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TECHNICAL MEMORANDUM

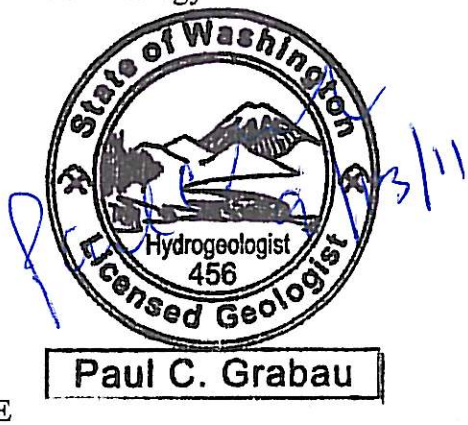
TO: Mark Adams, L.H.G. – Washington State Department of Ecology

cc: Marty Winn, former property owner
William Joyce, Salter Joyce Ziker, P.L.L.C.
Mathew Miller, Antea Group
David Campbell, current property owner

FROM: Paul Grabau, L.H.G., Principal Hydrogeologist

DATE: September 13, 2011

RE: **JUNE 2011 PROGRESS REPORT**
WHIDBEY MARINE & AUTO SUPPLY SITE
FREELAND, WASHINGTON
FARALLON PN: 454-001



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 at 1689 Main Street in Freeland, Washington (herein referred to as the Site) (Figure 1). The cleanup action at the Site is being conducted under the Washington State Department of Ecology (Ecology) Voluntary Cleanup Program and in accordance with the provisions of the Washington State Model Toxics Control Act Cleanup Regulation (MTCA), as established in Chapter 173-340 of the Washington Administrative Code. The Site has been assigned Toxics Cleanup Program Identification Number NW1529 by Ecology. The Site has been registered with the Ecology Underground Injection Control (UIC) Program as UIC Site Number 31045.

This progress report presents the results of the chemical oxidant injection activities that were conducted in February through April 2011 and groundwater monitoring activities conducted during and following the injection events.

CHEMICAL OXIDANT INJECTION

The products used for the in situ chemical oxidant injection at the Site were RegenOx, the primary oxidant, and Oxygen Release Compound-Advanced (ORC-A), a proprietary formulation of food grade calcium oxy-hydroxide that produces a controlled release of molecular oxygen for up to 12 months after hydration. The RegenOx product chemically oxidizes organic contaminants, whereas the ORC-A product is intended to accelerate the rate of naturally occurring aerobic biodegradation of contaminants, once the concentrations are diminished by the initial oxidation reactions. RegenOx or the combination of Regenox and ORC-A was injected into a total of 59 borings over the course of three injection events in February, March, and April 2011 as described in detail below. The injection locations are shown on Figure 2. The injection area was constrained by the Site building in the north, utilities to the west and south, and the overhead canopy to the east.

In October 2010, prior to initiating the in situ chemical oxidant injection activities, Farallon performed a preliminary injection test near monitoring well MW-3 using clean water to estimate the injection rates that could be achieved in the perched groundwater zone. The methods and results were presented in the Technical Memorandum regarding October 2010 Progress Report, dated December 15, 2010, prepared by Farallon.

The in situ chemical oxidant injections were accomplished in three injection events by Cascade Drilling, Inc. (Cascade) of Woodinville, Washington using direct-push drilling methods. The injection borings were advanced to depths ranging from 55 to 60 feet below ground surface by direct-push methods using a Geoprobe drilling rig. The depth of each boring was determined by the estimated depth of the top of the uppermost silt layer underlying the base of the perched groundwater zone as determined from previous soil borings at the Site. RegenOx was injected over the entire saturated zone which was assumed to be from the top of the upper silt layer to the groundwater surface measured in monitoring wells MW-2 and MW-4 at the time of the injections.

The first injection event occurred February 14 to 18, 2011 and consisted of injection of a 4 percent RegenOx solution into 16 injection points placed on 8-foot centers in the area of the Site near monitoring wells MW-2 and MW-4. The locations of the injection points are shown on Figure 2. The second injection event consisted of injection of a 4 percent RegenOx solution along with ORC-A into 16 injection points placed on 8 foot centers in the same area as the first injection but at staggered locations. The first two injection events were conducted over an average 5-foot-thick injection zone. Approximately 24.5 gallons of RegenOx solution was injected per foot across the 5-foot interval at each injection point.

The third and final injection event occurred March 28, 2011 to April 6, 2011 and consisted of injection of a 4 percent RegenOx solution along with ORC-A at 25 injection points placed on 10-foot centers over a larger area of the Site than in the first two injection events (Figure 2). The third injection event was conducted over an average 8-foot-thick injection zone because of the thicker saturated zone in the northern portion of the injection area which was included in the third injection event.

GROUNDWATER MONITORING

An interim groundwater monitoring event was conducted on February 21, 2011, following the first injection event and consisted of sampling monitoring wells MW-2, MW-4, MW-6, MW-8 and MW-9. There was an insufficient volume of groundwater in monitoring well MW-7 for collection of a representative sample during the February 2011 monitoring event. Groundwater monitoring and sampling was also conducted at the Site on May 17 and 18, 2011 following completion of the final injection event. The May 2011 monitoring event included obtaining depth to groundwater measurements and collecting groundwater samples from monitoring wells MW-1 through MW-3, MW-6, and MW-8 through MW-12 (Figure 2). Dedicated sampling tubing which had been previously placed in monitoring wells MW-2 could not be removed during the May 2011 sampling event and the resulting obstruction in the well casing prevented sampling by using either the bladder pump or bailer. Monitoring well MW-5 was dry at the time of the May 2011 monitoring event and has been since installation. There also was an insufficient volume of groundwater in monitoring well MW-7 for collection of a representative sample during the May 2011 monitoring event. Monitoring wells MW-1 through MW-8 are installed in the perched groundwater zone at the Site. Monitoring wells MW-9 through MW-12 are installed within the deeper sea level aquifer. Details of the field activities and the results for the March and May 2011 monitoring and sampling events are presented below.

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.

During the February 2011 monitoring event the monitoring wells were sampled using dedicated disposable bailers instead of a submersible pump, which is typically used at the Site, as a precaution against possible pump damage from the injected oxidant materials. A minimum of three well casing volumes of groundwater was purged from each well using a bailer, prior to the groundwater sample collection. Groundwater samples were collected from monitoring wells MW-2, MW-4, MW-6, MW-8 and MW-9 by decanting the groundwater directly from the disposable bailer into laboratory-prepared containers. The samples were labeled, placed on ice, and transported to ALS Laboratories in Everett, Washington for analysis following chain-of-custody protocols.

During the May 2011 monitoring event groundwater was purged from monitoring wells MW-1, MW-3, and MW-8 through MW-12 at a flow rate of approximately 200 milliliters per minute using a bladder pump, where feasible. Monitoring wells MW-4 and MW-6 were sampled using dedicated disposable bailers as discussed below. 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 ±0.1 pH unit between readings for three consecutive measurements. The samples from monitoring wells MW-1, MW-3, and MW-8 through MW-12 were collected by pumping groundwater directly from each well through dedicated polyethylene tubing into laboratory-prepared containers. Monitoring well MW-4 was sampled using a dedicated disposable bailer due to the presence of a visible flocculant in the groundwater as a result of the oxidant injection. There was not a sufficient volume of groundwater present in monitoring well MW-6 at the time of sampling to utilize the bladder pump so a disposable bailer was also used to purge and collect the groundwater samples from this well. A minimum of three submerged casing volumes of water was purged from monitoring wells MW-4 and MW-6 using a disposable bailer prior to sample collection. Groundwater samples were collected from monitoring wells MW-4 and MW-6 by decanting the groundwater directly from the disposable bailer into laboratory-prepared containers. The samples were labeled, placed on ice, and transported to ALS Laboratories in Everett, Washington for analysis following chain-of-custody protocols.

