"	"	"	
Chloroethane	"	ND	----	1.00	"	"	"	"	"	
Chloroform	"	0.320	----	0.200	"	"	"	"	"	
Chloromethane	"	ND	----	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethane	"	0.460	----	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	60.1	----	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	34.4	----	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	1.49	----	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	0.500	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	----	0.200	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>104%</i>		<i>76 - 138%</i>	"				
	<i>Toluene-d8</i>		<i>127%</i>		<i>80 - 120%</i>	"				<i>ZX</i>
	<i>4-BFB</i>		<i>95.0%</i>		<i>80 - 120%</i>	"				

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Dalton, Olmsted and Fuglevand 6034 N Star Rd. Ferndale, WA 98248	Project Name: American Linen Project Number: SUM-005 Project Manager: Matthew Dalton	Report Created: 02/11/09 14:04
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
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BSA0257-06RE1 (G-MW1)		Water			Sampled: 01/29/09 13:00					
Trichloroethene	EPA 8260B	1160	---	40.0	ug/l	200x	9B05010	02/05/09 14:33	02/05/09 15:46	
Surrogate(s):		1,2-DCA-d4	101%	76 - 138%	1x					
		Toluene-d8	102%	80 - 120%	"					
		4-BFB	104%	80 - 120%	"					

BSA0257-06RE2 (G-MW1)		Water			Sampled: 01/29/09 13:00					
Tetrachloroethene	EPA 8260B	78400	---	400	ug/l	2600x	9B05010	02/05/09 14:33	02/05/09 21:42	BI
Surrogate(s):		1,2-DCA-d4	103%	76 - 138%	1x					
		Toluene-d8	104%	80 - 120%	"					
		4-BFB	103%	80 - 120%	"					

BSA0257-07 (G-MW2)		Water			Sampled: 01/29/09 12:00					
Bromochloromethane	EPA 8260B	ND	---	0.250	ug/l	1x	9B02024	02/02/09 12:57	02/02/09 21:02	
Bromodichloromethane	"	ND	---	0.200	"	"	"	"	"	
Bromoform	"	ND	---	0.250	"	"	"	"	"	
Bromomethane	"	ND	---	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	"	"	"	
Chlorobenzene	"	0.720	---	0.200	"	"	"	"	"	
Chloroethane	"	ND	---	1.00	"	"	"	"	"	
Chloroform	"	2.79	---	0.200	"	"	"	"	"	
Chloromethane	"	ND	---	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	1.31	---	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	1.33	---	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
Methylene chloride	"	ND	---	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	"	"	"	
1,1,1-Trichloroethane	"	5.54	---	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	---	0.200	"	"	"	"	"	
Surrogate(s):		1,2-DCA-d4	98.0%	76 - 138%	"					
		Toluene-d8	134%	80 - 120%	"					ZX

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Curtis D. Armstrong, Project Manager

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Dalton, Olmsted and Fuglevand 6034 N Star Rd. Ferndale, WA 98248	Project Name: American Linen Project Number: SUM-005 Project Manager: Matthew Dalton	Report Created: 02/11/09 14:04
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
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BSA0257-07 (G-MW2)		Water			Sampled: 01/29/09 12:00					
<i>4-BFB</i>		94.8%		80 - 120%		1x			02/02/09 21:02	

BSA0257-07RE1 (G-MW2)		Water			Sampled: 01/29/09 12:00					
Tetrachloroethene	EPA 8260B	59000	----	400	ug/l	2000x	9B05010	02/05/09 14:33	02/05/09 22:12	BI
<i>Surrogate(s): 1,2-DCA-d4</i>		100%		76 - 138%		1x			"	
<i>Toluene-d8</i>		106%		80 - 120%		"			"	
<i>4-BFB</i>		111%		80 - 120%		"			"	

