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CLEANUP ACTION PROGRESS REPORT

FEBRUARY 2008

WHIDBEY MARINE & AUTO SUPPLY FACILITY
1689 MAIN STREET
FREELAND, WASHINGTON

Submitted by:
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Farallon PN: 454-001

For:
Whidbey Marine & Auto Supply
1689 Main Street
Freeland, Washington

March 10, 2008

Prepared by:

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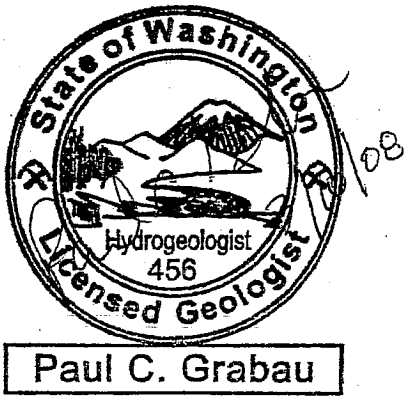

Reviewed by:

for:
Gerald J. Portele
Principal

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1.0 INTRODUCTION

Farallon Consulting, L.L.C. (Farallon) has prepared this progress report to document the status of the cleanup action related to the release of gasoline from the underground storage tank (UST) system at the Whidbey Marine & Auto Supply facility located at 1689 Main Street in Freeland, Washington (herein referred to as the Facility) (Figure 1). The cleanup action at the Facility is being conducted under the Washington State Department of Ecology (Ecology) Voluntary Cleanup Program. The Facility has been assigned Toxics Cleanup Program Identification Number NW1529.

This progress report presents the results of the December 2007 groundwater monitoring event at the Facility and a discussion of the overall progress of the cleanup action. The report also details the operation and maintenance (O&M) activities conducted from July 2007 through January 2008 for the soil vapor extraction (SVE) system that has been installed at the Facility. The SVE system consists of a regenerative blower and catalytic oxidizer (Catox) connected via subsurface piping to three SVE wells designated SVE-1, SVE-2S, and SVE-2D, and one dual purpose SVE/monitoring well designated MW-1 (Figure 2) .

The SVE system was installed to address the presence of gasoline-range petroleum hydrocarbons in vadose zone soil identified during soil and groundwater investigations conducted at the Facility in 2005 and 2006.

The progress report is organized as follows:

- Section 2 describes the methods and analytical results pertaining to the December 2007 groundwater monitoring event conducted at the Facility.
- Section 3 details the O&M activities conducted on the SVE system from July 16, 2007 through January 10, 2008.
- Section 4 provides Farallon's summary and conclusions pertaining to recent investigation, monitoring, and remediation activities conducted at the Facility, and recommendations for additional actions.

2.0 GROUNDWATER MONITORING

The groundwater monitoring conducted at the Facility on December 7, 2007 included obtaining depth to groundwater measurements and collecting groundwater samples from monitoring wells MW-1 through MW-4 (Figure 2). Monitoring well MW-5 was dry at the time of the December 2007 monitoring event. The December 2007 groundwater monitoring and sampling event was the fifth conducted following start-up of the SVE system in September 2006. Details of the field activities and the results for the December 2007 monitoring and sampling event are presented below.

2.1 FIELD METHODS

Prior to sampling, Farallon measured the depth to groundwater in each monitoring well using an electronic water-level indicator. The monitoring wells were opened and the water levels were allowed to equilibrate before measurement. The groundwater level in each monitoring well was measured to the surveyed reference point on the top of the well casing to derive the groundwater elevation at each location.

Prior to sampling, groundwater was purged from each monitoring well at a flow rate of approximately 200 milliliters per minute using a bladder pump. Field measurements were collected for pH, temperature, specific conductivity, dissolved oxygen, and oxidation/reduction potential during groundwater purging using a YSI Model 600XL water quality analyzer equipped with a flow-through cell. Groundwater samples were collected after the temperature, conductivity, and pH parameters stabilized. Stabilization was determined as a relative percent difference of less than 3 percent for temperature and conductivity, and a change of $\pm$0.1 pH unit between readings for three consecutive measurements. The samples were collected by pumping groundwater directly from each well through dedicated polyethylene tubing into laboratory-prepared containers. The samples were labeled, placed on ice, and transported to CCI Analytical Laboratories, Inc. in Everett, Washington for analysis following chain-of-custody protocols.

2.2 ANALYTICAL METHODS

The groundwater samples were analyzed for total petroleum hydrocarbons as gasoline-range organics (GRO) by Northwest Method NWTPH-Gx and for benzene, toluene, ethylbenzene, and xylenes (BTEX) by U.S. Environmental Protection Agency Method 8021B.

2.3 GROUNDWATER MONITORING RESULTS

Table 1 presents a summary of the groundwater elevation data for the Facility. A summary of the groundwater quality parameters measured in the field during sampling is summarized in Table 2. Table 3 presents the groundwater analytical results for December 2007 and previous quarterly monitoring events, including a comparison to the corresponding MTCA Method A groundwater cleanup levels. A copy of the laboratory analytical report for the December 7, 2007 groundwater monitoring event is provided in Appendix A.

2.3.1 Groundwater Elevation

Groundwater elevations measured at the Facility on December 7, 2007 ranged from 62.58 feet above mean sea level (msl) in monitoring well MW-2 to 64.17 feet above msl in monitoring well MW-1 (Table 1). Monitoring well MW-5 has been dry each time it has been monitored from the time it was installed in February 2007 through the December 2007 monitoring event. Groundwater elevations measured in monitoring wells MW-1 through MW-4 were 0.26 to 0.63 feet lower those measured during the previous monitoring event in June 2007. Figure 3 depicts the groundwater elevation contours for the Facility based on the water levels measured on December 7, 2007. As shown on Figure 3, the general groundwater flow direction at the Facility is to the west-northwest, with an average hydraulic gradient of approximately 0.02 foot per foot.

2.3.2 Analytical Results

The groundwater analytical data for the samples collected on December 7, 2007 are summarized in Table 3 along with the previous analytical results for samples collected at the Facility. GRO was detected in the groundwater sample collected from monitoring well MW-4 at a concentration of 39,000 micrograms/liter (μg/l) and in a duplicate sample from this location at 60,000 μg/l. These values exceed the MTCA Method A cleanup level for GRO in groundwater of 800 μg/l. GRO was detected at a concentration of 2,300 μg/l in the groundwater sample

collected from monitoring well MW-2. GRO was not detected above the MTCA Method A cleanup level in the groundwater samples collected from monitoring wells MW-1 or MW-3. This is the third consecutive groundwater monitoring event in which GRO was not detected above the MTCA Method A cleanup level at monitoring well MW-1, which was installed proximal to suspected source area.

BTEX constituents were detected above their respective MTCA Method A cleanup levels in the groundwater sample and/or duplicate sample collected from monitoring well MW-4. The detected concentrations were highest in the duplicate sample from monitoring well MW-4 with benzene detected at 9,500 µg/l, toluene at 18,000 µg/l, ethylbenzene at 710 µg/l, and total xylenes at 4,700 µg/l. However, the GRO and BTEX concentrations in the groundwater sample collected from monitoring well MW-4 were lower than those detected in the June 2007 monitoring event. The groundwater sample collected from monitoring well MW-2 contained benzene at a concentration of 7 µg/l, which is above the MTCA Method A cleanup level of 5 µg/l. No other BTEX constituents were detected above their respective MTCA Method A cleanup levels in the groundwater samples collected during the December 7, 2007 monitoring event.

2.3.3 Purge Water Handling

The purge water generated during the December 2007 monitoring event is being stored at the Facility in a 55-gallon drum. A total of approximately 5 gallons of purge and decontamination water was generated during the December 2007 sampling event.

3.0 SVE SYSTEM OPERATION AND MAINTENANCE ACTIVITIES

Continuous operation of the SVE system at the Facility began on September 13, 2006. SVE treatment system monitoring requirements are specified in the Order of Approval to Construct #960 issued by the Northwest Clean Air Agency. Weekly monitoring of the SVE system was conducted during the first month of operation, including measuring influent vapor concentrations with a photoionization detector (PID). PID measurements were supplemented with periodic colorimetric tube readings and/or laboratory analyses of influent vapor samples to further evaluate the effectiveness of the treatment system. During the period covered by this progress report, Facility visits were conducted by Farallon on July 16, August 16, September 14, October 18 and 22, November 9, and December 6 and 7, 2007; and January 10, 2008.