ANALYTICAL METHODS

The groundwater samples were analyzed for the presence of 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.

GROUNDWATER MONITORING RESULTS

Table 1 presents a summary of the groundwater elevation data for the Site. Table 2 presents the groundwater analytical results for GRO and BTEX for March and May 2011 and previous quarterly monitoring events. Copies of the laboratory analytical report for the March and May 2011 groundwater monitoring events are provided as Attachment A.

Groundwater Elevation

Groundwater elevations measured at the Site on May 17, 2011 in the perched groundwater zone ranged from 66.25 feet above mean sea level (msl) in monitoring well MW-1 to 58.77 feet above msl in monitoring well MW-7. Groundwater elevations measured at the Site in the sea level aquifer ranged from 11.98 feet above msl in monitoring well MW-10 to 10.86 feet above msl in monitoring well MW-12 (Table 1). Monitoring well MW-5 has been dry each time it has been monitored since it was installed in February 2007. Groundwater elevation contours for the perched groundwater zone and sea level aquifer based on the water levels measured on May 18, 2011 are shown on Figures 3 and 4, respectively.

As shown on Figure 3, the general groundwater flow direction in the perched groundwater zone at the Site is to the west, with a hydraulic gradient of approximately 0.025 foot per foot in the eastern area of the Site and a considerably steeper gradient of 0.110 foot per foot to the west. The general groundwater flow direction in the sea level aquifer in the vicinity of the Site was to the south-southeast based on the May 18, 2011 measurements with a hydraulic gradient of approximately 0.005 foot per foot (Figure 4). The groundwater flow direction and gradients are consistent with previous results for the Site.

Analytical Results

The analytical results identified the presence of GRO and various BTEX constituents at concentrations above their respective MTCA Method A cleanup levels in the groundwater samples collected during the March and May 2011 monitoring events (Table 2). A general discussion of trends in contaminant concentrations between pre-injection and post-injection monitoring events is presented below by monitoring well.

Perched Zone Monitoring Wells

- Monitoring well MW-1 – Neither GRO nor any BTEX constituents have been detected in groundwater samples from monitoring well MW-1 at concentrations above MTCA Method A cleanup levels since January 2007. The monitoring well is located up-gradient of the injection area.

- Monitoring well MW-2 – GRO and BTEX concentrations in groundwater samples collected from monitoring well MW-2 decreased between the October 2010 and March 2011 monitoring events. GRO and xylenes concentrations in groundwater samples collected during the March 2011 monitoring event remained above MTCA Method A cleanup levels. A groundwater sample could not be obtained from the monitoring well during the May 2011 monitoring event.

- Monitoring well MW-3 – Neither GRO nor any BTEX constituents have been detected in groundwater samples collected from monitoring well MW-3 at concentrations above laboratory reporting limits or MTCA Method A cleanup levels since the well installation in 2005. The monitoring well is located up-gradient of the injection area.

- Monitoring well MW-4 – With the exception of toluene, GRO and BTEX concentrations were relatively unchanged in groundwater samples collected from monitoring well MW-4 between the October 2010 and May 2011 monitoring events. Toluene concentrations decreased from about four times the MTCA Method A cleanup level to below the cleanup level between the October 2010 and March and May 2011 monitoring events.

- Monitoring well MW-6 – GRO and xylenes concentrations in groundwater samples collected from monitoring well MW-6 increased between the October 2010 and May 2011 groundwater monitoring events whereas toluene and ethylbenzene concentrations decreased to below MTCA Method A cleanup levels during this period.

- Monitoring well MW-8 – GRO and BTEX concentrations in groundwater samples collected from monitoring well MW-8 decreased significantly between the October 2010 and May 2011 groundwater monitoring events. The GRO concentration remains above the MTCA Method A cleanup level whereas the BTEX concentrations are all below MTCA Method A cleanup levels.

Sea Level Aquifer Monitoring Wells

- Monitoring well MW-9 – GRO and BTEX concentrations in groundwater samples collected from monitoring well MW-9 increased between the October 2010 and May 2011 groundwater monitoring events. It is doubtful that any trends observed in contaminant concentrations in groundwater samples from the sea level aquifer monitoring wells are directly related to the in situ chemical oxidant injection activities given the separation between the two water-bearing zones and the timing of the groundwater sampling activities soon after the completion of injection activities.

- Monitoring well MW-10 – GRO and BTEX concentrations in groundwater samples collected from monitoring well MW-10 remained below MTCA Method A cleanup levels between the October 2010 and May 2011 groundwater monitoring events.

- Monitoring well MW-11 – GRO and BTEX concentrations in groundwater samples collected from monitoring well MW-11 increased between the October 2010 and May 2011 groundwater monitoring events.

- Monitoring well MW-12 – GRO and BTEX concentrations in groundwater samples collected from monitoring well MW-12 decreased between the October 2010 and May 2011 groundwater monitoring events.

CLOSING

The expected results of the in situ chemical oxidant injection at the Site include:

- Initial increases in contaminant concentrations in groundwater due to desorption from the soil;

- Depletion of the chemical oxidant materials over a period of months depending on groundwater flow rate, the presence natural organic material, and contaminant concentrations; and

- Enhanced bioremediation due to the addition of oxygen and nutrients.

The initial results from the May 2011 groundwater monitoring are consistent with the expected results. It is premature to assess the overall effectiveness of the in situ chemical oxidant injection based on the single monitoring event conducted following completion of the injection activities. Farallon will continue to evaluate the performance of the in situ chemical oxidant injection in future groundwater monitoring events.

Farallon is arranging to have monitoring wells MW-2 and MW-4 cleaned of the brown residual injection materials that are coating the inside of the well casings. Monitoring wells MW-2 and MW-4 are located within the injection area and residual oxidant reactant materials migrated into the well casings during the injections. Following the completion of the well cleaning activities,

groundwater monitoring and sampling will be conducted to further assess the performance of the in situ chemical oxidant injection.

Attachments: Figure 1, *Site Vicinity Map*
Figure 2, *Site Plan showing Injection Point Locations*
Figure 3, *Groundwater Elevation Contours - Perched Groundwater Zone*
Figure 4, *Groundwater Elevation Contours – Sea Level Aquifer*
Table 1, *Groundwater Elevation Data*
Table 2, *Summary of Laboratory Results for GRO and BTEX in Groundwater Samples*
Attachment A, Laboratory Analytical Report

