

Whitman
Environmental Sciences

5508 35th Avenue NE, Suite 108
Seattle, Washington 98105

Phone: (206) 523-3505 Fax: (206) 523-0224
Whitenviro@yahoo.com

release 3559
I o M associates (fuji
auto)
Mercer Island

November 17, 2004

Tully's Coffee, Inc.
3100 Airport Way South
Seattle, Washington 98134

Attention: Ms. Kate Hasz

Subject: Groundwater Monitoring
7810 SE 27th Street
Mercer Island, Washington

Dear Ms. Hasz:

As you are aware, WES has conducted groundwater monitoring at the Mercer Island Tully's site as part of the operation of the remediation system on the property. This letter is to report the results of our sampling and update the status of the vapor extraction system (VES).

GROUNDWATER MONITORING

WES obtained groundwater samples from the site monitoring wells between October 28th and November 2nd, 2004. Figure 1, attached, indicates the well locations on the property. All eight accessible monitoring wells were sampled during this monitoring event. The wells at this site can typically be purged of all of the standing water, then recharge slowly. As in prior sampling rounds, not all wells recharge enough to be sampled. Only a limited amount of recharge occurred in well V-5, so there was not sufficient volume to conduct all of the proposed laboratory analyses on this sample.

The samples were obtained using disposable polyethylene bailers that had been factory decontaminated. Samples were taken following proper environmental sampling techniques and protocols. The wells were purged of standing water then allowed to recharge several times before sampling. Samples were placed in laboratory prepared bottles, chilled and held under chain of custody until delivered to the laboratory. The samples were submitted to CCI Analytical Laboratories, Inc. for testing.

Each sample was analyzed by Washington accepted method NWTPH-G for total petroleum hydrocarbons (TPH) in the gasoline range, as well as the volatile aromatic BTEX compounds commonly associated with gasoline. Seven of the samples were also tested for total petroleum hydrocarbons in the diesel and oil ranges by Washington accepted method NWTPH-D(x). One sample, from monitoring well V-1, was tested for a list of 43 halogenated volatile organic compounds (solvents) by EPA Method 8260. This test was conducted since a former dry cleaner was located on the adjacent property to the west. That property is currently undergoing cleanup, in part due to releases of halogenated solvents.

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Laboratory Analytical Results

The results of laboratory testing and Washington State cleanup criteria are summarized in Table 1. The laboratory reports of the analytical results are attached.

Seven of the eight samples were found to contain at least a small amount of one or more of the analytical parameters. Only monitoring well A-2, in the southwestern corner of the property, did not contain any detectable concentrations of petroleum hydrocarbons. The sample from monitoring well V-1 did not contain detectable concentrations of any of the 43 halogenated solvents on the analytical parameter list.

The results indicate the samples from six of the eight wells contained evidence of petroleum hydrocarbon contamination that exceeds current Washington Model Toxics Control Act (MTCA) cleanup criteria for groundwater.

Four of the wells (V-1, V-2, V-4 and V-7) contained diesel range TPH concentrations of 0.18 to 9 milligrams per liter, (units equivalent to parts per million (ppm)). The samples from monitoring wells V-1 and V-4 were at concentrations of 9.0 and 1.3 ppm, respectively, which exceed the current MTCA groundwater cleanup criteria of 0.5 ppm for diesel or oil range TPH.

Oil range hydrocarbons were only detected in the sample from monitoring well V-1, at a concentration of 16 ppm. This well has in the past collected a floating layer of viscous oil, and has not been sampled in prior monitoring events. The floating oil no longer appears in the monitoring well, but the groundwater continues to show evidence of oil impacts in this location. The reported concentration exceeds the current MTCA groundwater cleanup criteria of 0.5 ppm.

Other than well A-2, the samples all contained concentrations of gasoline range TPH, ranging from 0.18 to 130 ppm. The samples from monitoring wells V-1, V-2, V-4, and V-6 exceeded the MTCA groundwater cleanup criteria of 0.8 ppm for gasoline range TPH.

Benzene was detected in five of the samples at concentrations from 0.011 to 13 ppm. All five of the samples, from monitoring wells V-2, V-4, V-5, V-6 and V-7 exceeded the MTCA groundwater cleanup criteria of 0.005 ppm. These samples also contained concentrations of toluene, ethylbenzene and/or total xylenes. Toluene concentrations ranged from 0.004 to 22 ppm, with the samples from monitoring wells V-2 and V-6 exceeding MTCA groundwater criteria of 1.0 ppm. Toluene was not detected in the sample from V-5. Ethylbenzene concentrations ranged from 0.003 to 2.1 ppm, but only the sample from monitoring well V-6 exceeded the MTCA groundwater cleanup criteria of 0.7 ppm. Xylenes concentrations ranged from 0.006 to 17 ppm, with the samples from monitoring wells V-2, V-4 and V-6 exceeding the MTCA cleanup criteria of 1.0 ppm.

