CDM

December 2009 Groundwater Monitoring
LeatherCare, Inc.
901/921 Elliott Avenue West
Seattle, Washington
VCP # NW1805

May 18, 2010

Prepared For:

LeatherCare, Inc.
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Prepared By:

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A Report Prepared For:
LeatherCare, Inc.
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DECEMBER 2009 GROUNDWATER MONITORING
LEATHERCARE, INC
901/921 ELLIOTT AVENUE W
SEATTLE, WASHINGTON
VCP #NW1805

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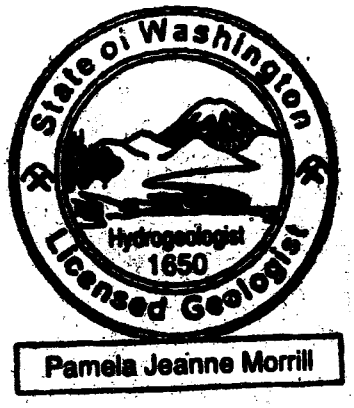

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CDM Project No. 56498-68247

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Section 1
Introduction

1.1 General

This report presents the results of the fourteenth round (December 2009) of ongoing groundwater monitoring for the LeatherCare, Inc. site located at 901 & 921 Elliott Avenue West in Seattle, Washington (**Figure 1**). Camp Dresser & McKee Inc. (CDM) is conducting this work on behalf of LeatherCare, Inc. (LeatherCare) in accordance with the Master Environmental Services Agreement dated March 18, 2007 between LeatherCare and CDM, and CDM's proposal dated September 12, 2008. Site work is being conducted under the Washington State Department of Ecology (Ecology) Voluntary Cleanup Program (VCP). The VCP site number is NW1805.

1.2 Background

LeatherCare is a large, industrial dry cleaning facility that has occupied this location since 1985. LeatherCare initially used tetrachloroethene (PCE) as a dry cleaning solvent. PCE use was discontinued in phases beginning in March 2000. The replacement of PCE dry cleaning machines was completed in October 2005.

In July 2006, CDM completed an assessment of volatile organic compounds (VOCs) and petroleum hydrocarbons throughout the LeatherCare parcel (LC parcel), an adjacent parcel referred to as the GTP parcel to the northwest (also owned by Mr. Ritt), West Roy Street to the southwest, and the former Darigold property (also formerly referred to as WestFarm Foods) north and central parking lots. (CDM, 2006). In March 2009, CDM also completed an offsite investigation on the Burlington Northern Santa Fe (BNSF) railroad property to the west (CDM, 2009).

The Darigold property is currently owned by Elliott Holding Company, Inc. (Elliott Holding) and has been redeveloped. The two Ritt-owned parcels and W Roy Street are collectively referred to as the "Subject Property." **Figure 2** shows the layout of the Subject Property and the former layout of the former Darigold property (prior to redevelopment). These two areas and the adjacent BNSF railroad property are collectively referred to as the "Investigation Area".

The chlorinated volatile organic compounds (cVOCs) PCE and/or its degradation products were identified in groundwater in areas of the Subject Property at relatively low concentrations. PCE concentrations detected in soil and groundwater at the Subject Property are not indicative of the presence of free phase product.

Elliott Holding began redevelopment of the Darigold property in 2007. According to a Cleanup Action Plan completed by ENTRIX, Inc., the development includes two 4-story commercial buildings, a plaza, and an underground parking structure beneath the entire complex. The parking level foundation is as much as 20 feet below former grade. The excavation support system that was utilized to enable below grade construction is the Cutter Soil Mixing (CSM) method. The CSM wall, shown on

Figure 2, entirely encircles the Elliott Holding property and keys into the underlying glacial till at depths of 40 to 57 feet below ground surface.

CDM's investigations show that biological degradation processes are actively occurring to reduce cVOC concentrations. Field monitoring and chemical data for soil and groundwater, along with historical groundwater chemical data collected throughout the Investigation Area, show that all degradation products of PCE are present and the chemistry necessary for biological degradation is present at the site. Biological testing has shown that the bacterium *Dehalococcoides ethenogenes*, which is known to reductively dechlorinate vinyl chloride to ethene, is present at the site.

1.3 Purpose and Scope of Work

The purpose of continued groundwater monitoring over time is to establish the natural variation in contaminant concentrations (i.e., seasonal), to confirm that the plume is continuing to collapse, to characterize degradation processes, and to empirically demonstrate the biological degradation of cVOCs.

During the first three groundwater monitoring rounds, CDM collected samples from monitoring wells in the Darigold north parking lot. After that, these wells were dropped from the monitoring schedule due to imminent construction activities and limitations on access. ENTRIX continued to sample these wells for a period of time, but it is presumed that groundwater monitoring ceased on the Darigold site by December 2007 when construction began.

The scope of work completed during the December 2009 event consisted of the following:

- Conducted one complete round of water level measurements for all existing monitoring wells throughout the Subject Property.
- Purged each groundwater monitoring well on the Subject Property and collected data on field measured parameters.
- Collected groundwater samples and submitted them for laboratory analysis of selected cVOCs and dissolved gasses (ethane, ethene, and methane).
- Evaluated the data and prepared this report documenting our findings and conclusions.

Section 2
Field Investigation Methods

2.1 Groundwater Sampling

Groundwater monitoring was conducted on December 16 and 17, 2009. Monitored wells included GT1 through GT3, LC1 through LC3, LC4R, LC5R, and LC6. This section describes the field and analytical methods employed.

2.1.1 Water Levels

Water levels were measured in all monitoring wells throughout the Subject Property between 7:53 am and 8:28 am on December 16, 2009. Water levels were measured using a SINCO electronic sounder.

2.1.2 Water Sampling

Each monitoring well/piezometer was purged prior to collecting groundwater samples using dedicated stainless steel bladder pumps with Teflon lined tubing. Each well was purged at a rate of approximately 100 to 200 milliliters per minute (ml/min). Physical parameters were monitored during purging using a YSI meter. In order to minimize contact with ambient air, the YSI meter was secured in a flow-through cell that was situated after the pump and before the purge water tubing discharge. Parameters measured during purging included: pH, temperature, specific conductance (SC), oxidation-reduction potential (ORP), turbidity, and dissolved oxygen (DO). The wells were purged until the physical parameter measurements stabilized.

The samples were collected by disconnecting the tubing from the flow-through cell and directly discharging the water into laboratory-supplied containers appropriate for the analyses to be conducted. Collected samples were stored in chilled coolers and delivered under chain-of-custody protocol to the analytical laboratories described in Section 2.1.3.

2.1.3 Laboratory Analysis

CDM submitted the groundwater samples to Analytical Resources Inc. (ARI) in Tukwila, Washington and MicroSeeps in Pittsburg, Pennsylvania.

ARI conducted analyses for cVOCs by EPA Method 8260B (using a 10-milliliter purge volume for groundwater in order to reach detection limits of 0.2 micrograms per liter [µg/L]). Specifically, the analytes included PCE, trichloroethene (TCE), *cis*-1,2-dichloroethene (*c*-1,2-DCE) , *trans*-1,2-dichloroethene (*t*-1,2-DCE), 1,1-dichloroethene (1,1-DCE), and vinyl chloride (VC).

MicroSeeps conducted analyses of the dissolved gasses methane, ethane, and ethene by method AM20GAX on all of the groundwater samples.

Section 3
Findings and Discussion

3.1 Water Levels

Depths to water and water table elevations are summarized on **Table 1.** During the December monitoring, water levels ranged between 1.00 and 4.99 feet below the top of the well casings (the well casings start approximately 3 to 6 inches below ground surface). Water levels rose in all wells between the September 2009 and December 2009 sampling events, differing by between 0.78 to 1.12 feet. These changes are consistent with fluctuations due to the amount of seasonal precipitation. The wells with the highest fluctuation are LC4R and LC5R, located on the south side of W Roy Street.

Figure 3 shows the potentiometric surface on December 16. There continues to be a northerly gradient under the LC and GTP parcels consistent with prior sampling events. Interestingly, while the very flat, slight westerly gradient still appears in the southern portion of the LC Parcel and northern portion of W Roy Street, there appears to be groundwater recharge occurring along the southern portion of W Roy Street that is causing the gradient to be northerly, consistent with that seen on the LC and GT parcels.

3.2 Field Monitored Parameters

A discussion of field measured parameters is provided below and the data are summarized in **Table 2.**

Temperature: As expected, temperatures in the groundwater decreased between the September and December sampling events. Between the September and December sampling events, the temperatures decreased 5.1 Celsius (°C) to as much as 10.2 °C in the individual wells. These temperatures are consistent with the cooler winter temperatures.

Dissolved Oxygen: Dissolved oxygen (DO) concentrations ranged from approximately 0.17 to 2.33 milligrams per liter (mg/L). DO concentrations less than 0.5 mg/L are indicative of anoxic conditions, which are conducive for reductive dechlorination. DO concentrations were less than 0.5 mg/L at GT1, LC1, LC4R, LC5R, and LC6. LC2 contained the highest DO concentration (2.33 mg/L) and GT2 the next highest at 1.58 mg/L. LC2 has consistently shown DO concentrations over 1 mg/L during the winter/early spring months, indicating a seasonal influence. GT2 showed similarly high DO concentrations during most of 2008. DO concentrations over 1 mg/L may indicate transitory conditions of a fresh flush of water into the system.

The less oxidized chlorinated compounds (e.g., *c*-1,2-DCE and VC) can be used as a primary substrate in biologically mediated oxidation reduction reactions and aerobic conditions appear to be optimal for VC degradation. This is demonstrated by the fact

that the largest overall decline in VC concentrations has been observed at GT2, and at LC2 vinyl chloride concentrations have been 0.2 µg/L or less during every December sampling round. Alternating oxic and anoxic conditions appear to have optimized the degradation of PCE.

Oxidation-Reduction Potential: The oxidation-reduction potential (ORP) meter was not functioning correctly at GT1-GT3 and LC1. At the remaining wells ORP values ranged between 15 and -96 millivolts (mV). ORP values increased by 34 to 100 mV, which is consistent with the higher DO readings. Low ORP values are similarly conducive for reductive dechlorination.

Specific Conductance: Specific Conductance values ranged between 299 and 1,011 microsiemens per centimeter (µS/cm). Overall, the data are consistent with historical site data.

pH: The pH values ranged between approximately 7.16 and 7.77 standard units for all wells, which are consistent with previous rounds.

Ferrous Iron: Ferrous iron concentrations were all low, ranging between 0 and 0.6 parts per million (ppm). No specific increasing or decreasing trends were evident. VC is biodegradable by iron-reducing bacteria and the presence of ferrous iron is a sign of the presence of iron reducing bacteria.

Turbidity: Turbidity values were less than 10 nephalometric turbidity units (NTU) for all of the wells at the time of sampling.

3.3 Groundwater Analytical Results

Copies of the analytical reports are included in **Appendix A**. Current and historical groundwater analytical data, as well as field measured and general groundwater chemistry data, are summarized in **Table 2**. Contaminant concentrations are compared against Model Toxics Control Act (MTCA) Method A groundwater cleanup levels. In the absence of Method A cleanup levels, contaminant concentrations are compared against Method B cleanup levels as obtained from Ecology's Cleanup Levels and Risk Calculations (CLARC) database.

3.3.1 PCE

PCE was detected in four of the seven groundwater samples. PCE concentrations ranged between 0.4 and 3.8 micrograms per liter (µg/L). None of these concentrations exceed the Method A cleanup level of 5 µg/L, and in fact, this is the second quarter in a row that PCE concentrations have not exceeded the Method A cleanup level at any location.

3.3.2 TCE

TCE was detected in all groundwater samples except GT1. Concentrations ranged between 0.3 and 2.5 µg/L. All detected concentrations were below the MTCA

Method A cleanup level of 5 µg/L and have been throughout 2009 (four consecutive quarters).

3.3.3 *c*-1,2-DCE, *t*-1,2-DCE, 1,1-DCE

Of these degradation products of PCE, *c*-1,2-DCE was detected in all nine wells during both sampling events, *t*-1,2-DCE in three wells, and 1,1-DCE was not detected in any sample. Concentrations ranged between 0.2 and 6.4 µg/L when detected. The concentrations of *c*-1,2-DCE and *t*-1,2-DCE did not and have never exceeded their Method B cleanup levels (80 and 160 µg/L, respectively) in any samples.

3.3.4 Vinyl Chloride

Vinyl chloride was detected in seven of the nine monitoring wells. VC concentrations ranged between 0.2 and 3.7 µg/L when detected. VC continues to be below detection limits in the most downgradient well on the GTP parcel (GT1). VC concentrations were dramatically lower in nearly all wells as compared to the September 2009 data. Compared to the September sampling round, VC concentrations decreased in GT2, GT3, LC1, LC2, LC3, LC4R, and LC5R by 46%, 47%, 75%, 83%, 50%, 14%, and 42%, respectively.

3.3.5 Dissolved Gasses

Methane was detected in every groundwater sample ranging between 53 and 5,400 µg/L. The presence of methane is indicative of methanogenesis, which is an indicator for reductive dechlorination. Ethene, an end product of the reductive dechlorination of PCE, was detected in five of the groundwater samples. Ethene concentrations ranged between 0.026 and 0.90 µg/L . Ethane was detected in all nine of the monitoring wells at concentrations ranging between 0.079 and 2.7 0 µg/L.

Methane/ethane/ethene concentrations at LC4R and LC5R were abnormally high. Because of this, CDM had the laboratory rerun the analyses using the additional sample vials and the second set of data was comparable to the first. At this time, the data are anomalous.

3.4 cVOC Trends

CDM applied the Mann-Kendall statistical test to the cVOCs on the Subject Property. The Mann-Kendall test indicates the presence or absence of a statistically significant increasing or decreasing trend in concentrations at a monitoring point. The results of the Mann-Kendall trend analysis are summarized on **Table 3**.

Decreasing trends are noted for VC concentrations at all of the wells. The probability values for a decreasing trend for VC at five of the eight wells — GT2, LC1, LC2, LC3, and LC6 (GT1 is not counted since VC is not detected) — are significant (i.e., $p \leq 0.1$). Previously, this trend was significant (i.e., $p \leq 0.1$) at four of the wells.

Decreasing trends for *c*-1,2-DCE and *t*-1,2-DCE, are also noted at all wells. The probability values for these decreasing trends are significant for all except *c*-1,2-DCE

at LC5. A build-up of DCE concentrations is often observed at sites where conditions are not suitable for the natural degradation of this particular compound and this shows that this condition is not occurring.

The Mann-Kendall test loses statistical robustness for PCE and TCE due to the lack of detections and overall low concentrations (i.e., no statistical trend for PCE can be calculated at five of the nine monitoring wells due to the lack of detections). Decreasing trends are generally noted; however, increasing trends are indicated for PCE at LC1 and LC3, but these wells do not exceed the Method A cleanup level. For TCE an increasing trend is indicated at LC5 and LC6, but these wells do not exceed the Method A cleanup level.