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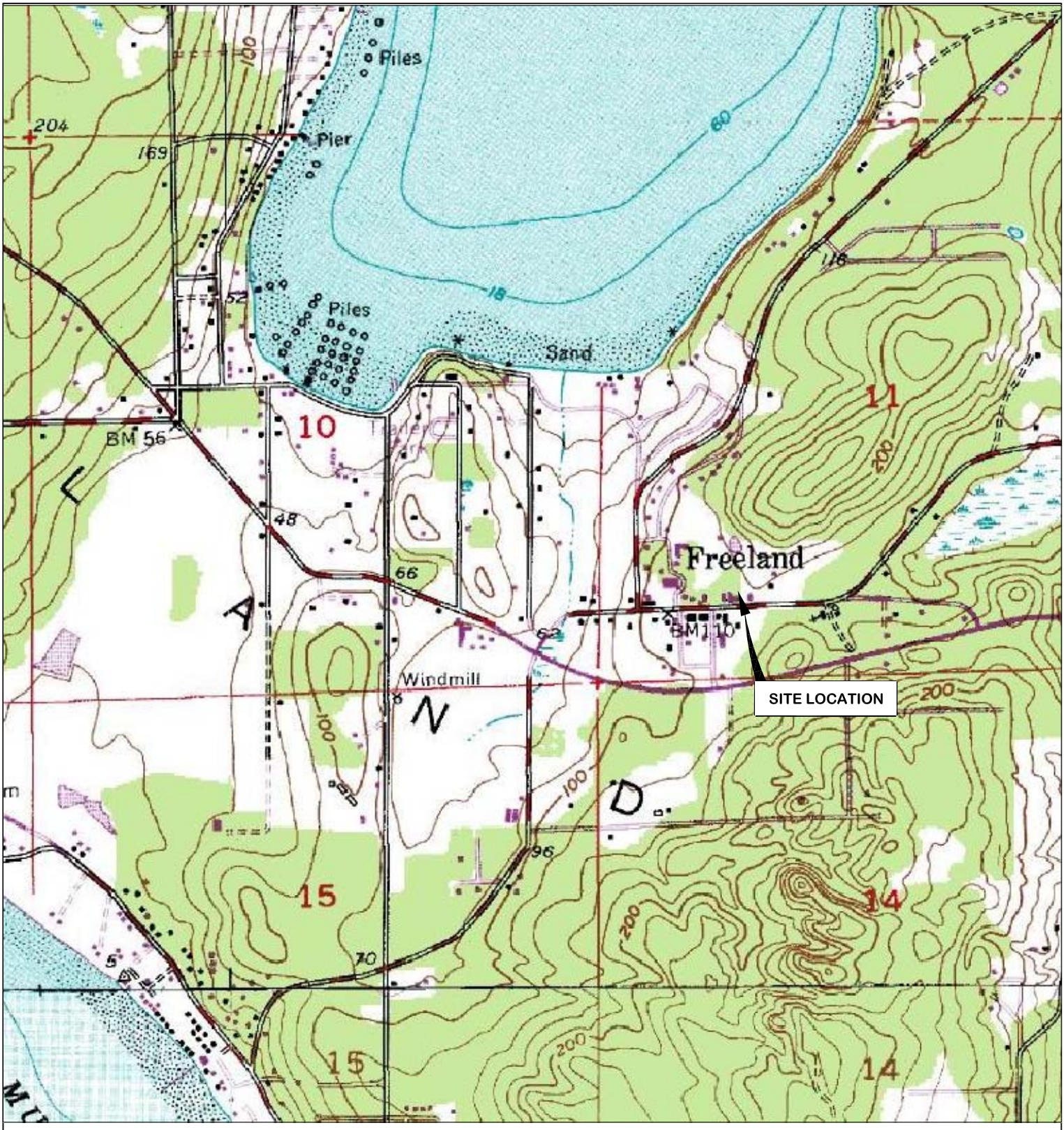

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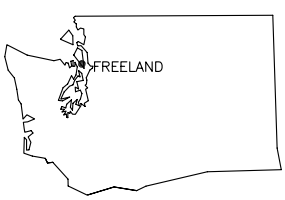

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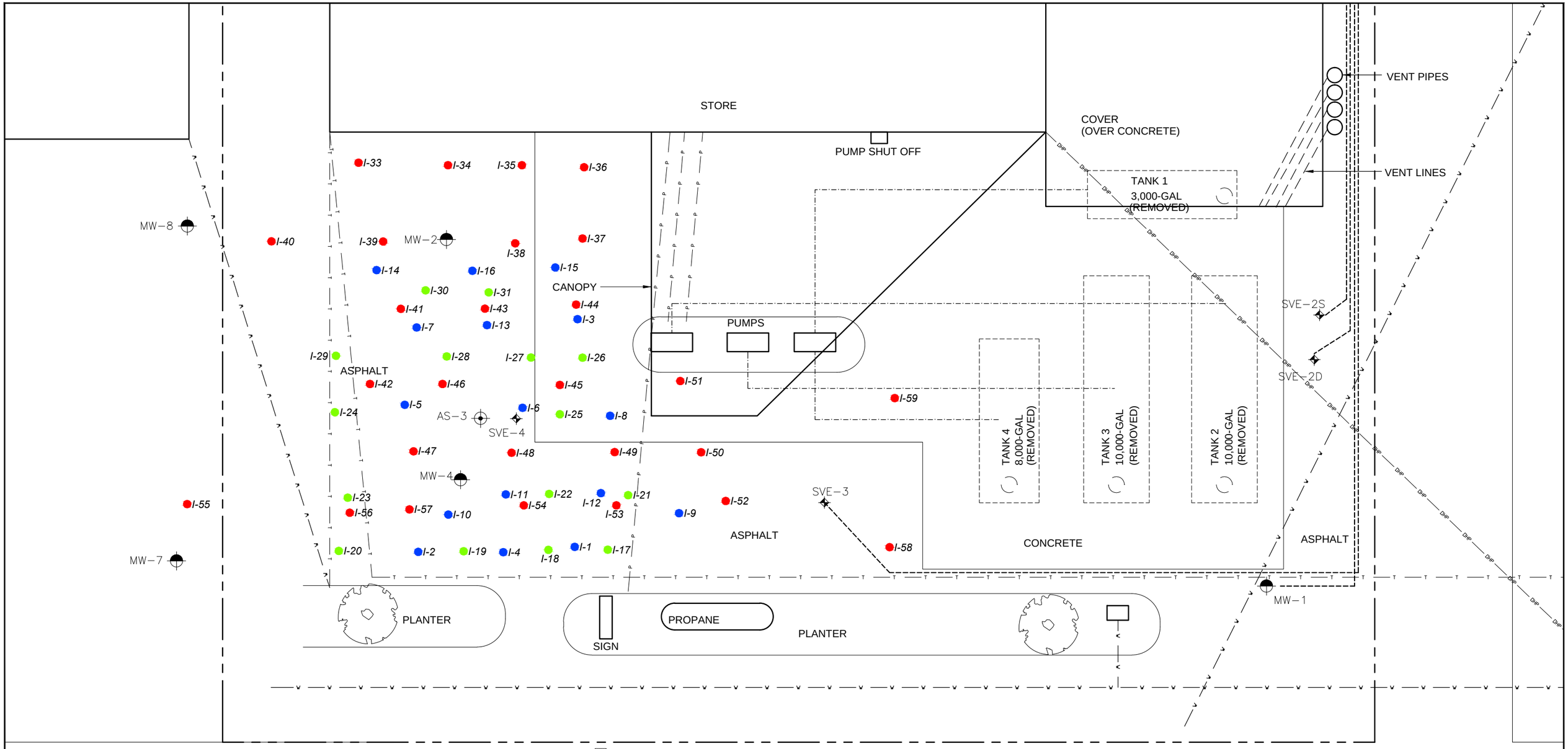
FIGURE 1

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



LEGEND

- PERCHED ZONE MONITORING WELL
- SEA LEVEL AQUIFER MONITORING WELL
- AS-1 AIR SPARGE WELL
- SVE-2S SOIL VAPOR EXTRACTION WELL
- I-16 INJECTION POINT, FIRST INJECTION EVENT
- I-32 INJECTION POINT, SECOND INJECTION EVENT
- I-59 INJECTION POINT, THIRD INJECTION EVENT

- FACILITY BOUNDARY
- SOIL VAPOR EXTRACTION LINE
- AIR SPARGE LINE
- FUEL LINE (REMOVED)