The sample from well V-6, located to the northeast of the building, contained the highest concentrations of all the detected gasoline and volatile organic compounds.

The results indicate that groundwater at the site remains impacted by petroleum. However, this round of testing found concentrations to be significantly lower than those found in the October 2002 sampling. However, the current testing found two wells (V-2, and V-4) had notably higher concentrations than reported in February 2004. Table 2 compares the current analytical findings with the results of the 2002 and February 2004 testing (in the wells that could be sampled at those times).

The differences in the analytical results could be indicative of progress in the remediation of the site, changes in groundwater concentrations from the different levels of seasonal precipitation, natural attenuation, or other unknown factors. From an operational standpoint, the results indicate that additional cleanup is warranted, but the decreases in groundwater concentrations since 2002 suggest the current cleanup activities are having a positive effect. Additional groundwater monitoring should be conducted in the future to help demonstrate any trends in the concentrations of groundwater contaminants.

Groundwater Elevations

As part of this monitoring event, WES measured the depth to groundwater in all eight of the monitoring wells on October 28th, 2004. The measurements were obtained before any of the wells were purged of standing groundwater. A measuring point was selected on the top lip of each well, and the relative elevations of the measuring point were established by a site leveling survey. The top-of-pipe elevations were set relative to a survey point that has been marked on the retaining wall, near the southwestern corner of the property. For the purpose of this study, the reference point was set at an assumed elevation of 100.00. Table 3 summarizes the top-of-pipe elevation determined for each well, the depth to groundwater and the relative elevation of groundwater at each well.

The measurements show that groundwater elevations vary over the site. In general, groundwater will tend to migrate from higher elevations to areas where water is found at lower elevations. The water levels in wells V-2, V-4, V-5, V-6 and V-7 suggest that groundwater will migrate to the northeast across most of the site. However, the groundwater elevations in wells A-2, A-3 and V-1, all located in the southwestern part of the property, are inconsistent with this trend. They may reflect influences from a localized feature, such as buried utility trenches, or represent a groundwater divide on the site. Additional water level measurements will be obtained during future monitoring events to periodically evaluate the direction and gradient of groundwater migration.

VAPOR EXTRACTION SYSTEM STATUS

The Vapor Extraction System (VES) was upgraded in the Spring of 2003 and the system has operated continuously since that time. WES makes periodic maintenance visits to check the status of the system and drain the collected water from the condensate tank. At this time the system is operating properly.

As we have discussed, several upgrades will be completed before the end of 2004. The electrical control panel of the system is a remnant of the original VES system originally installed in about 1995. When the VES blower was replaced the internal electrical components of the panel were partially changed to support the new blower. However, the entire panel should be upgraded to be sure it meets current electrical codes, and to support a sump pump and filter system for the VES drop-out tank. The pump will make the VES more efficient and automate some of the routine maintenance tasks. These upgrades have been approved by Mr. Tice Hamblet of Tully's.

Tully's Coffee, Inc.
Groundwater Monitoring Results
7811 SE 27th Street, Mercer Island, Washington

November 17, 2004

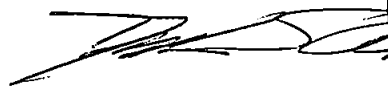
Page 4

CLOSURE

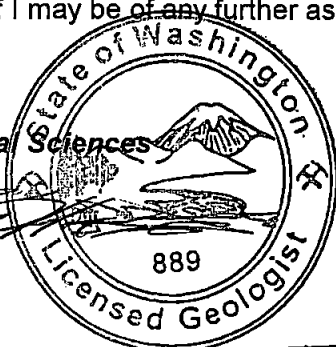
Thank you for the opportunity to be of service to you in this matter. If you have any questions regarding this letter, or if I may be of any further assistance, please feel free to contact me at your convenience.