BSA0257-07RE2 (G-MW2)		Water			Sampled: 01/29/09 12:00					
cis-1,2-Dichloroethene	EPA 8260B	373	----	2.00	ug/l	10x	9B05010	02/05/09 14:33	02/05/09 23:10	
Trichloroethene	"	210	----	2.00	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		84.7%		76 - 138%		1x			"	
<i>Toluene-d8</i>		109%		80 - 120%		"			"	
<i>4-BFB</i>		105%		80 - 120%		"			"	

BSA0257-08 (G-MW3)		Water			Sampled: 01/30/09 08:00					
Bromochloromethane	EPA 8260B	ND	----	0.250	ug/l	1x	9B02024	02/02/09 12:57	02/02/09 21:31	
Bromodichloromethane	"	ND	----	0.200	"	"	"	"	"	
Bromoform	"	ND	----	0.250	"	"	"	"	"	
Bromomethane	"	ND	----	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	0.200	"	"	"	"	"	
Chlorobenzene	"	0.220	----	0.200	"	"	"	"	"	
Chloroethane	"	ND	----	1.00	"	"	"	"	"	
Chloroform	"	ND	----	0.200	"	"	"	"	"	
Chloromethane	"	ND	----	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethane	"	0.410	----	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	18.9	----	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	13.9	----	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	0.500	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	

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Dalton, Olmsted and Fuglevand 6034 N Star Rd. Ferndale, WA 98248	Project Name: American Linen Project Number: SUM-005 Project Manager: Matthew Dalton	Report Created: 02/11/09 14:04
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
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BSA0257-08 (G-MW3)		Water			Sampled: 01/30/09 08:00					
Trichlorofluoromethane	EPA 8260B	ND	----	0.500	ug/l	1x	9B02024	02/02/09 12:57	02/02/09 21:31	
Vinyl chloride	"	ND	----	0.200	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				93.2%		76 - 138%	"			
<i>Toluene-d8</i>				135%		80 - 120%	"			ZX
<i>4-BFB</i>				94.0%		80 - 120%	"			

BSA0257-08RE1 (G-MW3)		Water			Sampled: 01/30/09 08:00					
cis-1,2-Dichloroethene	EPA 8260B	4050	----	40.0	ug/l	200x	9B05010	02/05/09 14:33	02/05/09 19:46	
Trichloroethene	"	1580	----	40.0	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				103%		76 - 138%	1x			
<i>Toluene-d8</i>				105%		80 - 120%	"			
<i>4-BFB</i>				103%		80 - 120%	"			

BSA0257-08RE2 (G-MW3)		Water			Sampled: 01/30/09 08:00					
Tetrachloroethene	EPA 8260B	64000	----	400	ug/l	2000x	9B06009	02/06/09 13:00	02/06/09 19:33	BI
<i>Surrogate(s): 1,2-DCA-d4</i>				105%		76 - 138%	1x			
<i>Toluene-d8</i>				103%		80 - 120%	"			
<i>4-BFB</i>				105%		80 - 120%	"			

BSA0257-09 (BB-B)		Water			Sampled: 01/30/09 12:00					
Bromochloromethane	EPA 8260B	ND	----	0.250	ug/l	1x	9B02024	02/02/09 12:57	02/02/09 22:00	
Bromodichloromethane	"	ND	----	0.200	"	"	"	"	"	
Bromoform	"	ND	----	0.250	"	"	"	"	"	
Bromomethane	"	ND	----	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	----	0.200	"	"	"	"	"	
Chloroethane	"	ND	----	1.00	"	"	"	"	"	
Chloroform	"	ND	----	0.200	"	"	"	"	"	
Chloromethane	"	ND	----	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	1.36	----	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	2.45	----	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	

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Curtis D. Armstrong, Project Manager



Dalton, Olmsted and Fuglevand

6034 N Star Rd.
 Ferndale, WA 98248

Project Name: **American Linen**

Project Number: **SUM-005**

Project Manager: **Matthew Dalton**

Report Created:

02/11/09 14:04

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSA0257-09 (BB-B)		Water				Sampled: 01/30/09 12:00				
Methylene chloride	EPA 8260B	ND	----	5.00	ug/l	1x	9B02024	02/02/09 12:57	02/02/09 22:00	
1,1,2,2-Tetrachloroethane	"	ND	----	0.500	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	0.500	"	"	"	"	"	
Vinyl chloride	"	1.48	----	0.200	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>91.7%</i>			<i>76 - 138%</i>	"			"
<i>Toluene-d8</i>			<i>102%</i>			<i>80 - 120%</i>	"			"
<i>4-BFB</i>			<i>103%</i>			<i>80 - 120%</i>	"			"
BSA0257-09RE1 (BB-B)		Water				Sampled: 01/30/09 12:00				
cis-1,2-Dichloroethene	EPA 8260B	441	----	8.00	ug/l	50x	9B05010	02/05/09 14:33	02/05/09 20:44	
Tetrachloroethene	"	896	----	8.00	"	"	"	"	"	B1
Trichloroethene	"	258	----	8.00	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>104%</i>			<i>76 - 138%</i>	<i>1x</i>			"
<i>Toluene-d8</i>			<i>103%</i>			<i>80 - 120%</i>	"			"
<i>4-BFB</i>			<i>104%</i>			<i>80 - 120%</i>	"			"
BSA0257-10 (BB-BA)		Water				Sampled: 01/30/09 13:00				
Bromochloromethane	EPA 8260B	ND	----	0.250	ug/l	1x	9B02024	02/02/09 12:57	02/02/09 22:28	
Bromodichloromethane	"	ND	----	0.200	"	"	"	"	"	
Bromoform	"	ND	----	0.250	"	"	"	"	"	
Bromomethane	"	ND	----	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	----	0.200	"	"	"	"	"	
Chloroethane	"	ND	----	1.00	"	"	"	"	"	
Chloroform	"	ND	----	0.200	"	"	"	"	"	
Chloromethane	"	ND	----	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	1.59	----	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	2.96	----	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	0.500	"	"	"	"	"	

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Curtis D. Armstrong, Project Manager

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Dalton, Olmsted and Fuglevand 6034 N Star Rd. Ferndale, WA 98248	Project Name:	American Linen	Report Created:
	Project Number:	SUM-005	02/11/09 14:04
	Project Manager:	Matthew Dalton	

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSA0257-10 (BB-BA)		Water		Sampled: 01/30/09 13:00						
1,1,1-Trichloroethane	EPA 8260B	ND	----	0.200	ug/l	1x	9B02024	02/02/09 12:57	02/02/09 22:28	
1,1,2-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	0.500	"	"	"	"	"	
Vinyl chloride	"	3.86	----	0.200	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				<i>91.4%</i>		<i>76 - 138%</i>	"			"
<i>Toluene-d8</i>				<i>102%</i>		<i>80 - 120%</i>	"			"
<i>4-BFB</i>				<i>104%</i>		<i>80 - 120%</i>	"			"

BSA0257-10RE1 (BB-BA)		Water		Sampled: 01/30/09 13:00						
cis-1,2-Dichloroethene	EPA 8260B	549	----	8.00	ug/l	40x	9B05010	02/05/09 14:33	02/05/09 21:13	
Tetrachloroethene	"	1290	----	8.00	"	"	"	"	"	BI
Trichloroethene	"	285	----	8.00	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				<i>103%</i>		<i>76 - 138%</i>	<i>1x</i>			"
<i>Toluene-d8</i>				<i>104%</i>		<i>80 - 120%</i>	"			"
<i>4-BFB</i>				<i>104%</i>		<i>80 - 120%</i>	"			"

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Curtis D. Armstrong, Project Manager