ALL LOCATIONS ARE APPROXIMATE

- TELEPHONE LINE
- WATER LINE
- POWER LINE
- OVERHEAD POWER LINE
- UNDERGROUND STORAGE TANK
- TREE

N

0 10

APPROXIMATE SCALE IN FEET

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FIGURE 2

SITE PLAN SHOWING
INJECTION POINT LOCATIONS
WHIDBEY MARINE AND AUTO SUPPLY
1689 MAIN STREET
FREELNAD, WASHINGTON

FARALLON PN: 454-001

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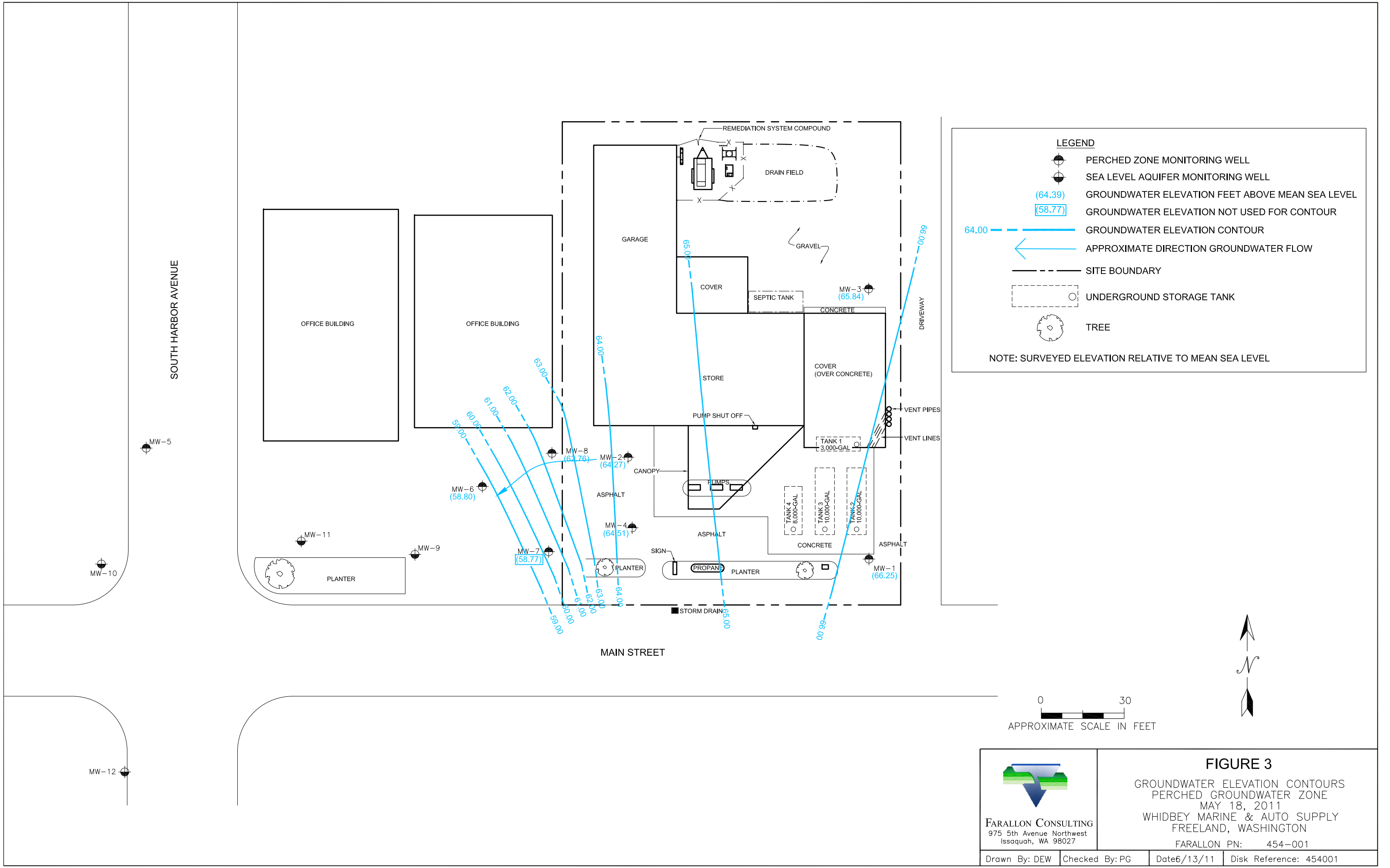

FIGURE 3

GROUNDWATER ELEVATION CONTOURS
PERCHED GROUNDWATER ZONE
MAY 18, 2011
WHIDBEY MARINE & AUTO SUPPLY
FREELAND, WASHINGTON

FARALLON PN: 454-001

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Drawn By: DEW	Checked By: PG	Date6/13/11	Disk Reference: 454001

SOUTH HARBOR AVENUE

OFFICE BUILDING

OFFICE BUILDING

REMEDIATION SYSTEM COMPOUND

DRAIN FIELD

GARAGE

GRAVEL

COVER

SEPTIC TANK

MW-3

CONCRETE

DRIVEWAY

STORE

COVER
(OVER CONCRETE)

VENT PIPES

VENT LINES

PUMP SHUT OFF

TANK 1
3,000-GAL

MW-5

MW-8

MW-2

CANOPY

PUMPS

MW-6

ASPHALT

TANK 4
8,000-GAL

TANK 3
10,000-GAL

TANK 2
10,000-GAL

MW-4

ASPHALT

CONCRETE

ASPHALT

MW-7

SIGN

PLANTER

PROPANE

PLANTER

MW-1

STORM DRAIN

12.00

11.75

11.50

11.25

11.00

MW-11
(11.93)

MW-9
(11.67)

MW-10
(11.98)

PLANTER

MW-12
(10.86)

MAIN STREET

LEGEND

- PERCHED ZONE MONITORING WELL
- SEA LEVEL AQUIFER MONITORING WELL
- (64.39) GROUNDWATER ELEVATION FEET ABOVE MEAN SEA LEVEL
- 64.00 GROUNDWATER ELEVATION CONTOUR
- APPROXIMATE DIRECTION GROUNDWATER FLOW
- SITE BOUNDARY
- UNDERGROUND STORAGE TANK
- TREE

NOTE: SURVEYED ELEVATION RELATIVE TO MEAN SEA LEVEL

N

0 30

APPROXIMATE SCALE IN FEET

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FIGURE 4

GROUNDWATER ELEVATION CONTOURS
SEA LEVEL AQUIFER
MAY 18, 2011
WHIDBEY MARINE & AUTO SUPPLY
FREELAND, WASHINGTON

FARALLON PN: 454-001

Drawn By: DEW	Checked By: JP	Date: 6/13/11	Disk Reference: 454001

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[3]	12/5/05	116.64	52.54	64.10
	6/7/06	116.45	52.67	63.78
	10/9/06		51.93	64.52
	1/9/07		51.80	64.65
	3/27/07		51.50	64.95
	6/19/07		51.66	64.79
	12/7/07		51.98	64.47
	4/17/08		51.10	65.35
	6/30/08		51.24	65.21
	8/14/08		51.36	65.09
	9/9/08		51.45	65.00
	10/21/08		51.63	64.82
	1/15/09		51.63	64.82
	5/12/09		51.29	65.16
	8/5/09		51.46	64.99
	2/10/10		51.13	65.32
	10/21/10		51.28	65.17
	5/18/11		50.20	66.25
MW-2	12/5/05	117.49	55.06	62.43
	6/7/06		55.56	61.93
	10/9/06		54.69	62.80
	1/9/07		54.60	62.89
	3/27/07		54.44	63.05
	6/19/07		54.50	62.99
	12/7/07		54.81	62.68
	4/17/08		54.06	63.43
	6/30/08		54.12	63.37
	8/14/08		54.21	63.28
	9/9/08		54.26	63.23
	10/21/08		54.44	63.05
	1/15/09		54.40	63.09
	5/12/09		54.08	63.41
	8/5/09		54.19	63.30
	2/10/10		53.92	63.57
	10/21/10		54.11	63.38
	5/18/11		53.22	64.27

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-3	12/5/05	117.47	53.48	63.99
	6/7/06		53.96	63.51
	10/9/06		53.26	64.21
	1/9/07		53.02	64.45
	3/27/07		52.82	64.65
	6/19/07		52.70	64.77
	12/7/07		53.33	64.14
	4/17/08		52.50	64.97
	6/30/08		52.66	64.81
	8/14/08		52.76	64.71
	9/9/08		52.84	64.63
	10/21/08		52.99	64.48
	1/15/09		53.01	64.46
	5/12/09		52.64	64.83
	8/5/09		52.79	64.68
	2/10/10		52.50	64.97
	10/21/10		52.63	64.84
	5/18/11		51.63	65.84
MW-4	3/27/07	117.27	53.94	63.33
	6/19/07		54.02	63.25
	12/7/07		54.28	62.99
	4/17/08		53.58	63.69
	6/30/08		53.64	63.63
	8/14/08		53.71	63.56
	9/9/08		53.76	63.51
	10/21/08		53.89	63.38
	1/15/09		53.88	63.39
	5/12/09		53.50	63.77
	8/5/09		53.65	63.62
	2/10/10		53.44	63.83
	10/21/10		53.58	63.69
	5/18/11		52.76	64.51
MW-6	4/17/08	116.56	59.84	56.72
	6/30/08		60.07	56.49
	8/14/08		60.26	56.30
	9/9/08		60.35	56.21