When Farallon mobilized to the Facility to conduct a routine monitoring event on October 18, 2007, the treatment system was not running and had apparently shut down several days earlier as a result of a power disruption during a wind storm. Due to fluctuating power associated with high winds, Farallon was unable to keep the system running following several attempts to restart. Farallon returned to monitor and troubleshoot the system on October 22, 2007 and successfully restarted the system. On November 9, 2007 Farallon arrived at the Facility and found that the treatment system was not operating. After consultation with H2Oil Inc. of Bend, Oregon, the manufacturer of the catalytic oxidizer, Farallon inspected the wiring and terminal connections in the heating unit and found that several wires had melted or were broken.

Emerald Electric, Inc. of Lake Stevens, Washington (Emerald) was contracted to repair the wiring. Specialized high temperature wiring and terminals were ordered by Emerald following an inspection of the system. Emerald performed electrical repairs to the treatment system on December 5, 2007, and Farallon restarted the system on December 6, 2007.

The remediation system was not operating when Farallon mobilized to the Facility for routine O&M activities on January 10, 2008. The system had apparently shut down due to a power disruption and was successfully restarted. The Facility owner notified Farallon that the system was off on January 14 and 15, 2008 due to a power failure. The system was restarted by Whidbey Marine & Auto Supply personnel on January 15, 2008.

The operating temperature for the catalyst beds in the Catox unit is set at 550 degrees Fahrenheit (°F), with the high temperature alarm set at 1,150°F. The catalyst bed temperatures recorded during Facility visits over this monitoring period ranged from 571 to 646°F. The SVE system operation monitoring data are summarized in Table 4.

The SVE system currently extracts soil vapor from each of the four SVE wells at the Facility. The system operates with the air dilution valve located upstream of the SVE blower fully closed so that all influent vapor to the Catox system is derived from the subsurface soil beneath the Facility. As measured with the PID, influent vapor concentrations to the Catox unit have ranged from 184 to 435 parts per million over this monitoring period, with treatment system air flow rates ranging from 135.1 to 210.3 standard cubic feet per minute. The system air flow rate is measured upstream of the SVE blower and downstream of the water knockout assembly.

Influent gasoline vapor concentrations to the Catox unit have ranged from less than 30 to 150 parts per million vapor over the monitoring period, as measured with colorimetric tubes for gasoline. The sampling pump for the colorimetric gas detection tubes appears to have been malfunctioning during the October 22 and December 6, 2007 monitoring events and has since been replaced. Influent vapor samples were collected for laboratory analysis on July 16, August 16, September 14, October 22, and December 6, 2007; and January 10, 2008 using Tedlar bags. The analytical results for the Tedlar bag influent vapor samples for GRO ranged from 230 to 440 µg/l. The GRO and BTEX analytical results for the influent vapor samples are provided in Table 5. Benzene concentrations for the Tedlar bag influent vapor samples ranged from 6 to 11 µg/l over the monitoring period covered by this report. Toluene concentrations in the influent vapor samples ranged from 10 to 32 µg/l, ethylbenzene concentrations ranged from 5 to 18 µg/l, and total xylenes concentrations ranged from 28 to 95 µg/l over the reporting period. Copies of the laboratory analytical reports are provided in Appendix A.

Based on the measured air flow and colorimetric tube results for influent vapor concentrations, contaminant removal rates ranging from 2.9 to 9.5 pounds per day were calculated over the

period of SVE system operation from July 16, 2007 to January 10, 2008[1]. Contaminant mass removal calculations and results are presented in Table 6. An estimated total mass of 10,412 pounds of gasoline-range petroleum hydrocarbon constituents have been removed in the period from system start-up through January 10, 2008.

[1] The contaminant removal rates for October and December 2007 and January 2008 were calculated using the laboratory analytical results for GRO rather than colorimetric tube results since the sampling pump for the colorimetric tubes was malfunctioning during those monitoring events.

4.0 SUMMARY AND CONCLUSIONS

The results of the December 2007 groundwater monitoring event indicate that elevated concentrations of GRO and BTEX constituents are present in groundwater in the southwestern portion of the Facility. The highest concentrations of GRO and BTEX constituents have been detected in groundwater samples collected from monitoring well MW-4. In March 2007, concentrations of GRO and BTEX constituents in groundwater near the source area declined to below MTCA Method A cleanup levels, and have continued to decline as shown by the analytical results for the December 2007 groundwater sample from monitoring well MW-1. GRO and BTEX concentrations in the groundwater samples collected from monitoring well MW-4 generally decreased between the June and December 2007 monitoring events, whereas concentrations of GRO, toluene, ethylbenzene, and xylenes increased over the same period in the sample from monitoring well MW-2. The groundwater elevations measured for December 2007 was slightly lower than the June 2007 data, and show a general westerly to northwesterly direction of groundwater flow.

Installation of two additional monitoring wells has been recommended previously in Main Street south of the Facility, along with a pair of air sparging and SVE wells to be installed on the Facility near monitoring well MW-4 to facilitate the cleanup of perched groundwater in this area. The proposed monitoring, AS, and SVE well locations are shown on Figure 4. Farallon recently received the signed access agreement for installation of a monitoring well and possibly a pair of AS and SVE wells on the property in the immediate down-gradient direction of groundwater flow from the Facility. The installation of the new monitoring and treatment system wells is anticipated for March 2008 pending receipt of a previously applied for right-of-way permit from Island County.

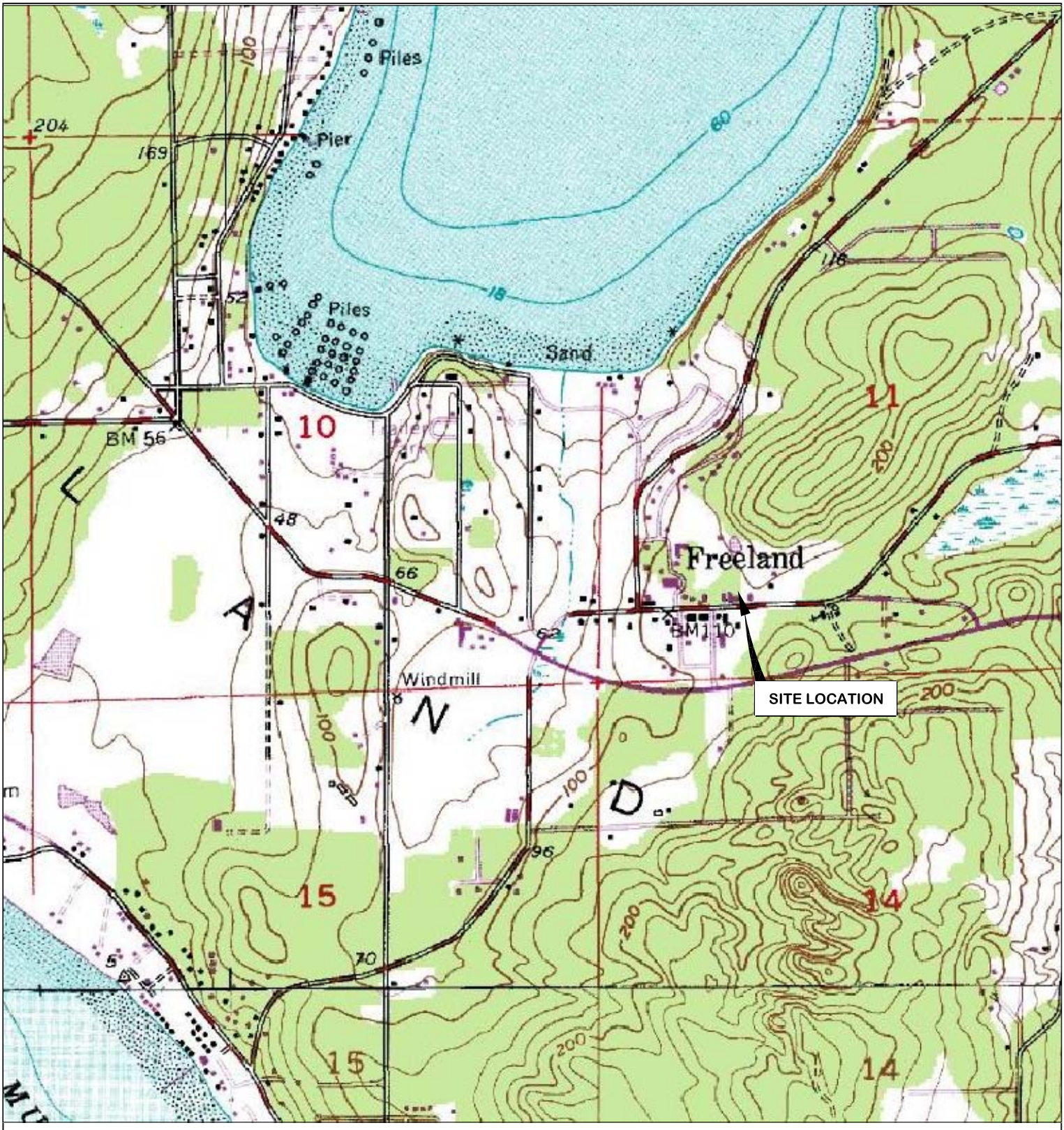
The SVE system is effectively removing and treating vapor-phase petroleum hydrocarbons from subsurface soil at the Facility. Contaminant extraction rates were estimated to be between 2.4 and 154.4 pounds per day over the period of operation of the treatment system, and currently are at the lower end of this range. Contaminant extractions rates are decreasing as the bulk of the

contaminant mass is removed from subsurface soil. All four of the SVE wells at the Facility currently are being used for extraction of vapors from the vadose zone in the area of the release.

