Groundwater Monitoring Report (Third Quarterly Event)

Ione Petroleum Contamination Site
Ione, Washington

for
Washington State Department of Ecology and Science Applications International Corporation

May 5, 2011

GeoEngineers
Earth Science + Technology

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523 East Second Avenue
Spokane, Washington 99202
509.363.3125

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File No. 0504-058-00

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Prepared for:

Washington State Department of Ecology
Toxics Cleanup Program
4601 North Monroe Street
Spokane, Washington 99205

Attention: Doug Ladwig, PG, PHG, Site Manager

Prepared by:

GeoEngineers, Inc.
523 East Second Avenue
Spokane, Washington 99202
509.363.3125

Kevin L. Randall
Staff Hydrogeologist

Bruce D. Williams
Principal

Dave R. Lauder, PE
Senior Engineer

KLR:BDW:tlm
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cc: SAIC, Glen Vedera, Senior Geologist

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Table of Contents

INTRODUCTION

This report presents results of the third quarterly groundwater monitoring event performed at the Ione Petroleum Contamination Site located near Ione, Washington. Details regarding the site are presented in previous reports for this project including a report titled "Site Characterization Report, Ione Petroleum Contamination Site, Ione, Washington," (GeoEngineers, Inc., October 14, 2010), and an addendum report titled "Supplemental Site Characterization Report, Ione Petroleum Contamination Site, Ione, Washington," (GeoEngineers, Inc., January 3, 2011).

The third quarterly groundwater monitoring event was conducted on February 9, February 16, 17, and February 21, 2011 in general accordance with the work plan developed for this project. The purpose of the quarterly groundwater monitoring program is to evaluate the nature and extent of contamination in groundwater beneath the site.

The approximate location of the site is shown in the Vicinity Map, Figure 1. Key site features, including general locations of groundwater monitoring wells, are shown in Groundwater Elevations and Flow Direction – February 9, 2011, Figure 2. This report includes a site background, hydrogeologic data, groundwater quality data, and conclusions.

SITE BACKGROUND

Details regarding site history are presented in the Site Characterization Report. Before site characterization activities commenced in April 2010, petroleum hydrocarbons had twice been detected in groundwater samples collected from the domestic well at the Cabin Grill restaurant. Currently, a carbon filtration system to remove petroleum from the water supply is operating at the Cabin Grill.

Potential sources of petroleum contamination included two properties located west (upgradient) of the Cabin Grill. The Airport Kwik Stop previously sold regular and premium gasoline, which was contained in three underground storage tanks (USTs). Two tanks were removed in 1994, and the third tank was reportedly closed in place. Currently, aboveground storage tanks (ASTs) are located behind (west of) the Airport Kwik Stop. In May 2008, a flex pipe beneath the premium fuel dispenser was observed to be spraying gasoline inside the dispenser. The flex pipe was repaired and subsequently, after passing a tightness test, returned to service. The Kwik Stop fueling system has not been in operation since fall 2008. Two USTs were installed at the Ione Airport in about 1974/1975. The tanks were removed in 2008. Soil contamination was discovered during removal of the westernmost tank.

The project site includes the Cabin Grill, Airport Kwik Stop, and Ione Airport properties and other adjacent properties. During site characterization activities, 23 direct-push borings and 5 hollow-stem auger exploratory borings were drilled; and 12 monitoring wells were installed. Results of field screening of soil samples and analytical testing of soil and groundwater samples indicated petroleum-contaminated soil and groundwater was located beneath the Airport Kwik Stop near the fuel dispensers. Petroleum-contaminated soil and groundwater also was observed beneath the Cabin Grill property and the vacant property north of the Cabin Grill.

This report is the second quarterly groundwater monitoring report and third groundwater monitoring event for this project. Results of the first quarterly monitoring event are presented in the Site Characterization Report. Results of the second quarterly monitoring event are presented in the report titled "Groundwater Monitoring Report (Second Quarterly Event), Ione Petroleum Contamination Site, Ione Washington," dated January 25, 2011.

HYDROGEOLOGIC DATA

General

Fluid (water and petroleum product) levels were measured on February 9, 2011 at the 12 existing site monitoring wells (MW-1 through MW-12). Fluid elevations were calculated by comparing measured fluid depths to wellhead elevations and are referenced to the North American Vertical Datum of 1988 (NAVD 88).

Fluid depths and elevations are presented in Summary of Groundwater Level measurements, Table 1. Groundwater elevation data, and interpreted groundwater elevation distribution and flow direction, are graphically presented in Figure 2. Field methods are described in Appendix A.

Fluid Elevations

Depth to groundwater measurements during the February 9, 2011 monitoring event, referenced to the top rim of the PVC well casing, ranged from 16.05 feet in MW-10 to 39.80 feet in MW-6. Corresponding groundwater elevations ranged from 2,069.51 feet in MW-10 to 2,076.69 feet in MW-1.

Using an interface probe, petroleum product was measured in monitoring well MW-5 at a depth of about 37.97 feet (Elevation 2,071.38 feet) during the February 9, 2011 monitoring event. Depth to groundwater in MW-5 was about 38.72 feet (Elevation 2,070.56 feet), indicating about 0.75 feet of petroleum product within the well. The relative densities of gasoline and groundwater were used to develop an estimate for the equivalent groundwater elevation (in the absence of petroleum product) in the following equation:

$$GW = (SG \times T) + IE$$

where GW = equivalent groundwater elevation;
SG = specific gravity of product (0.75 for gasoline);
T = thickness of product measured in water using oil/water interface probe; and
IE = elevation of water/product interface measured in the well.

This analysis yielded an equivalent groundwater elevation estimate of 2,071.12 feet in monitoring well MW-5.

Groundwater elevations decreased in all site monitoring wells relative to the previous groundwater monitoring event conducted on November 10, 2010. Monitoring well MW-1 was observed to have the most significant change in groundwater elevation decreasing 0.36 feet relative to the previous monitoring event, while monitoring wells MW-2 through MW-12 showed a decrease in groundwater elevation ranging between 0.09 feet (MW-10) and 0.14 feet (MW-2). Groundwater elevations on

average decreased about 0.13 feet relative to the previous monitoring event (November 10, 2010).

Hydraulic Gradient and Groundwater Flow Direction

Interpreted groundwater flow direction during the February 9, 2011 groundwater monitoring event generally was east-southeast; away from upland recharge areas to the west and towards the Pend Oreille River to the east. However, the local distribution in groundwater elevation, flow direction and gradient observed at the site was relatively complex. Within the west portion of the site (approximately between monitoring wells MW-1 and MW-8), hydraulic gradient was relatively steep at about 2×10^{-2} feet per foot (about 90 feet per mile) and groundwater flowed east. Within the east portion of the site (approximately between monitoring wells MW-8 and MW-10), hydraulic gradient flattened significantly, averaging about 2×10^{-3} feet per foot (about 9 feet per mile) and groundwater flowed southeast. Variation in hydraulic gradient could be caused by soil permeability variation across the site (an increase in permeability to the east), the geometry of perching layers, and/or Pend Oreille River stage. Indications of a cone of depression centered around the Cabin Grill well and groundwater mounding related to the septic drain field located to the east of the Cabin Grill were not observed.

GROUNDWATER ANALYTICAL RESULTS

General

Groundwater samples were collected from monitoring wells MW-1 through MW-12 on February 16 and 17, 2011 and from the Cabin Grill well on February 21, 2011 and submitted to Anatek Laboratories (Anatek) in Spokane, Washington for analysis of gasoline-range petroleum hydrocarbons (GRPH) and volatile organic compounds (VOCs). As specified in the Work Plan dated April 9, 2010, analyzing for lead was discontinued after the second quarterly sampling event with no detections.

Groundwater samples from the monitoring wells were collected using a portable bladder pump consistent with the U.S. Environmental Protection Agency (EPA) low-flow groundwater sampling procedure and summarized in Appendix A of this report. Purge water was retained in 55-gallon drums for subsequent disposal. The sample from the Cabin Grill well was collected from a port located within the Cabin Grill well house. The port is located upstream (before treatment) from the storage tanks and carbon filtration system.

During the February 2011 monitoring event, a laboratory-blind duplicate was collected from monitoring well MW-4 and labeled “Duplicate-1.” A trip blank also was collected.

Groundwater analytical results for the third quarterly groundwater sampling event in February 2011 are provided in Summary of Groundwater Chemical Analytical Results – Monitoring Well Samples, Table 2. Copies of original laboratory certificates are included in Appendix B.

Upon review of laboratory analytical data, contaminant concentrations for the Risk Based Corrective Action (RBCA) volatiles list and the full 8260C list for the RBCA analytes were not equivalent for the samples collected from well MW-4 (samples MW-4-021711 and Duplicate-1). The discrepancy was discussed with the analytical lab, who provided an explanation in a case

narrative. The laboratory determined a matrix interference between the preserved vials and the unpreserved vials was responsible for the discrepancy between the RBCA volatiles list and the full 8260C list for the RBCA analytes. The analytical laboratory concluded the concentrations from the preserved vials were significantly higher than concentrations from the unpreserved vials for these two samples. The preserved vials and unpreserved vials were both analyzed for the remaining samples and there were no other discrepancies. A copy of the case narrative dated March 18, 2011 is provided in Appendix B. Note that the purpose of the RBCA analyses was to evaluate concentrations of certain VOCs, particularly 1,2-dibromoethane (EDB), at practical quantitation limits (PQLs) at or below Model Toxics Control Act (MTCA) Method A cleanup levels.

The data from the preserved vials are likely the more representative data for VOC concentrations from the groundwater samples collected from MW-4. The VOC analytes showing a discrepancy between the RBCA volatiles list and the full 8260C list included: benzene, ethylbenzene, m+p-Xylene, naphthalene, o-Xylene, and toluene. The results from the preserved vials are reported in Table 2 and discussed in this report.

Ione Airport

GRPH and VOCs were not detected in the sample from MW-2. PQLs were reported at concentrations less than the MTCA Method A cleanup levels for groundwater.