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-6	10/21/08	116.56	60.47	56.09
	1/15/09		60.50	56.06
	5/12/09		60.34	56.22
	8/5/09		60.49	56.07
	2/10/10		59.43	57.13
	10/21/10		59.45	57.11
	5/18/11		57.76	58.80
MW-7	4/17/08	116.82	56.98	59.84
	6/30/08		57.42	59.40
	8/14/08		57.87	58.95
	9/9/08		58.25	58.57
	10/21/08		58.34	58.48
	1/15/09		DRY	DRY
	5/12/09		57.43	59.39
	8/5/09		58.32	58.50
	2/10/10		58.24	58.58
	10/21/10		58.30	58.52
	5/18/11		58.05	58.77
MW-8	4/17/08	117.23	55.29	61.94
	6/30/08		55.34	61.89
	8/14/08		55.33	61.90
	9/9/08		55.36	61.87
	10/21/08		55.47	61.76
	1/15/09		55.37	61.86
	5/12/09		55.09	62.14
	8/5/09		55.21	62.02
	2/10/10		54.93	62.30
	10/21/10		55.08	62.15
	5/18/21		54.47	62.76
MW-9	5/12/09	114.79	103.54	11.25
	8/5/09		103.85	10.94
	2/10/10		103.79	11.00
	10/21/10		103.77	11.02
	5/18/11		103.12	11.67
MW-10	5/12/09	113.45	102.02	11.43
	8/5/09		102.29	11.16

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-10	2/10/10	113.45	102.25	11.20
	10/21/10		101.95	11.50
	5/18/11		101.47	11.98
MW-11	5/12/09	114.24	102.82	11.42
	8/5/09		103.09	11.15
	2/10/10		103.09	11.15
	10/21/10		102.82	11.42
	5/18/11		102.31	11.93
MW-12	5/12/09	114.23	103.96	10.27
	8/5/09		103.24	10.99
	2/10/10		103.36	10.87
	10/21/10		102.90	11.33
	5/18/11		103.37	10.86

NOTES:

[1]Feet above mean sea level, based on May 2008 survey data.

[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 Laboratory Analytical Results for GRO and BTEX in Groundwater Samples
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
	MW1-041808	4/18/08	74	<1	<1	<1	<3
	MW1-090908	9/9/08	68	<1	<1	<1	<3
	MW1-051409	5/14/09	<50	<1	<1	<1	<3
	MW1-021110	2/11/10	<50	<1	<1	<1	<3
	MW1-102110	10/21/10	<50	<1	<1	<1	<3
	MW1-051811	5/18/11	<50	<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
	MW2-041808	4/18/08	**3,700**	<1	57	33	890
	MW2-090908	9/9/08	**20,000**	**<50**	**3,100**	470	**4,200**
	MW2-051309	5/13/09	**4,300**	<5	380	130	**1,100**
	MW2-021110	2/11/10	**15,000**	**<10**	160	590	**3,800**
	MW2-102210	10/22/10	**12,000**	**50**	15	420	**2,400**
	MW2-032111	3/21/11	**7,000**	**<10**	1.9	31	**1,400**
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
MTCA Method A Cleanup Levels for Groundwater[3]			**800**	**5**	**1,000**	**700**	**1,000**

Table 2
Summary of Laboratory Analytical Results for GRO and BTEX in Groundwater Samples
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-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
	MW3-041808	4/18/08	<50	<1	<1	<1	<3
	MW3-090908	9/9/08	<50	<1	<1	<1	<3
	MW3-051409	5/14/09	<50	<1	<1	<1	<3
	MW3-021110	2/11/10	<50	<1	<1	<1	<3
	MW3-102110	10/21/10	<50	<1	<1	<1	<3
	MW3-051811	5/18/11	<50	<1	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**	**1,600**	**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**
	MW4-041808	4/18/08	**140,000**	**530**	**42,000**	**1,600**	**9,400**
	MW4-090908	9/9/08	**120,000**	**150**	**40,000**	**2,000**	**11,000**
	QA/QC-1-090908	9/9/08	**120,000**	**150**	**43,000**	**1,900**	**11,000**
	MW4-051409	5/14/09	**83,000**	**<50**	**30,000**	**1,100**	**6,600**
	MW4-021110	2/11/10	**71,000**	**<50**	**20,000**	**940**	**5,900**
	MW4-102110	10/21/10	**32,000**	**<10**	**4,200**	**1,100**	**6,600**
	MW4-032111	3/21/11	**32,000**	**<10**	160	**870**	**6,900**
	MW4-051811	5/18/11	**33,000**	**<10**	550	**840**	**6,700**
MW-6	MW6-041708	4/18/08	**23,000**	**260**	**1,500**	530	**3,600**
	MW6-090908	9/9/08	**42,000**	**450**	**8,500**	**1,300**	**7,800**
	MW6-051409	5/14/09	**17,000**	**29**	**3,200**	250	**3,100**
	MW6-021110	2/11/10	**89,000**	**<100**	**16,000**	**1,800**	**14,000**
	MW6-102210	10/22/10	**39,000**	**<10**	**1,800**	**1,200**	**7,800**
	MW6-032111	3/21/11	**37,000**	**<20**	350	650	**9,200**
	MW6-051811	5/18/11	**49,000**	**<25**	270	690	**11,000**
MW-7	MW7-041808	4/18/08	**54,000**	**13,000**	**17,000**	420	**3,700**
	MW7-051409	5/14/09	**13,000**	**2,500**	**3,700**	180	**1,700**
MW-8	MW8-041808	4/18/08	**5,400**	<1	57	57	890
	QA/QC-1-041808	4/18/08	**5,600**	<1	42	55	930
	MW8-090908	9/9/08	**34,000**	**<50**	**3,500**	670	**6,700**
	MW8-051309	5/13/09	**60,000**	**<50**	**9,000**	**1,800**	**9,500**
MTCA Method A Cleanup Levels for Groundwater[3]			**800**	**5**	**1,000**	**700**	**1,000**

Table 2
Summary of Laboratory Analytical Results for GRO and BTEX in Groundwater Samples
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-8	QA/QC-051309	5/13/09	**57,000**	**<50**	**8,900**	**1,700**	**9,400**
	MW8-021110	2/11/10	**54,000**	**<50**	**3,900**	**2,000**	**12,000**
	MW8-102210	10/22/10	**58,000**	**<10**	770	**2,200**	**15,000**
	MW8-032111	3/21/11	**17,000**	**<10**	<10	600	**2,900**
	MW8-051811	5/18/11	**2,900**	<1	2.3	23	320
MW-9	MW9-051309	5/13/09	**94,000**	**18,000**	**32,000**	**1,500**	**7,600**
	MW9-021010	2/10/10	**32,000**	**10,000**	**9,800**	390	**1,800**
	MW9-102210	10/22/10	**160,000**	**15,000**	**42,000**	**2,700**	**14,000**
	MW9-032111	3/21/11	**260,000**	**13,000**	**55,000**	**5,300**	**27,000**
	MW9-051811	5/18/11	**230,000**	**18,000**	**55,000**	**4,000**	**21,000**
MW-10	MW10-051309	5/13/09	<50	<1	2	<1	<3
	MW10-021010	2/10/10	140	<1	3.3	1.5	7.3
	MW10-102210	10/22/10	<50	<1	4.0	<1	3.2
	MW10-051811	5/18/11	69	<1	2.6	<1	<3
MW-11	MW11-051309	5/13/09	**2,300**	**500**	530	19	230
	MW11-021010	2/10/10	**23,000**	**4,000**	**7,000**	340	**1,600**
	MW11-102210	10/22/10	**29,000**	**2,400**	**7,400**	**790**	**2,800**
	MW11-051811	5/18/11	**70,000**	**3,100**	**15,000**	**1,500**	**7,200**
MW-12	MW12-051309	5/13/09	**55,000**	**200**	**8,900**	**1,700**	**9,700**
	MW12-021010	2/10/10	**52,000**	**92**	**3,900**	**1,300**	**8,400**
	MW12-102210	10/22/10	**81,000**	**120**	**5,300**	**2,100**	**14,000**
	MW12-051811	5/18/11	**69,000**	**83**	**4,400**	**1,700**	**1,100**
MTCA Method A Cleanup Levels for Groundwater[3]			**800**	**5**	**1,000**	**700**	**1,000**

NOTES:

< denotes analyte not detected at or above the reporting limit listed.