Statistical models aside, PCE concentrations have not exceeded the Method A cleanup in any well over the past two quarters. More specifically, PCE concentrations have not exceeded the Method A cleanup level in LC1 the past three consecutive quarters and in LC3 during the past two consecutive quarters. PCE concentrations have not exceeded the Method A cleanup level in the remaining wells for a period of 2 years or longer.

TCE concentrations have not exceeded the Method A cleanup level in any well for the past year. Considering that the maximum TCE concentration at LC5 has been 1.5 µg/L and in LC6 is 0.3 µg/L, there is negligible concern that these "increasing trends" on the Mann Kendal test are valid or that the cleanup level will ever be exceeded.

Section 4
Conclusions and Recommendations

The data continue to show that PCE is being naturally attenuated via biological degradation and that monitored natural attenuation (MNA) is appropriate for this site. This conclusion is substantiated by the following:

- All of the degradation products of PCE from TCE through ethene are present at the site.
- The concentrations of PCE and its degradation products are not particularly high and are far less than at most PCE contaminated sites where active remediation would have already been stopped and switched to MNA.
- PCE concentrations have not exceeded the Method A cleanup level at any monitoring location for the past two quarters.
- TCE concentrations have not exceeded the Method A cleanup level at any monitoring location over the past year (4 quarters).
- The DCE compounds have never exceeded their respective Method B cleanup levels at any monitoring location.
- VC, the last degradation product of PCE before it is degraded to non toxic ethene, is the only degradation product that currently exceeds the Method A cleanup level. Even so, concentrations of this compound are relatively low.
- Continued monitoring empirically demonstrates that VC concentrations are declining throughout the site.

Given the low cVOC concentrations and continuing indications that natural attenuation is occurring, cVOCs are expected to continue to degrade fully and the plume will continue to collapse. Based on these findings, CDM continues to recommend implementation of MNA for this site.

Section 5
References

CDM. 2006. Contamination Assessment, LeatherCare, Inc. 901/921 Elliott Avenue, Seattle, Washington. CDM Project No. 38057-47522. July 25.

CDM. 2009. Off-Site Investigation Report, LeatherCare, Inc. 901/921 Elliott Avenue West, Seattle, Washington. VCP #NW1805. CDM Project No. 56498-68247. March 31.

ENTRIX, Inc. 2007. Cleanup Action Plan, Darigold Facility - VCP NW 1267, 635 Elliott Avenue West, Seattle, WA. Prepared for Elliott Holding Company, L.L.C. Seattle, WA. July 2007.

Distribution

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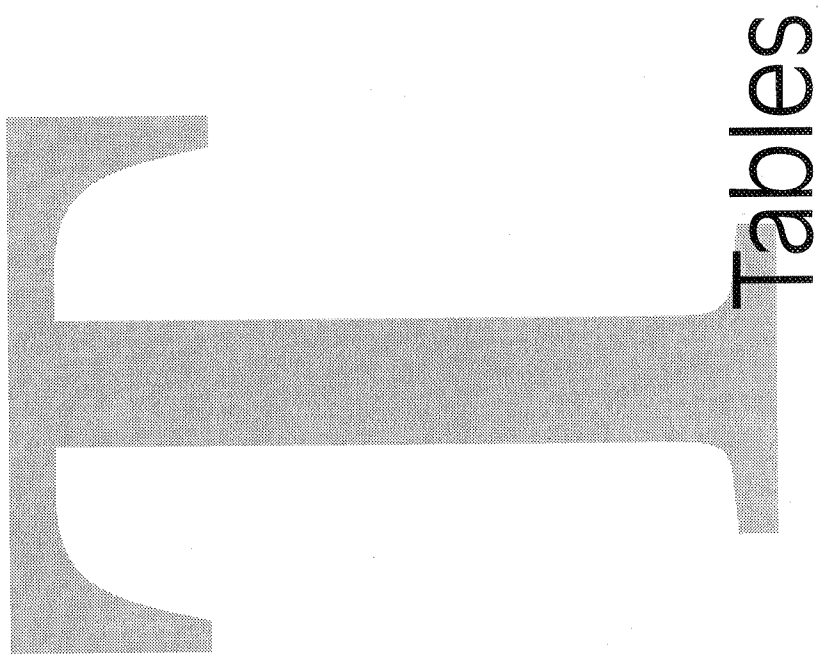
Tables

Table 1
Groundwater Elevation Data
LeatherCare, Inc.
Seattle, Washington

Monitoring Well I.D.	Date Measured	Time (hours)	Top of Casing Elevation [a] (feet)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (feet)
GT1	05/10/06	0912	12.74	1.84	10.90
	09/05/06	0955		2.46	10.28
	02/12/07	0918		1.69	11.05
	06/20/07	0857		2.13	10.61
	09/19/07	0904		2.46	10.28
	12/19/07	0940		1.20	11.54
	03/19/08	0908		1.80	10.94
	06/18/08	0825		1.95	10.79
	09/24/08	1005		2.22	10.52
	12/29/08	0758		1.49	11.25
	02/11/09	--		--	--
	03/25/09	0837		1.58	11.16
	06/29/09	0757		1.97	10.77
	09/09/09	1012		2.39	10.35
	12/16/09	0828		1.59	11.15
GT2	05/10/06	0910	12.45	1.23	11.22
	09/05/06	1000		1.99	10.46
	02/12/07	0920		1.09	11.36
	06/20/07	0853		2.56	9.89 NU
	09/19/07	0911		1.94	10.51
	12/19/07	0936		0.67	11.78
	03/19/08	0904		1.18	11.27
	06/18/08	0822		1.35	11.10
	09/24/08	1015		1.63	10.82
	12/29/08	0802		0.84	11.61
	02/11/09	--		--	--
	03/25/09	0850		0.95	11.50
	06/29/09	0759		1.35	11.10
	09/09/09	1010		1.78	10.67
	12/16/09	0823		1.00	11.45
GT3	05/10/06	0909	13.36	2.18	11.18
	09/05/06	1004		2.91	10.45
	02/12/07	0922		1.95	11.41
	06/20/07	0851		2.49	10.87
	09/19/07	0907		2.94	10.42
	12/19/07	0916		1.64	11.72
	03/19/08	0914		2.12	11.24

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LeatherCare, Inc.
Seattle, Washington

Monitoring Well I.D.	Date Measured	Time (hours)	Top of Casing Elevation [a] (feet)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (feet)
GT3	06/18/08	0820		2.21	11.15
(cont.)	09/24/08	1020		2.54	10.82
	12/29/08	0804		1.80	11.56
	02/11/09	--		--	--
	03/25/09	0820		1.87	11.49
	06/29/09	0803		2.24	11.12
	09/09/09	1006		2.79	10.57
	12/16/09	0819		1.89	11.47
LC1	05/10/06	0916	13.17	1.57	11.60
	09/05/06	1010		2.43	10.74
	02/12/07	0941		1.40	11.77
	06/20/07	0844		1.99	11.18
	09/19/07	0904		2.46	10.71
	12/19/07	0954		1.01	12.16
	03/19/08	0857		1.54	11.63
	06/18/08	0836		1.55	11.62
	09/24/08	1034		1.89	11.28
	12/29/08	0809		1.20	11.97
	02/11/09	--		--	--
	03/25/09	0811		1.28	11.89
	06/29/09	0753		1.63	11.54
	09/09/09	0956		2.10	11.07
	12/16/09	0810		1.27	11.90
LC2	05/10/06	0919	13.41	2.01	11.40
	09/05/06	1012		2.74	10.67
	02/12/07	0943		1.80	11.61
	06/20/07			2.35	11.06
	09/19/07	0901		2.75	10.66
	12/19/07	0948		1.23	12.18
	03/19/08	0859		1.90	11.51
	06/18/08	0832		2.05	11.36
	09/24/08	1030		2.30	11.11
	12/29/08	0812		1.59	11.82
	02/11/09	--		--	--
	03/25/09	0807		1.87	11.54
	06/29/09	0750		2.13	11.28
	09/09/09	1001		2.57	10.84
	12/16/09	0813		1.66	11.75

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LeatherCare, Inc.
Seattle, Washington

Monitoring Well I.D.	Date Measured	Time (hours)	Top of Casing Elevation [a] (feet)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (feet)
LC3	05/10/06	0925	14.16	2.56	11.60
	09/05/06	1014		3.41	10.75
	02/12/07			2.37	11.79
	06/20/07	0837		2.98	11.18
	09/19/07	0853		3.48	10.68
	12/19/07	0906		1.99	12.17
	03/19/08	0847		2.55	11.61
	06/18/08	0839		2.58	11.58
	09/24/08	1038		2.84	11.32
	12/29/08	0815		2.21	11.95
	02/11/09	--		--	--
	03/25/09	0802		2.28	11.88
	06/29/09	0742		2.67	11.49
	09/09/09	0950		3.14	11.02
	12/16/09	0804		2.30	11.86
LC4	05/10/06	0921	14.72	3.16	11.56
	09/05/06	1026		3.99	10.73
	02/12/07			2.93	11.79
	06/20/07	0832		3.59	11.13
	09/19/07	0845		4.09	10.63
	12/19/07	0856		2.48	12.24
	03/19/08 [b]	--		--	--
	12/29/08	--		--	--
	02/11/09	--		--	--
LC4R	03/25/09	0957	14.77	3.03	11.74
	06/29/09	0840		3.45	11.32
	09/09/09	1050		3.85	10.92
	12/16/09	0753		2.73	12.04
LC5	05/10/06	0922	14.13	2.57	11.56
	09/05/06	1030		3.46	10.67
	02/12/07			2.37	11.76
	06/20/07	0834		2.97	11.16
	09/19/07	0858		3.48	10.65
	12/19/07	0901		1.89	12.24
	03/19/08	1114		2.49	11.64
	06/18/08 [b]	--		--	--
	12/29/08	--		--	--
	02/11/09	--		--	--

Table 1
Groundwater Elevation Data
LeatherCare, Inc.
Seattle, Washington

Monitoring Well I.D.	Date Measured	Time (hours)	Top of Casing Elevation [a] (feet)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (feet)
LC5R	03/25/09	1125	14.34	2.46	11.88
	06/29/09	1000		2.93	11.41
	09/09/09	1230		3.39	10.95
	12/16/09	0758		2.31	12.03
LC6	05/10/06	0928	16.85	5.26	11.59
	09/05/06	1022		6.10	10.75
	02/12/07	0933		5.03	11.82
	06/20/07	0839		5.68	11.17
	09/19/07	0850		6.19	10.66
	12/19/07	0911		4.67	12.18
	03/19/08	0852		5.24	11.61
	06/18/08	0844		5.22	11.63
	09/24/08	1042		5.55	11.30
	12/29/08	0819		4.89	11.96
	02/11/09	--		--	--
	03/25/09	0759		4.93	11.92
	06/29/09	0742		5.33	11.52
	09/09/09	0952		5.78	11.07
	12/16/09	0801		4.99	11.86
LC7	02/11/09	0912	15.34	7.64	7.70
LC8	02/11/09	0910	15.50	7.10	8.40
LC9	02/11/09	0909	15.27	6.67	8.60

Notes:

a) Top of casing elevations in feet relative to a brass monument located at the south corner of Elliot Avenue W. and W. Roy Street, marked as Elevation 19.78 feet. No verifiable City of Seattle datum could be found in the site area.
b) Well believed to have been destroyed by construction on adjacent property.
ft bgs - feet below ground surface.
-- not measured.
NU - Data not used; measurement believed to have been misread.
TOC - top of casing.

Table 2
Groundwater Analytical Summary - LeatherCare, Greg Thompson Productions, and W. Roy Street Properties
LeatherCare, Inc.
Seattle, Washington