Airport Kwik Stop

GRPH, benzene, toluene and total xylenes (the sum of m,p-xylene and o-xylene) were detected in the sample from MW-8 at concentrations (13,400, 3,280, 2,010 and 2,038 micrograms per liter [µg/L], respectively) greater than the MTCA Method A cleanup levels (800 µg/L, 5 µg/L, 1,000 µg/L and 1,000 µg/L, respectively). Ethylbenzene also was detected in the sample from MW-8 at a concentration of 421 µg/L, which is less than the MTCA Method A cleanup level (700 µg/L). Well MW-8 is located near and downgradient of the fuel dispensers.

1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene also were detected in the groundwater sample from MW-8 at concentrations of 191 µg/L and 85.7 µg/L, respectively. MTCA Method A cleanup levels have not been established for these contaminants. Other VOCs were not detected. However, the reported PQLs for the non-detect VOCs with established MTCA Method A cleanup levels were elevated to greater than the applicable cleanup levels because of the high concentrations of BTEX contaminants required dilution of the samples before analyzation.

GRPH and VOCs were either not detected or were detected at concentrations less than the MTCA Method A cleanup levels in the samples from MW-1 and MW-7. Wells MW-1 and MW-7 are located upgradient of the Airport Kwik Stop fuel dispensers.

Cabin Grill

GRPH was detected in samples from MW-5 and MW-6 and the Cabin Grill well at concentrations (110,000 µg/L, 15,600 µg/L, and 21,500 µg/L, respectively) greater than the MTCA Method A cleanup level. Benzene was detected in these three samples at concentrations (1,010 µg/L, 3,820 µg/L, and 440 µg/L, respectively) greater than the MTCA Method A cleanup level. Samples from MW-5 and MW-6 and the Cabin Grill well also contained total xylenes at concentrations

(12,920 µg/L, 1,906 µg/L, and 2,790 µg/L, respectively) greater than the MTCA Method A cleanup level. The sample from MW-5 also contained ethylbenzene (2,200 µg/L) at a concentration greater than the MTCA Method A cleanup level. Toluene was detected in samples from MW-5 and the Cabin Grill at concentrations (13,800 µg/L and 2,210 µg/L, respectively) greater than the MTCA Method A cleanup level. The sample from MW-5 contained naphthalene (364 µg/L) at a concentration greater than the MTCA Method A cleanup level. Wells MW-5, MW-6, and the Cabin Grill well are located downgradient of the Airport Kwik Stop fuel dispensers.

1,2,4-trimethlybenzene, 1,3,5-trimethybenzene, isopropylbenzene, n-butylbenzene and n-propylbenzene also were detected in the groundwater sample from MW-5 at concentrations of 2,250 µg/L, 850 µg/L, 118 mg/L, 94.6 µg/L and 346 µg/L, respectively. 1,2,4-trimethylbenzene, 1,3,5-trimethybenzene and n-propylbenzene were detected in the groundwater sample for the Cabin Grill well at concentrations of 216 µg/L, 159 µg/L and 92.8 µg/L, respectively. MTCA Method A cleanup levels have not been established for these contaminants. Other VOCs were not detected. However, the reported PQLs for the non-detect VOCs with established MTCA Method A cleanup levels were elevated to greater than the applicable cleanup levels because the high concentrations of BTEX contaminants required dilution of the samples before analyzation.

The sample from MW-4 and the duplicate sample (Duplicate-1) from MW-4 did not contain GRPH or VOCs at concentrations greater than the MTCA Method A cleanup levels. Other VOCs were not detected, or were detected at concentrations less than cleanup levels. However, the reported PQL for the duplicate sample has been elevated to greater than the applicable cleanup level for EDB.

Vacant Property

GRPH was detected in the groundwater sample collected from MW-3 at a concentration (24,200 µg/L) greater than the MTCA Method A cleanup level. Benzene, toluene and total xylenes were detected at concentrations (1,980 µg/L, 3,350 µg/L and 3,001 µg/L, respectively) greater than MTCA Method A cleanup levels. Ethylbenzene and naphthalene were detected at concentrations at 647 µg/L and 107 µg/L, respectively, less than MTCA Method A cleanup levels. 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene were detected in the groundwater sample from MW-3 at concentrations of 353 µg/L and 171 µg/L, respectively. Other VOCs from the sample from MW-3 were not detected. However, the reported PQLs for the non-detected VOCs with established MTCA Method A cleanup levels were elevated to greater than the applicable cleanup levels because the high concentrations of BTEX contaminants required dilution of the samples before analyzation.

GRPH was detected in the groundwater samples collected from MW-11 and MW-12 (140 µg/L and 126 µg/L, respectively) at concentrations less than the MTCA Method A cleanup level (800 µg/L). VOCs were not detected in the groundwater samples collected from MW-11 and MW-12. GRPH and VOCs were not detected in the groundwater samples collected from MW-9 and MW-10, with the exception that methyl tert butyl ether (MTBE) was detected in the sample from MW-10 at a concentration (0.59 µg/L) less than the MTCA Method A cleanup level (20 µg/L).

SUMMARY AND CONCLUSIONS

During the February 2011 monitoring event, groundwater depths in monitoring wells MW-1 through MW-12 ranged from 16.05 feet to 39.80 feet below the top of the well casings and groundwater elevations ranged from 2,069.51 feet to 2,076.69 feet. Groundwater elevations ranged from 0.09 to 0.36 feet lower than elevations measured in November 2011. About 0.75 feet of product was measured on the groundwater surface in well MW-5, based on the oil-water interface probe measurements. A disposable bailer also was lowered into MW-5 to sample across the oil-water interface. We measured approximately 2 to 3 inches of floating gasoline product and about 6 inches of clear liquid with a noticeable difference in density than the underlying water in the groundwater sample obtained from the bailer.

Groundwater flow during the February 2011 monitoring event generally was towards the east-southeast, under varying hydraulic gradients, ranging between about 2 x 10^{-3} feet per foot (ft/ft) within eastern portions of the site to about 2 x 10^{-2} ft/ft within western portions of the site. This magnitude is consistent with previous measurements at the site.

Groundwater samples were collected for chemical analysis in monitoring wells MW-1 through MW-12 and from the Cabin Grill domestic well during the February 2011 sampling event. Chemical analytical results are summarized by the following:

- GRPH and/or BTEX concentrations exceeded MTCA Method A cleanup levels in groundwater samples from MW-3, MW-5, MW-6, MW-8 and the Cabin Grill domestic well. These wells are located downgradient and east-southeast of the Airport Kwik Stop fuel dispensers. Well MW-6 is located about 600 feet from the dispensers.
- GRPH and VOCs were not detected in groundwater samples from upgradient wells MW-1 and MW-7, nor in crossgradient well MW-2.
- GRPH was detected in groundwater samples from the cross- and downgradient wells MW-11 and MW-12; however, the concentrations did not exceed the MTCA Method A cleanup levels. VOCs were not detected in groundwater samples from MW-11 and MW-12.
- GRPH and VOCs were not detected in the cross- and downgradient wells (MW-9 and MW-10), with the exception that MTBE was detected in the sample from MW-10 at a concentration of 0.59 µg/L.
- The highest concentration of GRPH detected during the third quarterly groundwater monitoring event was from the sample collected in monitoring well MW-5 at a concentration of 110,000 µg/L (about 140 times greater than the MTCA Method A cleanup level).
- The highest concentration of benzene detected during the third quarterly groundwater monitoring event was from the sample collected in monitoring well MW-6 at a concentration of 3,820 µg/L (about 800 times greater than the MTCA Method A cleanup level).

The following bulleted items summarize changes in concentrations from the third quarter 2010 sampling event relative to the previously-collected samples in each site monitoring well:

- Concentrations of GRPH and BTEX compounds decreased in well MW-4.

- In general, concentrations of GRPH and BTEX compounds were higher in wells MW-3, MW-5, and MW-8.
- In general, concentrations of GRPH and BTEX compounds were lower in monitoring well MW-6 and in the Cabin Grill domestic well.
- Benzene concentrations increased in wells MW-5, MW-8, and the Cabin Grill domestic well, and decreased in MW-4 and MW-6, and increased an insignificant amount in MW-3.

Based on review of all three sampling events, concentrations of GRPH and BTEX compounds from groundwater samples from the contaminated wells (MW-3, MW-5, MW-8 and the Cabin Grill domestic well) have not indicated any specific trends. Results from wells MW-4 and MW-6 have shown a general trend of decreasing GRPH and BTEX concentrations for the three sampling events.

Results of analytical testing indicate the shallow aquifer underlying the Airport Kwik Stop; Cabin Grill and vacant properties is contaminated with GRPH and VOCs, particularly BTEX compounds. Results also indicate the edges of the plume likely is located between wells MW-4 and MW-12 on the south (and might have reached MW-12), between wells MW-6 and MW-10, MW-11 (and might have reached MW-10 and MW-11) near the central portion of the plume, and between wells MW-3 and MW-9 on the north. Detection of GRPH at low concentrations in the groundwater samples from MW-11 and MW-12 is a possible indication of the crossgradient edges of the plume. Detection of MTBE at low concentrations in the groundwater sample from MW-10 for the second consecutive sampling event is a possible indication of the extent of the leading edge of the plume.

The next groundwater monitoring event will be completed during May 2011.