Respectfully submitted,

Whitman Environmental Sciences

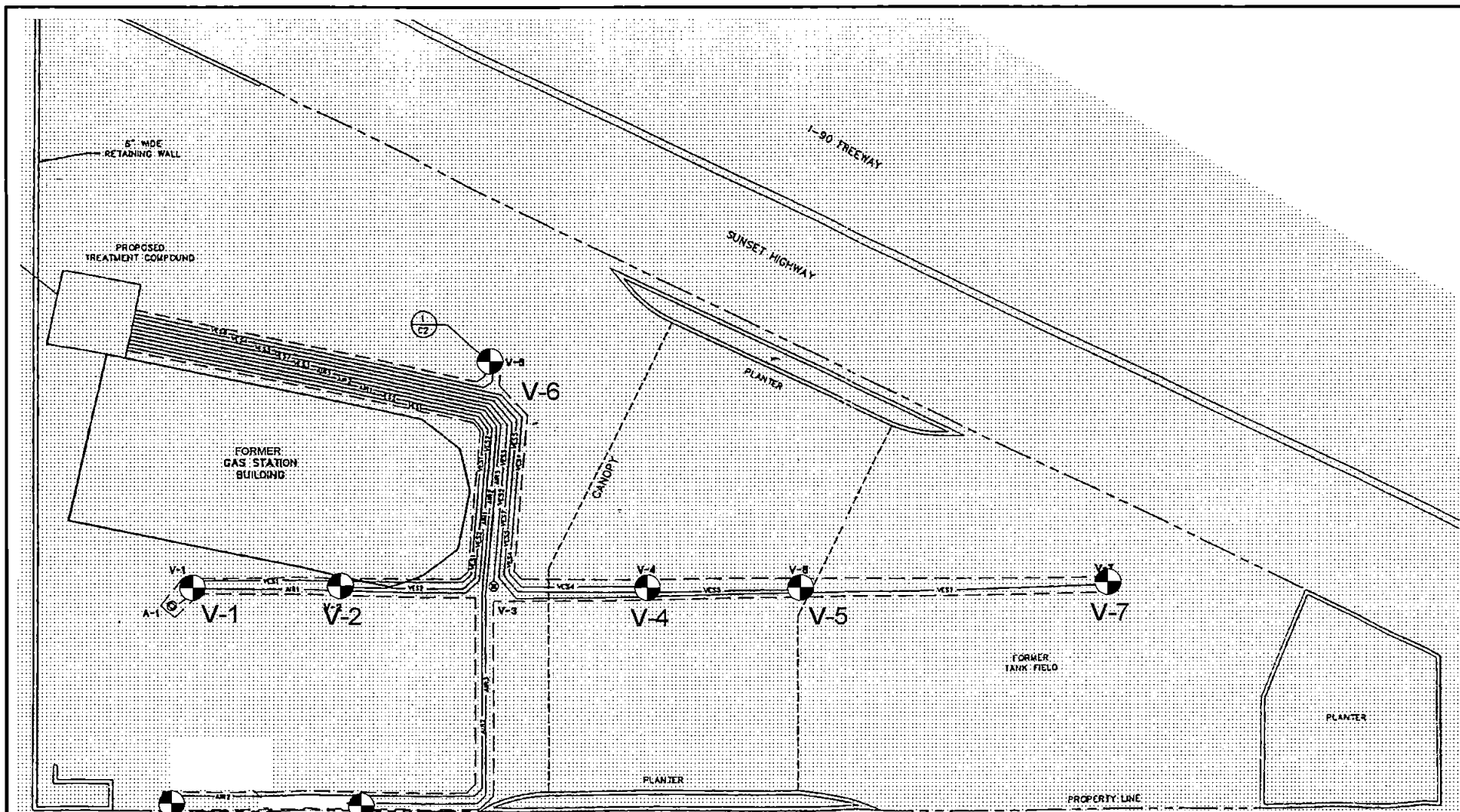


Daniel S. Whitman
Principal



DANIEL S. WHITMAN

Attachments: Figure 1 - Groundwater Sample Location Plan
 Table 1 - Groundwater Sample Analytical Results
 Table 2 - Comparison of Groundwater Sample Analytical Results
 October 2002, February and November 2004 Sampling Events
 Table 3 - Groundwater Level Measurements
 Laboratory Analytical Reports, CCI Analytical Laboratories, Inc.



Legend



October-November 2004 Groundwater Sample Locations



Scale 1" = Approx. 20 feet

North



Figure 1 - Groundwater Sample Location Plan

Tully's Coffee
7810 SE 27th Street
Mercer Island, Washington

Project No. WES - 1249

Date Nov 17, 2004

File ID. 1249F1

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Environmental Sciences

Table 1
Tully's Coffee Mercer Island Site
Groundwater Sample Analytical Results
October-November 2004 Sampling

Sample I.D.	Laboratory Analytical Results in mg/l (ppm)						
	TPH by EPA Method NWTPH-D(x)	Gasoline Range TPH (NWTPH-G)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Halogenated Solvents
A-2	Diesel - ND(<0.13) Oil - ND(<0.25)	ND (<0.05)	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.003)	NA
A-3	Diesel - ND(<0.13) Oil - ND(<0.25)	0.25	ND (<0.001)	ND (<0.001)	ND (<0.001)	0.006	ND (all)
V-1	<i>Diesel - 9.0</i> <i>Oil - 16.0</i>	<i>1.7</i>	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.003)	NA
V-2	Diesel - 0.3 Oil - ND(<0.25)	<i>37.0</i>	<i>3.1</i>	<i>6.7</i>	0.33	<i>4.9</i>	NA
V-4	Diesel - 1.3 Oil - ND(<0.25)	<i>20.0</i>	<i>3.0</i>	0.77	0.01	<i>4.1</i>	NA
V-5	NA	0.23	<i>0.011</i>	ND (<0.001)	0.008	0.032	NA
V-6	Diesel - ND(<0.25) Oil - ND(<0.25)	<i>130</i>	<i>13.0</i>	<i>22.0</i>	<i>2.1</i>	<i>17.0</i>	NA
V-7	Diesel - 0.18 Oil - ND(<0.25)	0.18	<i>0.025</i>	0.004	0.003	0.006	NA
<i>Model Toxics Control Act Method A Cleanup Level</i>	<i>0.5</i>	<i>0.800</i>	<i>0.005</i>	<i>1.000</i>	<i>0.700</i>	<i>1.000</i>	<i>Varies</i>