Analyte	Date Sampled	Method A Cleanup Levels [a]	Monitoring Well I.D. [b]													
			GT1	GT2	GT3	LC1	LC2	LC3	LC4 [i]/LC4R	LC5 [i]/LC5R	LC6	LC7	LC8	LC9	Field Blank	Trip Blank
Field-Measured Parameters																
pH	05/06	N/A	7.23	7.03	7.10	7.05	7.43	6.95	7.18	6.95	6.99	--	--	--	--	--
	09/06		7.33	7.19	7.13	7.19	7.26	7.07	7.03	7.05	7.07	--	--	--	--	--
	02/07		6.77	6.64	6.57	6.46	6.42	6.62	6.06	6.43	6.70	--	--	--	--	--
	06/07		7.15	7.01	6.95	6.99	7.23	7.00	6.97	6.91	6.90	--	--	--	--	--
	09/07		7.11	7.00	6.88	7.00	7.16	6.92	6.83	6.88	6.91	--	--	--	--	--
	12/07		7.47	7.42	7.30	6.50	7.36	7.45	6.42	6.59	7.02	--	--	--	--	--
	03/08		7.75	7.77	7.51	7.67	8.04	8.36	--	8.42	8.19	--	--	--	--	--
	06/08		7.23	6.89	6.97	**	6.96	6.70	--	--	6.96	--	--	--	--	--
	09/08		**	6.59	6.55	6.62	6.72	6.58	--	--	6.66	--	--	--	--	--
	12/08		7.06	6.75	6.79	6.98	7.54	6.82	--	--	6.95	--	--	--	--	--
	02/09		--	--	--	--	--	--	--	--	--	**	**	**	--	--
	03/09		7.26	6.96	6.92	7.07	7.13	6.99	6.96	6.97	7.07	--	--	--	--	--
	06/09		7.44	7.18	7.16	7.27	7.07	7.18	7.37	7.25	7.19	--	--	--	--	--
	09/09		7.37	7.11	7.03	7.06	7.19	7.05	7.12	7.08	7.07	--	--	--	--	--
	12/09		7.61	7.42	7.33	7.20	7.73	7.16	7.77	7.52	7.27	--	--	--	--	--
ORP [d] (mV)	05/06	N/A	-33	-27	-56	-72	-152	-33	-50	-82	-50	--	--	--	--	--
	09/06		-119	-97	-68	-113	-90	-71	-50	-107	-78	--	--	--	--	--
	02/07		-33	-2	17	-60	-32	56	80	-30	31	--	--	--	--	--
	06/07		-211	-171	-38	-61	-162	-183	-116	-214	-111	--	--	--	--	--
	09/07		-96	-95	-71	-125	-132	-83	-75	-126	-95	--	--	--	--	--
	12/07		**	**	**	**	**	**	**	**	**	--	--	--	--	--
	03/08		-54	-27	10	-28	-30	-59	--	-107	-43	--	--	--	--	--
	06/08		-57	-49	142	**	112	-17	--	--	-17	--	--	--	--	--
	09/08		--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/08		-52	-16	43	-22	40	-44	--	--	0.7	--	--	--	--	--
	02/09		--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/09		**	**	**	**	**	**	**	**	**	--	--	--	--	--
	06/09		-90	-78	13	-57	-78	-42	-92	-80	-50	--	--	--	--	--
	09/09		-148	-140	-73	-188	-115	-89	-130	-136	-103	--	--	--	--	--
	12/09		**	**	**	**	15	6	-96	-60	-2	--	--	--	--	--
Temperature (°C)	05/06	N/A	16.0	16.2	15.1	18.3	18.2	15.9	14.1	13.8	14.2	--	--	--	--	--
	09/06		20.0	21.3	20.8	23.1	22.6	22.6	22.2	22.5	20.6	--	--	--	--	--
	02/07		13.6	9.3	10.0	16.8	16.2	11.4	9.7	10.0	11.8	--	--	--	--	--
	06/07		17.8	20.2	18.7	20.7	20.0	19.3	18.6	18.0	17.6	--	--	--	--	--
	09/07		19.3	19.4	19.2	22.3	21.7	22.2	20.2	20.4	20.0	--	--	--	--	--
	12/07		11.9	8.8	9.3	17.3	15.5	11.6	12.3	11.4	12.6	--	--	--	--	--
	03/08		13.0	10.3	9.5	15.9	16.3	11.8	--	11.3	12.4	--	--	--	--	--
	06/08		16.1	17.0	17.2	18.3	19.8	16.4	--	--	16.3	--	--	--	--	--
	09/08		18.7	17.9	17.8	22.1	21.8	19.6	--	--	17.6	--	--	--	--	--
	12/08		11.2	7.6	6.9	14.6	15.0	9.8	--	--	11.5	--	--	--	--	--
	02/09		--	--	--	--	--	--	--	--	--	13.0	11.0	9.7	--	--
	03/09		13.0	9.0	9.0	14.6	16.5	10.9	8.7	9.0	10.5	--	--	--	--	--
	06/09		17.9	21.5	19.2	20.8	20.5	19.9	16.7	17.3	17.3	--	--	--	--	--
	09/09		19.3	18.4	19.0	22.2	21.4	20.1	17.8	18.2	19.3	--	--	--	--	--
	12/09		13.5	7.9	9.0	15.5	16.3	10.8	9.5	9.3	11.3	--	--	--	--	--
Specific Conductivity (µS/cm)	05/06	N/A	1,243	1,283	1,264	1,190	1,183	1,345	1,360	1,322	1,281	--	--	--	--	--
	09/06		811	856	864	866	736	870	853	856	856	--	--	--	--	--
	02/07		831	971	915	951	519	1,020	496	795	948	--	--	--	--	--
	06/07		786	813	833	836	676	820	808	804	842	--	--	--	--	--
	09/07		808	844	879	873	622	841	737	824	828	--	--	--	--	--
	12/07		732	706	829	1,017	181	778	553	543	920	--	--	--	--	--
	03/08		637	915	926	928	518	902	--	114 [j]	--	--	--	--	--	--
	06/08		998	1,701	1,471	1,561	1,490	1,493	--	--	1,363	--	--	--	--	--
	09/08		774	1,236	798	1,318	963	1,269	--	--	1,353	--	--	--	--	--
	12/08		**	**	**	**	671	**	--	--	**	--	--	--	--	--
	02/09		--	--	--	--	--	--	--	--	--	836	1,090	1,828	--	--

Table 2
Groundwater Analytical Summary - LeatherCare, Greg Thompson Productions, and W. Roy Street Properties
LeatherCare, Inc.
Seattle, Washington

Analyte	Date Sampled	Method A Cleanup Levels [a]	Monitoring Well I.D. [b]													
			GT1	GT2	GT3	LC1	LC2	LC3	LC4 [l]/LC4R	LC5 [l]/LC5R	LC6	LC7	LC8	LC9	Field Blank	Trip Blank
Specific Conductivity (µS/cm)	03/09		587	861	824	864	648	825	**	**	**	--	--	--	--	--
(cont.)	06/09		748	1,006	991	993	875	995	856	914	1,007	--	--	--	--	--
	09/09		636	947	944	966	629	986	976	997	1,002	--	--	--	--	--
	12/09		584	872	857	1,011	299	939	487	664	854	--	--	--	--	--
Dissolved Oxygen (mg/L)	05/06	N/A	0.70	0.34	0.70	0.24	0.40	0.42	0.43	0.33	0.39	--	--	--	--	--
	09/06		0.15	0.17	0.14	0.20	0.35	0.23	0.19	0.09	0.09	--	--	--	--	--
	02/07		0.31 [g]	0.13 [g]	-- [g]	-- [g]	-- [g]	-- [g]	-- [g]	-- [g]	-- [g]	--	--	--	--	--
	06/07		0.19	0.22	0.24	0.34	0.91	0.35	0.47	0.39	1.13	--	--	--	--	--
	09/07		0.41	0.34	0.27	0.24	0.25	0.58	0.78	0.55	0.58	--	--	--	--	--
	12/07		0.33	0.47	0.17	0.72	3.05	1.44	1.00	0.29	0.28	--	--	--	--	--
	03/08		0.34	0.34	1.28	0.31	1.12	0.44	--	0.37	0.34	--	--	--	--	--
	06/08		0.20	1.09	0.71	0.29	0.35	0.71	--	--	0.28	--	--	--	--	--
	09/08		1.32	1.12	1.06	0.08	0.84	1.36	--	--	1.34	--	--	--	--	--
	12/08		0.90	2.11	2.17	0.61	2.47	1.60	--	--	0.87	--	--	--	--	--
	02/09		--	--	--	--	--	--	--	--	--	4.74	4.73	8.05	--	--
	03/09		0.19	0.13	0.42	0.10	0.11	0.71	0.25	0.33	0.17	--	--	--	--	--
	06/09		0.23	0.13	0.28	0.15	0.14	0.27	0.52	0.33	0.21	--	--	--	--	--
	09/09		0.42	0.20	0.37	0.22	0.21	0.31	0.35	0.36	0.29	--	--	--	--	--
	12/09		0.17	0.74	0.53	0.22	2.33	0.89	0.43	0.48	0.35	--	--	--	--	--
Turbidity (NTU)	05/06	N/A	1.76	0.83	0.66	5.76	62 [c]	1.05	1.79	2.82	2.01	--	--	--	--	--
	09/06		*	0.47	0.70	0.7	*	5.5	2.4	1.8	*	--	--	--	--	--
	02/07		3.1 [h]	0.0 [h]	>999 [h]	0.0 [h]	0.0 [h]	22.4 [h]	0.0 [h]	16.3 [h]	26 [h]	--	--	--	--	--
	06/07		0.7	1.1	2.2	0.9	1.9	2.6	1.8	0.2	3.8	--	--	--	--	--
	09/07	N/A	0.9	0.9	1.6	*	0.5	2.3	6.5	0.14	3.8	--	--	--	--	--
	12/07		--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/08		16.9	8.8	168 [k]	2.3	0.7	20.9	--	9.6	4.4	--	--	--	--	--
	06/08		0.7	1.8	34.5/227 [k]	0.5	0.0 [m]	1.1	--	--	-- [m]	--	--	--	--	--
	09/08		54.8 [h]	53.2 [h]	187 [h]	18.2 [h]	48.2 [h]	179 [h]	--	--	-- [h]	--	--	--	--	--
	12/08		2.90	39.6 [k]	10.29 [k]	0.0 [m]	0.0 [m]	-- [m]	--	--	--	--	--	--	--	--
	02/09		--	--	--	--	--	--	--	--	--	7.40	5.69	7.90	--	--
	03/09		0.0	0.0	0.0	0.0	0.0	0.2	9.3	1.5	0.0	--	--	--	--	--
	06/09		2.6	1.5	1.4	0.1	1.7	3.1	1.9	23	0.95	--	--	--	--	--
	09/09		4.2	2.1	1.3	1.2	0.93	0.87	0.98	0.92	1.1	--	--	--	--	--
	12/09		6.2	5.8	0.8	0.0	1.48	2.90	3.64	4.64	6.2	--	--	--	--	--
Ferrous Iron (ppm)	05/06	N/A	0.1	0.2	0.2	0.5	0.3	0.3	0.2	1	0.5	--	--	--	--	--
	09/06		0.3	0.2	0.6	--	0.1	0.6	0.4	1	1	--	--	--	--	--
	02/07		0.4	0.6	0.3	0.6	--	0.2	0.1	1	0.4	--	--	--	--	--
	06/07		0.3	0.4	0.2	0.5	0	0.2	0.6	0.1	0.3	--	--	--	--	--
	09/07		0.2	0.3	0.2	0.4	0.2	0.4	0.6	0.8	0.8	--	--	--	--	--
	12/07		0.1	0	0	0.6	0	0.2	0.1	0.8	0.3	--	--	--	--	--
	03/08		0.3	0.8	0.4	0.4	0.1	0.4	--	0.8	0.4	--	--	--	--	--
	06/08		0.2	1	0	0.6	0	1	--	--	0.6	--	--	--	--	--
	09/08		--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/08		0.2	0.3	0.1	0.4	0	1	--	--	0.3	--	--	--	--	--
	02/09		--	--	--	--	--	--	--	--	--	--	--	--		
	03/09		--	0.4	--	--	--	0.2	--	--	--	--	--	--	--	--
	06/09		0.4	0.6	0	0.4	0.8	0.6	0.4	0.6	0.6	--	--	--	--	--
	09/09		0	0.4	0.2	0.6	0.8	0.6	1.0	0.6	0.6	--	--	--	--	--
	12/09		0.1	0.1	0	0.6	0	0.6	0.1	0.2	0.2	--	--	--	--	--
Manganese (ppm)	06/07	N/A	0	0	0	0	0	0	0	0	0	--	--	--	--	--
Sulfide (ppm)	06/07	N/A	0	0	0	0	0	0	0	0	0	--	--	--	--	--

Table 2
Groundwater Analytical Summary - LeatherCare, Greg Thompson Productions, and W. Roy Street Properties
LeatherCare, Inc.
Seattle, Washington

Analyte	Date Sampled	Method A Cleanup Levels [a]	Monitoring Well I.D. [b] GT1	GT2	GT3	LC1	LC2	LC3	LC4 [1]/LC4R	LC5 [1]/LC5R	LC6	LC7	LC8	LC9	Field Blank	Trip Blank
General Groundwater Chemistry																
Chloride (EPA Method 325.2) (mg/L)	05/06	N/A	7.4	7.9	16.5	20.5	8.8	16.1	6.8/6.7	14.0	17.5	--	--	--	--	--
Sulfate (EPA Method 375.2) (mg/L)	05/06	N/A	62.3	64.4	77.8	88.9	52.7	69.7	39.3/39.5	39.5	54.2	--	--	--	--	--
Chemical Oxygen Demand (EPA Method 410.4) (mg/L)	05/06	N/A	6.18	5.68	9.29	12.8	12.4	7.71	10.1/6.87	10.1	12.8	--	--	--	--	--
Alkalinity (SM 2320) (mg/L CaCO3)	05/06	N/A	336	406	358	368	309	398	233/233	372	401	--	--	--	--	--
Carbonate (SM 2320) (mg/L CaCO3)	05/06	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0/<1.0	<1.0	<1.0	--	--	--	--	--
Bicarbonate (SM 2320) (mg/L CaCO3)	05/06	N/A	336	406	358	368	309	398	233/233	372	401	--	--	--	--	--
Hydroxide (SM 2320) (mg/L CaCO3)	05/06	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0/<1.0	<1.0	<1.0	--	--	--	--	--
Dehalococcoides spp. (QCPR) [c]	05/06	N/A	-	+	+	+	-	+	-/-	+	+	--	--	--	--	--
Reductive Dechlorination End Products (µg/L)																
Methane	05/06	N/A	98	140	100	110	590	33	98/87	220	77	--	--	--	--	--
	09/06	N/A	160	1,400	140/130	94	310	28	130	170	92	--	--	--	--	--
	02/07	N/A	150	510	51/50	45	710	96	88	140	150	--	--	--	--	--
	06/07	N/A	150	200	110	46	870	24	100/140	310	99	--	--	--	--	--
	09/07	N/A	130	2,100	120	86	520	100	130/130	500	28	--	--	--	--	--
	12/07	N/A	110	100	91	51	58	16	94/99	530	360	--	--	--	--	--
	03/08	N/A	170	120	76/56	33	73	23	--	160	120	--	--	--	--	--
	06/08	N/A	180	170	27	110	20	140	--	--	370	--	--	--	--	--
	09/08	N/A	150	260	73	150	260	120	--	--	370	--	--	--	--	--
	12/08	N/A	200	110	34/33	200	40	86	--	--	450	--	--	--	--	--
	02/09	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/09	N/A	150	140	34/36	240	200	86	390	330	300	--	--	--	--	--
	06/09	N/A	160	230	140/150	260	340	110	430	220	400	--	--	--	--	--
	09/09	N/A	210	170	270/270	220	480	120	390	340	610	--	--	--	--	--
	12/09	N/A	260	170	53/64	230	110	110	5,400	1,300	530	--	--	--	--	--
Ethane	05/06	N/A	<12	<12	<12	<12	<12	<12		<12	<12	--	--	--	--	--
	09/06	N/A	0.49	0.34	0.05/0.045	0.24	0.22	0.04	0.11	0.21	0.097	--	--	--	--	--
	02/07	N/A	0.18	0.37	0.088/0.087	0.093	0.42	0.078	0.054	0.14	0.12	--	--	--	--	--
	06/07	N/A	0.24	0.30	0.054	0.034	0.32	0.033	0.10/0.11	0.21	0.088	--	--	--	--	--
	09/07	N/A	0.3	0.29	0.034	0.33	0.21	<0.025	0.052/0.052	0.22	<0.025	--	--	--	--	--
	12/07	N/A	0.22	0.15	0.059	0.091	<0.025	0.030	0.081/0.084	0.28	0.058	--	--	--	--	--
	03/08	N/A	0.098	0.23	0.052/0.045	0.040	0.038	0.026	--	0.16	0.065	--	--	--	--	--
	06/08	N/A	0.22	0.29	0.037	0.087	0.053	0.044	--	--	0.067	--	--	--	--	--
	09/08	N/A	0.18	0.27	0.068	0.11	0.073	0.064	--	--	0.11	--	--	--	--	--
	12/08	N/A	0.12	0.12	<0.025/0.028	0.13	<0.025	0.044	--	--	0.11	--	--	--	--	--
	02/09	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/09	N/A	0.096	0.17	0.032/0.034	0.14	0.037	0.048	0.240	0.14	0.092	--	--	--	--	--
	06/09	N/A	0.11	0.20	0.070/0.068	0.17	0.11	0.059	0.290	0.099	0.16	--	--	--	--	--
	09/09	N/A	0.22	0.15	0.12/0.15	0.17	0.15	0.089	0.250	0.14	0.20	--	--	--	--	--
	12/09	N/A	0.13	0.12	0.079/0.094	0.17	0.044	0.062	2.70	0.87	0.19	--	--	--	--	--
Ethene	05/06	N/A	<11	<11	<11	<11	<11	<11	<11/<11	<11	<11	--	--	--	--	--
	09/06	N/A	0.041	1.8	0.21/0.19	0.82	0.46	<0.025	0.05	0.31	<0.025	--	--	--	--	--
	02/07	N/A	0.031	1.2	0.079/0.072	0.034	0.92	0.035	0.046	0.21	0.046	--	--	--	--	--
	06/07	N/A	0.083	1.4	0.15	0.11	0.29	0.10	0.15/0.080	0.29	0.094	--	--	--	--	--
	09/07	N/A	<0.025	1.9	0.08	0.35	0.35	0.051	0.039/0.036	0.23	<0.025	--	--	--	--	--
	12/07	N/A	<0.025	0.81	0.51	0.027	<0.025	0.22	0.029/0.034	0.18	<0.025	--	--	--	--	--
	03/08	N/A	<0.025	0.9	0.16/0.13	0.028	<0.025	<0.025	--	0.12	<0.025	--	--	--	--	--
	06/08	N/A	<0.025	0.65	0.1	<0.025	0.079	<0.025	--	--	<0.025	--	--	--	--	--
	09/08	N/A	0.035	1.0	0.14	0.11	0.071	0.044	--	--	0.034	--	--	--	--	--
	12/08	N/A	<0.025	0.5	0.1/0.085	0.039	<0.025	<0.025	--	--	<0.025	--	--	--	--	--
	02/09	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/09	N/A	<0.025	0.51	0.066/0.070	<0.025	0.035	<0.025	0.072	0.12	<0.025	--	--	--	--	--
	06/09	N/A	<0.025	0.71	0.12/0.13	<0.025	0.072	0.026	0.15	0.19	0.026	--	--	--	--	--
	09/09	N/A	0.026	0.68	0.25/0.28	0.37	0.150	0.035	0.16	0.24	0.048	--	--	--	--	--
	12/09	N/A	<0.025	0.26	0.096/0.110	<0.025	0.026	<0.025	0.90	0.43	<0.025	--	--	--	--	--