TABLES

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Table 1

Summary of Groundwater Level Measurements

Ione Petroleum Contamination

Ione, Washington

Well Number	Date Measured	Top of Casing Elevation[1] (feet)	Depth to Water[2] (feet)	Groundwater Elevation (feet)
MW-1	08/05/10	2,106.45	29.41	2,077.04
	11/10/10	2,106.45	29.40	2,077.05
	02/09/11	2,106.45	29.76	2,076.69
MW-2	08/05/10	2,109.36	37.54	2,071.82
	11/10/10	2,109.36	37.53	2,071.83
	02/09/11	2,109.36	37.67	2,071.69
MW-3	08/05/10	2,110.17	38.66	2,071.51
	11/10/10	2,110.17	38.63	2,071.54
	02/09/11	2,110.17	38.73	2,071.44
MW-4	08/05/10	2,109.31	38.17	2,071.14
	11/10/10	2,109.31	38.14	2,071.17
	02/09/11	2,109.31	38.26	2,071.05
MW-5	08/05/10	2,109.28	38.57	2,070.71
	11/10/10	2,109.28	37.90/38.51[3]	2,071.23[4]
	02/09/11	2,109.28	37.97/38.72[3]	2,071.12[4]
MW-6	08/05/10	2,110.34	39.72	2,070.62
	11/10/10	2,110.34	39.68	2,070.66
	02/09/11	2,110.34	39.80	2,070.54
MW-7	08/05/10	2,109.31	36.27	2,073.04
	11/10/10	2,109.31	36.27	2,073.04
	02/09/11	2,109.31	36.38	2,072.93
MW-8	08/05/10	2,109.72	37.93	2,071.79
	11/10/10	2,109.72	37.90	2,071.82
	02/09/11	2,109.72	38.01	2,071.71
MW-9	11/10/10	2,109.43	38.43	2,071.00
	02/09/11	2,109.43	38.53	2,070.90
MW-10	11/10/10	2,085.56	15.96	2,069.60
	02/09/11	2,085.56	16.05	2,069.51
MW-11	11/10/10	2,093.44	23.33	2,070.11
	02/09/11	2,093.44	23.43	2,070.01
MW-12	11/10/10	2,108.87	37.98	2,070.89
	02/09/11	2,108.87	38.11	2,070.76

Notes:

[1]Top of casing elevation survey performed by Thomas, Dean & Hoskins, Inc. (TD&H). Elevations are referenced to NAVD 88.

[2]Depth to water measurements referenced to the top of PVC casing.

[3]For MW-5, 37.97/38.72 indicates depth to top of free product/depth to groundwater measured using an oil-water interface probe.

[4]Groundwater elevation at MW-5, for the November 2010 and February 2011 monitoring event, was calculated using the following equation:
GW = SG x T + IE; where GW = equivalent groundwater elevation, SG = specific gravity of free product (0.75 for gasoline), T = thickness of product measured in water using oil/water interface probe (0.75 feet for February 2011 event), IE = elevation of water/product interface measured in the well (2070.56 for February 2011 event).

Table 2

Summary of Groundwater Chemical Analytical Results - Monitoring Well Samples[1]

Ione Petroleum Contamination

Ione, Washington

Analyte	Unit	MTCA Method A Cleanup Level	Well No. / Sample Number / Date	MW-1 MW-1-080510 08/05/10	MW-1 MW-1-111010 11/10/10	MW-1 MW-1-021611 02/16/11	MW-2 MW-2-080610 08/06/10	MW-2 MW-2-111010 11/10/10	MW-2 MW-2-021611 02/16/11	MW-3 MW-3-080610 08/06/10	MW-3 MW-3-111010 11/11/10	MW-3 MW-3-021611 02/16/11	MW-4 MW-4-080610 08/06/10	MW-4 MW-4-111010 11/11/10	MW-4 MW-4-021711 02/17/11
DRPH[2]	µg/L	500		<100			<100			<100			<100		
ORPH[2]	µg/L	500		<500			<100			<500			<500		
GRPH [3]	µg/L	800		<100	<100	<100	<100	<100	<100	**24,500**	**20,200**	**24,200**	**4,940**	**1,190**	359
Volatile Organic Compounds [4]															
Benzene	µg/L	5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2,680**	**1,940**	**1,980**	**21.3**	**9.36**	1.27 (J)[7,8]
Ethylbenzene	µg/L	700		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**831**	314 (u)[9]	647	80.6	7.04 (u)[9]	1.34 (J)[7,8]
Toluene	µg/L	1,000		1.81	<0.5	<0.5	<0.5	<0.5	<0.5	**3,330**	**2870 (u)[9]**	**3,350**	462	78.3 (u)[9]	11.8 (J)[7,8]
m,p-Xylene	µg/L	1,000[5]		1.93	<0.5	<0.5	<0.5	<0.5	<0.5	**1,940**	**1680 (u)[9]**	**2,230**	425	94.5 (u)[9]	16.8[7,8]
o-Xylene	µg/L			0.89	<0.5	<0.5	<0.5	<0.5	<0.5	**615**	**653**	**771**	189	55.6	16.6 (J)[7,8]
1,1,1,2-Tetrachloroethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	188	<5	<0.5
1,1,1-Trichloroethane	µg/L	200		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
1,1,2,2-Tetrachloroethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
1,1,2-Trichloroethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
1,1-Dichloroethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
1,1-Dichloroethene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
1,1-Dichloropropene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
1,2,3-Trichlorobenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
1,2,3-Trichloropropane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
1,2,4-Trichlorobenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
1,2,4-Trimethylbenzene	µg/L	NE		0.62	<0.5	<0.5	<0.5	<0.5	<0.5	305	259	353	154	24.9	1.82
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
1,2-Dibromoethane (EDB)	µg/L	0.01		<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<50	<5	<100	<5	<5	<0.01
1,2-Dichlorobenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
1,2-Dichloroethane (EDC)	µg/L	5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
1,2-Dichloropropane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
1,3,5-Trimethylbenzene	µg/L	NE		0.58	<0.5	<0.5	<0.5	<0.5	<0.5	<50	136	171	68.3	19.3	10.2
1,3-Dichlorobenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
1,3-Dichloropropane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
1,4-Dichlorobenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
2,2-Dichloropropane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
2-Chlorotoluene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
2-Hexanone	µg/L	NE		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<250	<25	<500	<25	<25	<2.5
4-Chlorotoluene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Acetone	µg/L	NE		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<250	<25	<500	36.0	<25	<2.5
Acrylonitrile	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Bromobenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Bromochloromethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Bromodichloromethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Bromoform	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Bromomethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Carbon disulfide	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Carbon Tetrachloride	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Chlorobenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Chloroethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Chloroform	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Chloromethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
cis-1,2-Dichloroethene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
cis-1,3-Dichloropropene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5

Analyte	Unit	MTCA Method A Cleanup Level	Well No. / Sample Number / Date	MW-1			MW-2			MW-3			MW-4		
				MW-1-080510 08/05/10	MW-1-111010 11/10/10	MW-1-021611 02/16/11	MW-2-080610 08/06/10	MW-2-111010 11/10/10	MW-2-021611 02/16/11	MW-3-080610 08/06/10	MW-3-111010 11/11/10	MW-3-021611 02/16/11	MW-4-080610 08/06/10	MW-4-111010 11/11/10	MW-4-021711 02/17/11
Dibromochloromethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Dibromomethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Dichlorodifluoromethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Hexachlorobutadiene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Isopropylbenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	104	<5	<100	6.39	<5	<0.5
Methyl ethyl ketone (MEK)	µg/L	NE		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<250	<25	<500	<25	<25	<2.5
Methyl isobutyl ketone (MIBK)	µg/L	NE		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<250	<25	<500	<25	<25	<2.5
Methylene chloride	µg/L	5		<2.5	<2.5	0.850	<2.5	<2.5	<2.5	<250	<25	<500	<25	<25	<2.5
Methyl tert buytl ether (MTBE)	µg/L	20		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<25	<5	<0.5
Naphthalene	µg/L	160		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	80.1	84.3	107	10.3	<5	0.89 (J)[7,8]
n-Butylbenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
n-Propylbenzene	µg/L	NE		0.55	<0.5	<0.5	<0.5	<0.5	<0.5	92.2	<5	<100	15.1	<5	<0.5
p-Isopropyltoluene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	0.54
sec-Butylbenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Styrene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
tert-Butylbenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Tetrachloroethene	µg/L	5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
trans-1,2-Dichloroethene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
trans-1,3-Dichloropropene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Trichloroethene	µg/L	5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Trichlorofluoromethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Vinyl chloride	µg/L	0.2		<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<50	<5	<100	<5	<5	<0.5
Dissolved Lead[5]	µg/L	15		<1			<1			<1			<1		
Lead[6]	µg/L	15		<1	<1		<1	<1		<1	<1		<1	<1	

Analyte	Unit	MTCA Method A Cleanup Level	Well No. / Sample Number / Date	MW-5 MW-5-080610 08/06/10	MW-5 MW-5-111010 11/11/10	MW-5 MW-5-021711 02/17/11	MW-6 MW-6-080610 08/06/10	MW-6 MW-6-111010 11/11/10	MW-6 MW-6-021711 02/17/11	MW-7 MW-7-080610 08/06/10	MW-7 MW-7-111010 11/11/10	MW-7 MW-7-021611 02/16/11	MW-8 MW-8-080610 08/06/10	MW-8 MW-8-111010 11/11/10	MW-8 MW-8-021711 02/17/11
DRPH[2]	µg/L	500		<100			<100			<100			<100		
ORPH[2]	µg/L	500		<500			<500			<500			<500		
GRPH [3]	µg/L	800		**188,000**	**80,600**	**110,000**	**76,400**	**16,600**	**15,600**	<100	<100	<100	**14,800**	**12,000**	**13,400**
Volatile Organic Compounds [4]															
Benzene	µg/L	5		**2,210**	**525**	**1,010**	**9,880**	**3,900**	**3,820**	<0.5	<0.5	<0.5	**2,620**	**2,670**	**3,280**
Ethylbenzene	µg/L	700		**3,210**	**2120 (u)**	**2,200**	**1,640**	**873 (u)[9]**	628	<0.5	<0.5	<0.5	334	321	421
Toluene	µg/L	1,000		**37,900**	**8420 (u)**	**13,800**	**14,400**	466 (u)[9]	262	<0.5	<0.5	<0.5	**1,750**	**1360 (u)[9]**	**2,010**
m,p-Xylene	µg/L	1,000[5]		**13,900**	**9330 (u)**	**9,080**	**5,180**	**1410 (u)[9]**	**656**	<0.5	<0.5	<0.5	**902**	**756**	**1,490**
o-Xylene	µg/L			**5,510**	**3,360**	**3,840**	**2,720**	**1,280**	**1,250**	<0.5	<0.5	<0.5	**403**	**187**	**548**
1,1,1,2-Tetrachloroethane	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
1,1,1-Trichloroethane	µg/L	200		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
1,1,2,2-Tetrachloroethane	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
1,1,2-Trichloroethane	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
1,1-Dichloroethane	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
1,1-Dichloroethene	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
1,1-Dichloropropene	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
1,2,3-Trichlorobenzene	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
1,2,3-Trichloropropane	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
1,2,4-Trichlorobenzene	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
1,2,4-Trimethylbenzene	µg/L	NE		2,000	1,060	2,250	376	162	<100	<0.5	<0.5	<0.5	186	112	191
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
1,2-Dibromoethane (EDB)	µg/L	0.01		<500	<250	<25	<250	<125	<100	<0.01	<0.01	<0.01	<25	<50	<50
1,2-Dichlorobenzene	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
1,2-Dichloroethane (EDC)	µg/L	5		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
1,2-Dichloropropane	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
1,3,5-Trimethylbenzene	µg/L	NE		968	376	850	<250	193	<100	<0.5	<0.5	<0.5	70.7	94.2	85.7
1,3-Dichlorobenzene	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
1,3-Dichloropropane	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
1,4-Dichlorobenzene	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
2,2-Dichloropropane	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
2-Chlorotoluene	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
2-Hexanone	µg/L	NE		<2,500	<1,250	<125	<250	<625	<500	<2.5	<2.5	<2.5	<125	<250	<250
4-Chlorotoluene	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Acetone	µg/L	NE		<2,500	<1,250	<125	<1,250	<625	<500	2.93	<2.5	<2.5	<125	<250	<250
Acrylonitrile	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Bromobenzene	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Bromochloromethane	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Bromodichloromethane	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Bromoform	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Bromomethane	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Carbon disulfide	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Carbon Tetrachloride	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Chlorobenzene	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Chloroethane	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Chloroform	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Chloromethane	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
cis-1,2-Dichloroethene	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
cis-1,3-Dichloropropene	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50