FIGURES

CLEANUP ACTION PROGRESS REPORT
FEBRUARY 2008
WHIDBEY MARINE & AUTO SUPPLY FACILITY
1689 Main Street
Freeland, Washington

Farallon PN: 454-001



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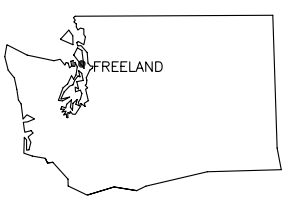

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FIGURE 1

SITE VICINITY MAP
WHIDBEY MARINE & AUTO SUPPLY
1689 MAIN STREET
FREELAND, WASHINGTON

FARALLON PN: 454-001

Drawn By: DEW	Checked By: PJ	Date: 7/11/07	Disk Reference: 454001

SOUTH HARBOR AVENUE

MW-5

OFFICE BUILDING

OFFICE BUILDING

REMEDIATION SYSTEM COMPOUND

DRAIN FIELD

GARAGE

GRAVEL

COVER

MW-3

SEPTIC TANK

CONCRETE

DRIVEWAY

STORE

COVER
(OVER CONCRETE)

VENT PIPES

PUMP SHUT OFF

VENT LINES

TANK 1
3,000-GAL

MW-2

CANOPY

PUMPS

SVE-2S

SVE-2D

ASPHALT

TANK 4
8,000-GAL

TANK 3
10,000-GAL

TANK 2
10,000-GAL

MW-4

ASPHALT

SVE-3

CONCRETE

ASPHALT

SIGN

MW-1

PLANTER

PROPANE

PLANTER

1/2"Ø x 12" STEEL REBAR AT
END OF AIR SPARGE LINE TO
PROVIDE MAGNETIC LOCATION

MAIN STREET

LEGEND

- AS-1 — AIR SPARGE WELL
- MW-3 — MONITORING WELL
- SVE-2S — SOIL VAPOR EXTRACTION WELL
- FACILITY BOUNDARY
- SOIL VAPOR EXTRACTION LINE
- AIR SPARGE LINE
- FUEL LINE
- TELEPHONE LINE
- WATER LINE
- POWER LINE
- OVERHEAD POWER LINE
- UNDERGROUND STORAGE TANK
- TREE

ALL LOCATIONS ARE APPROXIMATE

N

0 30

APPROXIMATE SCALE IN FEET

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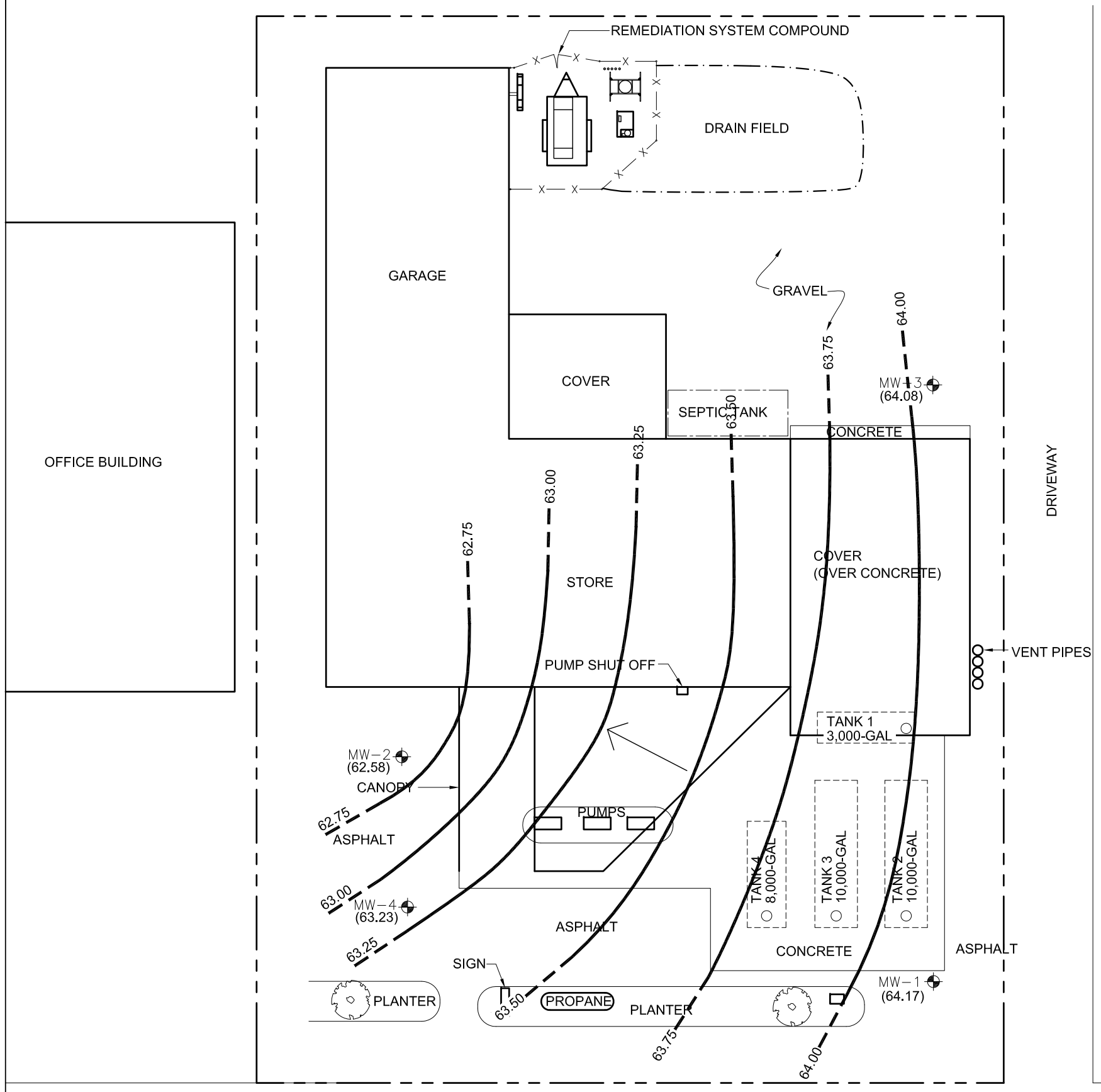
975 5th Avenue Northwest
Issaquah, WA 98027

FIGURE 2

SITE PLAN
WHIDBEY MARINE & AUTO SUPPLY
1689 MAIN STREET
FREELAND, WASHINGTON

FARALLON PN: 454-001

Drawn By:DEW	Checked By:TM	Date:7/12/07	Disk Reference:454001



LEGEND

- MW-3 — MONITORING WELL
- (63.49) — GROUNDWATER ELEVATION
- 63.50 — GROUNDWATER ELEVATION CONTOUR
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- FACILITY BOUNDARY
- UNDERGROUND STORAGE TANK
- TREE

NOTE: SURVEYED ELEVATION RELATIVE TO MEAN SEA LEVEL, 1983 NATIONAL GEODETIC VERTICAL DATUM

ALL LOCATIONS ARE APPROXIMATE

0 20

APPROXIMATE SCALE IN FEET

N

FIGURE 3

GROUNDWATER ELEVATION CONTOUR MAP
DECEMBER 7, 2007
WHIDBEY MARINE & AUTO SUPPLY
1689 MAIN STREET
FREELAND, WASHINGTON

FARALLON PN: 454-001

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975 5th Avenue Northwest
Issaquah, WA 98027

Drawn By: DEW	Checked By: TM	Date: 1/30/08	Disk Reference: 454001

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975 5th Avenue Northwest
Issaquah, WA 98027