Table 1 Notes: NWTPH-D(x)- Total petroleum hydrocarbons by Northwest Method NWTPH-D extended for petroleum in the diesel fuel or oil ranges.
 NWTPH-G - Total Petroleum Hydrocarbons by Northwest Method NWTPH-G for petroleum in the gasoline range.
 BTEX Compounds by EPA Method 8021.
 Halogenated Solvents - A list of 43 individually identifiable halogenated organic compounds, tested by EPA Method 8260.
 ND (<X.X) - Not Detected by Analysis at levels above the noted reporting detection limit
 ND (all) - None of the analyzed parameters were detected at concentrations above the individual reporting limits.
 NA - Not analyzed. There was insufficient sample volume to conduct this analysis.
 Reported concentrations above Model Toxics Control Act Method A Cleanup Levels are shown in ***BOLD ITALIC***.

Table 2
Tully's Coffee Mercer Island Site
Summary of Current and Past Groundwater Sample Analytical Results

Sample I.D.	Sample Date	Laboratory Analytical Results in mg/l (ppm)					
		Diesel and Oil Range TPH*	Gasoline Range TPH (NWTPH-G)	Benzene	Toluene	Ethylbenzene	Total Xylenes
A-2	10/17/2002	ND (<5)*	ND (<0.1)	0.00319	ND (<0.001)	ND (<0.001)	ND (<0.002)
	2/12/2004	Diesel: 2.0 Oil: ND (<0.27)	0.62	0.005	0.003	0.040	0.007
	10/28/2004	Diesel - ND(<0.13) Oil - ND(<0.25)	ND (<0.05)	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.003)
A-3	10/17/2002	ND (<5)*	1.37	1.97	0.00984	0.162	0.0584
	1/19/2004	NA	1.4	0.410	0.006	0.050	0.067
	10/28/2004	Diesel - ND(<0.13) Oil - ND(<0.25)	0.25	ND (<0.001)	ND (<0.001)	ND (<0.001)	0.006
V-2	2/12/2004	Diesel: 0.43 Oil: ND (<0.27)	ND (<0.050)	0.009	0.002	ND (<0.001)	0.003
	10/28/2004	Diesel - 0.3 Oil - ND(<0.25)	37.0	3.1	6.7	0.33	4.9
V-4	10/17/2002	NA	36.5	1.63	4.09	2.65	5.76
	2/12/2004	Diesel: 4.4 Oil: ND (<0.27)	1.2	0.140	0.052	0.010	0.230
	10/28/2004	Diesel - 1.3 Oil - ND(<0.25)	20.0	3.0	0.77	0.01	4.1

Table 2 (Continued)
Tully's Coffee Mercer Island Site

WES-1249

Summary of Historical Groundwater Sample Analytical Results

Page 2

Sample I.D.	Sample Date	Laboratory Analytical Results in mg/l (ppm)					
		Diesel and Oil Range TPH*	Gasoline Range TPH (NWTPH-G)	Benzene	Toluene	Ethylbenzene	Total Xylenes
V-5	10/17/2002	ND (<5)*	107	2.22	1.2	1.17	6.56
	2/12/2004	Diesel: 3.4 Oil: ND (<0.27)	1.5	0.067	0.022	0.043	0.31
	10/28/2004	NA	0.23	0.011	ND (<0.001)	0.008	0.032
V-6	1 /19/2004	Diesel: 37 Oil: ND (<2.5)	130	13	22	4.3	24
	10/28/2004	Diesel - ND(<0.25) Oil - ND(<0.25)	130	13.0	22.0	2.1	17.0
V-7	2/12/2004	Diesel: 0.19 Oil: ND (<0.27)	0.059	0.002	ND (<0.001)	ND (<0.001)	0.003
	10/28/2004	Diesel - 0.18 Oil - ND(<0.25)	0.18	0.025	0.004	0.003	0.006
Model Toxics Control Act Method A Cleanup Level		0.5	0.800	0.005	1.000	0.700	1.000

Table 3 Notes:

*October 2002 testing for Diesel and Oil Range total petroleum hydrocarbons conducted by EPA Method 1664 (gravimetric method), not directly comparable to the results of February and November 2004 analyses, by Washington Method NWTPH-D(x).