Table 2
Groundwater Analytical Summary - LeatherCare, Greg Thompson Productions, and W. Roy Street Properties
LeatherCare, Inc.
Seattle, Washington

Analyte	Date Sampled	Method A Cleanup Levels [a]	Monitoring Well I.D. [b] GT1	GT2	GT3	LC1	LC2	LC3	LC4 [j]/LC4R	LC5 [j]/LC5R	LC6	LC7	LC8	LC9	Field Blank	Trip Blank
Petroleum Hydrocarbons (NWTPH-Dx) (mg/L)												--	--	--		
Diesel	05/06	0.50	<0.25	0.32	<0.25	<0.25	<0.25	<0.25	<0.25/<0.25	0.35	0.35	--	--	--	--	--
	09/06	0.50	<0.25	<0.25	<0.25/<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	--	--	--	--	--
	02/07	0.50	--	--	--	--	--	0.28	<0.25	0.42/<0.25 [i]	0.76/<0.25 [i]	--	--	--	--	--
	02/09	0.50	--	--	--	--	--	--	--	--	--	<0.25	<0.25	<0.25	--	--
Motor Oil	05/06	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50/<0.50	<0.50	<0.50	--	--	--	--	--
	09/06	0.50	<0.50	<0.50	<0.50/0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--
	02/07	0.50	--	--	--	--	--	<0.50	<0.50	<0.50/<0.5 [i]	<0.50/<0.5 [i]	--	--	--	--	--
	02/09	0.50	--	--	--	--	--	--	--	--	--	<0.50	<0.50	<0.50	--	--
Detected Volatile Organic Compounds (EPA SW8260B) (µg/L)																
Tetrachloroethene	05/06	5	<0.2	<0.2	0.4	2.0	9.4	2.9	14/14	0.4	<0.2	--	--	--	<0.2	<0.2
	09/06	5	<0.2	<0.2	<0.2/<0.2	4.4	9.3	2.8	8.6	<0.2	<0.2	--	--	--	--	--
	02/07	5	<0.2	<0.2	0.4/0.4	2.2	2.5	5.9	20 D	0.3	<0.2	--	--	--	--	<0.2
	06/07	5	<0.2	<0.2	<0.2	1.4	1.5	2.6	9.8/9.9	0.2	<0.2	--	--	--	--	--
	09/07	5	<0.2	<0.2	<0.2	5.2	1.9	3.0	7.9/7.4	<0.2	<0.2	--	--	--	--	--
	12/07	5	<0.2	<0.2	<0.2	4.5	2.7	6.8	25/23 D	1.0	<0.2	--	--	--	--	--
	03/08	5	<0.2	<0.2	<0.2/<0.2	3.6	2.6	3.0	--	<0.2	<0.2	--	--	--	--	--
	06/08	5	<0.2	<0.2	<0.2	6.2	3.3	6.8	--	--	<0.2	--	--	--	--	--
	09/08	5	<0.2	<0.2	<0.2/<0.2	5.8	3.2	5.1	--	--	<0.2	--	--	--	--	--
	12/08	5	<0.2	<0.2	<0.2/<0.2	8.2	1.3	4.2	--	--	<0.2	--	--	--	--	--
	02/09	5	--	--	--	--	--	--	--	--	--	<0.2	<0.2	<0.2	--	--
	03/09	5	<0.2	<0.2	<0.2/<0.2	6.0	1.0	5.6	0.4	<0.2	<0.2	--	--	--	--	--
	06/09	5	<0.2	<0.2	<0.2/<0.2	2.3	1.1	5.6	<0.2	<0.2	<0.2	--	--	--	--	--
	09/09	5	<0.2	<0.2	<0.2/<0.2	3.4	0.2	3.3	<0.2	<0.2	<0.2	--	--	--	--	--
	12/09	5	<0.2	<0.2	<0.2/<0.2	1.8	1.0	3.8	0.4	<0.2	<0.2	--	--	--	--	--
Trichloroethene	05/06	5	0.4	0.6	11	2.8	4	0.6	2.4/2.4	0.5	<0.2	--	--	--	<0.2	<0.2
	09/06	5	0.3	0.6	1.2/1.2	6.5	3	1.2	2.9	0.4	0.3	--	--	--	--	--
	02/07	5	0.4	0.4	6.3/6.9	2.8	1.4	1.2	3.8	1.0	0.2	--	--	--	--	<0.2
	06/07	5	0.2	0.5	2.8	3.2	2.5	1.0	4.8/5.0	0.4	0.3	--	--	--	--	--
	09/07	5	<0.2	0.5	0.6	4.8	1.7	1.8	3.2/3.1	0.4	0.2	--	--	--	--	--
	12/07	5	<0.2	0.5	1.4	6.1	0.5	2.2	1.8/1.8	1.2	<0.2	--	--	--	--	--
	03/08	5	<0.2	0.6	2.6/2.6	4.6	1.3	0.8	--	0.8	<0.2	--	--	--	--	--
	06/08	5	<0.2	0.6	1.5	4.8	4.1	1.6	--	--	0.3	--	--	--	--	--
	09/08	5	<0.2	0.5	1.1/1.0	5.1	2.2	1.2	--	--	0.2	--	--	--	--	--
	12/08	5	<0.2	0.3	0.6/0.6	5.6	0.4	1.2	--	--	0.3	--	--	--	--	--
	02/09	5	--	--	--	--	--	--	--	--	--	<0.2	<0.2	<0.2	--	--
	03/09	5	<0.2	0.3	0.8/0.9	3.9	0.7	1.0	0.7	0.4	0.2	--	--	--	--	--
	06/09	5	<0.2	0.5	1.0/1.1	2.8	1.0	0.8	0.9	0.5	0.2	--	--	--	--	--
	09/09	5	<0.2	0.4	0.8/0.8	2.7	0.9	0.7	0.6	0.5	<0.2	--	--	--	--	--
	12/09	5	<0.2	0.3	0.5/0.5	2.5	0.3	1.1	1.7	1.5	0.3	--	--	--	--	--
cis-1,2-Dichloroethene	05/06	80 [f]	4.2	16	49 D	5.9	14	2.4	7.6/7.9	3.4	2.4	--	--	--	<0.2	<0.2
	09/06	80 [f]	3.7	24 D	13/13	15	15	4.3	10	2.5	2.6	--	--	--	--	--
	02/07	80 [f]	4.9	10	35/34 D	6.3	8.4	2.4	7.7	4.9	2.5	--	--	--	--	<0.2
	06/07	80 [f]	3.0	22 D	16	7.6	5.0	2.4	8.6/9.0	1.6	1.8	--	--	--	--	--
	09/07	80 [f]	2.3	18 D	5.0	9.7	6.9	6.4	11/11	1.7	1.7	--	--	--	--	--
	12/07	80 [f]	1.8	12	14	9.9	1.2	8.0	7.7/7.7	4.6	1.7	--	--	--	--	--
	03/08	80 [f]	1.8	18 D	19/19	6.6	2.5	2.1	--	3.3	1.5	--	--	--	--	--
	06/08	80 [f]	2.0	11	15	4.6	7.0	2.7	--	--	1.3	--	--	--	--	--
	09/08	80 [f]	2.1	8.2	20	7.9	5.2	2.9	--	--	1.0	--	--	--	--	--
	12/08	80 [f]	1.9	6.4	9.2/9.8	6.2	1.2	1.6	--	--	0.8	--	--	--	--	--
	02/09	80 [f]	--	--	--	--	--	--	--	--	--	<0.2	<0.2	<0.2	--	--

Table 2
Groundwater Analytical Summary - LeatherCare, Greg Thompson Productions, and W. Roy Street Properties
LeatherCare, Inc.
Seattle, Washington

Analyte	Date Sampled	Method A Cleanup Levels [a]	Monitoring Well I.D. [b]													
			GT1	GT2	GT3	LC1	LC2	LC3	LC4 [i]/LC4R	LC5 [i]/LC5R	LC6	LC7	LC8	LC9	Field Blank	Trip Blank
cis-1,2-Dichloroethene	03/09	80 [f]	1.7	8.4	6.7/6.8	3.6	1.4	1.0	2.3	1.2	0.5	--	--	--	--	--
(cont.)	06/09	80 [f]	1.7	12	8.8/9.0	4.1	2.9	1.4	2.6	1.5	0.6	--	--	--	--	--
	09/09	80 [f]	0.9	5.2	7.1/7.4	8.4	4.4	1.8	2.6	1.7	0.7	--	--	--	--	--
	12/09	80 [f]	0.8	2.5	6.4/6.4	4.0	1.3	1.2	2.2	2.2	0.8	--	--	--	--	--
trans-1,2-Dichloroethene	05/06	160 [f]	<0.2	5	9.4	<0.2	0.9	<0.2	0.4/0.4	0.2	<0.2	--	--	--	<0.2	<0.2
	09/06	160 [f]	<0.2	6.9	5.4/5.4	0.4	1.3	<0.2	0.5	<0.2	<0.2	--	--	--	--	--
	02/07	160 [f]	0.2	3.3	5.1/5.2	<0.2	0.5	<0.20	0.3	0.3	<0.2	--	--	--	--	<0.2
	06/07	160 [f]	<0.2	4.8	4.5	<0.2	0.6	<0.2	0.4/0.5	<0.2	<0.2	--	--	--	--	--
	09/07	160 [f]	<0.2	5.3	2.4	<0.2	0.5	<0.2	0.3/0.4	<0.2	<0.2	--	--	--	--	--
	12/07	160 [f]	<0.2	2.9	4.2	<0.2	<0.2	<0.2	0.2/0.2	0.3	<0.2	--	--	--	--	--
	03/08	160 [f]	<0.2	3.1	3.3/3.1	<0.2	<0.2	<0.2	--	<0.2	<0.2	--	--	--	--	--
	06/08	160 [f]	<0.2	3.9	4.6	<0.2	<0.2	<0.2	--	--	<0.2	--	--	--	--	--
	09/08	160 [f]	<0.2	2.9	5.9/5.2	0.4	0.3	<0.2	--	--	<0.2	--	--	--	--	--
	12/08	160 [f]	<0.2	1.8	2.3/2.6	0.2	<0.2	<0.2	--	--	<0.2	--	--	--	--	--
	02/09	160 [f]	--	--	--	--	--	--	--	--	--	<0.2	<0.2	<0.2	--	--
	03/09	160 [f]	<0.2	2.0	1.9/2.0	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	--	--	--	--	--
	06/09	160 [f]	<0.2	3.2	4.2/4.3	<0.2	0.2	<0.2	0.2	<0.2	<0.2	--	--	--	--	--
	09/09	160 [f]	<0.2	1.7	3.9/3.9	<0.2	0.3	<0.2	0.3	<0.2	<0.2	--	--	--	--	--
	12/09	80 [f]	<0.2	1.0	1.6/1.5	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	--	--	--	--	--
1,1-Dichloroethene	05/06	0.073 [f]	<0.2	<0.2	0.3	<0.2	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	--	--	--	<0.2	<0.2
	09/06	0.073 [f]	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--	--	--	--
	02/07	0.073 [f]	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	--	--	--	--	<0.2
	06/07	0.073 [f]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	--	--	--	--	--
	09/07	0.073 [f]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2<0.2	<0.2	<0.2	--	--	--	--	--
	12/07	0.073 [f]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	--	--	--	--	--
	03/08	0.073 [f]	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	--	<0.2	<0.2	--	--	--	--	--
	06/08	0.073 [f]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--	<0.2	--	--	--	--	--
	09/08	0.073 [f]	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	--	--	<0.2	--	--	--	--	--
	12/08	0.073 [f]	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	--	--	<0.2	--	--	--	--	--
	02/09	0.073 [f]	--	--	--	--	--	--	--	--	--	<0.2	<0.2	<0.2	--	--
	03/09	0.073 [f]	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--	--	--	--
	06/09	0.073 [f]	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--	--	--	--
	09/09	0.073 [f]	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--	--	--	--
	12/09	80 [f]	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--	--	--	--
Vinyl Chloride	05/06	0.2	<0.2	19 D	9.7	1.1	2.8	2	2.6/2.6	4.8	1.2	--	--	--	<0.2	<0.2
	09/06	0.2	0.2	35 D	5.7/5.4	3.0	3.8	1.6	1.6	2.4	1.0	--	--	--	--	--
	02/07	0.2	<0.2	14	1.9/1.6	0.7	3.1	1.8	1.2	3.3	1.9	--	--	--	--	<0.2
	06/07	0.2	<0.2	12	2.3	0.9	1.8	0.6	1.2/1.2	1.5	0.7	--	--	--	--	--
	09/07	0.2	<0.2	22 D	2.1	1.4	1.4	1.0	0.8/0.8	1.3	0.3	--	--	--	--	--
	12/07	0.2	<0.2	13	16	1.4	<0.2	5.6	1.2/1.1	3.5	1.8	--	--	--	--	--
	03/08	0.2	<0.2	12	2.8/2.4	0.7	0.3	0.8	--	1.9	1.1	--	--	--	--	--
	06/08	0.2	<0.2	18	4.8	0.3	0.5	0.9	--	--	0.2	--	--	--	--	--
	09/08	0.2	<0.2	16	5.2/4.6	0.9	1.1	0.9	--	--	0.2	--	--	--	--	--
	12/08	0.2	<0.2	11	1.7/1.8	0.6	<0.2	0.8	--	--	<0.2	--	--	--	--	--
	02/09	0.2	--	--	--	--	--	--	--	--	--	<0.2	<0.2	<0.2	--	--
	03/09	0.2	<0.2	9.2	1.0/1.0	0.4	0.3	0.3	1.3	1.6	<0.2	--	--	--	--	--