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Dalton, Olmsted and Fuglevand 6034 N Star Rd. Ferndale, WA 98248	Project Name: American Linen Project Number: SUM-005 Project Manager: Matthew Dalton	Report Created: 02/11/09 14:04
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Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B02031 Water Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9B02031-BLK1)													Extracted: 02/02/09 13:45			
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	02/03/09 14:14			
Benzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"			
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"			
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"			
Xylenes (total)	"	ND	---	1.00	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 88.7%</i>		<i>Limits: 70-145%</i>								<i>02/03/09 14:14</i>				
<i>4-BFB (PID)</i>		<i>101%</i>		<i>80-130%</i>								<i>"</i>				
LCS (9B02031-BS1)													Extracted: 02/02/09 13:45			
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	1080	---	50.0	ug/l	1x	--	1000	108%	(80-120)	--	--	02/03/09 14:47			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 98.3%</i>		<i>Limits: 70-145%</i>								<i>02/03/09 14:47</i>				
LCS (9B02031-BS2)													Extracted: 02/02/09 13:45			
Benzene	NWTPH-Gx/ 8021B	30.4	---	0.500	ug/l	1x	--	30.0	101%	(80-125)	--	--	02/03/09 15:20			
Toluene	"	32.4	---	0.500	"	"	--	"	108%	(80-120)	--	--	"			
Ethylbenzene	"	32.7	---	0.500	"	"	--	"	109%	(80-125)	--	--	"			
Xylenes (total)	"	97.8	---	1.00	"	"	--	99.0	109%	(75-120)	--	--	"			
<i>Surrogate(s): 4-BFB (PID)</i>		<i>Recovery: 101%</i>		<i>Limits: 80-130%</i>								<i>02/03/09 15:20</i>				
Duplicate (9B02031-DUP1)													QC Source: BSA0245-02		Extracted: 02/02/09 13:45	
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	761	---	250	ug/l	5x	2070	--	--	--	92.4%	(25)	02/04/09 12:59	R3		
Benzene	"	ND	---	2.50	"	"	ND	--	--	--	NR	"	"			
Toluene	"	ND	---	2.50	"	"	ND	--	--	--	56.1%	"	"	R4		
Ethylbenzene	"	23.3	---	2.50	"	"	66.6	--	--	--	96.4%	"	"	R3		
Xylenes (total)	"	66.8	---	5.00	"	"	182	--	--	--	92.7%	"	"	R3		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 93.4%</i>		<i>Limits: 70-145%</i>		<i>1x</i>						<i>02/04/09 12:59</i>				
<i>4-BFB (PID)</i>		<i>104%</i>		<i>80-130%</i>		<i>"</i>						<i>"</i>				
Duplicate (9B02031-DUP2)													QC Source: BSA0245-03		Extracted: 02/02/09 13:45	
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	ND	---	50.0	ug/l	1x	ND	--	--	--	NR	(25)	02/03/09 17:30			
Benzene	"	ND	---	0.500	"	"	ND	--	--	--	"	"	"			
Toluene	"	ND	---	0.500	"	"	ND	--	--	--	NR	"	"			
Ethylbenzene	"	ND	---	0.500	"	"	ND	--	--	--	"	"	"	C		
Xylenes (total)	"	ND	---	1.00	"	"	ND	--	--	--	"	"	"			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 88.9%</i>		<i>Limits: 70-145%</i>								<i>02/03/09 17:30</i>				
<i>4-BFB (PID)</i>		<i>101%</i>		<i>80-130%</i>		<i>"</i>						<i>"</i>				

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Curtis D. Armstrong, Project Manager

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Dalton, Olmsted and Fuglevand 6034 N Star Rd. Ferndale, WA 98248	Project Name:	American Linen	Report Created:
	Project Number:	SUM-005	02/11/09 14:04
	Project Manager:	Matthew Dalton	