Analyte	Unit	MTCA Method A Cleanup Level	Well No. / Sample Number / Date	MW-5			MW-6			MW-7			MW-8		
				MW-5-080610 08/06/10	MW-5-111010 11/11/10	MW-5-021711 02/17/11	MW-6-080610 08/06/10	MW-6-111010 11/11/10	MW-6-021711 02/17/11	MW-7-080610 08/06/10	MW-7-111010 11/11/10	MW-7-021611 02/16/11	MW-8-080610 08/06/10	MW-8-111010 11/11/10	MW-8-021711 02/17/11
Dibromochloromethane	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Dibromomethane	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Dichlorodifluoromethane	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Hexachlorobutadiene	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Isopropylbenzene	µg/L	NE		945	<250	118	466	162	<100	<0.5	<0.5	<0.5	<25	<50	<50
Methyl ethyl ketone (MEK)	µg/L	NE		<2,500	<1,250	<125	<1,250	<625	<500	<2.5	<2.5	<2.5	<125	<250	<250
Methyl isobutyl ketone (MIBK)	µg/L	NE		<2,500	<1,250	<125	<1,250	<625	<500	<2.5	<2.5	<2.5	<125	<250	<250
Methylene chloride	µg/L	5		<2,500	<1,250	<125	<1,250	<625	<500	<2.5	<2.5	<2.5	<125	<250	<250
Methyl tert buytl ether (MTBE)	µg/L	20		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Naphthalene	µg/L	160		<500	<250	**364**	<250	**200**	147	<0.5	<0.5	<0.5	<25	72.3	<50
n-Butylbenzene	µg/L	NE		<500	<250	94.6	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
n-Propylbenzene	µg/L	NE		691	<250	346	312	144	<100	<0.5	<0.5	<0.5	37.1	60.8	<50
p-Isopropyltoluene	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
sec-Butylbenzene	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Styrene	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
tert-Butylbenzene	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Tetrachloroethene	µg/L	5		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
trans-1,2-Dichloroethene	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
trans-1,3-Dichloropropene	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Trichloroethene	µg/L	5		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Trichlorofluoromethane	µg/L	NE		<500	<250	<25	<250	<125	<100	<0.5	<0.5	<0.5	<25	<50	<50
Vinyl chloride	µg/L	0.2		<500	<250	<25	<250	<125	<100	<0.2	<0.5	<0.5	<25	<50	<50
Dissolved Lead[5]	µg/L	15		<1			<1			<1			<1		
Lead[6]	µg/L	15		<1			<1	<1		<1	<1		<1	<1	

Analyte	Unit	MTCA Method A Cleanup Level	Well No. / Sample Number / Date	MW-9 MW-9-111010 11/11/10	MW-9 MW-9-021611 02/16/11	MW-10 MW-10-111010 11/11/10	MW-10 MW-10-021711 02/17/11	MW-11 MW-11-111010 11/11/10	MW-11 MW-11-021711 02/17/11	MW-12 MW-12-111010 11/11/10	MW-12 MW-12-021711 02/17/11	Cabin Well Cabin Well-080610 08/06/10	Cabin Well 101209043-001 12/08/10	Cabin Well 110221034-014 02/21/11
DRPH[2]	µg/L	500										<100		
ORPH[2]	µg/L	500										<500		
GRPH [3]	µg/L	800		<100	<100	<100	<100	<100	140	<100	126	**40,000**	**26,100**	**21,500**
Volatile Organic Compounds [4]														
Benzene	µg/L	5		0.50	<0.5	0.50	<0.5	0.50	<0.5	0.50	<0.5	**770**	**227**	**440**
Ethylbenzene	µg/L	700		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**877**	592	517
Toluene	µg/L	1,000		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**4,920**	**3,640**	**2,210**
m,p-Xylene	µg/L	1,000[5]		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2,600**	**1,930**	**1,710**
o-Xylene	µg/L			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1,390**	**1,090**	**1,080**
1,1,1,2-Tetrachloroethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
1,1,1-Trichloroethane	µg/L	200		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
1,1,2,2-Tetrachloroethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
1,1,2-Trichloroethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
1,1-Dichloroethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
1,1-Dichloroethene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
1,1-Dichloropropene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
1,2,3-Trichlorobenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
1,2,3-Trichloropropane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
1,2,4-Trichlorobenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
1,2,4-Trimethylbenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	369	289	216
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
1,2-Dibromoethane (EDB)	µg/L	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<50	<0.5	<50
1,2-Dichlorobenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
1,2-Dichloroethane (EDC)	µg/L	5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
1,2-Dichloropropane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
1,3,5-Trimethylbenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	199	192	159
1,3-Dichlorobenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
1,3-Dichloropropane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
1,4-Dichlorobenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
2,2-Dichloropropane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
2-Chlorotoluene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
2-Hexanone	µg/L	NE		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<250	<2.5	<250
4-Chlorotoluene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Acetone	µg/L	NE		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<250	9.7	<250
Acrylonitrile	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Bromobenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Bromochloromethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Bromodichloromethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Bromoform	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Bromomethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Carbon disulfide	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Carbon Tetrachloride	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Chlorobenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Chloroethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Chloroform	µg/L	NE		0.54	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Chloromethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
cis-1,2-Dichloroethene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
cis-1,3-Dichloropropene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50

Analyte	Unit	MTCA Method A Cleanup Level	Well No. Sample Number Date	MW-9 MW-9-111010 11/11/10	MW-9 MW-9-021611 02/16/11	MW-10 MW-10-111010 11/11/10	MW-10 MW-10-021711 02/17/11	MW-11 MW-11-111010 11/11/10	MW-11 MW-11-021711 02/17/11	MW-12 MW-12-111010 11/11/10	MW-12 MW-12-021711 02/17/11	Cabin Well Cabin Well-080610 08/06/10	Cabin Well 101209043-001 12/08/10	Cabin Well 110221034-014 02/21/11
Dibromochloromethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Dibromomethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Dichlorodifluoromethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Hexachlorobutadiene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Isopropylbenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	29.9	<50
Methyl ethyl ketone (MEK)	µg/L	NE		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<250	4.73	<250
Methyl isobutyl ketone (MIBK)	µg/L	NE		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<250	<2.5	<250
Methylene chloride	µg/L	5		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	0.72	<250	<2.5	<250
Methyl tert buytl ether (MTBE)	µg/L	20		<0.5	<0.5	0.60	0.59	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Naphthalene	µg/L	160		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	147	410	92.8
n-Butylbenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
n-Propylbenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	88.1	70	<50
p-Isopropyltoluene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	2.59	<50
sec-Butylbenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Styrene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
tert-Butylbenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Tetrachloroethene	µg/L	5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
trans-1,2-Dichloroethene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
trans-1,3-Dichloropropene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Trichloroethene	µg/L	5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Trichlorofluoromethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Vinyl chloride	µg/L	0.2		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<50
Dissolved Lead[5]	µg/L	15										<1	<0.5	
Lead[6]	µg/L	15		<1		<1		<1		<1		<1	<1	