NWTPH -G - Total Petroleum Hydrocarbons by Northwest Method NWTPH-G for petroleum in the gasoline range.

ND (<X.X) - Not Detected by Analysis at levels above the noted detection reporting limit.

NA - Not analyzed. There was insufficient sample volume to conduct this analysis.

Reported concentrations above Model Toxics Control Act Method A Cleanup Levels are shown in **BOLD ITALIC**.

Table 3
Summary of Groundwater Level Data
 Tully's Coffee Site
 Mercer Island, Washington

Monitoring Well	Date Measured	Water Level Relative to Top of Pipe	Top of Pipe Elevation*	Groundwater Elevation*	Comments
A-2	10-28-2004	-12.00	98.62	86.62	
A-3	10-28-2004	-15.18	98.46	83.28	
V-1	10-28-2004	-14.40	99.76	85.36	
V-2	10-28-2004	-10.53	100.64	90.11	
V-4	10-28-2004	-11.34	99.76	88.42	
V-5	10-28-2004	-12.70	99.93	87.23	
V-6	10-28-2004	-11.78	100.71	88.93	
V-7	10-28-2004	-12.95	99.55	86.60	

* Top of Pipe and Groundwater Elevations relative to an on-site reference point on the retaining wall near the southwestern corner of the property. Reference point assigned elevation of 100.00 for the purposes of this study.



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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: WHITMAN ENVIRONMENTAL SCIENCES
5508 35TH AVE NE
SEATTLE, WA 98105

DATE: 11/8/04
CCIL JOB #: 411003
CCIL SAMPLE #: 1
DATE RECEIVED: 11/1/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DAN WHITMAN

CLIENT PROJECT ID: WES-1249 TMI
CLIENT SAMPLE ID: A-2 10/28/04 3:00

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	UG/L	11/2/04	LAH
BENZENE	EPA-8021	ND(<1)	UG/L	11/2/04	LAH
TOLUENE	EPA-8021	ND(<1)	UG/L	11/2/04	LAH
ETHYLBENZENE	EPA-8021	ND(<1)	UG/L	11/2/04	LAH
XYLENES	EPA-8021	ND(<3)	UG/L	11/2/04	LAH
TPH-DIESEL RANGE	NWTPH-DX W/CLEANUP	ND	UG/L	11/2/04	DLC
TPH-LUBE OIL RANGE	NWTPH-DX W/CLEANUP	ND	UG/L	11/2/04	DLC

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:

GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 50 UG/L

DIESEL RANGE REPORTING LIMIT IS 130 UG/L

LUBE OIL RANGE REPORTING LIMIT IS 250 UG/L

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

APPROVED BY: 



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: WHITMAN ENVIRONMENTAL SCIENCES
5508 35TH AVE NE
SEATTLE, WA 98105

DATE: 11/8/04
CCIL JOB #: 411003
CCIL SAMPLE #: 2
DATE RECEIVED: 11/1/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DAN WHITMAN

CLIENT PROJECT ID: WES-1249 TMI
CLIENT SAMPLE ID: A-3 10/28/04 3:00

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	250	UG/L	11/2/04	LAH
BENZENE	EPA-8021	ND(<1)	UG/L	11/2/04	LAH
TOLUENE	EPA-8021	ND(<1)	UG/L	11/2/04	LAH
ETHYLBENZENE	EPA-8021	ND(<1)	UG/L	11/2/04	LAH
XYLENES	EPA-8021	6	UG/L	11/2/04	LAH
TPH-DIESEL RANGE	NWTPH-DX W/CLEANUP	ND	UG/L	11/2/04	DLC
TPH-LUBE OIL RANGE	NWTPH-DX W/CLEANUP	ND	UG/L	11/2/04	DLC

NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT WHICH IS LIKELY HIGHLY WEATHERED GASOLINE

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:
GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 50 UG/L
DIESEL RANGE REPORTING LIMIT IS 130 UG/L
LUBE OIL RANGE REPORTING LIMIT IS 250 UG/L

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

APPROVED BY: 



CERTIFICATE OF ANALYSIS

CLIENT: WHITMAN ENVIRONMENTAL SCIENCES
5508 35TH AVE NE
SEATTLE, WA 98105

DATE: 11/8/04
CCIL JOB #: 411003
CCIL SAMPLE #: 3
DATE RECEIVED: 11/1/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DAN WHITMAN