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B02031 Water Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (9B02031-MS1)				QC Source: BSA0245-02			Extracted: 02/02/09 13:45							
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	3450	---	50.0	ug/l	1x	2070	1000	138%	(70-135)	---	---	02/03/09 22:55	MI
<i>Surrogate(s): 4-BFB (PID)</i>		<i>Recovery: 180%</i>		<i>Limits: 70-145%</i>								<i>02/03/09 22:55</i>		ZX
Matrix Spike (9B02031-MS2)				QC Source: BSA0245-03			Extracted: 02/02/09 13:45							
Benzene	NWTPH-Gx/ 8021B	34.9	---	0.500	ug/l	1x	ND	30.0	116%	(60-135)	---	---	02/04/09 00:00	
Toluene	"	36.3	---	0.500	"	"	ND	"	121%	(65-135)	---	---	"	
Ethylbenzene	"	37.9	---	0.500	"	"	ND	"	126%	"	---	---	"	
Xylenes (total)	"	108	---	1.00	"	"	ND	90.0	121%	(65-130)	---	---	"	
<i>Surrogate(s): 4-BFB (PID)</i>		<i>Recovery: 99.4%</i>		<i>Limits: 80-130%</i>								<i>02/04/09 00:00</i>		
Matrix Spike Dup (9B02031-MSD1)				QC Source: BSA0245-02			Extracted: 02/02/09 13:45							
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	3380	---	50.0	ug/l	1x	2070	1000	132%	(70-135)	1.84%	(25)	02/03/09 23:27	
<i>Surrogate(s): 4-BFB (PID)</i>		<i>Recovery: 177%</i>		<i>Limits: 70-145%</i>								<i>02/03/09 23:27</i>		ZX
Matrix Spike Dup (9B02031-MSD2)				QC Source: BSA0245-03			Extracted: 02/02/09 13:45							
Benzene	NWTPH-Gx/ 8021B	33.9	---	0.500	ug/l	1x	ND	30.0	113%	(60-135)	3.11%	(25)	02/04/09 00:32	
Toluene	"	34.8	---	0.500	"	"	ND	"	116%	(65-135)	4.09%	"	"	
Ethylbenzene	"	36.1	---	0.500	"	"	ND	"	120%	"	5.08%	"	"	
Xylenes (total)	"	103	---	1.00	"	"	ND	90.0	115%	(65-130)	5.04%	"	"	
<i>Surrogate(s): 4-BFB (PID)</i>		<i>Recovery: 102%</i>		<i>Limits: 80-130%</i>								<i>02/04/09 00:32</i>		

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	Project Number:	SUM-005	02/11/09 14:04
	Project Manager:	Matthew Dalton	

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B02024 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B02024-BL.K1)													Extracted: 02/02/09 12:57	
Bromochloromethane	EPA 8260B	ND	---	0.250	ug/l	1x	---	---	---	---	---	---	02/02/09 16:43	
Bromodichloromethane	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Bromoform	"	ND	---	0.250	"	"	---	---	---	---	---	---	"	
Bromomethane	"	ND	---	2.00	"	"	---	---	---	---	---	---	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Chlorobenzene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Chloroethane	"	ND	---	1.00	"	"	---	---	---	---	---	---	"	
Chloroform	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Chloromethane	"	ND	---	1.00	"	"	---	---	---	---	---	---	"	
Dibromochloromethane	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Methylene chloride	"	ND	---	5.00	"	"	---	---	---	---	---	---	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	---	---	---	---	---	---	"	
Tetrachloroethene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Trichloroethene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	---	---	---	---	---	---	"	
Vinyl chloride	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>95.2%</i>	<i>Limits:</i>	<i>76-138%</i>	"							<i>02/02/09 16:41</i>	
<i>Toluene-d8</i>			<i>100%</i>		<i>80-120%</i>	"							"	
<i>4-BFB</i>			<i>104%</i>		<i>80-120%</i>	"							"	

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Curtis D. Armstrong, Project Manager

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Dalton, Olmsted and Fuglevand 6034 N Star Rd. Ferndale, WA 98248	Project Name: American Linen Project Number: SUM-005 Project Manager: Matthew Dalton	Report Created: 02/11/09 14:04
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B02024 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9B02024-BS1) Extracted: 02/02/09 12:57														
Chlorobenzene	EPA 8260B	38.3	---	0.200	ug/l	1x	---	40.0	95.8%	(80-120)	---	---	02/02/09 14:12	
1,1-Dichloroethene	"	35.2	---	0.200	"	"	---	"	87.9%	"	---	---	"	
Trichloroethene	"	36.6	---	0.200	"	"	---	"	91.5%	"	---	---	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 89.6% Limits: 76-138% "</i> 02/02/09 14:12														
<i>Toluene-d8 Recovery: 95.2% Limits: 80-120% "</i> "														
<i>4-BFB Recovery: 103% Limits: 80-120% "</i> "														