Analyte	Unit	MTCA Method A Cleanup Level	Well No. Sample Number Date	Duplicate-1 (MW-4) 80610 08/06/10	Duplicate-1 (MW-6) 10112036-013 11/11/10	Duplicate-1 (MW-4) 110221034-013 02/17/11
DRPH[2]	µg/L	500		<100		
ORPH[2]	µg/L	500		<500		
GRPH [3]	µg/L	800		**4,920**	**10,800**	476
Volatile Organic Compounds [4]						
Benzene	µg/L	5		**21.6**	**4,530**	1.98 (J)[7,8]
Ethylbenzene	µg/L	700		81.5	258	2.00 (J)[7,8]
Toluene	µg/L	1,000		472	430 (u)[9]	18.7 (J)[7,8]
m,p-Xylene	µg/L	1,000[5]		419	**1,570**	24.3 [7]
o-Xylene	µg/L			194	**1,650**	21.1 [7]
1,1,1,2-Tetrachloroethane	µg/L	NE		<5	<50	<0.5
1,1,1-Trichloroethane	µg/L	200		<5	<50	<0.5
1,1,2,2-Tetrachloroethane	µg/L	NE		<5	<50	<0.5
1,1,2-Trichloroethane	µg/L	NE		<5	<50	<0.5
1,1-Dichloroethane	µg/L	NE		<5	<50	<0.5
1,1-Dichloroethene	µg/L	NE		<5	<50	<0.5
1,1-Dichloropropene	µg/L	NE		<5	<50	<0.5
1,2,3-Trichlorobenzene	µg/L	NE		<5	<50	<0.5
1,2,3-Trichloropropane	µg/L	NE		<5	<50	<0.5
1,2,4-Trichlorobenzene	µg/L	NE		<5	<50	<0.5
1,2,4-Trimethylbenzene	µg/L	NE		148	<50	1.61
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	NE		<5	<50	<0.5
1,2-Dibromoethane (EDB)	µg/L	0.01		<5	<50	<0.5
1,2-Dichlorobenzene	µg/L	NE		<5	<50	<0.5
1,2-Dichloroethane (EDC)	µg/L	5		<5	**116**	<0.5
1,2-Dichloropropane	µg/L	NE		<5	<50	<0.5
1,3,5-Trimethylbenzene	µg/L	NE		65.0	72.9	8.05
1,3-Dichlorobenzene	µg/L	NE		<5	<50	<0.5
1,3-Dichloropropane	µg/L	NE		<5	<50	<0.5
1,4-Dichlorobenzene	µg/L	NE		<5	<50	<0.5
2,2-Dichloropropane	µg/L	NE		<5	<50	<0.5
2-Chlorotoluene	µg/L	NE		<5	<50	<0.5
2-Hexanone	µg/L	NE		<2.5	<250	<2.5
4-Chlorotoluene	µg/L	NE		<5	<50	<0.5
Acetone	µg/L	NE		34.8	<250	<2.5
Acrylonitrile	µg/L	NE		<5	<50	<0.5
Bromobenzene	µg/L	NE		<5	<50	<0.5
Bromochloromethane	µg/L	NE		<5	<50	<0.5
Bromodichloromethane	µg/L	NE		<5	<50	<0.5
Bromoform	µg/L	NE		<5	<50	<0.5
Bromomethane	µg/L	NE		<5	<50	<0.5
Carbon disulfide	µg/L	NE		<5	<50	<0.5
Carbon Tetrachloride	µg/L	NE		<5	<50	<0.5
Chlorobenzene	µg/L	NE		<5	<50	<0.5
Chloroethane	µg/L	NE		<5	<50	<0.5
Chloroform	µg/L	NE		<5	<50	<0.5
Chloromethane	µg/L	NE		<5	<50	<0.5
cis-1,2-Dichloroethene	µg/L	NE		<5	<50	<0.5
cis-1,3-Dichloropropene	µg/L	NE		<5	<50	<0.5

Analyte	Unit	MTCA Method A Cleanup Level	Well No. Sample Number Date	Duplicate-1 (MW-4) 80610 08/06/10	Duplicate-1 (MW-6) 10112036-013 11/11/10	Duplicate-1 (MW-4) 110221034-013 02/17/11
Dibromochloromethane	µg/L	NE		<5	<50	<0.5
Dibromomethane	µg/L	NE		<5	<50	<0.5
Dichlorodifluoromethane	µg/L	NE		<5	<50	<0.5
Hexachlorobutadiene	µg/L	NE		<5	<50	<0.5
Isopropylbenzene	µg/L	NE		6.12	<50	<0.5
Methyl ethyl ketone (MEK)	µg/L	NE		<2.5	<250	<2.5
Methyl isobutyl ketone (MIBK)	µg/L	NE		<2.5	<250	<2.5
Methylene chloride	µg/L	5		<2.5	<250	<2.5
Methyl tert buytl ether (MTBE)	µg/L	20		<5	<50	<0.5
Naphthalene	µg/L	160		7.54	50.7	1.12 (J)[7,8]
n-Butylbenzene	µg/L	NE		<5	<50	<0.5
n-Propylbenzene	µg/L	NE		14.7	<50	<0.5
p-Isopropyltoluene	µg/L	NE		<5	<50	<0.5
sec-Butylbenzene	µg/L	NE		<5	<50	<0.5
Styrene	µg/L	NE		<5	<50	<0.5
tert-Butylbenzene	µg/L	NE		<5	<50	<0.5
Tetrachloroethene	µg/L	5		<5	<50	<0.5
trans-1,2-Dichloroethene	µg/L	NE		<5	<50	<0.5
trans-1,3-Dichloropropene	µg/L	NE		<5	<50	<0.5
Trichloroethene	µg/L	5		<5	<50	<0.5
Trichlorofluoromethane	µg/L	NE		<5	<50	<0.5
Vinyl chloride	µg/L	0.2		<5	<50	<0.5
Dissolved Lead[5]	µg/L	15		<1		
Lead[6]	µg/L	15		<1	<1	

Notes:

[1]Chemical analyses conducted by Anatek Labs, Inc. located in Spokane, Washington.

[2]Diesel and Lube Oil analyzed using Northwest Method NWTPH-Dx.

[3]Gasoline analyzed using Northwest Method NWTPH-Gx.

[4]Volatile organic compounds analyzed using by EPA Methods 8260B/8260C.

[5]Cleanup level for total xylenes is 1,000 µg/L.

[6]Lead and dissolved lead analyzed using by EPA Method 200.8. Note that laboratory reports are in units of mg/L and are converted to µg/L in this table.

[7] VOC results reported from RBCA volatiles list due to discrepancy between the RBCA volatiles list and the full 8260C list. Reported result is the higher of the two reported values.

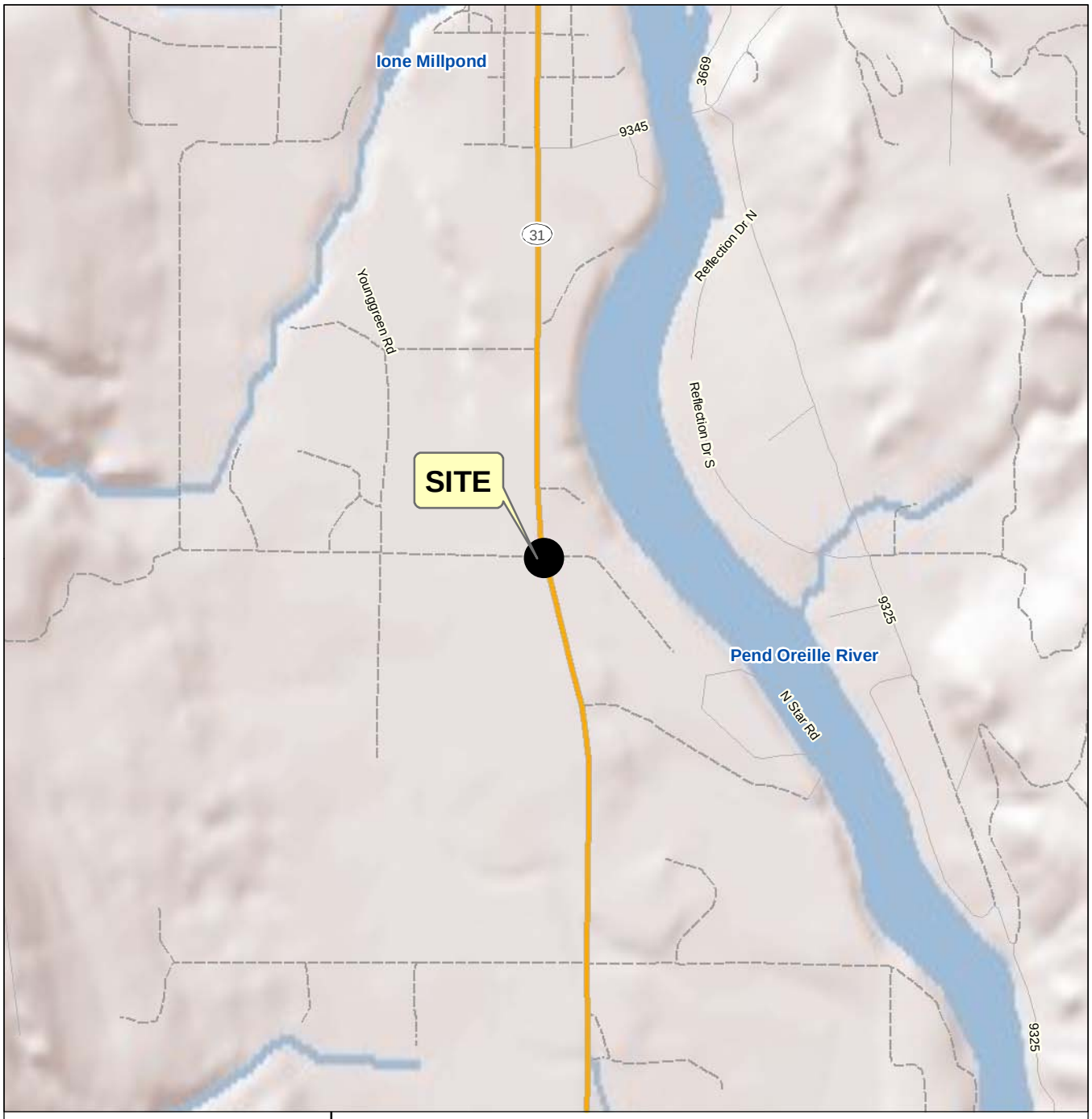
[8](J) Flag qualifier indicates an estimated value. See Appendix B Data Quality Assessment Summary.

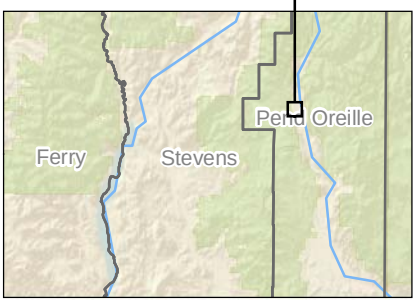
[9](U) - Concentrations of toluene qualified as non-detect due to trip blank contamination. Refer to Quarterly Groundwater Monitoring Report dated January 25, 2011 for additional information and discussion.

µg/L - micrograms per liter; mg/L = milligrams per liter; NE = not established; MTCA = Model Toxics Control Act

FIGURES

GeoEngineers





N
W E
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2,000 0 2,000
Feet

Notes:
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
Data Sources: ESRI Data & Maps, Street Maps 2008.
Projection: NAD 1983, UTM Zone 11 North.