Table 2
Groundwater Analytical Summary - LeatherCare, Greg Thompson Productions, and W. Roy Street Properties
LeatherCare, Inc.
Seattle, Washington

Analyte	Date Sampled	Method A Cleanup Levels [a]	Monitoring Well I.D. [b]														
			GT1	GT2	GT3	LC1	LC2	LC3	LC4 [l]/LC4R	LC5 [l]/LC5R	LC6	LC7	LC8	LC9	Field Blank	Trip Blank
Vinyl Chloride	06/09	0.2	<0.2	**17**	**3.8/4.7**	**0.8**	**1.0**	**0.3**	**1.5**	**2.2**	<0.2	--	--	--	--	--
(cont.)	09/09	0.2	<0.2	**6.9**	**4.9/4.9**	**1.6**	**1.2**	**0.6**	**1.4**	**2.4**	<0.2	--	--	--	--	--
	12/09	0.2	<0.2	**3.7**	**2.5/2.6**	**0.4**	0.2	**0.3**	**1.2**	**1.4**	<0.2	--	--	--	--	--
1,1,1-Trichloroethane	05/06	200	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2/<0.2	<0.2	<0.2	--	--	--	<0.2	<0.2
1,1,2-Trichloroethane	05/06	0.77 [f]	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	--	--	--	<0.2	<0.2
1,1-Dichloroethane	05/06	800 [f]	<0.2	<0.2	<0.2	<0.2	0.9	<0.2	0.4/0.4	<0.2	<0.2	--	--	--	<0.2	<0.2
Benzene	05/06	5	<0.2	1.5	1.4	<0.2	0.4	<0.2	0.7/0.6	<0.2	<0.2	--	--	--	<0.2	<0.2
Toluene	05/06	1,000	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	--	--	--	0.4	<0.2
Dibromochloromethane	05/06	0.52 [f]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	--	--	--	<0.2	<0.2
tert-Butylbenzene	05/06	N/A	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	--	--	--	<0.2	<0.2
Acetone	05/06	800 [f]	3.4 M	5.3 M	<1.0	1.5	2.3	1.3	1.5/1.7	2.1	1.7	--	--	--	5.2	1.5
Methylene Chloride	05/06	5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3/<0.3	<0.3	<0.3	--	--	--	<0.3	0.4

Notes:

Bold and boxed values exceed Method A/B cleanup level.
* Turbidity meter malfunctioned; judged to be <10 NTU prior to sampling based on clarity of water.
** Data not usable due to meter malfunction.
a) Washington Administrative Code Chapter 173-340, Model Toxics Control Act Cleanup Regulation, promulgated August 15, 2001. Method A suggested groundwater cleanup level used when available.
b) Second set of concentrations are from blind duplicate samples.
c) Water in LC2 had a strong hydrogen sulfide odor and would not clear up fully; suspect turbidity is suspended organics.
d) Silver-silver chloride reference electrode.
e) + means dehalococcoides detected; - means dehalococcoides not detected.
f) Method B cleanup level from Washington Dept. of Ecology's Cleanup Levels and Risk Calculations (CLARC) tables.
g) Dissolved oxygen meter not working correctly. Measurements, when provided, were taken on 2/20/07 and were in situ down hole measurements.
h) Turbidity readings taken from flow-cell and high turbidity readings influenced by biofloc.
i) Resampled and reanalyzed for TPH on February 20, 2007. The TPH analyses were run with a silica gel cleanup to remove interference by potential naturally occurring organics.
j) Value believed to be incorrect.
k) Turbidity influenced by biofloc.
l) Destroyed by construction.
m) "10" standard was checked and confirmed the correct instrument reading.

°C - degrees Celsius.
mV - millivolts.
NTU - Nephelometric turbidity units.
ORP - oxidation reduction potential.
N/A - not applicable.
µS/cm - microsiemens per centimeter.
µg/L - micrograms per liter.
mg/L - milligrams per liter.
ppm - parts par million.
J - estimated value.
D - value from a diluted sample.
M - estimated amount of analyte found and confirmed by analyst but with low GC/MS spectral match.
-- not analyzed or not measured.
< - analyte not detected at or greater than the listed concentration.

Table 3
Mann-Kendall Statistical Summary
LeatherCare, Inc.
Seattle, Washington

		GT1 Monitoring Well	GT2 Monitoring Well	GT3 Monitoring Well	LC1 Monitoring Well	LC2 Monitoring Well	LC3 Monitoring Well	LC4 Monitoring Well	LC5 Monitoring Well	LC6 Monitoring Well
1,1-Dichloroethene	Count (data)	14	14	14	14	14	14	10	11	14
	Count (nondetects)	14	14	13	14	14	14	10	11	14
	S Statistic	NC	NC	NC	NC	NC	NC	NC	NC	NC
	Var(S)	NC	NC	NC	NC	NC	NC	NC	NC	NC
	Trend	NC	NC	NC	NC	NC	NC	NC	NC	NC
	Probability (of no real trend)	NC	NC	NC	NC	NC	NC	NC	NC	NC
cis-1,2-Dichloroethene	Count (data)	14	14	14	14	14	14	10	11	14
	Count (nondetects)	0	0	0	0	0	0	0	0	0
	S Statistic	-71	-55	-43	-29	-44	-40	-21	-16	-73
	Var(S)	332	332	334	334	333	330	123	164	332
	Trend	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing
	Probability (of no real trend)	0.01%	0.15%	1.07%	6.27%	0.92%	1.59%	3.57%	12.07%	0.00%
Tetrachloroethene	Count (data)	14	14	14	14	14	14	10	11	14
	Count (nondetects)	14	14	12	0	0	0	2	7	14
	S Statistic	NC	NC	NC	13	-52	20	-23	NC	NC
	Var(S)	NC	NC	NC	334	333	331	123	NC	NC
	Trend	NC	NC	NC	Increasing	Decreasing	Increasing	Decreasing	NC	NC
	Probability (of no real trend)	NC	NC	NC	25.56%	0.26%	14.80%	2.36%	NC	NC
trans-1,2-Dichloroethene	Count (data)	14	14	14	14	14	14	10	11	14
	Count (nondetects)	13	0	0	11	6	14	0	8	14
	S Statistic	NC	-61	-48	NC	-46	NC	-25	NC	NC
	Var(S)	NC	332	333	NC	287	NC	112	NC	NC
	Trend	NC	Decreasing	Decreasing	NC	Decreasing	NC	Decreasing	NC	NC
	Probability (of no real trend)	NC	0.05%	0.50%	NC	0.40%	NC	1.16%	NC	NC
Trichloroethene	Count (data)	14	14	14	14	14	14	10	11	14
	Count (nondetects)	10	0	0	0	0	0	0	0	4
	S Statistic	NC	-37	-52	-21	-47	-15	-21	12	1
	Var(S)	NC	304	331	329	334	323	125	153	225
	Trend	NC	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Increasing	Increasing
	Probability (of no real trend)	NC	1.94%	0.25%	13.51%	0.59%	21.80%	3.68%	18.67%	50.00%
Vinyl Chloride	Count (data)	14	14	14	14	14	14	10	11	14
	Count (nondetects)	13	0	0	0	2	0	0	0	5
	S Statistic	NC	-50	-15	-27	-43	-55	-7	-16	-52
	Var(S)	NC	333	334	330	329	327	116	164	289
	Trend	NC	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing
	Probability (of no real trend)	NC	0.36%	22.17%	7.61%	1.03%	0.14%	28.90%	12.07%	0.14%

F Figures

Source: USGS SEATTLE NORTH, 7.5 MIN. QUADRARANGLE, 1973

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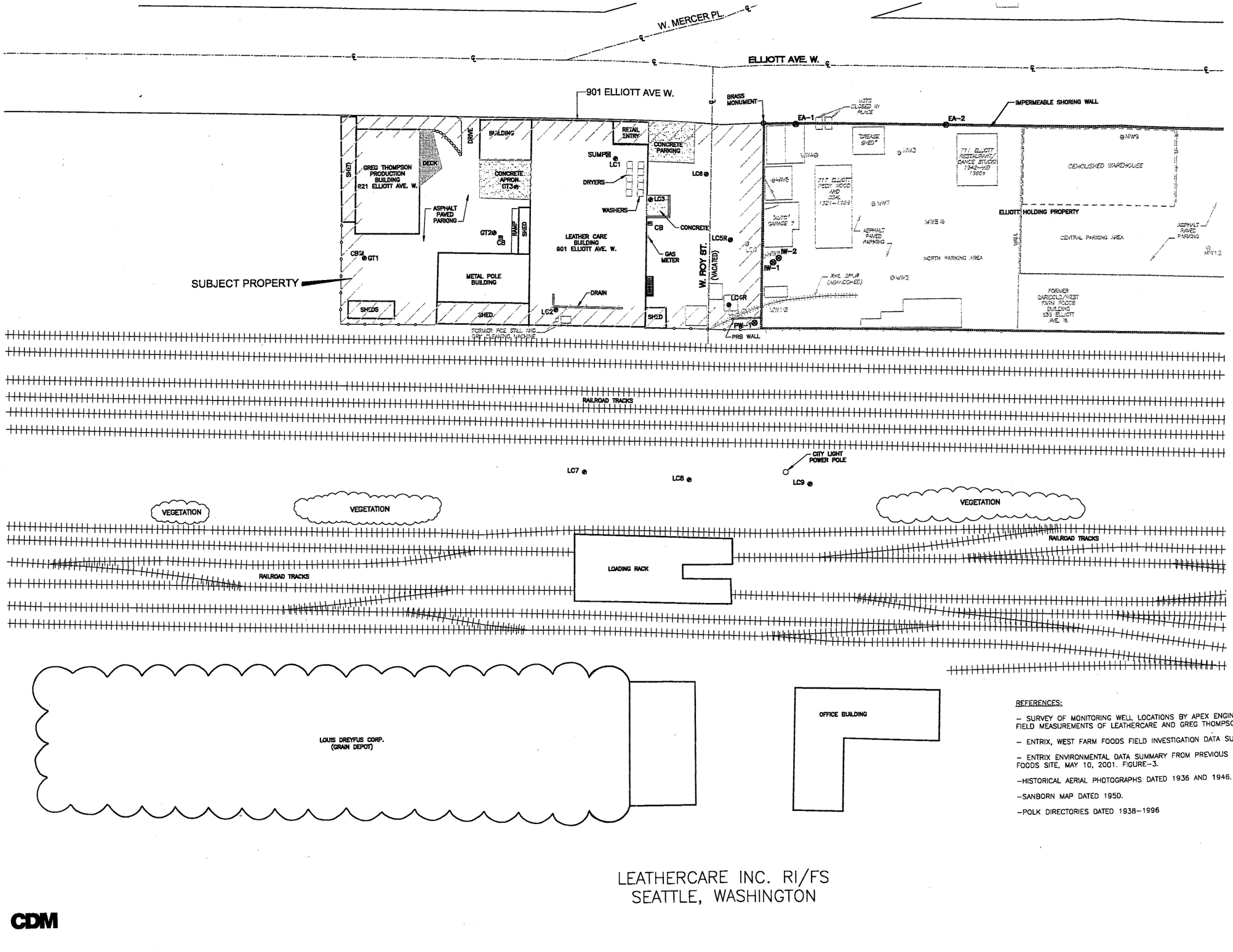
CDM

LEATHERCARE INC. RI/FS
SEATTLE, WASHINGTON

Figure No. 1
VICINITY MAP



LEGEND:

- LC6 ⊕ MONITORING WELL LOCATION AND DESIGNATION
- MW1 ⊕ MONITORING WELL DESTROYED FOR REDEVELOPMENT OF PROPERTY
- EA-1 ⊗ ELLIOTT HOLDING MONITORING WELL LOCATION AND DESIGNATION
- FENCE
- ROAD CENTERLINE
- RAILROAD TRACKS
- CB CATCH BASIN
- INDICATES HISTORICAL FEATURES — HISTORICAL FEATURES
- SURVEY MONUMENT

VERTICAL DATUM:

CITY OF SEATTLE (NAVD 88)
BENCHMARK SNV-5144
BRASS MONUMENT SW CORNER OF ROY AND ELLIOTT. ELEVATION 19.78'

BASIS OF BEARING:

BASIS OF BEARING ASSUMED DUE WEST

N

1" = 80'

40 0 80

REFERENCES:

- SURVEY OF MONITORING WELL LOCATIONS BY APEX ENGINEERING ON MAY 10, 2006 AND FEBRUARY 11, 2009. FIELD MEASUREMENTS OF LEATHERCARE AND GREG THOMPSON PRODUCTION BUILDINGS BY CDM ON MAY 10, 2006.
- ENTRIX, WEST FARM FOODS FIELD INVESTIGATION DATA SUMMARY REPORT, MAY 10, 2001, FIGURE 2.
- ENTRIX ENVIRONMENTAL DATA SUMMARY FROM PREVIOUS STUDIES AND REPORTS, WEST FARM FOODS SITE, MAY 10, 2001. FIGURE-3.
- HISTORICAL AERIAL PHOTOGRAPHS DATED 1936 AND 1946.
- SANBORN MAP DATED 1950.
- POLK DIRECTORIES DATED 1938-1996