LCS Dup (9B02024-BSD1) Extracted: 02/02/09 12:57														
Chlorobenzene	EPA 8260B	39.0	---	0.200	ug/l	1x	---	40.0	97.6%	(80-120)	1.89%	(20)	02/02/09 14:41	
1,1-Dichloroethene	"	34.3	---	0.200	"	"	---	"	85.7%	"	2.53%	"	"	
Trichloroethene	"	36.2	---	0.200	"	"	---	"	90.6%	"	1.04%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 87.0% Limits: 76-138% "</i> 02/02/09 14:41														
<i>Toluene-d8 Recovery: 97.1% Limits: 80-120% "</i> "														
<i>4-BFB Recovery: 101% Limits: 80-120% "</i> "														

QC Batch: 9B05010 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B05010-BLK1) Extracted: 02/05/09 12:33														
Bromochloromethane	EPA 8260B	ND	---	0.250	ug/l	1x	---	---	---	---	---	---	02/05/09 14:48	
Bromodichloromethane	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Bromoform	"	ND	---	0.250	"	"	---	---	---	---	---	---	"	
Bromomethane	"	ND	---	2.00	"	"	---	---	---	---	---	---	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Chlorobenzene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Chloroethane	"	ND	---	1.00	"	"	---	---	---	---	---	---	"	
Chloroform	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Chloromethane	"	ND	---	1.00	"	"	---	---	---	---	---	---	"	
Dibromochloromethane	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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Dalton, Olmsted and Fuglevand 6034 N Star Rd. Ferndale, WA 98248	Project Name:	American Linen	Report Created:
	Project Number:	SUM-005	02/11/09 14:04
	Project Manager:	Matthew Dalton	

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B05010 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B05010-BLK1)														
Extracted: 02/05/09 12:33														
cis-1,3-Dichloropropene	EPA 8260B	ND	---	0.200	ug/l	1x	---	---	---	---	---	---	02/05/09 14:48	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Methylene chloride	"	ND	---	5.00	"	"	---	---	---	---	---	---	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	---	---	---	---	---	---	"	
Tetrachloroethene	"	0.430	---	0.200	"	"	---	---	---	---	---	---	"	B
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Trichloroethene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	---	---	---	---	---	---	"	
Vinyl chloride	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>97.2%</i>	<i>Limits:</i>	<i>76-138%</i>	"							<i>02/05/09 14:48</i>	
	<i>Toluene-d8</i>		<i>102%</i>		<i>80-120%</i>	"							"	
	<i>4-BFB</i>		<i>104%</i>		<i>80-120%</i>	"							"	

LCS (9B05010-BS1)														
Extracted: 02/05/09 12:33														
Chlorobenzene	EPA 8260B	37.6	---	0.200	ug/l	1x	---	40.0	94.0%	(80-120)	---	---	02/05/09 12:46	
1,1-Dichloroethene	"	41.3	---	0.200	"	"	---	"	103%	"	---	---	"	
Trichloroethene	"	38.3	---	0.200	"	"	---	"	95.8%	"	---	---	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>95.4%</i>	<i>Limits:</i>	<i>76-138%</i>	"							<i>02/05/09 12:46</i>	
	<i>Toluene-d8</i>		<i>97.9%</i>		<i>80-120%</i>	"							"	
	<i>4-BFB</i>		<i>99.3%</i>		<i>80-120%</i>	"							"	