Vicinity Map

Ione Petroleum Contamination
Ione, Washington

GeoEngineers

Figure 1

Map Revised: 09/09/2010 CRC

Office: SPO Path:W:\Spokane\Projects\0\0504058\GIS\0504058GIS_VM_F1.mxd

Well Number	GRPH (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Total Xylenes (µg/L)
MW-1	<100	<0.5	<0.5	<0.5	<1.0
MW-2	<100	<0.5	<0.5	<0.5	<1.0
MW-3	**24,200**	**1,980**	647	**3,350**	**3,001**
MW-4	359	1.27	1.34	11.8	23.4
MW-5	**110,000**	**1,010**	**2,200**	**13,800**	**12,920**
MW-6	**15,600**	**3,820**	628	262	**1,906**
MW-7	<100	<0.5	<0.5	<0.5	<1.0
MW-8	**13,400**	**3,280**	421	**2,010**	**2038**
MW-9	<100	<0.5	<0.5	<0.5	<1.0
MW-10	<100	<0.5	<0.5	<0.5	<1.0
MW-11	140	<0.5	<0.5	<0.5	<1.0
MW-12	126	<0.5	<0.5	<0.5	<1.0
Cabin Grill Well	**21,500**	**440**	517	**2,210**	**2,790**

Legend

- MW-1 — Approximate Location of Monitoring Well and Groundwater Elevation on February 9, 2011
- Ⓦ — Existing Water Well
- 2077 — Approximate Groundwater Elevation Contour (1-Foot Interval)
- Interpreted Groundwater Flow Direction

Reference: Bing Maps aerial from ESRI, Online Data Resource Center.
ESRI Data & Maps, Street Maps 2008

Notes:
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
3. Elevations are referenced in NAVD 88.
4. The equivalent (true) groundwater elevation at MW-5 as showing calculated to account for the presence of the free product using the following equation: GW = SG X T + IE; where GW = equivalent groundwater elevation SG = specific gravity of free product (0.75) for gasoline; T = thickness of product measured in well using oil/water interface probe (0.75 feet) for February 2011 event; IE =elevation of water/product interface measured in the well (2070.56) for February 2011 event.
5. (u): Due to trip blank contamination, positive results for toluene qualified as non-detect

N W E S

100 0 100
Feet

Groundwater Elevations and Flow Direction - February 9, 2011

Ione Petroleum Contamination
Ione, Washington

GeoEngineers

Figure 2

Map Revised: April 13, 2011

OfficeLocation: SPO Path:W:\Spokane\Projects\0050405800\GIS\0504058GIS\0504058800_GWContour_F2_Feb2011.mxd

APPENDICES

GeoEngineers

APPENDIX A
Field Methods

APPENDIX A
FIELD METHODS

General

The sampling methods used by GeoEngineers during the February 2011 sampling event generally conformed to the work plan dated April 9, 2010.

Groundwater Elevations

GeoEngineers measured depth to groundwater relative to the monitoring well casing rims on February 9, 2011 using an electric water level indicator. Product and groundwater depths at the location of monitoring well MW-5 were measured using an oil-water interface probe; measurement of free product thickness was also conducted using a disposable bailer. The probe of the water level indicator was decontaminated between wells. Groundwater table elevations were calculated by subtracting the depth to the water table from the casing rim elevations. Groundwater table elevations measured on February 9, 2011 are presented in Table 1 and Figure 2. The equivalent groundwater elevation at the location of MW-5 was calculated using the measurements of the top of the free product and the groundwater table obtained from the interface probe and the equation presented in the **Fluid Elevations** section of this report. A specific gravity of 0.75 (approximate specific gravity of gasoline) was used in the calculation.

Groundwater Sampling

GeoEngineers obtained groundwater samples for chemical analysis from monitoring wells MW-1 through MW-12 on February 16 and 17, 2011. GeoEngineers obtained a sample from the Cabin Grill domestic well on February 21, 2011.

Before sampling, VOCs in the well headspace were measured with a PID by first inserting the PID into the well casing and immediately after removal of the well cap. PID reading are posted in Table A-1. Measurement of free product was only performed at those well locations where PID measurements indicated the presence of VOCs.

Groundwater purging and sampling conducted at the monitoring wells was performed consistent with the EPA's low-flow groundwater sampling procedure. A portable bladder pump was used for groundwater purging and sampling. During purging activities, water quality parameters, including pH, conductivity, temperature, turbidity, and oxidation-reduction potential, were measured using a Horiba U-22 multi-parameter meter equipped with a flow-through cell. The meter was calibrated on a daily basis in a manner consistent with manufacturer procedures. Groundwater samples were collected once (1) water quality parameters were stabilized. Water quality parameter stabilization criteria include the following:

- Turbidity: ±10 percent for values greater than 5 NTU;
- Oxidation reduction potential: ±10 percent;
- Conductivity: ±3 percent;
- pH: ±0.1 unit; and
- Temperature: ±3 degrees.

Water quality parameters are presented in Summary of Field Quality Parameters, Table A-1.

The groundwater samples were transferred in the field to laboratory-prepared containers and kept cool during transport to the testing laboratory. The sample containers were filled completely to eliminate headspace in the container. Chain-of-custody procedures were observed from the time of sample collection to delivery to the testing laboratory.

Quality control/quality assurance (QA/QC) samples collected during the February 2011 sampling event included a trip blank, and duplicate sample from monitoring well MW-4, labeled Duplicate-1.

Decontamination Procedures

The objective of the decontamination procedure is to minimize the potential for cross-contamination between sample locations. Sampling equipment was decontaminated in accordance with the work plan.

Table A-1

Summary of Field Quality Parameters

Ione Petroleum Contamination

Ione, Washington

Sample Number	Date Sampled	pH	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	ORP (mV)	Well Headspace PID Readings (ppm)
MW-1	08/05/10	7.36	319.1	1.01	6.99	14.82	95	0.0
	11/10/10	7.09	54	4.02	9.12	8.02	363	0.0
	02/16/11	6.75	58.2	10.0	10.53	8.17	268	0.0
MW-2	08/06/10	6.98	383.4	0.00	3.66	14.66	95	13.6
	11/10/10	6.62	67.7	0.00	4.24	9.15	373	0.0
	02/16/11	6.56	71.0	5.68	4.07	9.29	278	0.0
MW-3	08/06/10	6.76	717.3	0.09	0.02	15.16	-107	19.8
	11/10/10	6.45	101.0	0.00	0.00	9.27	-127	0.0
	02/16/11	6.30	57.8	7.34	0.00	8.98	-149	0.0
MW-4	08/06/10	7.50	356.0	4.38	0.17	14.88	-72	2,100
	11/10/10	6.95	81.1	0.00	2.66	8.97	196	575
	02/17/11	6.73	99.9	3.12	0.00	8.79	273	575
MW-5	08/06/10	6.85	606.4	0.00	NR	17.16	29	2,400
	11/10/10	6.61	92.3	0.00	0.00	9.50	108	4,800
	02/17/11	6.93	91.4	0.00	0.00	8.84	94	4,800
MW-6	08/05/10	6.74	757.9	16.70	0.49	14.97	-27	0.3
	11/10/10	6.52	100.0	0.00	0.00	9.14	-38	0.0
	02/17/11	6.37	109.0	8.57	0.00	8.90	-75	0.0
MW-7	08/06/10	7.36	329.8	6.39	1.13	14.01	-57	1.2
	11/10/10	6.83	60.1	9.21	0.00	8.11	-20	0.0
	02/16/11	6.80	61.7	3.84	0.00	7.83	-14	0.0
MW-8	08/06/10	6.66	508.6	0.00	NR	14.96	24	2,150
	11/10/10	6.38	90.4	0.00	0.00	9.52	-8	1,280
	02/17/11	6.72	79.3	0.00	0.00	8.57	15	1,280
MW-9	11/10/10	7.15	55.4	8.16	7.53	8.37	244	0.0
	02/16/11	6.99	57.8	11.12	9.51	8.12	251	0.0
MW-10	11/10/10	7.08	69.9	4.12	1.44	8.95	48	0.0
	02/16/11	6.89	79.2	0.00	0.00	8.20	226	0.0
MW-11	11/10/10	7.19	55.9	0.00	7.94	8.86	236	0.0
	02/17/11	7.00	65.2	8.34	10.72	8.73	283	0.0
MW-12	11/10/10	7.06	76.0	0.00	8.03	8.82	242	0.9
	02/17/11	6.93	74.3	8.12	11.81	8.54	297	0.9

Notes:

NR = not reported due to instrument error - readings were outside normal range and therefore not reported.

APPENDIX B
Chemical Analytical Data

APPENDIX B
CHEMICAL ANALYTICAL DATA

DATA QUALITY ASSESSMENT SUMMARY
NWTPH-GX,

Volatile Organic Compounds (VOCs) by EPA 8260C

Anatek Laboratory SDG	Samples Validated (Bold indicates the sample was qualified)
110221034 (water samples)	MW-1-021611, MW-2-021611, MW-3-021611, **MW-4-021711**, MW-5-021711, MW-6-021711, MW-7-021611, MW-8-021711, MW-9-021111, MW-10-021711, MW-11-021711, MW-12-021711, **DUPLICATE 1**, CABIN GRILL WELL – 022111, TRIP BLANK

This report documents the results of an EPA level 2a data validation of analytical data from the analyses of water samples and the associated laboratory and field quality control (QC) samples. The review included the following:

- Chain of Custody
- Holding Times
- Surrogates
- Method and Trip Blanks
- Laboratory Control Samples
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory and Field Duplicates

DATA PACKAGE COMPLETENESS

Anatek Labs, Inc., located in Spokane, Washington, analyzed the samples evaluated as part of this data validation review. The laboratory provided all required deliverables for the validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and all identified anomalies were discussed in the case narrative.

The following sections discuss the data. Based on the review, qualification of the laboratory data was performed in association with holding time outliers and method blank contamination.

OBJECTIVE

The objective of the data validation was to review laboratory analytical procedures and quality control (QC) results to evaluate whether:

- The samples were analyzed using well-defined and acceptable methods that provide detection limits below applicable regulatory criteria;
- The precision and accuracy of the data are well defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The environmental samples were analyzed by one or more of the analytical methods listed in the title of this appendix.

DATA QUALITY ASSESSMENT SUMMARY

The results for each of the QC elements are summarized below. The data assessment was performed using guidance in the USEPA Contract Laboratory Program *National Functional Guidelines for Inorganic Data Review* (USEPA 2002) and USEPA Contract Laboratory Program *National Functional Guidelines for Organic Data Review* (USEPA 2008).