LEATHERCARE INC. RI/FS
SEATTLE, WASHINGTON

Figure No. 2
Site and Vicinity Map

CDM

XREFS: Dec 16 2009 site, Dec 16 2009 11X17BDR
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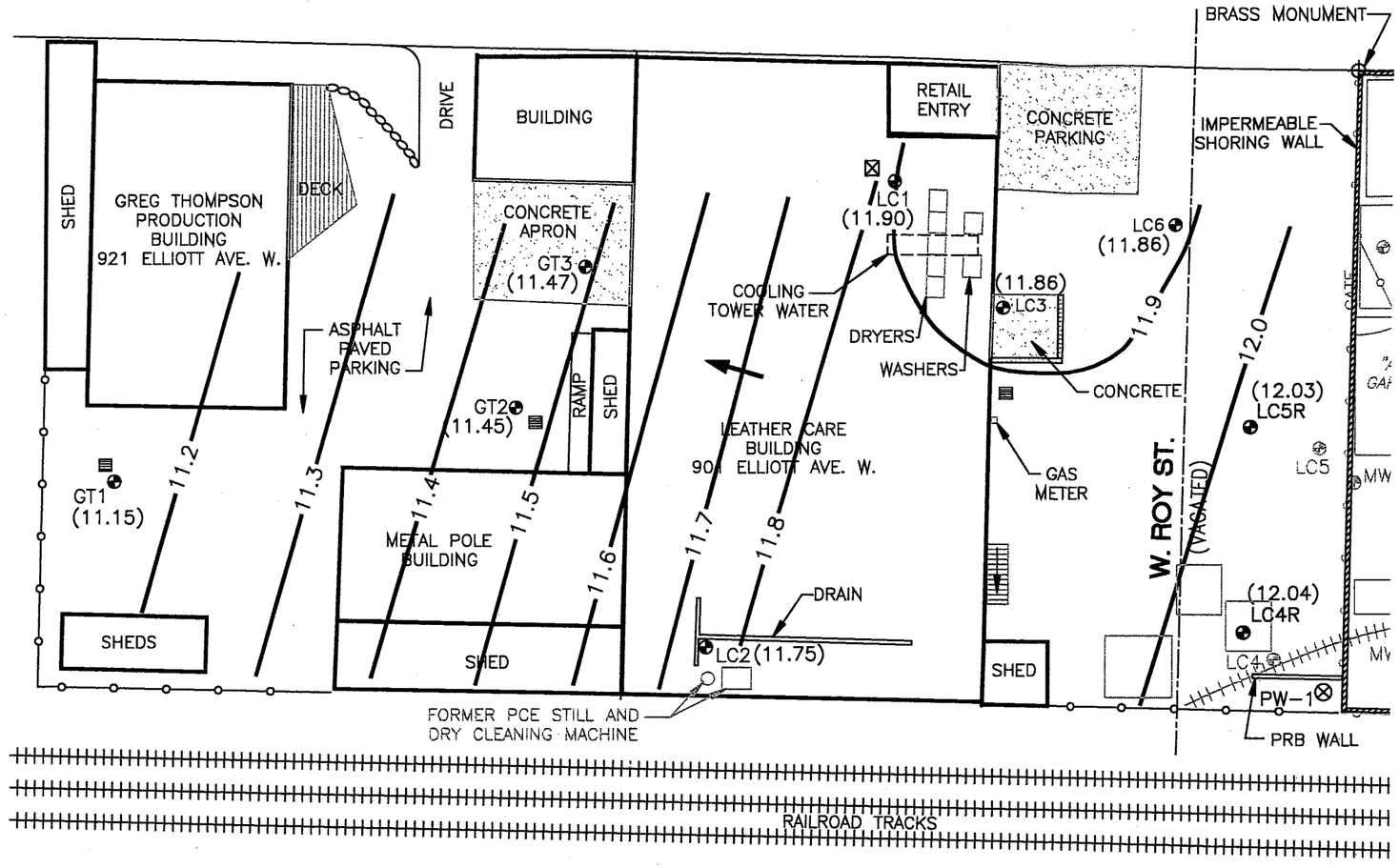

REFERENCES:

- SURVEY OF MONITORING WELL LOCATIONS BY APEX ENGINEERING ON MAY 10, 2006 AND FEBRUARY 11, 2009. FIELD MEASUREMENTS OF LEATHERCARE AND GREG THOMPSON PRODUCTION BUILDINGS BY CDM ON MAY 10, 2006.
- ENTRIX, WEST FARM FOODS FIELD INVESTIGATION DATA SUMMARY REPORT, MAY 10, 2001, FIGURE 2.
- ENTRIX ENVIRONMENTAL DATA SUMMARY FROM PREVIOUS STUDIES AND REPORTS, WEST FARM FOODS SITE, MAY 10, 2001. FIGURE-3.
- HISTORICAL AERIAL PHOTOGRAPHS DATED 1936 AND 1946.
- SANBORN MAP DATED 1950.
- POLK DIRECTORIES DATED 1938-1996

N

1" = 40'

20 0 40

LEGEND:

- LC6 (11.86) — MONITORING WELL LOCATION AND DESIGNATION WITH GROUNDWATER ELEVATION IN FEET
- 11.5 — POTENTIOMETRIC CONTOURS, CONTOUR INTERVAL IS 0.1 FT. (AVERAGE)
- DIRECTION OF GROUNDWATER FLOW
- FENCE
- RAILROAD TRACKS
- CATCH BASIN
- INDICATES HISTORICAL FEATURES — HISTORICAL FEATURES
- SURVEY MONUMENT
- CSM IMPERMEABLE WALL

VERTICAL DATUM:

CITY OF SEATTLE (NAVD 88)
BENCHMARK SNV-5144
BRASS MONUMENT SW CORNER OF ROY AND ELLIOTT. ELEVATION 19.78'

BASIS OF BEARING:

BASIS OF BEARING ASSUMED DUE WEST

LEATHERCARE INC. RI/FS
SEATTLE, WASHINGTON

Figure No. 3
Potentiometric Surface Map
December 16, 2009

CDM

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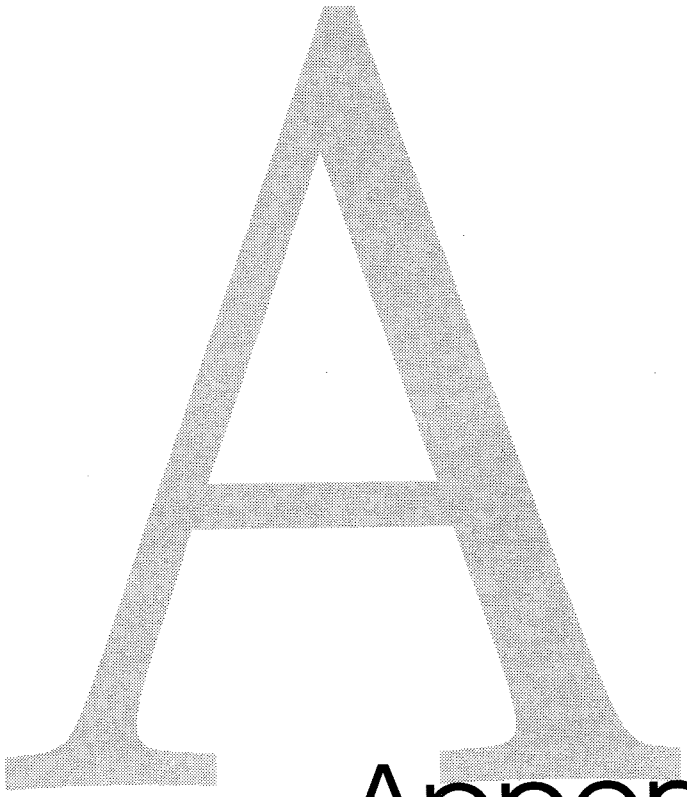


Appendix A

Appendix A
Analytical Laboratory Reports

Analytical Resources, Incorporated
Analytical Chemists and Consultants

December 29, 2009

Pam Morrill
CDM
11811 NE 1st, Suite 201
Bellevue, WA 98005

RE: Project ID: Leathercare, 56498-68247
ARI Job No: QB95

Dear Pam:

Please find enclosed the original Chain-of-Custody (COC) record, sample receipt documentation, and the final results for samples from the project referenced above. Analytical Resources Inc. (ARI) accepted five water samples and a trip blank on December 16, 2009, under ARI job QB95.The trip blank held upon receipt, as requested on the COC. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for Volatile Organics by SW8260C, as requested.

There were no anomalies associated with the analysis of these samples.

An electronic copy of this report as well as all supporting data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile QB95

Enclosures

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

CDM

CHAIN-OF-CUSTODY

Date 12/17/09 Page 1 of 1

PROJECT INFORMATION

Project Manager: Pam Morrill
Project Name: Leatherwize
Project Number: 56498-68247
Site Location: Elliott Ave W & W Mercer Pl Sampled By: MLF

DISPOSAL INFORMATION

☑ Lab Disposal (return if not indicated)

Disposal Method: ______
Disposed by: ______ Disposal Date: ______

QC INFORMATION (check one)

☐ SW-846 ☐ CLP ☐ Screening ☑ CDM Std. ☐ Special

Laboratory Number:

ANALYSIS REQUEST

PETROLEUM HYDROCARBONS: TPH-HCID State: | TPH-G State: | TPH-D State: | TPH-418.1 State: | 8015M Fuel Hydrocarbon | TPH Special Instructions

ORGANIC COMPOUNDS: 8010 Halogenated VOCs | 8020 Aromatic VOCs | 8020M - BETX only | 8260 GC/MS Volatiles (chlorinated) | 8270 GC/MS Semivolatiles | 8310 PAHs | 8040 Phenols | DWS - Volatiles and Semivolatiles

PESTS/PCBs: 8080 OC Pest/PCBs | 8080M PCBs only | 8140 OP Pesticides | 8150 OC Herbicides | DWS - Herb/Pest

METALS: Selected Metals: list | Organic Lead (Ca) | TCL Metals (23) | Priority Poll. Metals (13) | DWS - Metals | MFSP - Metals (Wa)

LEACHING TESTS: TCLP - Volatiles (ZHE) | TCLP - Semivolatiles | TCLP - Pesticides | TCLP - Metals

OTHER: Vols

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	8260 GC/MS Volatiles (chlorinated)	OTHER: Vols	NUMBER OF CONTAINERS
LC1-12/09	12/17/09	0820	Water		✓		3
GT3-12/09	12/17/09	0930	↓		✓		3
GT2-12/09	12/17/09	1110	↓		✓		3
GT1-12/09	12/17/09	1220	↓		✓		3
GT20-12/09	12/17/09	1330	↓		✓		3
Trip Blank	12/17/09	—	Water			✓	2

LAB INFORMATION

Lab Name: ARI
Lab Address: 4611 134th Place S
Tukwila WA
Via: Hand-delivered

SAMPLE RECEIPT

Total Number of Containers:
Chain-of-Custody Seals: Y/N/NA
Intact?: Y/N/NA
Received in Good Condition/Cold:

Turn Around Time: ☑ Standard ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 1 wk.

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH DATA

Special Instructions: - Please analyze for Leatherwize list of chlorinated volatiles
10mL purge volume

5.3°

	1.	2.	3.
RELINQUISHED BY: Signature	Mary Lou Fox		
Time	1430		
Printed Name	Mary Lou Fox		
Date	12/17/09		
Company	CDM		
RECEIVED BY: Signature	[signature]		
Time	1430		
Printed Name	A. Valgardsen		
Date	12/17/09		
Company	ARI		

CDM OFFICES: Bellevue: (206) 453-8383
Portland: (503) 232-1800
rev. 2/02

DISTRIBUTION: White, Canary to Analytical Laboratory; Pink to CDM Project Files; Gold to CDM Disposal Files

forms\field\chainofcustody.p65

QB55:00002

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: CDM

Project Name: Leathercare

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier (Hand Delivered) Other: _____

Assigned ARI Job No: QB95

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)	5.3	
If cooler temperature is out of compliance fill out form 00070F	Temp Gun ID#:	90941619

Cooler Accepted by: AV Date: 12/17/09 Time: 1430

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used?	Bubble Wrap (Wet Ice) Gel Packs Baggies (Foam Block) Paper Other:		
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	YES	(NO)
Were all VOC vials free of air bubbles?	NA	YES	(NO)
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	NA	12/7/09	

Samples Logged by: JP Date: 12/17/09 Time: 1705

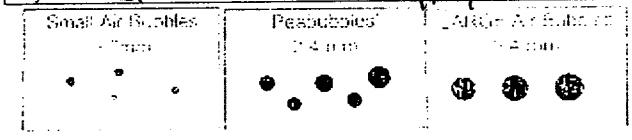
*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

"Sm" bubbles in 1of 3 HCl voa vials for both samples GT2-12/09 and GT20-12/09. "Sm" bubble in 1of 2 Trip Blanks

By: JP Date: 12/17/09



Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LC1-12/09**
Page 1 of 1 **SAMPLE**

Lab Sample ID: QB95A
LIMS ID: 09-31101
Matrix: Water
Data Release Authorized:
Reported: 12/29/09

QC Report No: QB95-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 12/17/09
Date Received: 12/17/09

Instrument/Analyst: NT5/PKC
Date Analyzed: 12/24/09 14:22

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	**Vinyl Chloride**	**0.2**	**0.4**	
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**4.0**	
79-01-6	**Trichloroethene**	**0.2**	**2.5**	
127-18-4	**Tetrachloroethene**	**0.2**	**1.8**	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	92.5%
d8-Toluene	97.0%
Bromofluorobenzene	92.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: GT3-12/09 SAMPLE**
Page 1 of 1

Lab Sample ID: QB95B
LIMS ID: 09-31102
Matrix: Water
Data Release Authorized:
Reported: 12/29/09

QC Report No: QB95-CDM, Inc.
Project: Leathercare 56498-68247
Date Sampled: 12/17/09
Date Received: 12/17/09

Instrument/Analyst: NT5/PKC
Date Analyzed: 12/24/09 14:48

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	**Vinyl Chloride**	**0.2**	**2.5**	
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**1.6**	
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**6.4**	
79-01-6	**Trichloroethene**	**0.2**	**0.5**	
127-18-4	Tetrachloroethene	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	93.0%
d8-Toluene	98.5%
Bromofluorobenzene	94.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: GT2-12/09**
SAMPLE
Page 1 of 1

Lab Sample ID: QB95C
LIMS ID: 09-31103
Matrix: Water
Data Release Authorized:
Reported: 12/29/09

QC Report No: QB95-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 12/17/09
Date Received: 12/17/09

Instrument/Analyst: NT5/PKC
Date Analyzed: 12/24/09 15:14

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	**Vinyl Chloride**	**0.2**	**3.7**	
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**1.0**	
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**2.5**	
79-01-6	**Trichloroethene**	**0.2**	**0.3**	
127-18-4	Tetrachloroethene	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	88.4%
d8-Toluene	97.9%
Bromofluorobenzene	93.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: GT1-12/09**
SAMPLE
Page 1 of 1

Lab Sample ID: QB95D
LIMS ID: 09-31104
Matrix: Water
Data Release Authorized:
Reported: 12/29/09

QC Report No: QB95-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 12/17/09
Date Received: 12/17/09

Instrument/Analyst: NT5/PKC
Date Analyzed: 12/24/09 15:39

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.8**	
79-01-6	Trichloroethene	0.2	< 0.2	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	92.5%
d8-Toluene	98.8%
Bromofluorobenzene	96.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: GT20-12/09**
SAMPLE

Lab Sample ID: QB95E
LIMS ID: 09-31105
Matrix: Water
Data Release Authorized:
Reported: 12/29/09