FIGURE 4

PROPOSED MONITORING AND
REMEDIATION SYSTEM WELL LOCATIONS
WHIDBEY MARINE & AUTO SUPPLY
1689 MAIN STREET
FREELAND, WASHINGTON

FARALLON PN: 454-001

Drawn By: DEW	Checked By: TM	Date: 9/10/07	Disk Reference: 454001

TABLES

CLEANUP ACTION PROGRESS REPORT
FEBRUARY 2008
WHIDBEY MARINE & AUTO SUPPLY FACILITY
1689 Main Street
Freeland, Washington

Farallon PN: 454-001

Table 1
Groundwater Elevation Data
Whidbey Marine & Auto Supply
Freeland, Washington
Farallon PN: 454-001

Well Identification	Date	Top of Well Casing Elevation (feet)[1]	Depth to Water (feet)[2]	Groundwater Elevation (feet)[1]
MW-1	12/5/05	116.64	52.54	64.10
	6/7/06	116.15[3]	52.67	63.48
	10/9/06		51.93	64.22
	1/9/07		51.80	64.35
	3/27/07		51.50	64.65
	6/19/07		51.66	64.49
	12/7/07		51.98	64.17
MW-2	12/5/05	117.39	55.06	62.33
	6/7/06		55.56	61.83
	10/9/06		54.69	62.70
	1/9/07		54.60	62.79
	3/27/07		54.44	62.95
	6/19/07		54.50	62.89
	12/7/07		54.81	62.58
MW-3	12/5/05	117.41	53.48	63.93
	6/7/06		53.96	63.45
	10/9/06		53.26	64.15
	1/9/07		53.02	64.39
	3/27/07		52.82	64.59
	6/19/07		52.70	64.71
	12/7/07		53.33	64.08
MW-4	3/27/07	117.51	53.94	63.57
	6/19/07		54.02	63.49
	12/7/07		54.28	63.23

NOTES:

[1]Feet above mean sea level.

[2]Feet below top of well casing.

[3]Top of well casing elevation adjusted using change in total depth measurements before and after change in well casing length following soil vapor extraction system installation.

Table 2
Summary of Field Parameter Measurements in Groundwater
Whidbey Marine Auto Supply
Freeland, Washington
Farallon PN: 454-001

Well Identification	Date	Field Measurements				
		pH	Temp. (^{o}C)	Conductivity (mS/cm)	DO (mg/l)	ORP (mV)
MW-1	12/5/05	7.06	11.5	0.248	5.80	234.8
	6/7/06	5.20	13.4	0.373	14.95	473.9
	10/9/06	6.43	13.25	0.691	6.01	236.9
	1/9/07	6.35	11.27	0.368	6.96	239.0
	3/37/07	6.74	12.24	0.332	8.28	238.3
	6/19/07	5.22	18.46	0.384	9.23	525.7
	12/7/07	7.12	11.03	0.367	13.03	239.7
MW-2	12/5/05	7.17	12.06	0.233	5.91	224.5
	6/7/06	5.59	15.4	0.340	11.15	487.9
	10/9/06	6.86	13.87	0.594	14.94	284.3
	1/9/07	6.41	12.34	0.394	6.42	260.0
	3/37/07	6.55	13.51	0.409	6.97	197.4
	6/19/07	4.26	17.09	0.398	7.42	556.3
	12/7/07	7.07	11.88	0.410	10.88	245.4
MW-3	12/5/05	7.31	11.00	0.304	2.02	180.9
	6/7/06	5.51	13.9	0.337	11.80	488.2
	10/9/06	6.95	12.42	0.465	4.24	291.8
	1/9/07	6.95	10.73	0.333	3.38	254.2
	3/27/07	7.28	11.74	0.336	1.71	169.3
	6/19/07	4.24	14.64	0.325	2.52	503.9
	12/7/07	7.16	11.31	0.313	3.07	210.8
MW-4	3/27/07	6.53	13	0.354	1.26	219.6
	6/19/07	4.7	16.61	0.283	1.55	523.5
	12/7/07	6.38	10.20	0.242	3.58	246.5

NOTES:
pH, temperature, conductivity, DO, and ORP measured in the field using YSI 600 XL with flow-through cell.

^{o}C = degrees Celsius
DO = dissolved oxygen
mg/l = milligrams per liter
mV = millivolts
ORP = oxidation/reduction potential
mS/cm = millisiemens per centimeter

Table 3
Summary of Laboratory Analytical Results for Groundwater
Whidbey Marine & Auto Supply
Freeland, Washington
Farallon PN: 454-001

Sample Location	Sample Identification	Sample Date	Analytical Results (micrograms per liter)				
			GRO[1]	Benzene[2]	Toluene[2]	Ethylbenzene[2]	Xylenes[2]
MW-1	MW1-120505	12/5/05	**4,200**	**480**	770	65	318
	MW1-060706	6/7/06	**5,800**	**500**	1,000	70	780
	MW-1-100906	10/9/06	**17,000**	**2,400**	**3,800**	270	**2,200**
	MW1-010907	1/9/07	**1,500**	**14**	6	11	120
	QA/QC-010907	1/9/07	**1,500**	**11**	6	10	110
	MW1-032707	3/27/07	290	1	1	<1	17
	QA/QC-032707	3/27/07	320	1	<1	<1	19
	MW1-061907	6/19/07	73	<1	<1	<1	<3
	MW1-120707	12/7/07	110	<1	<1	<1	<3
MW-2	MW2-120505	12/5/05	570	**110**	110	2.8	50
	MW2-060706	6/7/06	**2,800**	**440**	540	15	430
	MW2-100906	10/9/06	370	**20**	44	1	77
	MW2-010907	1/9/07	730	**35**	69	11	150
	MW2-032707	3/27/07	610	**6**	9	<1	150
	MW2-061907	6/19/07	1,000	**17**	52	22	200
	MW2-120707	12/7/07	**2,300**	**7**	310	36	270
MW-3	MW3-120505	12/5/05	<100	<1.0	<1.0	<1.0	<2.0
	FD-120505	12/5/05	<100	<1.0	<1.0	<1.0	<2.0
	MW3-060706	6/7/06	<50	<1	<1	<1	<3
	MW3-100906	10/9/06	<50	<1	<1	<1	<3
	MW3-010907	1/9/07	<50	<1	<1	<1	<3
	MW3-032707	3/27/07	<50	<1	<1	<1	<3
	MW3-061907	6/19/07	<50	<1	<1	<1	<3
	QA/QC-061907	6/19/07	<50	<1	<1	<1	<3
	MW3-120707	12/7/07	<50	<1	<1	<1	<3
MW-4	MW4-032707	3/27/07	**99,000**	**31,000**	**32,000**	**970**	**6,000**
	MW4-061907	6/19/07	**110,000**	**22,000**	**36,000**	**1600**	**8,200**
	MW4-120707	12/7/07	**39,000**	**7,600**	**12,000**	300	**2,400**
	QA/QC-120707	12/7/07	**60,000**	**9,500**	**18,000**	**710**	**4,700**
MTCA Method A Cleanup Levels for Groundwater[3]			**800**	**5**	**1,000**	**700**	**1,000**

Table 3
Summary of Laboratory Analytical Results for Groundwater
Whidbey Marine & Auto Supply
Freeland, Washington
Farallon PN: 454-001

NOTES:

<Indicates analyte not detected at or above the stated laboratory practical quantitation limit.

Results in **Bold** indicate concentration exceeds Washington State Department of Ecology Model Toxics Control Act Cleanup Regulation (MTCA) Method A cleanup levels for groundwater.

[1]Analyzed by Northwest Method NWTPH-Gx.

[2]Analyzed by U.S. Environmental Protection Agency Method 8021B.

[3]MTCA Method A Cleanup Levels for Groundwater, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as amended February 2001.