Results in **bold** denote concentrations or laboratory reporting limits above applicable cleanup levels.

[1]Analyzed by Northwest Method NWTPH-Gx.

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

[3]Washington State Model Toxics Control Act Cleanup Regulation Method A Cleanup Levels for Groundwater, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised November 2007.

BTEX = benzene, toluene, ethylbenzene, and xylenes

GRO = total petroleum hydrocarbons as gasoline-range organics

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Farallon Consulting 1201 Cornwall Ave, Suite 105 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	3/29/2011 1103132 -01
CLIENT CONTACT:	Paul Grabau	DATE RECEIVED:	3/23/2011
CLIENT PROJECT:	454-001 Whidbey Auto & Marine	COLLECTION DATE:	3/21/2011 12:55
CLIENT SAMPLE ID	MW-2-032111	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**7000**	500	10	UG/L	03/25/2011	DLC
Benzene	EPA-8021	U	10	10	UG/L	03/25/2011	DLC
Toluene	EPA-8021	**1.9**	1.0	1	UG/L	03/24/2011	DLC
Ethylbenzene	EPA-8021	**31**	10	10	UG/L	03/25/2011	DLC
Xylenes	EPA-8021	**1400**	30	10	UG/L	03/25/2011	DLC
Sulfate	EPA-300.0	**21**	1.3	5	MG/L	03/24/2011	GAP

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	**99.6**	03/25/2011	DLC
TFT	EPA-8021	**84.0**	03/24/2011	DLC
TFT 10X Dilution	EPA-8021	**114**	03/25/2011	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered gasoline.

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ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Farallon Consulting 1201 Cornwall Ave, Suite 105 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	3/29/2011 1103132 -02
CLIENT CONTACT:	Paul Grabau	DATE RECEIVED:	3/23/2011
CLIENT PROJECT:	454-001 Whidbey Auto & Marine	COLLECTION DATE:	3/21/2011 13:33
CLIENT SAMPLE ID	MW-4-032111	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**32000**	2500	50	UG/L	03/25/2011	DLC
Benzene	EPA-8021	U	10	10	UG/L	03/24/2011	DLC
Toluene	EPA-8021	**160**	10	10	UG/L	03/24/2011	DLC
Ethylbenzene	EPA-8021	**870**	10	10	UG/L	03/24/2011	DLC
Xylenes	EPA-8021	**6900**	150	50	UG/L	03/25/2011	DLC
Sulfate	EPA-300.0	**810**	26	100	MG/L	03/24/2011	GAP

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 50X Dilution	NWTPH-GX	**102**	03/25/2011	DLC
TFT 10X Dilution	EPA-8021	**107**	03/24/2011	DLC
TFT 50X Dilution	EPA-8021	**115**	03/25/2011	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered gasoline.

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CERTIFICATE OF ANALYSIS

CLIENT:	Farallon Consulting 1201 Cornwall Ave, Suite 105 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	3/29/2011 1103132 -03
CLIENT CONTACT:	Paul Grabau	DATE RECEIVED:	3/23/2011
CLIENT PROJECT:	454-001 Whidbey Auto & Marine	COLLECTION DATE:	3/21/2011 11:47
CLIENT SAMPLE ID	MW-6-032111	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**37000**	1000	20	UG/L	03/25/2011	DLC
Benzene	EPA-8021	U	20	20	UG/L	03/25/2011	DLC
Toluene	EPA-8021	**350**	20	20	UG/L	03/25/2011	DLC
Ethylbenzene	EPA-8021	**650**	20	20	UG/L	03/25/2011	DLC
Xylenes	EPA-8021	**9200**	150	50	UG/L	03/28/2011	DLC
Sulfate	EPA-300.0	**31**	1.3	5	MG/L	03/24/2011	GAP

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 20X Dilution	NWTPH-GX	**98.1**	03/25/2011	DLC
TFT 20X Dilution	EPA-8021	**117**	03/25/2011	DLC
TFT 50X Dilution	EPA-8021	**112**	03/28/2011	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered gasoline.

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CERTIFICATE OF ANALYSIS

CLIENT:	Farallon Consulting 1201 Cornwall Ave, Suite 105 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	3/29/2011 1103132 -04
CLIENT CONTACT:	Paul Grabau	DATE RECEIVED:	3/23/2011
CLIENT PROJECT:	454-001 Whidbey Auto & Marine	COLLECTION DATE:	3/21/2011 13:40
CLIENT SAMPLE ID	MW-8-032111	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**17000**	500	10	UG/L	03/25/2011	DLC
Benzene	EPA-8021	U	10	10	UG/L	03/25/2011	DLC
Toluene	EPA-8021	U	10	10	UG/L	03/25/2011	DLC
Ethylbenzene	EPA-8021	**600**	10	10	UG/L	03/25/2011	DLC
Xylenes	EPA-8021	**2900**	60	20	UG/L	03/28/2011	DLC
Sulfate	EPA-300.0	**22**	1.3	5	MG/L	03/24/2011	GAP

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	**97.4**	03/25/2011	DLC
TFT 10X Dilution	EPA-8021	**115**	03/25/2011	DLC
TFT 20X Dilution	EPA-8021	**118**	03/28/2011	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered gasoline.

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ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Farallon Consulting 1201 Cornwall Ave, Suite 105 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	3/29/2011 1103132 -05
CLIENT CONTACT:	Paul Grabau	DATE RECEIVED:	3/23/2011
CLIENT PROJECT:	454-001 Whidbey Auto & Marine	COLLECTION DATE:	3/21/2011 15:00
CLIENT SAMPLE ID	MW-9-032111	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**260000**	10000	200	UG/L	03/25/2011	DLC
Benzene	EPA-8021	**13000**	200	200	UG/L	03/25/2011	DLC
Toluene	EPA-8021	**55000**	1000	1000	UG/L	03/29/2011	DLC
Ethylbenzene	EPA-8021	**5300**	200	200	UG/L	03/25/2011	DLC
Xylenes	EPA-8021	**27000**	600	200	UG/L	03/25/2011	DLC
Sulfate	EPA-300.0	**0.99**	0.26	1	MG/L	03/24/2011	GAP

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 200X Dilution	NWTPH-GX	**106**	03/25/2011	DLC
TFT 200X Dilution	EPA-8021	**122**	03/25/2011	DLC
TFT 1000X Dilution	EPA-8021	**101**	03/29/2011	DLC

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

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ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Farallon Consulting 1201 Cornwall Ave, Suite 105 Bellingham, WA 98225	DATE: ALS JOB#: WDOE ACCREDITATION:	3/29/2011 1103132 C601
CLIENT CONTACT:	Paul Grabau		
CLIENT PROJECT:	454-001 Whidbey Auto & Marine		