QC Report No: QB95-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 12/17/09
Date Received: 12/17/09

Instrument/Analyst: NT5/PKC
Date Analyzed: 12/24/09 16:05

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	**Vinyl Chloride**	**0.2**	**2.6**	
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**1.5**	
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**6.4**	
79-01-6	**Trichloroethene**	**0.2**	**0.5**	
127-18-4	Tetrachloroethene	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	93.6%
d8-Toluene	99.0%
Bromofluorobenzene	93.3%

ANALYTICAL RESOURCES INCORPORATED

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QB95-CDM, Inc.
Project: Leathercare
56498-68247

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
MB-122409	Method Blank	10	91.5%	98.6%	95.2%	NA	0
LCS-122409	Lab Control	10	90.7%	100%	96.1%	NA	0
LCSD-122409	Lab Control Dup	10	90.5%	99.4%	99.3%	NA	0
QB95A	LC1-12/09	10	92.5%	97.0%	92.7%	NA	0
QB95B	GT3-12/09	10	93.0%	98.5%	94.0%	NA	0
QB95C	GT2-12/09	10	88.4%	97.9%	93.9%	NA	0
QB95D	GT1-12/09	10	92.5%	98.8%	96.3%	NA	0
QB95E	GT20-12/09	10	93.6%	99.0%	93.3%	NA	0
			LCS/MB LIMITS			QC LIMITS	
SW8260C							
(DCE) = d4-1,2-Dichloroethane			70-132			80-143	
(TOL) = d8-Toluene			80-120			80-120	
(BFB) = Bromofluorobenzene			80-120			80-120	
(DCB) = d4-1,2-Dichlorobenzene			80-120			80-120	

Prep Method: SW5030B
Log Number Range: 09-31101 to 09-31105

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-122409**
METHOD BLANK

Lab Sample ID: MB-122409
LIMS ID: 09-31101
Matrix: Water
Data Release Authorized:
Reported: 12/29/09

QC Report No: QB95-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT5/PKC
Date Analyzed: 12/24/09 11:12

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	91.5%
d8-Toluene	98.6%
Bromofluorobenzene	95.2%

Analytical Resources, Incorporated
Analytical Chemists and Consultants

DEC 30 2009

December 28, 2009

Pam Morrill
CDM
11811 NE 1st, Suite 201
Bellevue, WA 98005

RE: Project ID: Leathercare, 56498-68247
ARI Job No: QB73

Dear Pam:

Please find enclosed the original Chain-of-Custody (COC) record, sample receipt documentation, and the final results for samples from the project referenced above. Analytical Resources Inc. (ARI) accepted five water samples and a trip blank on December 16, 2009, under ARI job QB73. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for Volatile Organics by SW8260C, as requested.

There were no anomalies associated with the analysis of these samples.

An electronic copy of this report as well as all supporting data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile QB73

Enclosures

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

CDM

CHAIN-OF-CUSTODY

Date 12/16/09 Page 1 of 1

PROJECT INFORMATION

Project Manager: Pam Morrill
Project Name: Leathercare
Project Number: 56498-68247
Site Location: Elliott Ave W & Mercer Sampled By: MLF

DISPOSAL INFORMATION

☑ Lab Disposal (return if not indicated)
Disposal Method: ______
Disposed by: ______ Disposal Date: ______

QC INFORMATION (check one)

☐ SW-846 ☐ CLP ☐ Screening ☐ CDM Std. ☐ Special

Laboratory Number:

ANALYSIS REQUEST

PETROLEUM HYDROCARBONS: TPH-HCID State: | TPH-G State: | TPH-D State: | TPH-418.1 State: | 8015M Fuel Hydrocarbon | TPH Special Instructions

ORGANIC COMPOUNDS: 8010 Halogenated VOCs | 8020 Aromatic VOCs | 8021P - BTEX only | 8240 GC/MS Volatiles (Leathercare list) | 8270 GC/MS Semivolatiles | 8310 PAHs | 8040 Phenols | DWS - Volatiles and Semivolatiles

PESTS/PCBs: 8080 OC Pest/PCBs | 8080M PCBs only | 8140 OP Pesticides | 8150 OC Herbicides | DWS - Herb/Pest

METALS: Selected Metals: list | Organic Lead (Ca) | TCL Metals (23) | Priority Poll. Metals (13) | DWS - Metals | MFSP - Metals (Wa)

LEACHING TESTS: TCLP - Volatiles (ZHE) | TCLP - Semivolatiles | TCLP - Pesticides | TCLP - Metals

OTHER: Hold

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	VOCs (Leathercare list)	OTHER: Hold	NUMBER OF CONTAINERS
LC4R-12/09	12/16/09	0930	Water		✓		3
LC5R-12/09	12/16/09	1035	Water		✓		3
LC6-12/09	12/16/09	1145	Water		✓		3
LC3-12/09	12/16/09	1255	Water		✓		9
LC2-12/09	12/16/09	1500	Water		✓		3
Trip Blank	12/16/09	—	Water			✓	

LAB INFORMATION

Lab Name: ARI
Lab Address: 4611 134th Place S Tukwila
Via: Hand-delivery

SAMPLE RECEIPT

Total Number of Containers:
Chain-of-Custody Seals: Y/N/NA
Intact?: Y/N/NA
Received in Good Condition/Cold:

Turn Around Time: ☒ Standard ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 1 wk.

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH DATA

Special Instructions: Please analyze for Leathercare VOA list as in past. Extra vials for LC3-12/09 for VOA MS/MSD

	RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature / Time	Mary Lou Fox 1625		
Printed Name / Date	Mary Lou Fox 12/16/09		
Company	CDM		

	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: 3.
Signature / Time	J. Peterson 1625		
Printed Name / Date	J. Peterson 12/16/09		
Company	ARI		

CDM OFFICES: Bellevue: (206) 453-8383 Portland: (503) 232-1800
rev. 2/02

DISTRIBUTION: White, Canary to Analytical Laboratory; Pink to CDM Project Files; Gold to CDM Disposal Files
forms\field\chainofcustody.p65

0B73:00002

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: CDM Project Name: Leather Care

COC No(s): _____ (NA) Delivered by: Fed-Ex UPS Courier (Hand) Delivered Other: _____

Assigned ARI Job No: QB73 Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 3.5 ___ ___ ___ ___

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90877952

Cooler Accepted by: JP Date: 12/16/09 Time: 1625

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs Baggies (Foam Block) Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	NA	YES	(NO)
Were all VOC vials free of air bubbles?	NA	(YES)	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	NA	12/7/09	

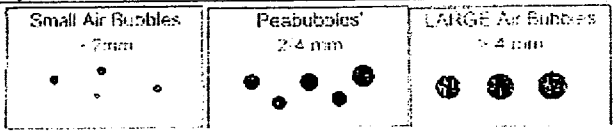
Samples Logged by: JP Date: 12/17/09 Time: 9:45

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Small → "sm"

Peabubbles → "pb"

Large → "lg"

Headspace → "hs"

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LC4R-12/09**
SAMPLE

Lab Sample ID: QB73A
LIMS ID: 09-31004
Matrix: Water
Data Release Authorized:
Reported: 12/23/09

QC Report No: QB73-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 12/16/09
Date Received: 12/16/09

Instrument/Analyst: NT5/PKC
Date Analyzed: 12/21/09 18:36

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	**Vinyl Chloride**	**0.2**	**1.2**	
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.2**	
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**2.2**	
79-01-6	**Trichloroethene**	**0.2**	**1.7**	
127-18-4	**Tetrachloroethene**	**0.2**	**0.4**	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	88.6%
d8-Toluene	99.4%
Bromofluorobenzene	105%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LC5R-12/09**
SAMPLE

Lab Sample ID: QB73B
LIMS ID: 09-31005
Matrix: Water
Data Release Authorized:
Reported: 12/23/09

QC Report No: QB73-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 12/16/09
Date Received: 12/16/09

Instrument/Analyst: NT5/PKC
Date Analyzed: 12/21/09 19:02

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	**Vinyl Chloride**	**0.2**	**1.4**	
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**2.2**	
79-01-6	**Trichloroethene**	**0.2**	**1.5**	
127-18-4	Tetrachloroethene	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	90.7%
d8-Toluene	98.8%
Bromofluorobenzene	106%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LC6-12/09**
SAMPLE

Lab Sample ID: QB73C
LIMS ID: 09-31006
Matrix: Water
Data Release Authorized:
Reported: 12/23/09

QC Report No: QB73-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 12/16/09
Date Received: 12/16/09

Instrument/Analyst: NT5/PKC
Date Analyzed: 12/21/09 19:27

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.8**	
79-01-6	**Trichloroethene**	**0.2**	**0.3**	
127-18-4	Tetrachloroethene	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	90.6%
d8-Toluene	100%
Bromofluorobenzene	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LC3-12/09**
Page 1 of 1 **SAMPLE**

Lab Sample ID: QB73D
LIMS ID: 09-31007
Matrix: Water
Data Release Authorized:
Reported: 12/23/09

QC Report No: QB73-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 12/16/09
Date Received: 12/16/09

Instrument/Analyst: NT5/PKC
Date Analyzed: 12/21/09 19:53

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	**Vinyl Chloride**	**0.2**	**0.3**	
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**1.2**	
79-01-6	**Trichloroethene**	**0.2**	**1.1**	
127-18-4	**Tetrachloroethene**	**0.2**	**3.8**	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	91.4%
d8-Toluene	99.6%
Bromofluorobenzene	103%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LC2-12/09 SAMPLE**
Page 1 of 1

Lab Sample ID: QB73E
LIMS ID: 09-31008
Matrix: Water
Data Release Authorized:
Reported: 12/23/09

QC Report No: QB73-CDM, Inc.
Project: Leathercare 56498-68247
Date Sampled: 12/16/09
Date Received: 12/16/09

Instrument/Analyst: NT5/PKC
Date Analyzed: 12/21/09 20:19

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	**Vinyl Chloride**	**0.2**	**0.2**	
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**1.3**	
79-01-6	**Trichloroethene**	**0.2**	**0.3**	
127-18-4	**Tetrachloroethene**	**0.2**	**1.0**	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	89.4%
d8-Toluene	100%
Bromofluorobenzene	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: Trip Blank**
SAMPLE
Page 1 of 1

Lab Sample ID: QB73F
LIMS ID: 09-31009
Matrix: Water
Data Release Authorized:
Reported: 12/23/09

QC Report No: QB73-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 12/16/09
Date Received: 12/16/09

Instrument/Analyst: NT5/PKC
Date Analyzed: 12/21/09 16:02

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	90.3%
d8-Toluene	100%
Bromofluorobenzene	102%

ANALYTICAL RESOURCES INCORPORATED

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QB73-CDM, Inc.
Project: Leathercare
56498-68247

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
MB-122109	Method Blank	10	90.9%	99.7%	96.2%	NA	0
LCS-122109	Lab Control	10	91.7%	98.5%	99.4%	NA	0
LCSD-122109	Lab Control Dup	10	90.7%	98.0%	97.9%	NA	0
QB73A	LC4R-12/09	10	88.6%	99.4%	105%	NA	0
QB73B	LC5R-12/09	10	90.7%	98.8%	106%	NA	0
QB73C	LC6-12/09	10	90.6%	100%	104%	NA	0
QB73D	LC3-12/09	10	91.4%	99.6%	103%	NA	0
QB73DMS	LC3-12/09	10	87.8%	98.5%	106%	NA	0
QB73DMSD	LC3-12/09	10	88.3%	98.4%	106%	NA	0
QB73E	LC2-12/09	10	89.4%	100%	104%	NA	0
QB73F	Trip Blank	10	90.3%	100%	102%	NA	0

	LCS/MB LIMITS	QC LIMITS
SW8260C		
(DCE) = d4-1,2-Dichloroethane	70-132	80-143
(TOL) = d8-Toluene	80-120	80-120
(BFB) = Bromofluorobenzene	80-120	80-120
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120

Prep Method: SW5030B
Log Number Range: 09-31004 to 09-31009

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LC3-12/09**
MATRIX SPIKE
Page 1 of 1

Lab Sample ID: QB73D
LIMS ID: 09-31007
Matrix: Water
Data Release Authorized:
Reported: 12/23/09

QC Report No: QB73-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 12/16/09
Date Received: 12/16/09

Instrument/Analyst MS: NT5/PKC
MSD: NT5/PKC
Date Analyzed MS: 12/21/09 20:44
MSD: 12/21/09 21:10

Sample Amount MS: 10.0 mL
MSD: 10.0 mL
Purge Volume MS: 10.0 mL
MSD: 10.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Vinyl Chloride	0.3	11.5	10.0	112%	11.4	10.0	111%	0.9%
1,1-Dichloroethene	< 0.2 U	11.7	10.0	117%	11.8	10.0	118%	0.9%
trans-1,2-Dichloroethene	< 0.2 U	11.0	10.0	110%	11.0	10.0	110%	0.0%
cis-1,2-Dichloroethene	1.2	12.5	10.0	113%	12.4	10.0	112%	0.8%
Trichloroethene	1.1	11.3	10.0	102%	11.7	10.0	106%	3.5%
Tetrachloroethene	3.8	13.2	10.0	94.0%	13.2	10.0	94.0%	0.0%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
Sample ID: LC3-12/09 MATRIX SPIKE
Page 1 of 1

Lab Sample ID: QB73D
LIMS ID: 09-31007
Matrix: Water
Data Release Authorized:
Reported: 12/23/09

QC Report No: QB73-CDM, Inc.
Project: Leathercare 56498-68247
Date Sampled: 12/16/09
Date Received: 12/16/09

Instrument/Analyst: NT5/PKC
Date Analyzed: 12/21/09 20:44

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	Vinyl Chloride	0.2	---	
75-35-4	1,1-Dichloroethene	0.2	---	
156-60-5	trans-1,2-Dichloroethene	0.2	---	
156-59-2	cis-1,2-Dichloroethene	0.2	---	
79-01-6	Trichloroethene	0.2	---	
127-18-4	Tetrachloroethene	0.2	---	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	87.8%
d8-Toluene	98.5%
Bromofluorobenzene	106%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MB-122109
METHOD BLANK

Lab Sample ID: MB-122109
LIMS ID: 09-31004
Matrix: Water
Data Release Authorized:
Reported: 12/23/09

QC Report No: QB73-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT5/PKC
Date Analyzed: 12/21/09 12:51

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery	
d4-1,2-Dichloroethane	90.9%
d8-Toluene	99.7%
Bromofluorobenzene	96.2%

Client Name: Camp Dresser and McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P0912274
Report Date: 12/23/09
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Laboratory Results

Total pages in data package: 13

Lab Sample #	Client Sample ID
P0912274-01	LC4R-12/09
P0912274-02	LC5R-12/09
P0912274-03	LC6-12/09
P0912274-04	LC3-12/09
P0912274-05	LC2-12/09
P0912274-06	LC1-12/09
P0912274-07	GT3-12/09
P0912274-08	GT2-12/09
P0912274-09	GT1-12/09
P0912274-10	GT20-12/09