GRO = total petroleum hydrocarbons as gasoline-range organics

Table 4
Soil Vapor Extraction System Operation Monitoring Results
Whidbey Marine & Auto Supply
Freeland, Washington
Farallon PN: 454-001

Date	Air Flow Rate[1] (scfm)	Vacuum[2] (iow)	Flow Rates[3] (scfm)				Influent Concentrations							Catalyst Temperature (°F)
							SVE System (ppmv)[4]		PID Measurements (ppm)					
			MW-1	SVE-2D	SVE-2S	SVE-3	Gasoline	Benzene	Catox Inlet[5]	MW-1[6]	SVE-2D[6]	SVE-2S[6]	SVE-3[6]	
9/8/06	177.0	17.5	NM	NO	NO	NO	1,700	NM	1,320	NM	NO	NO	NO	909
9/13/06	167.0	NM	NM	NO	NO	NO	NM	NM	843	NM	NO	NO	NO	792
9/20/06	179.0	NM	NM	NO	NO	NO	NM	NM	1,248	NM	NO	NO	NO	980
9/27/06	185.2	17.0	18.73	NO	NO	NO	2,200	NM	1,865	NM	NO	NO	NO	984
10/04/06	179.1	18.5	24.77	NO	NO	NO	2,200	NM	NM	NM	NO	NO	NO	1,075
10/09/06	188.1	18.0	26.48	NO	NO	NO	2,000	15	1,909	NM	NO	NO	NO	1,048
11/06/06	172.8	19.0	11.84	25.12	20.51	NO	800	4	1,230	20-79	4,160	>9,999	NO	879
11/20/06	172.8	16.0	11.84	34.53	11.84	NO	500	1	1,200	450-1,000	4,950	900-1,200	3,320	845
12/19/06	176.0	26.0	13.24	49.50	32.43	33.5	200	1	1,050	400-700	1,050	600	475-700	930
1/9/07	166.3	28.5	13.24	57.4	8.37	47.7	100	1	1,750	210	1,950	110	1,200	900
2/6/07	169.6	38.5	5.92	83.7	11.84	71.3	80	0.5	1,489	130	946	65.9	425	723
3/12/07	154.2	38.5	14.5	83.7	11.84	70.1	150	<1	645	14.1	600	22.5	230	663
3/27/07	154.2	38.5	11.84	82.7	22.93	71.3	175	<1	415	7.9	7.8	1.6	1.5	660
5/18/07	159.5	36.0	10.26	82.7	5.92	70.1	50	<1	335	3.5	1.6	1.7	2.3	642
6/19/07	166.3	34.5	11.84	79.4	10.26	74.9	60	<1	435	0	0.0	0	0.0	647
7/16/07	156.0	38.0	10.26	87.8	10.26	74	100	<1	350	0.03	0.2	0.3	0.3	641
8/16/07	166.3	38.0	8.37	74.9	26.48	79.4	150	<1	288	1	1.1	1.3	1.1	646
9/14/07	210.3	39.0	26.48	85.8	25.12	74.9	30	<0.2	244	0.6	0.5	0.18	1.6	571
10/22/07	135.1	40.0	42.7	85.8	45.9	70.1	<30	<0.2	258	0	0.0	0	0.0	578
12/6/07	182.2	40.0	41.87	83.7	73.7	68.8	<30	<0.2	282	0.9	0.3	0.7	0.5	618
1/10/08	157.8	40.2	13.24	81.6	8.37	70.1	NM	NM	184	0.2	0.2	0.4	0.3	646

Table 4
Soil Vapor Extraction System Operation Monitoring Results
Whidbey Marine & Auto Supply
Freeland, Washington
Farallon PN: 454-001

NOTES:

[1]Soil vapor extraction (SVE) remediation system influent air flow rate measured upstream of blower.

[2]Vacuum measurement collected downstream of water knockout and upstream of SVE blower.

[3]Air flow rates as measured at individual SVE pipes at piping array control manifold.

[4]Air concentrations measured using compound-specific Gastec colorimetric detection tubes and pump as measured through sampling port located downstream of SVE system blower at flame arrestor.

[5]Catox inlet concentrations measured at sampling port located downstream of SVE system blower at flame arrestor.

[6]Concentrations at wells measured with PID at individual SVE pipes at piping aray control manifold.

< = concentration less than colorimetric tube reporting range

º F = degrees Fahrenheit

iow = inches of water

NM = not measured

NO = well not online

PID = photoionization detector

ppm = parts per million (PID units)

ppmv = parts per million volume

scfm = standard cubic feet per minute

SVE = soil vapor extraction

Table 5
Summary of Laboratory Analytical Results for Vapor Samples
Whidbey Marine & Auto Supply
Freeland, Washington
Farallon PN: 454-001

Sample Identification	Sample Date	Analytical Results (micrograms per liter)				
		GRO[1]	Benzene[2]	Toluene[2]	Ethylbenzene[2]	Xylenes[2]
Influent - 092006	9/20/06	600	84	25	10	40
Influent - 100906	10/9/06	2,700	330	200	21	78
Influent -121906	12/19/06	1,500	130	86	33	120
Influent - 010907	1/9/07	1,600	100	320	38	140
Influent - 020607	2/6/07	710	34	160	26	100
Influent - 031207	3/12/07	630	23	93	27	130
Influent - 032707	3/27/07	400	16	49	15	68
Influent - 051807	5/18/07	560	14	65	30	160
Influent - 061907	6/19/07	430	7	25	12	46
Influent-071607	7/16/07	350	10	32	18	95
Influent-081607	8/16/07	320	11	27	13	83
Influent-091707	9/14/07	230	9	18	8	48
Influent-102207	10/22/07	260	10	10	5	28
Influent-120607	12/6/07	440	11	20	8	49
Influent-11008	1/10/08	420	6	10	6	34

NOTES:

[1]Analyzed by Northwest Method NWTPH-Gx.

[2]Analyzed by U.S. Environmental Protection Agency Method 8021.

GRO = total petroleum hydrocarbons as gasoline-range organics

Table 6
Contaminant Mass Removal Calculations
Whidbey Marine & Auto Supply
Freeland, Washington
Farallon PN: 454-001

Date	Flow Rate (scfm)	Influent Concentration[1] (ppmv)	Conversion Factor[2]	Extraction Rate (pounds/day)	Number of Days	Mass Removed[3] (pounds)	Notes
9/13/06	167	1,700	0.000379	107.6	-	-	Using 9/8/06 influent data
9/20/06	179	1,700	0.000379	115.3	7	753	Using 9/8/06 influent data
9/27/06	185.2	2,200	0.000379	154.4	7	807	
10/04/06	179.1	2,200	0.000379	149.3	7	1,081	
10/09/06	188.1	2,000	0.000379	142.6	5	747	
11/06/06	172.8	800	0.000379	52.4	25	3,564	3 days down time this period
11/20/06	172.8	500	0.000379	32.7	13	681	1 day down time this period
12/19/06	176.0	200	0.000379	13.3	26	851	3 days down time this period
1/9/07	166.3	100	0.000379	6.3	21	280	
2/6/07	169.6	80	0.000379	5.1	28	176	
3/12/07	154.22	150	0.000379	8.8	33	170	1 day down time this period
3/27/07	154.22	175	0.000379	10.2	15	132	
5/18/07	159.5	50	0.000379	3.0	17	174	35 days down time this period
6/19/07	166.3	60	0.000379	3.8	32	97	
7/16/07	156.0	100	0.000379	5.9	27	102	
8/16/07	166.3	150	0.000379	9.5	31	183	
9/14/07	210.3	30	0.000379	2.4	29	274	
10/22/07[6]	135.1	61	0.000379	3.1	30	72	Using bag lab data
12/6/07[6]	182.2	104	0.000379	7.2	10	72	35 days down time this period, bag data
1/10/08[6]	157.8	99	0.000379	5.9	33	196	3 days down time this period, bag data

Total Mass in Pounds Removed Between Start-up and 1/10/2008 10,412

Table 6
Contaminant Mass Removal Calculations
Whidbey Marine & Auto Supply
Freeland, Washington
Farallon PN: 454-001

NOTES:

[1]Measured by Gastec gasoline colorimetric detection tubes.

[2]Conversion factor = density of air *minutes per day*molecular weight of gasoline/(molecular weight of air*1,000,000)

Where:

density of air = 0.0748 pounds/cubic foot;

minutes per day = 1,440;

molecular weight of gasoline = 102[4]; and

molecular weight of air = 28.96[5].

NR = system not running

ppmv = parts per million volume

scfm = standard cubic feet per minute

[3]Mass removed = flow rate (scfm)*influent concentration (ppmv)*0.000379*extraction rate (pounds/day)*number of days since last reading.

[4]Reference: U.S. Department of Army Corps of Engineers, *Environmental Engineering Manual EM 1110-1-4001* , *Appendix B - Properties of Common Organic Pollutants*

[5]Reference: *Handbook of Chemistry and Physics* , 80th ed., Section 14, page 16.