LABORATORY BLANK RESULTS

MBG-032311W

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	03/23/2011	DLC

MB-032311W

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	U	1.0	1	UG/L	03/23/2011	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	03/23/2011	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	03/23/2011	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	03/23/2011	DLC

MBLK-3242011

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Sulfate	EPA-300.0	U	0.26	1	MG/L	03/24/2011	GAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Farallon Consulting 1201 Cornwall Ave, Suite 105 Bellingham, WA 98225	DATE: ALS JOB#: WDOE ACCREDITATION:	3/29/2011 1103132 C601
CLIENT CONTACT:	Paul Grabau		
CLIENT PROJECT:	454-001 Whidbey Auto & Marine		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 1595 - Water by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	**91.4**			03/23/2011	DLC
TPH-Volatile Range - BSD	NWTPH-GX	**98.4**	**7**		03/23/2011	DLC

ALS Test Batch ID: 1595 - Water by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	SW8021	**99.9**			03/23/2011	DLC
Benzene - BSD	SW8021	**104**	**3**		03/23/2011	DLC
Toluene - BS	SW8021	**95.6**			03/23/2011	DLC
Toluene - BSD	SW8021	**99.3**	**3**		03/23/2011	DLC
Ethylbenzene - BS	SW8021	**92.4**			03/23/2011	DLC
Ethylbenzene - BSD	SW8021	**96.4**	**4**		03/23/2011	DLC
Xylenes - BS	SW8021	**92.1**			03/23/2011	DLC
Xylenes - BSD	SW8021	**96.1**	**4**		03/23/2011	DLC

ALS Test Batch ID: R72856 - Water by EPA-300.0

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Sulfate - BS	EPA300.0	**90.0**			03/24/2011	GAP
Sulfate - BSD	EPA300.0	**88.0**	**2**		03/24/2011	GAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Farallon Consulting 1201 Cornwall Ave, Suite 105 Bellingham, WA 98225	DATE: ALS JOB#: WDOE ACCREDITATION:	3/29/2011 1103132 C601
CLIENT CONTACT:	Paul Grabau		
CLIENT PROJECT:	454-001 Whidbey Auto & Marine		

MATRIX SPIKE RESULTS

ALS Test Batch ID: 1595 - Water by NWTPH-GX

Parent Sample: BATCH QC

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - MS	NWTPH-GX	**78.7**			03/23/2011	DLC
TPH-Volatile Range - MSD	NWTPH-GX	**85.1**	**7**		03/23/2011	DLC

APPROVED BY

Laboratory Director

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ALS Laboratory Group A Campbell Brothers Limited Company

CCI Analytical Laboratories, Inc.
8620 Holly Drive
Everett, WA 98208
Phone (425) 356-2600
(206) 292-9059 Seattle
(425) 356-2626 Fax
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Chain Of Custody/ Laboratory Analysis Request

CCI Job# 110313 2 (Laboratory Use Only)

Date 3/22/11 Page ___ Of ___

PROJECT ID: 454-001 Whidbey Auto & Marine
REPORT TO COMPANY: Farallon Consulting
PROJECT MANAGER: Paul Grabau
ADDRESS:
PHONE: (425) 295-0803 FAX:
P.O. NUMBER: E-MAIL: pgrabau@farallonconsulting.com
INVOICE TO COMPANY: Colony Insurance
ATTENTION: Matt Miller of the Antea Group
ADDRESS:

ANALYSIS REQUESTED columns: 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; Ethylene dibromide (EDB) by EPA-8260 EPA-504.1; 1,2 Dichloroethene (EDC) by EPA-8260; 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): Sulfate 300.0

	SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-GX	BTEX by EPA-8021	Sulfate 300.0	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1.	MW-2-032111	3/21/11	1255	Water	1	X	X	X	3	
2.	MW-4-032111	|	1333	|	2	X	X	X	3	
3.	MW-6-032111	|	1147	|	3	X	X	X	3	
4.	MW-8-032111	|	1340	|	4	X	X	X	3	
5.	MW-9-032111	|	1500	|	5	X	X	X	3	
6.										
7.										
8.										
9.										
10.										

EJE

SPECIAL INSTRUCTIONS - Direct bill to Colony Insurance Care of Matt Miller of the Antea Group. Send Results to Paul Grabau.

SIGNATURES (Name, Company, Date/Time):
1. Relinquished By: Emerald Erikson, Farallon Consulting, 3/22/11 0945
Received By: [signature] ALS 3/23/11 12:25pm
2. Relinquished By:
Received By:

TURNAROUND REQUESTED in Business Days*
Organic, Metals & Inorganic Analysis: [X] Standard 5 3 2 1 SAME DAY
Fuels & Hydrocarbon Analysis: [X] Standard 3 1 SAME DAY
OTHER:
Specify:

* Turnaround request less than standard may incur Rush Charges

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Farallon Consulting 1201 Cornwall Ave, Suite 105 Bellingham, WA 98225	DATE:	5/27/2011
		ALS JOB#:	1105098
		ALS SAMPLE#:	-01
CLIENT CONTACT:	Paul Grabau	DATE RECEIVED:	5/20/2011
CLIENT PROJECT:	454-001	COLLECTION DATE:	5/18/2011 14:43
CLIENT SAMPLE ID	MW1-051811	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	05/20/2011	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	05/20/2011	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	05/20/2011	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	05/20/2011	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	05/20/2011	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**93.9**	05/20/2011	DLC
TFT	EPA-8021	**113**	05/20/2011	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Farallon Consulting 1201 Cornwall Ave, Suite 105 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	5/27/2011 1105098 -02
CLIENT CONTACT:	Paul Grabau	DATE RECEIVED:	5/20/2011
CLIENT PROJECT:	454-001	COLLECTION DATE:	5/18/2011 14:19
CLIENT SAMPLE ID	MW3-051811	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	05/20/2011	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	05/20/2011	DLC
Toluene	EPA-8021	**1.1**	1.0	1	UG/L	05/20/2011	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	05/20/2011	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	05/20/2011	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**91.8**	05/20/2011	DLC
TFT	EPA-8021	**109**	05/20/2011	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Farallon Consulting 1201 Cornwall Ave, Suite 105 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	5/27/2011 1105098 -03
CLIENT CONTACT:	Paul Grabau	DATE RECEIVED:	5/20/2011
CLIENT PROJECT:	454-001	COLLECTION DATE:	5/18/2011 16:30
CLIENT SAMPLE ID	MW4-051811	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**33000**	1200	25	UG/L	05/23/2011	DLC
Benzene	EPA-8021	U	10	10	UG/L	05/20/2011	DLC
Toluene	EPA-8021	**550**	10	10	UG/L	05/20/2011	DLC
Ethylbenzene	EPA-8021	**840**	10	10	UG/L	05/20/2011	DLC
Xylenes	EPA-8021	**6700**	75	25	UG/L	05/23/2011	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 25X Dilution	NWTPH-GX	**93.1**	05/23/2011	DLC
TFT 10X Dilution	EPA-8021	**131**	05/20/2011	DLC
TFT 25X Dilution	EPA-8021	**99.8**	05/23/2011	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered gasoline.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Farallon Consulting 1201 Cornwall Ave, Suite 105 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	5/27/2011 1105098 -04
CLIENT CONTACT:	Paul Grabau	DATE RECEIVED:	5/20/2011
CLIENT PROJECT:	454-001	COLLECTION DATE:	5/18/2011 15:50
CLIENT SAMPLE ID	MW6-051811	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**49000**	1200	25	UG/L	05/23/2011	DLC
Benzene	EPA-8021	U	25	25	UG/L	05/23/2011	DLC
Toluene	EPA-8021	**270**	25	25	UG/L	05/23/2011	DLC
Ethylbenzene	EPA-8021	**690**	25	25	UG/L	05/23/2011	DLC
Xylenes	EPA-8021	**11000**	150	50	UG/L	05/24/2011	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 25X Dilution	NWTPH-GX	**89.9**	05/23/2011	DLC
TFT 25X Dilution	EPA-8021	**99.6**	05/23/2011	DLC
TFT 50X Dilution	EPA-8021	**91.2**	05/24/2011	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered gasoline.