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Debbie Hallo (DH) ***Date:*** 12.23.09

Project Manager: Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

Case Narrative:

Client Name: Camp Dresser and McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P0912274
Report Date: 12/23/09
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
LC4R-12/09	Water	P0912274-01	16 Dec. 09 9:30	18 Dec. 09 12:13

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	2.700	0.025	ug/L	AM20GAX	12/22/09	rw
N Ethene	0.900	0.025	ug/L	AM20GAX	12/22/09	rw
N Methane	5400.000	0.100	ug/L	AM20GAX	12/22/09	rw

N - NELAC certified analysis

Client Name: Camp Dresser and McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P0912274
Report Date: 12/23/09
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
LC5R-12/09	Water	P0912274-02	16 Dec. 09 10:35	18 Dec. 09 12:13

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.870	0.025	ug/L	AM20GAX	12/22/09	rw
N Ethene	0.430	0.025	ug/L	AM20GAX	12/22/09	rw
N Methane	1300.000	0.100	ug/L	AM20GAX	12/22/09	rw

N - NELAC certified analysis

Client Name: Camp Dresser and McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P0912274
Report Date: 12/23/09
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
LC6-12/09	Water	P0912274-03	16 Dec. 09 11:45	18 Dec. 09 12:13

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.190	0.025	ug/L	AM20GAX	12/22/09	rw
N Ethene	<0.025	0.025	ug/L	AM20GAX	12/22/09	rw
N Methane	530.000	0.100	ug/L	AM20GAX	12/22/09	rw

N - NELAC certified analysis

Client Name: Camp Dresser and McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P0912274
Report Date: 12/23/09
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
LC3-12/09	Water	P0912274-04	16 Dec. 09 12:55	18 Dec. 09 12:13

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.062	0.025	ug/L	AM20GAX	12/22/09	rw
N Ethene	<0.025	0.025	ug/L	AM20GAX	12/22/09	rw
N Methane	110.000	0.100	ug/L	AM20GAX	12/22/09	rw

N - NELAC certified analysis

Client Name: Camp Dresser and McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P0912274
Report Date: 12/23/09
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
LC2-12/09	Water	P0912274-05	16 Dec. 09 15:00	18 Dec. 09 12:13

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.044	0.025	ug/L	AM20GAX	12/22/09	rw
N Ethene	0.026	0.025	ug/L	AM20GAX	12/22/09	rw
N Methane	110.000	0.100	ug/L	AM20GAX	12/22/09	rw

N - NELAC certified analysis

Client Name: Camp Dresser and McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P0912274
Report Date: 12/23/09
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
LC1-12/09	Water	P0912274-06	17 Dec. 09 8:20	18 Dec. 09 12:13

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.170	0.025	ug/L	AM20GAX	12/22/09	rw
N Ethene	<0.025	0.025	ug/L	AM20GAX	12/22/09	rw
N Methane	230.000	0.100	ug/L	AM20GAX	12/22/09	rw

N - NELAC certified analysis

Client Name: Camp Dresser and McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P0912274
Report Date: 12/23/09
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
GT3-12/09	Water	P0912274-07	17 Dec. 09 9:30	18 Dec. 09 12:13

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.079	0.025	ug/L	AM20GAX	12/22/09	rw
N Ethene	0.096	0.025	ug/L	AM20GAX	12/22/09	rw
N Methane	53.000	0.100	ug/L	AM20GAX	12/22/09	rw

N - NELAC certified analysis

Client Name: Camp Dresser and McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P0912274
Report Date: 12/23/09
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
GT2-12/09	Water	P0912274-08	17 Dec. 09 11:10	18 Dec. 09 12:13

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.120	0.025	ug/L	AM20GAX	12/22/09	rw
N Ethene	0.260	0.025	ug/L	AM20GAX	12/22/09	rw
N Methane	170.000	0.100	ug/L	AM20GAX	12/22/09	rw

N - NELAC certified analysis

Client Name: Camp Dresser and McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P0912274
Report Date: 12/23/09
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
GT1-12/09	Water	P0912274-09	17 Dec. 09 12:20	18 Dec. 09 12:13

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.130	0.025	ug/L	AM20GAX	12/22/09	rw
N Ethene	<0.025	0.025	ug/L	AM20GAX	12/22/09	rw
N Methane	260.000	0.100	ug/L	AM20GAX	12/22/09	rw

N - NELAC certified analysis

Client Name: Camp Dresser and McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P0912274
Report Date: 12/23/09
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
GT20-12/09	Water	P0912274-10	17 Dec. 09 13:30	18 Dec. 09 12:13

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.094	0.025	ug/L	AM20GAX	12/22/09	rw
N Ethene	0.110	0.025	ug/L	AM20GAX	12/22/09	rw
N Methane	64.000	0.100	ug/L	AM20GAX	12/22/09	rw

N - NELAC certified analysis

Po912774

CDM

CHAIN-OF-CUSTODY

Date 12/17/09 Page 1 of 2

PROJECT INFORMATION

Project Manager: Pam Morrill

Project Name: Leatherwood

Project Number: 56498-68247

Site Location: Ellsworth Ave & W Mercer Pike Sampled By: MLF

DISPOSAL INFORMATION

☑ Lab Disposal (return if not indicated)

Disposal Method: ______

Disposed by: ______ Disposal Date: ______

QC INFORMATION (check one)

☐ SW-846 ☐ CLP ☐ Screening ☑ CDM Std. ☐ Special

Laboratory Number:

ANALYSIS REQUEST

PETROLEUM HYDROCARBONS: TPH-HCID State: / TPH-G State: / TPH-D State: / TPH-418.1 State: / 8015M Fuel Hydrocarbon / TPH Special Instructions

ORGANIC COMPOUNDS: 8010 Halogenated VOCs / 8020 Aromatic VOCs / 8020M - BETX only / 8240 GC/MS Volatiles / 8270 GC/MS Semivolatiles / 8310 PAHs / 8040 Phenols / DWS - Volatiles and Semivolatiles

PESTS/PCBs: 8080 OC Pest/PCBs / 8080M PCBs only / 8140 OP Pesticides / 8150 OC Herbicides / DWS - Herb/Pest

METALS: Selected Metals: list / Organic Lead (Ca) / TCL Metals (23) / Priority Poll. Metals (13) / DWS - Metals / MFSP - Metals (Wa)

LEACHING TESTS: TCLP - Volatiles (ZHE) / TCLP - Semivolatiles / TCLP - Pesticides / TCLP - Metals

OTHER: Methane Ethane Ethene

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Methane Ethane Ethene	NUMBER OF CONTAINERS
LC4R-12/09	12/16/09	0930	Water		✓	2
LC5R-12/09	12/16/09	1035	↓		✓	2
LC6-12/09	12/16/09	1145	↓		✓	2
LC3-12/09	12/16/09	1255	↓		✓	2
LC2-12/09	12/16/09	1500	↓		✓	2
LC1-12/09	12/17/09	0820	↓		✓	2
GT3-12/09	12/17/09	0930	↓		✓	2
GT2-12/09	12/17/09	1110	↓			2

LAB INFORMATION

Lab Name: Micro Seeps

Lab Address: 220 William Pitt Way, Pittsburgh PA

Via: Fed Ex Priority overnight

SAMPLE RECEIPT

Total Number of Containers:

Chain-of-Custody Seals: Y/N/NA

Intact?: Y/N/NA

Received in Good Condition/Cold:

Turn Around Time: ☑ Standard ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 1 wk.

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH DATA

Special Instructions:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Mary Lou Fox Time:	Signature: Time:	Signature: Time:
Printed Name: Mary Lou Fox Date: 12/17/09 1505	Printed Name: Date:	Printed Name: Date:
Company: CDM	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: 3.
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:

CDM P0112274

CHAIN-OF-CUSTODY

Date 12/17/09 Page 2 of 2

PROJECT INFORMATION

Project Manager: Pam Morrill
Project Name: Leatherdale
Project Number: 36498-68247
Site Location: Ellsworth Manor PA Sampled By: MLC

DISPOSAL INFORMATION

☑ Lab Disposal (return if not indicated)
Disposal Method: _____
Disposed by: _____ Disposal Date: _____

QC INFORMATION (check one)

☐ SW-846 ☐ CLP ☐ Screening ☑ CDM Std. ☐ Special

Laboratory Number:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
GT1-12/09	12/17/09	1220	Water	
GT20-12/09	12/17/09	1330	"	

PETROLEUM HYDROCARBONS	ORGANIC COMPOUNDS	PESTS/PCBs	METALS	LEACHING TESTS	OTHER	
TPH-HCID	8010 Halogenated VOCs	8080 OC Pest/PCBs	Selected Metals: list	TCLP - Volatiles (ZHE)	Methane Ethane Ethene	NUMBER OF CONTAINERS
TPH-G	8020 Aromatic VOCs	8080M PCBs only	Organic Lead (Ca)	TCLP - Semivolatiles		
TPH-D	8020M - BETX only	8140 OP Pesticides	TCL Metals (23)	TCLP - Pesticides		
TPH-418.1	8240 GC/MS Volatiles	8150 OC Herbicides	Priority Poll. Metals (13)	TCLP - Metals		
8015M Fuel Hydrocarbon	8270 GC/MS Semivolatiles	DWS - Herb/Pest	DWS - Metals			
TPH Special Instructions	8310 PAHs		MFSP - Metals (Wa)			
State:	8040 Phenols					
State:	DWS - Volatiles and Semivolatiles					
State:						
State:						

GT1-12/09: ✓ Methane Ethane Ethene; NUMBER OF CONTAINERS: 2
GT20-12/09: ✓; NUMBER OF CONTAINERS: 2

LAB INFORMATION

Lab Name: MicroSeeps
Lab Address: 220 William Pitt Way
Pittsburgh PA 15238
Via: FedEx priority overnight

SAMPLE RECEIPT

Total Number of Containers:
Chain-of-Custody Seals: Y/N/NA
Intact?: Y/N/NA
Received in Good Condition/Cold:

Turn Around Time: ☐ Standard ☑ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 1 wk.

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH DATA

Special Instructions:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Mary Lou Fox Time: 1750	Signature: Time:	Signature: Time:
Printed Name: Mary Lou Fox Date: 12/17/09	Printed Name: Date:	Printed Name: Date:
Company: CDM	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:

JAN 04 2010

Client Name: Camp Dresser and McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Page: Page 1 of 3
Lab Proj #: P0912349
Report Date: 12/31/09
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Laboratory Results

Total pages in data package: 4

Lab Sample #	Client Sample ID
P0912349-01	LC4R-12/09
P0912349-02	LC5R-12/09

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Debbie Hallo ***Date:*** 12/31/09

Project Manager: Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

Case Narrative:

Client Name: Camp Dresser and McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P0912349
Report Date: 12/31/09
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
LC4R-12/09	Water	P0912349-01	16 Dec. 09 9:30	28 Dec. 09 16:04

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	2.500	0.025	ug/L	AM20GAX	12/30/09	rw
N Ethene	0.870	0.025	ug/L	AM20GAX	12/30/09	rw
N Methane	5000.000	0.100	ug/L	AM20GAX	12/30/09	rw

N - NELAC certified analysis

Client Name: Camp Dresser and McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P0912349
Report Date: 12/31/09
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
LC5R-12/09	Water	P0912349-02	16 Dec. 09 10:35	28 Dec. 09 16:04

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.820	0.025	ug/L	AM20GAX	12/30/09	rw
N Ethene	0.440	0.025	ug/L	AM20GAX	12/30/09	rw
N Methane	1300.000	0.100	ug/L	AM20GAX	12/30/09	rw

N - NELAC certified analysis

CDM

~~P0912274~~ P0912349

CHAIN-OF-CUSTODY

Date 12/17/09 Page 1 of 2

PROJECT INFORMATION

Project Manager: Pam Morrill
Project Name: Leatherwood
Project Number: 56498-68247
Site Location: [illegible] Sampled By: MLF

DISPOSAL INFORMATION

☑ Lab Disposal (return if not indicated)

Disposal Method: ______

Disposed by: ______ Disposal Date: ______

QC INFORMATION (check one)

☐ SW-846 ☐ CLP ☐ Screening ☑ CDM Std. ☐ Special

Laboratory Number:

ANALYSIS REQUEST

PETROLEUM HYDROCARBONS: TPH-HCID State:; TPH-G State:; TPH-D State:; TPH-418.1 State:; 8015M Fuel Hydrocarbon; TPH Special Instructions

ORGANIC COMPOUNDS: 8010 Halogenated VOCs; 8020 Aromatic VOCs; 8020M - BETX only; 8240 GC/MS Volatiles; 8270 GC/MS Semivolatiles; 8310 PAHs; 8040 Phenols; DWS - Volatiles and Semivolatiles

PESTS/PCBs: 8080 OC Pest/PCBs; 8080M PCBs only; 8140 OP Pesticides; 8150 OC Herbicides; DWS - Herb/Pest

METALS: Selected Metals: list; Organic Lead (Ca); TCL Metals (23); Priority Poll. Metals (13); DWS - Metals; MFSP - Metals (Wa)

LEACHING TESTS: TCLP - Volatiles (ZHE); TCLP - Semivolatiles; TCLP - Pesticides; TCLP - Metals

OTHER: Methane, Ethane, Ethene

	SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Methane, Ethane, Ethene	NUMBER OF CONTAINERS
1	LC4R-12/09	12/16/09	0930	Water		✓	2
2	LC5R-12/09	12/16/09	1035	↓		✓	2
3	LC6-12/09	12/16/09	1145	↓		✓	2
4	LC3-12/09	12/16/09	1255	↓		✓	2
5	LC2-12/09	12/16/09	1500	↓		✓	2
6	LC1-12/09	12/17/09	0820	↓		✓	2
7	GT3-12/09	12/17/09	0930	↓		✓	2
8	GT2-12/09	12/17/09	1110	↓		✓	2

LAB INFORMATION

Lab Name: Micro Seeps
Lab Address: 220 William Pitt Way, Pittsburgh PA
Via: Fed Ex Priority overnight
Turn Around Time: ☑ Standard ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 1 wk.

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH DATA

Special Instructions:

SAMPLE RECEIPT

Total Number of Containers:
Chain-of-Custody Seals: Y/N/NA
Intact?: Y/N/NA
Received in Good Condition/Cold:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Mary Lou Fox Time: 1500	Signature: Time:	Signature: Time:
Printed Name: Mary Lou Fox Date: 12/17/09	Printed Name: Date:	Printed Name: Date:
Company: CDM	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: 3.
Signature: [illegible] Time: 1000	Signature: Time:	Signature: Time:
Printed Name: Date: 12/18	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:

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