[6]Influent concentrations determined using laboratory analytical results for GRO in micrograms per liter (ug/l) converted to ppmv as follows:

ppmv = (ug/l)*(1 mg/1,000 ug)*(1 g/1,000 mg)*(1/MW)*((0.0821 L*atm)/K*mol))*(293K)*(1/1 atm)*(1,000,000)

Where:

mg = milligrams

MW = molecular weight of compound, assumed 102 g/mol for gasoline

mol = mole

g = grams

atm = atmosphere

K = degrees Kelvin

APPENDIX A
LABORATORY ANALYTICAL REPORTS

CLEANUP ACTION PROGRESS REPORT
FEBRUARY 2008
WHIDBEY MARINE & AUTO SUPPLY FACILITY
1689 Main Street
Freeland, Washington

Farallon PN: 454-001

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CERTIFICATE OF ANALYSIS

CLIENT: FARALLON CONSULTING
975 5th AVE. NW SUITE 100
ISSAQUAH, WA 98027

DATE: 7/18/2007
CCIL JOB #: 0707049
DATE RECEIVED: 7/16/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001
CLIENT SAMPLE ID: 7/16/2007 11:45 INFLUENT-071607
CCIL SAMPLE #: -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	350	UG/L	7/16/2007	DLC
Benzene	EPA-8021	10	UG/L	7/16/2007	DLC
Toluene	EPA-8021	32	UG/L	7/16/2007	DLC
Ethylbenzene	EPA-8021	18	UG/L	7/16/2007	DLC
Xylenes	EPA-8021	95	UG/L	7/16/2007	DLC

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

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

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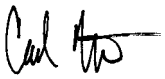

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CERTIFICATE OF ANALYSIS

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ISSAQUAH, WA 98027

DATE: 7/18/2007
CCIL JOB #: 0707049
DATE RECEIVED: 7/16/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	METHOD	SUR ID	% RECV
0707049-01	NWTPH-GX	TFT	87
0707049-01	EPA-8021	TFT	122

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DATE: 7/18/2007
CCIL JOB #: 0707049
DATE RECEIVED: 7/16/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001

QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
NWTPH-GX	Gas	GA071607	0707049 -01	TPH-Volatile Range	ND(<50)	UG/L
EPA-8021	Gas	GA071607	0707049 -01	Benzene	ND(<1)	UG/L
EPA-8021	Gas	GA071607	0707049 -01	Toluene	ND(<1)	UG/L
EPA-8021	Gas	GA071607	0707049 -01	Ethylbenzene	ND(<1)	UG/L
EPA-8021	Gas	GA071607	0707049 -01	Xylenes	ND(<3)	UG/L

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DATE: 7/18/2007
CCIL JOB #: 0707049
DATE RECEIVED: 7/16/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001

QUALITY CONTROL RESULTS

SPIKE/SPIKE DUPLICATE RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	SPIKE RECOVERY	SPIKE DUP RECOVERY	RPD
NWTPH-GX	Gas	GA071607	0707049 -01	TPH-Volatile Range	95 %	101 %	6
EPA-8021	Gas	GA071607	0707049 -01	Benzene	96 %	96 %	0
EPA-8021	Gas	GA071607	0707049 -01	Toluene	99 %	99 %	0
EPA-8021	Gas	GA071607	0707049 -01	Ethylbenzene	97 %	98 %	1
EPA-8021	Gas	GA071607	0707049 -01	Xylenes	100 %	100 %	0

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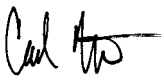

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DATE: 8/21/2007
CCIL JOB #: 0708068
DATE RECEIVED: 8/16/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001
CLIENT SAMPLE ID: 8/16/2007 12:00 INFLUENT-081607
CCIL SAMPLE #: -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	320	UG/L	8/17/2007	DLC
Benzene	EPA-8021	11	UG/L	8/17/2007	DLC
Toluene	EPA-8021	27	UG/L	8/17/2007	DLC
Ethylbenzene	EPA-8021	13	UG/L	8/17/2007	DLC
Xylenes	EPA-8021	83	UG/L	8/17/2007	DLC

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

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DATE: 8/21/2007
CCIL JOB #: 0708068
DATE RECEIVED: 8/16/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	METHOD	SUR ID	% RECV
0708068-01	NWTPH-GX	TFT	72
0708068-01	EPA-8021	TFT	101

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DATE: 8/21/2007
CCIL JOB #: 0708068
DATE RECEIVED: 8/16/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001

QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
NWTPH-GX	Gas	GA081707	0708068 -01	TPH-Volatile Range	ND(<50)	UG/L
EPA-8021	Gas	GA081707	0708068 -01	Benzene	ND(<1)	UG/L
EPA-8021	Gas	GA081707	0708068 -01	Toluene	ND(<1)	UG/L
EPA-8021	Gas	GA081707	0708068 -01	Ethylbenzene	ND(<1)	UG/L
EPA-8021	Gas	GA081707	0708068 -01	Xylenes	ND(<3)	UG/L

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ISSAQUAH, WA 98027

DATE: 8/21/2007
CCIL JOB #: 0708068
DATE RECEIVED: 8/16/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001

QUALITY CONTROL RESULTS

SPIKE/SPIKE DUPLICATE RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	SPIKE RECOVERY	SPIKE DUP RECOVERY	RPD
NWTPH-GX	Gas	GA081707	0708068 -01	TPH-Volatile Range	109 %	109 %	0
EPA-8021	Gas	GA081707	0708068 -01	Benzene	86 %	85 %	1
EPA-8021	Gas	GA081707	0708068 -01	Toluene	94 %	93 %	1
EPA-8021	Gas	GA081707	0708068 -01	Ethylbenzene	95 %	93 %	2
EPA-8021	Gas	GA081707	0708068 -01	Xylenes	97 %	95 %	2

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Chain Of Custody/ Laboratory Analysis Request

CCI Job# (Laboratory Use Only) 708068

Date 8/16/07 Page 1 Of 1

PROJECT ID: 454-001
REPORT TO COMPANY: Farallon Consulting, LLC
PROJECT MANAGER: Paul Grabau
ADDRESS: 1201 Cornwall Avenue Suite 105
Bellingham, WA 98225
PHONE: (360)527 0241 FAX: (360)527-0243
P.O. NUMBER: E-MAIL:
INVOICE TO COMPANY: Delta Environmental
ATTENTION: John North
ADDRESS:

REPORT COPY

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ EPA-8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM ☐	PCB ☐ Pesticides ☐ by EPA 8081/8082	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	OTHER (Specify)	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. INFLUENT-081607	8/16/07	1200	A	1			X	X													1	
2.																						
3.																						
4.																						
5.																						
6.																						
7.																						
8.																						
9.																						
10.																						

SPECIAL INSTRUCTIONS

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

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Lindsey Needham, Farallon Consulting, 8/16/07, 1412
   Received By: CCIAL 8/16/07 2:15
2. Relinquished By:
   Received By:

TURNAROUND REQUESTED in Business Days*

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

Fuels & Hydrocarbon Analysis: 5 Standard | 3 | 1 | SAME DAY

OTHER:

Specify:

* Turnaround request less than standard may incur Rush Charges

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CERTIFICATE OF ANALYSIS

CLIENT: FARALLON CONSULTING
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ISSAQUAH, WA 98027

DATE: 9/24/2007
CCIL JOB #: 0709070
DATE RECEIVED: 9/14/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001
CLIENT SAMPLE ID: 9/14/2007 12:40 INFLUENT-091407
CCIL SAMPLE #: -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	230	UG/L	9/15/2007	DLC
Benzene	EPA-8021	9	UG/L	9/15/2007	DLC
Toluene	EPA-8021	18	UG/L	9/15/2007	DLC
Ethylbenzene	EPA-8021	8	UG/L	9/15/2007	DLC
Xylenes	EPA-8021	48	UG/L	9/15/2007	DLC

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

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

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CERTIFICATE OF ANALYSIS

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ISSAQUAH, WA 98027

DATE: 9/24/2007
CCIL JOB #: 0709070
DATE RECEIVED: 9/14/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	METHOD	SUR ID	% RECV
0709070-01	NWTPH-GX	TFT	78
0709070-01	EPA-8021	TFT	111

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CLIENT: FARALLON CONSULTING
975 5th AVE. NW SUITE 100
ISSAQUAH, WA 98027

DATE: 9/24/2007
CCIL JOB #: 0709070
DATE RECEIVED: 9/14/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001

QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
NWTPH-GX	Water	GA091507	0709070 -01	TPH-Volatile Range	ND(<50)	UG/L
EPA-8021	Water	GA091507	0709070 -01	Benzene	ND(<1)	UG/L
EPA-8021	Water	GA091507	0709070 -01	Toluene	ND(<1)	UG/L
EPA-8021	Water	GA091507	0709070 -01	Ethylbenzene	ND(<1)	UG/L
EPA-8021	Water	GA091507	0709070 -01	Xylenes	ND(<3)	UG/L