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. There were no anomalies noted on the COC forms; proper COC protocols appear to have been followed for this sampling event.

Holding Times

The holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the analytes of interest, but unlikely to be found in any environmental sample. Surrogates are used for organic analyses and are added to all samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added at a known concentration and percent recoveries are calculated following analysis. All surrogate recoveries for field samples were within the laboratory control limits.

Method and Trip Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. Method blanks were analyzed with each batch of samples, at a frequency of one per twenty samples. For all sample batches, method blanks for all applicable methods were analyzed at the required frequency.

If a compound was found at a measurable concentration in the method blank, an “action level” for this compound was assigned to the associated batch samples by multiplying the concentration by

five. This action level is then multiplied by any dilutions the sample may have gone through in the laboratory extraction process.

Trip Blanks are carried with the field sampler to and from the site, and these are analyzed to ensure that the transportation environment does not introduce measurable concentrations of the analytes of interest. Trip Blanks are usually analyzed at the frequency of one per every sample cooler.

None of the analytes of interest were detected above the reporting limits in any of the method blanks or the Trip Blank.

Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

Because the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis. One aliquot of sample is analyzed in the normal manner, and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery (%R) is calculated. Matrix spike duplicates (MSD) analyses are generally performed for organic analyses as a precision check. For some organic analytical methods, such as NWTPH-Dx, a laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) sample set is performed in lieu of a MS/MSD analysis.

For inorganics methods, the matrix spike (referred to as a "spiked sample") is typically followed by a post spike sample if any element recoveries were outside the control limits in the "spike sample".

Matrix spike analyses should be performed once per analytical batch or every twenty field samples, whichever is more frequent. The recovery criteria for matrix spikes and laboratory control samples are specified in the laboratory documents as are the relative percent difference values. The frequency requirements were met for all analyses and the %R/RPD values were within the proper control limits.

Laboratory Control Samples/ Laboratory Control Sample Duplicates (LCS/LCSD)

A laboratory control sample is essentially a blank sample that is spiked with a known amount of analyte concentration and analyzed. It is to be treated much like a matrix spike, without the possibility for matrix interference. As there is no actual sample matrix in the analysis, the analytical expectations for accuracy and precision are usually more rigorous and qualification would apply to all samples in the batch, instead of the parent sample only.

Laboratory control sample analyses should be performed once per analytical batch or every twenty field samples, whichever is more frequent. The recovery criteria for laboratory control samples are specified in the laboratory documents as are the relative percent difference values. The frequency requirements were met for all analyses, and the %R/RPD values were within the proper control limits.

SDG 110221034: (Volatiles) The percent recovery (%R) values for benzene, ethylbenzene, o-xylene, and toluene were less than the control limits in the LCS extracted on 3/2/11. The positive

results for these compounds were qualified as estimated (J) in Samples MW-4-021711 and DUPLICATE-1.

Field Replicates/Duplicates

Field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. As mentioned above for the laboratory duplicates the RPD is used as the criteria for assessing precision, unless one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD.

SDG 110221034: (Volatiles) One set of field duplicates, MW-4-021711 and DUPLICATE-1, was submitted with this SDG. The precision measurement for benzene, ethylbenzene, and toluene exceeded the criteria above, and the positive results for these compounds were qualified (J) in these two samples.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values. Precision was acceptable, as demonstrated by the laboratory duplicate, LCS/LCSD and MS/MSD RPD and absolute difference values, with the exceptions noted above.

Data were qualified as estimated because of field duplicate precision outliers and LCS %R outliers.

In general, the data are acceptable for use as qualified.

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-001	**Sampling Date**	2/16/2011	**Date/Time Received**	2/21/2011	3:03 PM	
Client Sample ID	MW-1-021611	**Sampling Time**	12:09 PM	**Extraction Date**			
Matrix	Water	**Sample Location**					
Comments							

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2-hexanone	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Acetone	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Benzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromoform	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromomethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-001	**Sampling Date**	2/16/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-1-021611	**Sampling Time**	12:09 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Chlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chloroform	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Methylene chloride	0.850	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
o-Xylene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Styrene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Toluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-001	**Sampling Date**	2/16/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-1-021611	**Sampling Time**	12:09 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier

Surrogate Data

Sample Number 110221034-001

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	100.4	70-130
4-Bromofluorobenzene	EPA 8260C	99.2	70-130
Toluene-d8	EPA 8260C	100.0	70-130

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Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-002	**Sampling Date**	2/16/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-2-021611	**Sampling Time**	1:17 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2-hexanone	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Acetone	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Benzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromoform	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromomethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-002	**Sampling Date**	2/16/2011	**Date/Time Received**	2/21/2011	3:03 PM
Client Sample ID	MW-2-021611	**Sampling Time**	1:17 PM	**Extraction Date**		
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Chloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chloroform	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
o-Xylene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Styrene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Toluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-002	**Sampling Date**	2/16/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-2-021611	**Sampling Time**	1:17 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier

Surrogate Data

Sample Number 110221034-002

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	100.0	70-130
4-Bromofluorobenzene	EPA 8260C	98.8	70-130
Toluene-d8	EPA 8260C	99.6	70-130

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Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-003	**Sampling Date**	2/16/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-3-021611	**Sampling Time**	4:27 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	353	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	171	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
2-hexanone	ND	ug/L	500	2/22/2011	WOZ	EPA 8260C	
4-Chlorotoluene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Acetone	ND	ug/L	500	2/22/2011	WOZ	EPA 8260C	
Acrylonitrile	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Benzene	1980	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Bromobenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Bromodichloromethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Bromoform	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Bromomethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Carbon disulfide	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Chlorobenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

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Client: GEO ENGINEERS
Address: 523 E 2ND
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Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-003	**Sampling Date**	2/16/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-3-021611	**Sampling Time**	4:27 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Chloroethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Chloroform	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Chloromethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Ethylbenzene	647	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
m+p-Xylene	2230	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	500	2/22/2011	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	500	2/22/2011	WOZ	EPA 8260C	
Methylene chloride	ND	ug/L	500	2/22/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Naphthalene	107	ug/L	100	2/22/2011	WOZ	EPA 8260C	
n-Butylbenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
n-Propylbenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
o-Xylene	771	ug/L	100	2/22/2011	WOZ	EPA 8260C	
p-isopropyltoluene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Styrene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Tetrachloroethene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Toluene	3350	ug/L	100	2/22/2011	WOZ	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Trichloroflouromethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-003	**Sampling Date**	2/16/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-3-021611	**Sampling Time**	4:27 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier

Surrogate Data

Sample Number 110221034-003

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	100.8	70-130
4-Bromofluorobenzene	EPA 8260C	96.4	70-130
Toluene-d8	EPA 8260C	100.0	70-130

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-004	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-4-021711	**Sampling Time**	1:49 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	1.82	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	10.2	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2-hexanone	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Acetone	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Benzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromoform	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromomethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-004	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-4-021711	**Sampling Time**	1:49 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Chloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chloroform	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
m+p-Xylene	5.84	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Naphthalene	0.59	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
o-Xylene	6.37	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
p-isopropyltoluene	0.54	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Styrene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Toluene	1.30	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	

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1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-004	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-4-021711	**Sampling Time**	1:49 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier

Surrogate Data

Sample Number 110221034-004

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	99.2	70-130
4-Bromofluorobenzene	EPA 8260C	97.2	70-130
Toluene-d8	EPA 8260C	102.0	70-130

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-005	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-5-021711	**Sampling Time**	5:00 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	2250	ug/L	250	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	850	ug/L	25	2/22/2011	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
2-hexanone	ND	ug/L	125	2/22/2011	WOZ	EPA 8260C	
4-Chlorotoluene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Acetone	ND	ug/L	125	2/22/2011	WOZ	EPA 8260C	
Acrylonitrile	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Benzene	1010	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Bromobenzene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Bromodichloromethane	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Bromoform	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Bromomethane	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Carbon disulfide	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Chlorobenzene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-005	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-5-021711	**Sampling Time**	5:00 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Chloroethane	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Chloroform	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Chloromethane	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Ethylbenzene	2200	ug/L	250	2/22/2011	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Isopropylbenzene	118	ug/L	25	2/22/2011	WOZ	EPA 8260C	
m+p-Xylene	9080	ug/L	250	2/22/2011	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	125	2/22/2011	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	125	2/22/2011	WOZ	EPA 8260C	
Methylene chloride	ND	ug/L	125	2/22/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Naphthalene	364	ug/L	25	2/22/2011	WOZ	EPA 8260C	
n-Butylbenzene	94.6	ug/L	25	2/22/2011	WOZ	EPA 8260C	
n-Propylbenzene	346	ug/L	25	2/22/2011	WOZ	EPA 8260C	
o-Xylene	3840	ug/L	250	2/22/2011	WOZ	EPA 8260C	
p-isopropyltoluene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Styrene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Tetrachloroethene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Toluene	13800	ug/L	250	2/22/2011	WOZ	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Trichloroflouromethane	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	25	2/22/2011	WOZ	EPA 8260C	

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: GEO ENGINEERS
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SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-005	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-5-021711	**Sampling Time**	5:00 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier

Surrogate Data

Sample Number 110221034-005

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	100.4	70-130
4-Bromofluorobenzene	EPA 8260C	100.8	70-130
Toluene-d8	EPA 8260C	103.6	70-130

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SPOKANE, WA 99202
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Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-006	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-6-021711	**Sampling Time**	3:14 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
2-hexanone	ND	ug/L	500	2/22/2011	WOZ	EPA 8260C	
4-Chlorotoluene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Acetone	ND	ug/L	500	2/22/2011	WOZ	EPA 8260C	
Acrylonitrile	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Benzene	3820	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Bromobenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Bromodichloromethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Bromoform	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Bromomethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Carbon disulfide	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Chlorobenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-006	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011	3:03 PM	
Client Sample ID	MW-6-021711	**Sampling Time**	3:14 PM	**Extraction Date**			
Matrix	Water	**Sample Location**					
Comments							