LCS Dup (9B05010-BSD1)														
Extracted: 02/05/09 12:33														
Chlorobenzene	EPA 8260B	39.1	---	0.200	ug/l	1x	---	40.0	97.8%	(80-120)	4.02%	(20)	02/05/09 13:15	
1,1-Dichloroethene	"	42.1	---	0.200	"	"	---	"	105%	"	1.82%	"	"	
Trichloroethene	"	39.3	---	0.200	"	"	---	"	98.2%	"	2.45%	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>92.5%</i>	<i>Limits:</i>	<i>76-138%</i>	"							<i>02/05/09 13:15</i>	
	<i>Toluene-d8</i>		<i>99.9%</i>		<i>80-120%</i>	"							"	
	<i>4-BFB</i>		<i>101%</i>		<i>80-120%</i>	"							"	

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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Dalton, Olmsted and Fuglevand 6034 N Star Rd. Ferndale, WA 98248	Project Name:	American Linen	Report Created:
	Project Number:	SUM-005	02/11/09 14:04
	Project Manager:	Matthew Dalton	

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B06009 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B06009-BL.K1)													Extracted: 02/06/09 13:00	
Bromochloromethane	EPA 8260B	ND	---	0.250	ug/l	1x	---	---	---	---	---	---	02/06/09 15:40	
Bromodichloromethane	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Bromoform	"	ND	---	0.250	"	"	---	---	---	---	---	---	"	
Bromomethane	"	ND	---	2.00	"	"	---	---	---	---	---	---	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Chlorobenzene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Chloroethane	"	ND	---	1.00	"	"	---	---	---	---	---	---	"	
Chloroform	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Chloromethane	"	ND	---	1.00	"	"	---	---	---	---	---	---	"	
Dibromochloromethane	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Methylene chloride	"	ND	---	5.00	"	"	---	---	---	---	---	---	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	---	---	---	---	---	---	"	
Tetrachloroethene	"	0.490	---	0.200	"	"	---	---	---	---	---	---	"	B
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Trichloroethene	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	---	---	---	---	---	---	"	
Vinyl chloride	"	ND	---	0.200	"	"	---	---	---	---	---	---	"	
Surrogate(s):	1,2-DCA-d4	Recovery:	99.4%	Limits:	76-138%	"							02/06/09 15:40	
	Toluene-d8		103%		80-120%	"							"	
	4-BFB		104%		80-120%	"							"	

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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Dalton, Olmsted and Fuglevand 6034 N Star Rd. Ferndale, WA 98248	Project Name:	American Linen	Report Created:
	Project Number:	SUM-005	02/11/09 14:04
	Project Manager:	Matthew Dalton	

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B06009 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9B06009-BS1)														
Extracted: 02/06/09 13:00														
Chlorobenzene	EPA 8260B	38.4	---	0.200	ug/l	1x	--	40.0	96.0%	(80-120)	--	--	02/06/09 13:40	
1,1-Dichloroethene	"	41.1	---	0.200	"	"	--	"	103%	"	--	--	"	
Trichloroethene	"	39.1	---	0.200	"	"	--	"	97.8%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 97.4%</i>		<i>Limits: 76-138%</i>										02/06/09 13:40
<i>Toluene-d8</i>		<i>100%</i>		<i>80-120%</i>										"
<i>4-BFB</i>		<i>98.1%</i>		<i>80-120%</i>										"

LCS Dup (9B06009-BS1)														
Extracted: 02/06/09 13:00														
Chlorobenzene	EPA 8260B	37.9	---	0.200	ug/l	1x	--	40.0	94.8%	(80-120)	1.26%	(20)	02/06/09 14:09	
1,1-Dichloroethene	"	41.7	---	0.200	"	"	--	"	104%	"	1.47%	"	"	
Trichloroethene	"	39.0	---	0.200	"	"	--	"	97.5%	"	0.282%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 95.1%</i>		<i>Limits: 76-138%</i>										02/06/09 14:09
<i>Toluene-d8</i>		<i>97.8%</i>		<i>80-120%</i>										"
<i>4-BFB</i>		<i>99.0%</i>		<i>80-120%</i>										"

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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Dalton, Olmsted and Fuglevand

6034 N Star Rd.
Ferndale, WA 98248

Project Name: **American Linen**
Project Number: SUM-005
Project Manager: Matthew Dalton

Report Created:
02/11/09 14:04

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
EPA 8260B	Water	X	X
NWTPH-Gx/8021B	Water		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC).