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CERTIFICATE OF ANALYSIS

CLIENT: FARALLON CONSULTING
975 5th AVE. NW SUITE 100
ISSAQUAH, WA 98027

DATE: 9/24/2007
CCIL JOB #: 0709070
DATE RECEIVED: 9/14/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001

QUALITY CONTROL RESULTS

SPIKE/SPIKE DUPLICATE RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	SPIKE RECOVERY	SPIKE DUP RECOVERY	RPD
NWTPH-GX	Water	GA091507	0709070 -01	TPH-Volatile Range	96 %	93 %	3
EPA-8021	Water	GA091507	0709070 -01	Benzene	85 %	81 %	5
EPA-8021	Water	GA091507	0709070 -01	Toluene	93 %	89 %	4
EPA-8021	Water	GA091507	0709070 -01	Ethylbenzene	93 %	90 %	3
EPA-8021	Water	GA091507	0709070 -01	Xylenes	94 %	90 %	4

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CERTIFICATE OF ANALYSIS

CLIENT: FARALLON CONSULTING
1201 CORNWALL AVE. #105
BELLINGHAM, WA 98225

DATE: 10/30/2007
CCIL JOB #: 0710121
DATE RECEIVED: 10/23/2007
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001 WHIDBEY MARINE & AUTO
CLIENT SAMPLE ID: 10/22/200 17:00 INFLUENT - 102207
CCIL SAMPLE #: -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	260	UG/L	10/23/2007	DLC
Benzene	EPA-8021	10	UG/L	10/23/2007	DLC
Toluene	EPA-8021	10	UG/L	10/23/2007	DLC
Ethylbenzene	EPA-8021	5	UG/L	10/23/2007	DLC
Xylenes	EPA-8021	28	UG/L	10/23/2007	DLC

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

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

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DATE: 10/30/2007
CCIL JOB #: 0710121
DATE RECEIVED: 10/23/2007
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001 WHIDBEY MARINE & AUTO

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	METHOD	SUR ID	% RECV
0710121-01	NWTPH-GX	TFT	84
0710121-01	EPA-8021	TFT	109

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DATE: 10/30/2007
CCIL JOB #: 0710121
DATE RECEIVED: 10/23/2007
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001 WHIDBEY MARINE & AUTO

QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
NWTPH-GX	Gas	GA102307	0710121 -01	TPH-Volatile Range	ND(<50)	UG/L
EPA-8021	Gas	GA102307	0710121 -01	Benzene	ND(<1)	UG/L
EPA-8021	Gas	GA102307	0710121 -01	Toluene	ND(<1)	UG/L
EPA-8021	Gas	GA102307	0710121 -01	Ethylbenzene	ND(<1)	UG/L
EPA-8021	Gas	GA102307	0710121 -01	Xylenes	ND(<3)	UG/L

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DATE: 10/30/2007
CCIL JOB #: 0710121
DATE RECEIVED: 10/23/2007
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001 WHIDBEY MARINE & AUTO

QUALITY CONTROL RESULTS

SPIKE/SPIKE DUPLICATE RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	SPIKE RECOVERY	SPIKE DUP RECOVERY	RPD
NWTPH-GX	Gas	GA102307	0710121 -01	TPH-Volatile Range	108 %	105 %	3
EPA-8021	Gas	GA102307	0710121 -01	Benzene	90 %	90 %	0
EPA-8021	Gas	GA102307	0710121 -01	Toluene	99 %	100 %	1
EPA-8021	Gas	GA102307	0710121 -01	Ethylbenzene	102 %	102 %	0
EPA-8021	Gas	GA102307	0710121 -01	Xylenes	104 %	104 %	0

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CERTIFICATE OF ANALYSIS

CLIENT: FARALLON CONSULTING
975 5th AVE. NW SUITE 100
ISSAQUAH, WA 98027

DATE: 12/18/2007
CCIL JOB #: 0712063
DATE RECEIVED: 12/11/2007
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001
CLIENT SAMPLE ID: 12/7/2007 14:45 MW1-120707
CCIL SAMPLE #: -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	110	UG/L	12/12/2007	DLC
Benzene	EPA-8021	ND(<1)	UG/L	12/12/2007	DLC
Toluene	EPA-8021	ND(<1)	UG/L	12/12/2007	DLC
Ethylbenzene	EPA-8021	ND(<1)	UG/L	12/12/2007	DLC
Xylenes	EPA-8021	ND(<3)	UG/L	12/12/2007	DLC

CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT WHICH IS LIGHTLY WEATHERED GASOLINE

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

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

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CERTIFICATE OF ANALYSIS

CLIENT: FARALLON CONSULTING
975 5th AVE. NW SUITE 100
ISSAQUAH, WA 98027

DATE: 12/18/2007
CCIL JOB #: 0712063
DATE RECEIVED: 12/11/2007
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001
CLIENT SAMPLE ID: 12/7/2007 15:45 MW2-120707
CCIL SAMPLE #: -02

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	2300	UG/L	12/13/2007	DLC
Benzene	EPA-8021	7	UG/L	12/13/2007	DLC
Toluene	EPA-8021	310	UG/L	12/13/2007	DLC
Ethylbenzene	EPA-8021	36	UG/L	12/13/2007	DLC
Xylenes	EPA-8021	270	UG/L	12/13/2007	DLC

CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT WHICH IS LIGHTLY WEATHERED GASOLINE

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CERTIFICATE OF ANALYSIS

CLIENT: FARALLON CONSULTING
975 5th AVE. NW SUITE 100
ISSAQUAH, WA 98027

DATE: 12/18/2007
CCIL JOB #: 0712063
DATE RECEIVED: 12/11/2007
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001
CLIENT SAMPLE ID: 12/7/2007 13:30 MW3-120707
CCIL SAMPLE #: -03

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	ND(<50)	UG/L	12/12/2007	DLC
Benzene	EPA-8021	ND(<1)	UG/L	12/12/2007	DLC
Toluene	EPA-8021	ND(<1)	UG/L	12/12/2007	DLC
Ethylbenzene	EPA-8021	ND(<1)	UG/L	12/12/2007	DLC
Xylenes	EPA-8021	ND(<3)	UG/L	12/12/2007	DLC

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

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

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CLIENT: FARALLON CONSULTING
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ISSAQUAH, WA 98027

DATE: 12/18/2007
CCIL JOB #: 0712063
DATE RECEIVED: 12/11/2007
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001
CLIENT SAMPLE ID: 12/7/2007 16:50 MW4-120707
CCIL SAMPLE #: -04

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	39000	UG/L	12/14/2007	DLC
Benzene	EPA-8021	7600	UG/L	12/14/2007	DLC
Toluene	EPA-8021	12000	UG/L	12/14/2007	DLC
Ethylbenzene	EPA-8021	300	UG/L	12/14/2007	DLC
Xylenes	EPA-8021	2400	UG/L	12/14/2007	DLC

CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT WHICH IS LIGHTLY WEATHERED GASOLINE

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

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

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CERTIFICATE OF ANALYSIS

CLIENT: FARALLON CONSULTING
975 5th AVE. NW SUITE 100
ISSAQUAH, WA 98027

DATE: 12/18/2007
CCIL JOB #: 0712063
DATE RECEIVED: 12/11/2007
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001
CLIENT SAMPLE ID: 12/7/2007 12:00 QA/QC-120707
CCIL SAMPLE #: -05

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	60000	UG/L	12/13/2007	DLC
Benzene	EPA-8021	9500	UG/L	12/13/2007	DLC
Toluene	EPA-8021	18000	UG/L	12/13/2007	DLC
Ethylbenzene	EPA-8021	710	UG/L	12/13/2007	DLC
Xylenes	EPA-8021	4700	UG/L	12/13/2007	DLC

CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT WHICH IS LIGHTLY WEATHERED GASOLINE

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

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

APPROVED BY:

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CERTIFICATE OF ANALYSIS

CLIENT: FARALLON CONSULTING
975 5th AVE. NW SUITE 100
ISSAQUAH, WA 98027

DATE: 12/18/2007
CCIL JOB #: 0712063
DATE RECEIVED: 12/11/2007
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	METHOD	SUR ID	% RECV
0712063-01	NWTPH-GX	TFT	91
0712063-01	EPA-8021	TFT	88
0712063-02	NWTPH-GX	TFT	100
0712063-02	EPA-8021	TFT	95
0712063-03	NWTPH-GX	TFT	102
0712063-03	EPA-8021	TFT	94
0712063-04	NWTPH-GX	TFT	92
0712063-04	EPA-8021	TFT	88
0712063-05	NWTPH-GX	TFT	95
0712063-05	EPA-8021	TFT	98