CLIENT PROJECT ID: WES-1249 TMI
CLIENT SAMPLE ID: V-1 10/28/04 3:00

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	1700	UG/L	11/5/04	LAH
BENZENE	EPA-8021	ND(<1)	UG/L	11/5/04	LAH
TOLUENE	EPA-8021	ND(<1)	UG/L	11/5/04	LAH
ETHYLBENZENE	EPA-8021	ND(<1)	UG/L	11/5/04	LAH
XYLENES	EPA-8021	ND(<3)	UG/L	11/5/04	LAH
TPH-DIESEL RANGE	NWTPH-DX W/CLEANUP	9000	UG/L	11/2/04	DLC
TPH-LUBE OIL RANGE	NWTPH-DX W/CLEANUP	16000	UG/L	11/2/04	DLC
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	11/2/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN



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CLIENT: WHITMAN ENVIRONMENTAL SCIENCES
5508 35TH AVE NE
SEATTLE, WA 98105

DATE: 11/8/04
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CLIENT CONTACT: DAN WHITMAN

CLIENT PROJECT ID: WES-1249 TMI
CLIENT SAMPLE ID: V-1 10/28/04 3:00

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	11/2/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
HEXACHLOROBUTADIENE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/2/04	CCN

NOTES: CHROMATOGRAM INDICATES SAMPLE CONTAINS UNIDENTIFIED VOLATILE RANGE PRODUCT,
UNIDENTIFIED DIESEL RANGE PRODUCT AND LUBE OIL
VOLATILE RANGE RESULT BIASED HIGH DUE TO SEMIVOLATILE RANGE PRODUCT OVERLAP
DIESEL RANGE RESULT BIASED HIGH DUE TO VOLATILE RANGE PRODUCT OVERLAP

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:

GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 50 UG/L

DIESEL RANGE REPORTING LIMIT IS 250 UG/L

LUBE OIL RANGE REPORTING LIMIT IS 500 UG/L

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

APPROVED BY:



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: WHITMAN ENVIRONMENTAL SCIENCES
5508 35TH AVE NE
SEATTLE, WA 98105

DATE: 11/8/04
CCIL JOB #: 411003
CCIL SAMPLE #: 4
DATE RECEIVED: 11/1/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DAN WHITMAN

CLIENT PROJECT ID: WES-1249 TMI
CLIENT SAMPLE ID: V-2 10/28/04 3:00

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	37000	UG/L	11/3/04	LAH
BENZENE	EPA-8021	3100	UG/L	11/3/04	LAH
TOLUENE	EPA-8021	6700	UG/L	11/3/04	LAH
ETHYLBENZENE	EPA-8021	330	UG/L	11/3/04	LAH
XYLENES	EPA-8021	4900	UG/L	11/3/04	LAH
TPH-DIESEL RANGE	NWTPH-DX W/CLEANUP	300	UG/L	11/3/04	DLC
TPH-LUBE OIL RANGE	NWTPH-DX W/CLEANUP	ND	UG/L	11/3/04	DLC

NOTES: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCTS ARE LIGHTLY WEATHERED GASOLINE
AND UNIDENTIFIED DIESEL RANGE PRODUCT
DIESEL RANGE RESULT BIASED HIGH DUE TO VOLATILE RANGE PRODUCT OVERLAP

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:
GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 2500 UG/L
DIESEL RANGE REPORTING LIMIT IS 130 UG/L
LUBE OIL RANGE REPORTING LIMIT IS 250 UG/L

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

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: WHITMAN ENVIRONMENTAL SCIENCES
5508 35TH AVE NE
SEATTLE, WA 98105

DATE: 11/8/04
CCIL JOB #: 411003
CCIL SAMPLE #: 5
DATE RECEIVED: 11/1/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DAN WHITMAN

CLIENT PROJECT ID: WES-1249 TMI
CLIENT SAMPLE ID: V-4 10/28/04 3:00

DATA RESULTS

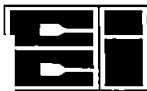
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	20000	UG/L	11/3/04	LAH
BENZENE	EPA-8021	3000	UG/L	11/3/04	LAH
TOLUENE	EPA-8021	770	UG/L	11/3/04	LAH
ETHYLBENZENE	EPA-8021	10	UG/L	11/2/04	LAH
XYLENES	EPA-8021	4100	UG/L	11/3/04	LAH
TPH-DIESEL RANGE	NWTPH-DX W/CLEANUP	1300	UG/L	11/3/04	DLC
TPH-LUBE OIL RANGE	NWTPH-DX W/CLEANUP	ND	UG/L	11/3/04	DLC

NOTES: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCTS ARE WEATHERED GASOLINE
AND UNIDENTIFIED DIESEL RANGE PRODUCT
DIESEL RANGE RESULT BIASED HIGH DUE TO VOLATILE RANGE PRODUCT OVERLAP

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:
GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 2500 UG/L
DIESEL RANGE REPORTING LIMIT IS 130 UG/L
LUBE OIL RANGE REPORTING LIMIT IS 250 UG/L