TestAmerica Seattle



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Dalton, Olmsted and Fuglevand

6034 N Star Rd.
Ferndale, WA 98248

Project Name: **American Linen**
Project Number: SUM-005
Project Manager: Matthew Dalton

Report Created:
02/11/09 14:04

Notes and Definitions

Report Specific Notes:

- B - Analyte was detected in the associated Method Blank.
- B1 - Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.
- C - Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- QP - Hydrocarbon result partly due to individual peak(s) in quantitation range.
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

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

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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TAT: 10

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:
(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: 354

Date: 1/30

Date: 1/30/09

Date: 1/30/09

Work Order No. BSA0257

Time: 15:15

Time: 1652

Time: 1850

Client: _____

Initials: ML

Initials: FL

Initials: PTJ

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler

Ship Container

Sign By

Bubble Bags

Styrofoam

Box

On Bottles

Date

Foam Packs

None/Other _____

None

None/Other Voac box

Refrigerant:

Received Via: Bill#

Gel Ice Pack _____

Fed Ex Client

Loose Ice _____

UPS TA Courier

None/Other _____

DHL Mid Valley

Senvoy TDP

GS Other _____

Cooler Temperature (IR): 4.2 °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)

Temperature Blank? _____ °C or NA

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? Y or N _____

Metals Preserved? Y or N or NA

Provided by TA? Y or N _____

Client QAPP Preserved? Y or N or NA

Correct Type? Y or N _____

Adequate Volume? Y or N _____

#Containers match COC? Y or N _____

Water VOAs: Headspace? Y or N or NA _____

IDs/time/date match COC? Y or N _____

Comments: _____

Hold Times in hold? Y or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSA 0257**

CLIENT: **WEDON BLANDED & FUELS/AMV**

INVOICE TO: **DOF WIKLAND**

REPORT TO: **HART BRADY/DOF COOPER**

ADDRESS: **DOF HEADQUARTERS**

PHONE: _____ FAX: _____

PO. NUMBER: _____

PROJECT NAME: **AMERICAN LINK**

PRESERVATIVE: _____

PROJECT NUMBER: **SUM-005**

REQUESTED ANALYSES: _____

SAMPLED BY: **DG COOPER**

TURNAROUND REQUEST: _____

CLIENT SAMPLE IDENTIFICATION

MATRIX (W, S, O)

* Turnaround Request less than standard may incur Rush Charges.

OTHER Specify: _____

NO	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	FIRM	REL		DATE	FIRM	RECEIVED BY	DATE	FIRM	RECEIVED BY	DATE	FIRM	TA WO ID
				REL	REL									
1	R-MU1	1/14/09	1400	X	X	1/30/09	W	6						-01
2	R-MU2	↓	1400	X	X	1/30/09	W	6						-02
3	R-MU-3	↓	1500	X	X	1/30/09	W	6						-03
4	R-MU5	1/30/09	1100	X	X	1/30/09	W	6						-04
5	R-MU6	↓	0900	X	X	1/30/09	W	6						-05
6	G-MU1	1/29/09	1300	X	X	1/30/09	W	6						-06
7	G-MU2	↓	1200	X	X	1/30/09	W	6						-07
8	G-MU3	1/30/09	0800	X	X	1/30/09	W	6						-08
9	GB-B	↓	1200	X	X	1/30/09	W	6						-09
10	BB-AA	↓	1300	X	X	1/30/09	W	6						-10

RELEASED BY: **DOF COOPER** FIRM: **DOF** DATE: **1/30/09** TIME: **1515**

RECEIVED BY: **DOF WIKLAND** FIRM: **WIKLAND** DATE: **1/30/09** TIME: **1515**

PRINT NAME: _____ DATE: _____

PRINT NAME: _____ DATE: _____

ADDITIONAL REMARKS: _____

TEMP: **47** PAGE: **1** OF **1**

TAL-1000(0108)