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CLIENT: FARALLON CONSULTING
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ISSAQUAH, WA 98027

DATE: 12/18/2007
CCIL JOB #: 0712063
DATE RECEIVED: 12/11/2007
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001

QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
NWTPH-GX	Water	GW121107	0712063 -01 to -05	TPH-Volatile Range	ND(<50)	UG/L
EPA-8021	Water	GW121107	0712063 -01 to -05	Benzene	ND(<1)	UG/L
EPA-8021	Water	GW121107	0712063 -01 to -05	Toluene	ND(<1)	UG/L
EPA-8021	Water	GW121107	0712063 -01 to -05	Ethylbenzene	ND(<1)	UG/L
EPA-8021	Water	GW121107	0712063 -01 to -05	Xylenes	ND(<3)	UG/L

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ISSAQUAH, WA 98027

DATE: 12/18/2007
CCIL JOB #: 0712063
DATE RECEIVED: 12/11/2007
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001

QUALITY CONTROL RESULTS

SPIKE/SPIKE DUPLICATE RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	SPIKE RECOVERY	SPIKE DUP RECOVERY	RPD
NWTPH-GX	Water	GW121107	0712063 -01 to -05	TPH-Volatile Range	86 %	84 %	2
EPA-8021	Water	GW121107	0712063 -01 to -05	Benzene	90 %	89 %	1
EPA-8021	Water	GW121107	0712063 -01 to -05	Toluene	89 %	88 %	1
EPA-8021	Water	GW121107	0712063 -01 to -05	Ethylbenzene	88 %	87 %	1
EPA-8021	Water	GW121107	0712063 -01 to -05	Xylenes	89 %	88 %	1

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CLIENT: FARALLON CONSULTING
975 5th AVE. NW SUITE 100
ISSAQUAH, WA 98027

DATE: 12/11/2007
CCIL JOB #: 0712042
DATE RECEIVED: 12/6/2007
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001
CLIENT SAMPLE ID: 12/6/2007 11:40 INFLUENT-120607
CCIL SAMPLE #: -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	440	UG/L	12/7/2007	DLC
Benzene	EPA-8021	11	UG/L	12/7/2007	DLC
Toluene	EPA-8021	20	UG/L	12/7/2007	DLC
Ethylbenzene	EPA-8021	8	UG/L	12/7/2007	DLC
Xylenes	EPA-8021	49	UG/L	12/7/2007	DLC

NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT WHICH IS LIKELY AVIATION GASOLINE.

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

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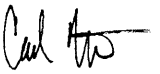

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ISSAQUAH, WA 98027

DATE: 12/11/2007
CCIL JOB #: 0712042
DATE RECEIVED: 12/6/2007
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	METHOD	SUR ID	% RECV
0712042-01	NWTPH-GX	TFT	85
0712042-01	EPA-8021	TFT	100

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ISSAQUAH, WA 98027

DATE: 12/11/2007
CCIL JOB #: 0712042
DATE RECEIVED: 12/6/2007
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001

QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
NWTPH-GX	Gas	GA120707	0712042 -01	TPH-Volatile Range	ND(<50)	UG/L
EPA-8021	Gas	GA120707	0712042 -01	Benzene	ND(<1)	UG/L
EPA-8021	Gas	GA120707	0712042 -01	Toluene	ND(<1)	UG/L
EPA-8021	Gas	GA120707	0712042 -01	Ethylbenzene	ND(<1)	UG/L
EPA-8021	Gas	GA120707	0712042 -01	Xylenes	ND(<3)	UG/L

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DATE: 12/11/2007
CCIL JOB #: 0712042
DATE RECEIVED: 12/6/2007
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001

QUALITY CONTROL RESULTS

SPIKE/SPIKE DUPLICATE RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	SPIKE RECOVERY	SPIKE DUP RECOVERY	RPD
NWTPH-GX	Gas	GA120707	0712042 -01	TPH-Volatile Range	84 %	88 %	5
EPA-8021	Gas	GA120707	0712042 -01	Benzene	93 %	92 %	1
EPA-8021	Gas	GA120707	0712042 -01	Toluene	92 %	92 %	0
EPA-8021	Gas	GA120707	0712042 -01	Ethylbenzene	90 %	89 %	1
EPA-8021	Gas	GA120707	0712042 -01	Xylenes	92 %	91 %	1

APPROVED BY:

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Everett, WA 98208
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(425) 356-2626 Fax
http://www.ccilabs.com

Chain Of Custody/ Laboratory Analysis Request

CCI Job# (Laboratory Use Only): 712042

Date 12/6/07 Page 1 Of 1

REPORT COPY

PROJECT ID:	454001
REPORT TO COMPANY:	Farallon Consulting, L.L.C.
PROJECT MANAGER:	Paul Grabau
ADDRESS:	1201 Cornwall Avenue Suite 105 Bellingham, WA 98225
PHONE:	(360) 527-0241
FAX:	(360) 527-0243
P.O. NUMBER:	
E-MAIL:	
INVOICE TO COMPANY:	Delta Environmental
ATTENTION:	John North
ADDRESS:	

ANALYSIS REQUESTED / OTHER (Specify)

	SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ EPA-8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM ☐	PCB ☐ Pesticides ☐ by EPA 8081/8082	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	OTHER (Specify)							NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1.	INFLUENT-120607	12/6/07	1140	A	1			X	X																			1	
2.																													
3.																													
4.																													
5.																													
6.																													
7.																													
8.																													
9.																													
10.																													

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: [signature] Farallon 12/6/07 1402

   Received By: [signature] 12/6/07 CCIAL 1402

2. Relinquished By:

   Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

☐ 10 Standard ☐ 5 ☐ 3 ☐ 2 ☐ 1 ☐ SAME DAY

Fuels & Hydrocarbon Analysis

☒ 5 Standard ☐ 3 ☐ 1 ☐ SAME DAY

OTHER:

Specify:

*Turnaround request less than standard may incur Rush Charges

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CERTIFICATE OF ANALYSIS

CLIENT: FARALLON CONSULTING
975 5th AVE. NW SUITE 100
ISSAQUAH, WA 98027

DATE: 1/15/2008
CCIL JOB #: 0801056
DATE RECEIVED: 1/10/2008
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: PAUL GRABAU
CLIENT PROJECT ID: 454-001
CLIENT SAMPLE ID: 1/10/2008 13:55 INFLUENT-11008
CCIL SAMPLE #: -01

DATA RESULTS

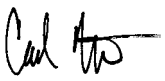
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	420	UG/L	1/11/2008	DLC
Benzene	EPA-8021	6	UG/L	1/11/2008	DLC
Toluene	EPA-8021	10	UG/L	1/11/2008	DLC
Ethylbenzene	EPA-8021	6	UG/L	1/11/2008	DLC
Xylenes	EPA-8021	34	UG/L	1/11/2008	DLC

NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT WHICH IS LIKELY GASOLINE.

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

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

APPROVED BY:



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QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	METHOD	SUR ID	% RECV
0801056-01	NWTPH-GX	TFT	105
0801056-01	EPA-8021	TFT	94

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QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
NWTPH-GX	Gas	GA011108	0801056 -01	TPH-Volatile Range	ND(<50)	UG/L
EPA-8021	Gas	GA011108	0801056 -01	Benzene	ND(<1)	UG/L
EPA-8021	Gas	GA011108	0801056 -01	Toluene	ND(<1)	UG/L
EPA-8021	Gas	GA011108	0801056 -01	Ethylbenzene	ND(<1)	UG/L
EPA-8021	Gas	GA011108	0801056 -01	Xylenes	ND(<3)	UG/L

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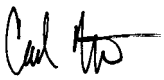
QUALITY CONTROL RESULTS

SPIKE/SPIKE DUPLICATE RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	SPIKE RECOVERY	SPIKE DUP RECOVERY	RPD
NWTPH-GX	Gas	GA011108	0801056 -01	TPH-Volatile Range	83 %	75 %	10
EPA-8021	Gas	GA011108	0801056 -01	Benzene	97 %	97 %	0
EPA-8021	Gas	GA011108	0801056 -01	Toluene	99 %	98 %	1
EPA-8021	Gas	GA011108	0801056 -01	Ethylbenzene	96 %	94 %	2
EPA-8021	Gas	GA011108	0801056 -01	Xylenes	98 %	96 %	2

APPROVED BY:



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