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

APPROVED BY: 



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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: WHITMAN ENVIRONMENTAL SCIENCES
5508 35TH AVE NE
SEATTLE, WA 98105

DATE: 11/8/04
CCIL JOB #: 411003
CCIL SAMPLE #: 6
DATE RECEIVED: 11/1/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DAN WHITMAN

CLIENT PROJECT ID: WES-1249 TMI
CLIENT SAMPLE ID: V-6 10/28/04 7:15

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	130000	UG/L	11/3/04	LAH
BENZENE	EPA-8021	13000	UG/L	11/3/04	LAH
TOLUENE	EPA-8021	22000	UG/L	11/3/04	LAH
ETHYLBENZENE	EPA-8021	2100	UG/L	11/3/04	LAH
XYLENES	EPA-8021	17000	UG/L	11/3/04	LAH

NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT WHICH IS LIKELY LIGHTLY WEATHERED GASOLINE

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:
GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 10000 UG/L

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

APPROVED BY:



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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: WHITMAN ENVIRONMENTAL SCIENCES
5508 35TH AVE NE
SEATTLE, WA 98105

DATE: 11/8/04
CCIL JOB #: 411003

DATE RECEIVED: 11/1/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DAN WHITMAN

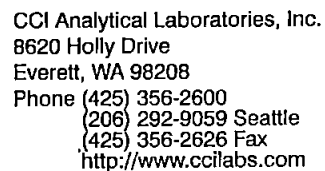
CLIENT PROJECT ID: WES-1249 TMI

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
411003-01	NWTPH-GX	TFT	117
411003-01	EPA-8021	TFT	106
411003-01	NWTPH-DX W/CLEANUP	C25	89
411003-02	NWTPH-GX	TFT	109
411003-02	EPA-8021	TFT	111
411003-02	NWTPH-DX W/CLEANUP	C25	101
411003-03	NWTPH-GX	TFT	107
411003-03	EPA-8021	TFT	102
411003-03	NWTPH-DX W/CLEANUP	C25	133
411003-03	EPA-8260	1,2-DCE-d4	97
411003-03	EPA-8260	4-BFB	103
411003-04	NWTPH-GX	TFT	106
411003-04	EPA-8021	TFT	107
411003-04	NWTPH-DX W/CLEANUP	C25	94
411003-05	NWTPH-GX	TFT	103
411003-05	EPA-8021	TFT	105
411003-05 (ETHYLBENZENE)	EPA-8021	TFT	104
411003-05	NWTPH-DX W/CLEANUP	C25	66
411003-06	NWTPH-GX	TFT	101
411003-06	EPA-8021	TFT	101

APPROVED BY: 



Chain Of Custody/ Laboratory Analysis Request

CCJ Job# (Laboratory Use Only)

41502

Date_____ Page_____ Of _____

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SPECIAL INSTRUCTIONS

VOA's not achieved

CCI Analytical Laboratories, Inc accepts and processes this request on the terms and conditions set forth on the reverse side. By its signature hereon, Customer accepts these terms and conditions.

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: [Signature]

Received By:

2. Relinquished By:

Organic, Metals & Inorganic Analysis

OTHER:

Specify: _____

Fuels & Hydrocarbon Analysis

Rec 3y:

...est les... dard... Rus... s

REPORT COPY

CERTIFICATE OF ANALYSIS

CLIENT: WHITMAN ENVIRONMENTAL SCIENCES
5508 35TH AVE NE
SEATTLE, WA 98105

DATE: 11/12/04
CCIL JOB #: 411034
CCIL SAMPLE #: 1
DATE RECEIVED: 11/5/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DAN WHITMAN

CLIENT PROJECT ID: WES 1249 TMI
CLIENT SAMPLE ID: V-7 11/3/04 5:00

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	180	UG/L	11/9/04	LAH
BENZENE	EPA-8021	25	UG/L	11/9/04	LAH
TOLUENE	EPA-8021	4	UG/L	11/9/04	LAH
ETHYLBENZENE	EPA-8021	3	UG/L	11/9/04	LAH
XYLENES	EPA-8021	6	UG/L	11/9/04	LAH
TPH-DIESEL RANGE	NWTPH-DX W/CLEANUP	180	UG/L	11/9/04	DLC
TPH-LUBE OIL RANGE	NWTPH-DX W/CLEANUP	ND	UG/L	11/9/04	DLC

NOTES: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT WHICH IS LIKELY WEATHERED GASOLINE
AND UNIDENTIFIED DIESEL RANGE PRODUCTS

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:
GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 50 UG/L
DIESEL RANGE REPORTING LIMIT IS 130 UG/L
LUBE OIL RANGE REPORTING LIMIT IS 250 UG/L

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

APPROVED BY:





CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: WHITMAN ENVIRONMENTAL SCIENCES
5508 35TH AVE NE
SEATTLE, WA 98105