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ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Farallon Consulting 1201 Cornwall Ave, Suite 105 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	5/27/2011 1105098 -05
CLIENT CONTACT:	Paul Grabau	DATE RECEIVED:	5/20/2011
CLIENT PROJECT:	454-001	COLLECTION DATE:	5/18/2011 15:17
CLIENT SAMPLE ID	MW8-051811	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**2900**	250	5	UG/L	05/23/2011	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	05/20/2011	DLC
Toluene	EPA-8021	**2.3**	1.0	1	UG/L	05/20/2011	DLC
Ethylbenzene	EPA-8021	**23**	1.0	1	UG/L	05/20/2011	DLC
Xylenes	EPA-8021	**320**	3.0	1	UG/L	05/20/2011	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 5X Dilution	NWTPH-GX	**93.0**	05/23/2011	DLC
TFT	EPA-8021	**113**	05/20/2011	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered gasoline.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Farallon Consulting 1201 Cornwall Ave, Suite 105 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	5/27/2011 1105098 -06
CLIENT CONTACT:	Paul Grabau	DATE RECEIVED:	5/20/2011
CLIENT PROJECT:	454-001	COLLECTION DATE:	5/18/2011 11:43
CLIENT SAMPLE ID	MW9-051811	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**230000**	25000	500	UG/L	05/23/2011	DLC
Benzene	EPA-8021	**18000**	500	500	UG/L	05/23/2011	DLC
Toluene	EPA-8021	**55000**	1000	1000	UG/L	05/24/2011	DLC
Ethylbenzene	EPA-8021	**4000**	500	500	UG/L	05/23/2011	DLC
Xylenes	EPA-8021	**21000**	1500	500	UG/L	05/23/2011	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 500X Dilution	NWTPH-GX	**81.4**	05/23/2011	DLC
TFT 500X Dilution	EPA-8021	**96.4**	05/23/2011	DLC
TFT 1000X Dilution	EPA-8021	**95.4**	05/24/2011	DLC

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

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ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Farallon Consulting 1201 Cornwall Ave, Suite 105 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	5/27/2011 1105098 -07
CLIENT CONTACT:	Paul Grabau	DATE RECEIVED:	5/20/2011
CLIENT PROJECT:	454-001	COLLECTION DATE:	5/18/2011 13:10
CLIENT SAMPLE ID	MW10-051811	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**69**	50	1	UG/L	05/23/2011	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	05/23/2011	DLC
Toluene	EPA-8021	**2.6**	1.0	1	UG/L	05/23/2011	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	05/23/2011	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	05/23/2011	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**79.9**	05/23/2011	DLC
TFT	EPA-8021	**84.5**	05/23/2011	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Farallon Consulting 1201 Cornwall Ave, Suite 105 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	5/27/2011 1105098 -08
CLIENT CONTACT:	Paul Grabau	DATE RECEIVED:	5/20/2011
CLIENT PROJECT:	454-001	COLLECTION DATE:	5/18/2011 12:30
CLIENT SAMPLE ID	MW11-051811	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**70000**	2500	50	UG/L	05/23/2011	DLC
Benzene	EPA-8021	**3100**	50	50	UG/L	05/23/2011	DLC
Toluene	EPA-8021	**15000**	200	200	UG/L	05/23/2011	DLC
Ethylbenzene	EPA-8021	**1500**	50	50	UG/L	05/23/2011	DLC
Xylenes	EPA-8021	**7200**	150	50	UG/L	05/23/2011	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 50X Dilution	NWTPH-GX	**80.4**	05/23/2011	DLC
TFT 50X Dilution	EPA-8021	**91.1**	05/23/2011	DLC
TFT 200X Dilution	EPA-8021	**90.8**	05/23/2011	DLC

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Farallon Consulting 1201 Cornwall Ave, Suite 105 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	5/27/2011 1105098 -09
CLIENT CONTACT:	Paul Grabau	DATE RECEIVED:	5/20/2011
CLIENT PROJECT:	454-001	COLLECTION DATE:	5/18/2011 13:46
CLIENT SAMPLE ID	MW12-051811	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**69000**	2500	50	UG/L	05/24/2011	DLC
Benzene	EPA-8021	**83**	25	25	UG/L	05/23/2011	DLC
Toluene	EPA-8021	**4400**	50	50	UG/L	05/24/2011	DLC
Ethylbenzene	EPA-8021	**1700**	25	25	UG/L	05/23/2011	DLC
Xylenes	EPA-8021	**11000**	150	50	UG/L	05/24/2011	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 50X Dilution	NWTPH-GX	**80.7**	05/24/2011	DLC
TFT 25X Dilution	EPA-8021	**95.1**	05/23/2011	DLC
TFT 50X Dilution	EPA-8021	**101**	05/24/2011	DLC

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Farallon Consulting 1201 Cornwall Ave, Suite 105 Bellingham, WA 98225	DATE:	5/27/2011
		ALS SDG#:	1105098
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Paul Grabau		
CLIENT PROJECT:	454-001		

LABORATORY BLANK RESULTS

MBG-052011W - Batch 1781 - Water by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	05/20/2011	DLC

MB-052011W - Batch 1781 - Water by EPA-8021

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	U	1.0	1	UG/L	05/20/2011	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	05/20/2011	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	05/20/2011	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	05/20/2011	DLC

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

CERTIFICATE OF ANALYSIS

CLIENT:	Farallon Consulting 1201 Cornwall Ave, Suite 105 Bellingham, WA 98225	DATE:	5/27/2011
		ALS SDG#:	1105098
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Paul Grabau		
CLIENT PROJECT:	454-001		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 1781 - Water by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	**99.4**			05/20/2011	DLC
TPH-Volatile Range - BSD	NWTPH-GX	**86.6**	**14**		05/20/2011	DLC

ALS Test Batch ID: 1781 - Water by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	**109**			05/20/2011	DLC
Benzene - BSD	EPA-8021	**115**	**5**		05/20/2011	DLC
Toluene - BS	EPA-8021	**103**			05/20/2011	DLC
Toluene - BSD	EPA-8021	**109**	**5**		05/20/2011	DLC
Ethylbenzene - BS	EPA-8021	**100**			05/20/2011	DLC
Ethylbenzene - BSD	EPA-8021	**106**	**5**		05/20/2011	DLC
Xylenes - BS	EPA-8021	**101**			05/20/2011	DLC
Xylenes - BSD	EPA-8021	**106**	**5**		05/20/2011	DLC

APPROVED BY

Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

ALS Laboratory Group
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
(206) 292-9059 Seattle
(425) 356-2626 Fax
http://www.alsenviro.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): 1105098

Date 5/19/11 Page 1 Of 1

PROJECT ID: 454-001
REPORT TO COMPANY: Farallon Consulting
PROJECT MANAGER: Paul Grabau
ADDRESS: 1201 Cornwall Ave, Suite 105
Bellingham, WA 98225
PHONE: 360-527-0241 FAX: 360-527-0243
P.O. NUMBER: E-MAIL: pgrabau@farallonconsulting.com
INVOICE TO COMPANY: Delta Environmental
ATTENTION:
ADDRESS:

ANALYSIS REQUESTED

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. MW1-051811	5/18/11	1443	W	1			X	X													2	
2. MW3-051811		1419		2																		
3. MW4-051811		1630		3																		
4. MW6-051811		1550		4																		
5. MW8-051811		1517		5																		
6. MW9-051811		1143		6																		
7. MW10-051811		1310		7																		
8. MW11-051811		1230		8																		
9. MW12-051811		1346		9																		
10.																						

LABORATORY COPY

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):
1. Relinquished By: [signature], Farallon, 5/19/11, 1600
Received By:
2. Relinquished By:
Received By: Shawn Robinson ALS 5/20/11 9:15

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