DATE: 11/12/04
CCIL JOB #: 411034
CCIL SAMPLE #: 2
DATE RECEIVED: 11/5/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DAN WHITMAN

CLIENT PROJECT ID: WES 1249 TMI
CLIENT SAMPLE ID: V-6 11/3/04 4:10

DATA RESULTS

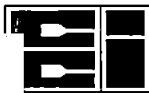
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-DIESEL RANGE	NWTPH-DX W/CLEANUP	ND	UG/L	11/8/04	DLC
TPH-LUBE OIL RANGE	NWTPH-DX W/CLEANUP	ND	UG/L	11/8/04	DLC

NOTE: REPORTING LIMIT RAISED DUE TO OVERLAP FROM VOLATILE RANGE

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:
DIESEL RANGE REPORTING LIMIT IS 250 UG/L
LUBE OIL RANGE REPORTING LIMIT IS 250 UG/L

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

APPROVED BY:



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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: WHITMAN ENVIRONMENTAL SCIENCES
5508 35TH AVE NE
SEATTLE, WA 98105

DATE: 11/12/04
CCIL JOB #: 411034
CCIL SAMPLE #: 3
DATE RECEIVED: 11/5/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DAN WHITMAN

CLIENT PROJECT ID: WES 1249 TMI
CLIENT SAMPLE ID: V-5 11/3/04 5:20

DATA RESULTS

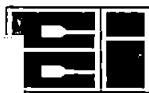
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	230	UG/L	11/9/04	LAH
BENZENE	EPA-8021	11	UG/L	11/9/04	LAH
TOLUENE	EPA-8021	ND(<1)	UG/L	11/9/04	LAH
ETHYLBENZENE	EPA-8021	8	UG/L	11/9/04	LAH
XYLENES	EPA-8021	32	UG/L	11/9/04	LAH

NOTES: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT WHICH IS LIKELY WEATHERED GASOLINE

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:
GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 50 UG/L
DIESEL RANGE REPORTING LIMIT IS 130 UG/L
LUBE OIL RANGE REPORTING LIMIT IS 250 UG/L

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

APPROVED BY: 



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: WHITMAN ENVIRONMENTAL SCIENCES
5508 35TH AVE NE
SEATTLE, WA 98105

DATE: 11/12/04
CCIL JOB #: 411034

DATE RECEIVED: 11/5/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DAN WHITMAN

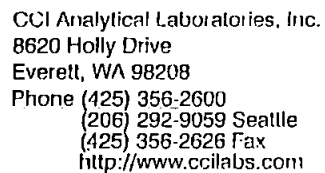
CLIENT PROJECT ID: WES 1249 TMI

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
411034-01	NWTPH-GX	TFT	103
411034-01	EPA-8021	TFT	100
411034-01	NWTPH-DX W/CLEANUP	C25	69
411034-02	NWTPH-DX W/CLEANUP	C25	80
411034-03	NWTPH-GX	TFT	107
411034-03	EPA-8021	TFT	97

APPROVED BY:



Chain Of Custody/ Laboratory Analysis Request

GGI Job# (Laboratory Use Only)

411034

Dale

Page

Of

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SPECIAL INSTRUCTIONS

CCI Analytical Laboratories, Inc. accepts and processes this request on the terms and conditions set forth on the reverse side. By its signature hereon, Customer accepts these terms and conditions.

SIGNATURES (Name, Company, Date, Time):

TURNAROUND REQUESTED in Business Days*

1. Relinquished By:

Received By:

2. Relinquished By:

Organic, Metals & Inorganic Analysis

OTHER:

Specify:

Fuels & Hydrocarbon Analysis

10	5	3	2	1	CASE NO.
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3

Whitman
Environmental Sciences

5508 35th Avenue NE, Suite 108
Seattle, Washington 98105

Phone: (206) 523-3505

Fax: (206) 523-0224

LETTER OF TRANSMITTAL

Date: November 22, 2004

Project No.: WES-1249

RE: Groundwater Monitoring

Report

To: Washington Department of Ecology

Toxics Cleanup Program

3190 160th Avenue SE

Bellevue, WA 98008-5452

Via:

☒

Mail

☐

UPS

☐

Overnight

☐

Courier

☐

Hand Deliver

☐

Other

Please find enclosed the following documents:

No. of Copies	Date	Description
1	11/17/2004	Groundwater Monitoring Report, Former Fuji Auto Site 7810 SE 27 th Street, Mercer Island, WA

Message:

Enclosed is one copy of the current groundwater monitoring results at the former Fuji Auto Sales site, on Mercer Island.

Copies to: Ms. Kate Hasz, Tully's Coffee, Inc.

From:

Dan Whitman

RECEIVED
NOV 23 2004
DEPT OF ECOLOGY