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Chloroethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Chloroform	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Chloromethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Ethylbenzene	628	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
m+p-Xylene	656	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	500	2/22/2011	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	500	2/22/2011	WOZ	EPA 8260C	
Methylene chloride	ND	ug/L	500	2/22/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Naphthalene	147	ug/L	100	2/22/2011	WOZ	EPA 8260C	
n-Butylbenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
n-Propylbenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
o-Xylene	1250	ug/L	100	2/22/2011	WOZ	EPA 8260C	
p-isopropyltoluene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Styrene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Tetrachloroethene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Toluene	262	ug/L	100	2/22/2011	WOZ	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Trichloroflouromethane	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	100	2/22/2011	WOZ	EPA 8260C	

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1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-006	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-6-021711	**Sampling Time**	3:14 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier

Surrogate Data

Sample Number 110221034-006

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	101.2	70-130
4-Bromofluorobenzene	EPA 8260C	96.0	70-130
Toluene-d8	EPA 8260C	101.6	70-130

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Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number 110221034-007
Client Sample ID MW-7-021611
Matrix Water
Comments

Sampling Date 2/16/2011
Sampling Time 2:19 PM
Sample Location

Date/Time Received 2/21/2011 3:03 PM
Extraction Date

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2-hexanone	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Acetone	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Benzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromoform	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromomethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-007	**Sampling Date**	2/16/2011	**Date/Time Received**	2/21/2011	3:03 PM	
Client Sample ID	MW-7-021611	**Sampling Time**	2:19 PM	**Extraction Date**			
Matrix	Water	**Sample Location**					
Comments							

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Chloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chloroform	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
o-Xylene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Styrene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Toluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-007	**Sampling Date**	2/16/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-7-021611	**Sampling Time**	2:19 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier

Surrogate Data

Sample Number 110221034-007

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	101.6	70-130
4-Bromofluorobenzene	EPA 8260C	97.2	70-130
Toluene-d8	EPA 8260C	99.6	70-130

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Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number 110221034-008 | **Sampling Date** 2/17/2011 | **Date/Time Received** 2/21/2011 3:03 PM
Client Sample ID MW-8-021711 | **Sampling Time** 4:15 PM | **Extraction Date**
Matrix Water | **Sample Location**
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	191	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	85.7	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
2-hexanone	ND	ug/L	250	2/22/2011	WOZ	EPA 8260C	
4-Chlorotoluene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Acetone	ND	ug/L	250	2/22/2011	WOZ	EPA 8260C	
Acrylonitrile	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Benzene	3280	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Bromobenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Bromodichloromethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Bromoform	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Bromomethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Carbon disulfide	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Chlorobenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number 110221034-008
Client Sample ID MW-8-021711
Matrix Water
Comments

Sampling Date 2/17/2011
Sampling Time 4:15 PM
Sample Location

Date/Time Received 2/21/2011 3:03 PM
Extraction Date

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Chloroethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Chloroform	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Chloromethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Ethylbenzene	421	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
m+p-Xylene	1490	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	250	2/22/2011	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	250	2/22/2011	WOZ	EPA 8260C	
Methylene chloride	ND	ug/L	250	2/22/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
n-Butylbenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
n-Propylbenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
o-Xylene	548	ug/L	50	2/22/2011	WOZ	EPA 8260C	
p-isopropyltoluene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Styrene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Tetrachloroethene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Toluene	2010	ug/L	50	2/22/2011	WOZ	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Trichloroflouromethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-008	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-8-021711	**Sampling Time**	4:15 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier

Surrogate Data

Sample Number 110221034-008

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	99.6	70-130
4-Bromofluorobenzene	EPA 8260C	96.8	70-130
Toluene-d8	EPA 8260C	98.8	70-130

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Client: GEO ENGINEERS
Address: 523 E 2ND
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Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-009	**Sampling Date**	2/16/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-9-02111	**Sampling Time**	3:38 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2-hexanone	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Acetone	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Benzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromoform	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromomethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	

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Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-009	**Sampling Date**	2/16/2011	**Date/Time Received**	2/21/2011	3:03 PM	
Client Sample ID	MW-9-02111	**Sampling Time**	3:38 PM	**Extraction Date**			
Matrix	Water	**Sample Location**					
Comments							

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Chloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chloroform	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
o-Xylene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Styrene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Toluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-009	**Sampling Date**	2/16/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-9-02111	**Sampling Time**	3:38 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier

Surrogate Data

Sample Number 110221034-009

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	100.0	70-130
4-Bromofluorobenzene	EPA 8260C	99.2	70-130
Toluene-d8	EPA 8260C	101.2	70-130

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-010	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-10-021711	**Sampling Time**	10:19 AM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2-hexanone	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Acetone	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Benzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromoform	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromomethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-010	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-10-021711	**Sampling Time**	10:19 AM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Chloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chloroform	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	0.59	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
o-Xylene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Styrene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Toluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-010	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-10-021711	**Sampling Time**	10:19 AM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier

Surrogate Data

Sample Number 110221034-010

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	102.0	70-130
4-Bromofluorobenzene	EPA 8260C	97.2	70-130
Toluene-d8	EPA 8260C	99.6	70-130

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Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-011	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-11-021711	**Sampling Time**	11:32 AM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2-hexanone	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Acetone	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Benzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromoform	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromomethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-011	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-11-021711	**Sampling Time**	11:32 AM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Chloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chloroform	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
o-Xylene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Styrene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Toluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-011	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-11-021711	**Sampling Time**	11:32 AM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier

Surrogate Data

Sample Number 110221034-011

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	102.4	70-130
4-Bromofluorobenzene	EPA 8260C	96.4	70-130
Toluene-d8	EPA 8260C	99.6	70-130

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Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-012	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-12-021711	**Sampling Time**	12:45 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2-hexanone	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Acetone	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Benzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromoform	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromomethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-012	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-12-021711	**Sampling Time**	12:45 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Chloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chloroform	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Methylene chloride	0.72	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
o-Xylene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Styrene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Toluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-012	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-12-021711	**Sampling Time**	12:45 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier

Surrogate Data

Sample Number 110221034-012

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	101.2	70-130
4-Bromofluorobenzene	EPA 8260C	96.8	70-130
Toluene-d8	EPA 8260C	102.4	70-130

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Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number 110221034-013 | **Sampling Date** 2/17/2011 | **Date/Time Received** 2/21/2011 3:03 PM
Client Sample ID DUPLICATE-1 | **Sampling Time** 12:34 PM | **Extraction Date**
Matrix Water | **Sample Location**
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	1.61	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	8.05	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2-hexanone	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Acetone	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Benzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromoform	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromomethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-013	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011	3:03 PM	
Client Sample ID	DUPLICATE-1	**Sampling Time**	12:34 PM	**Extraction Date**			
Matrix	Water	**Sample Location**					
Comments							

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Chloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chloroform	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
m+p-Xylene	5.09	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
o-Xylene	5.98	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Styrene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Toluene	1.46	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-013	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	DUPLICATE-1	**Sampling Time**	12:34 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier

Surrogate Data

Sample Number 110221034-013

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	101.2	70-130
4-Bromofluorobenzene	EPA 8260C	97.6	70-130
Toluene-d8	EPA 8260C	100.8	70-130

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Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-014	**Sampling Date**	2/21/2011	**Date/Time Received**	2/21/2011	3:03 PM
Client Sample ID	CABIN GRILL WELL - 022111	**Sampling Time**	11:30 AM	**Extraction Date**		
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	216	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	159	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
2-hexanone	ND	ug/L	250	2/22/2011	WOZ	EPA 8260C	
4-Chlorotoluene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Acetone	ND	ug/L	250	2/22/2011	WOZ	EPA 8260C	
Acrylonitrile	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Benzene	440	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Bromobenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Bromodichloromethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Bromoform	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Bromomethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Carbon disulfide	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Chlorobenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

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Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-014	**Sampling Date**	2/21/2011	**Date/Time Received**	2/21/2011	3:03 PM
Client Sample ID	CABIN GRILL WELL - 022111	**Sampling Time**	11:30 AM	**Extraction Date**		
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Chloroethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Chloroform	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Chloromethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Ethylbenzene	517	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
m+p-Xylene	1710	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	250	2/22/2011	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	250	2/22/2011	WOZ	EPA 8260C	
Methylene chloride	ND	ug/L	250	2/22/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Naphthalene	92.8	ug/L	50	2/22/2011	WOZ	EPA 8260C	
n-Butylbenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
n-Propylbenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
o-Xylene	1080	ug/L	50	2/22/2011	WOZ	EPA 8260C	
p-isopropyltoluene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Styrene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Tetrachloroethene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Toluene	2210	ug/L	50	2/22/2011	WOZ	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Trichloroflouromethane	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	50	2/22/2011	WOZ	EPA 8260C	

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-014	**Sampling Date**	2/21/2011	**Date/Time Received**	2/21/2011	3:03 PM	
Client Sample ID	CABIN GRILL WELL - 022111	**Sampling Time**	11:30 AM	**Extraction Date**			
Matrix	Water	**Sample Location**					
Comments							

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier

Surrogate Data

Sample Number 110221034-014

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	100.0	70-130
4-Bromofluorobenzene	EPA 8260C	96.4	70-130
Toluene-d8	EPA 8260C	102.8	70-130

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number 110221034-015 | **Sampling Date** 2/16/2011 | **Date/Time Received** 2/21/2011 3:03 PM
Client Sample ID TRIP BLANKS | **Sampling Time** | **Extraction Date**
Matrix Water | **Sample Location**
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
2-hexanone	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Acetone	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Benzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromoform	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Bromomethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number 110221034-015
Client Sample ID TRIP BLANKS
Matrix Water
Comments

Sampling Date 2/16/2011
Sampling Time
Sample Location

Date/Time Received 2/21/2011 3:03 PM
Extraction Date

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Chloroethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chloroform	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Chloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	2/22/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
o-Xylene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Styrene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Toluene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	2/22/2011	WOZ	EPA 8260C	

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Sample Number	110221034-015	**Sampling Date**	2/16/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	TRIP BLANKS	**Sampling Time**		**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier

Surrogate Data

Sample Number 110221034-015

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	100.8	70-130
4-Bromofluorobenzene	EPA 8260C	99.2	70-130
Toluene-d8	EPA 8260C	101.2	70-130

Authorized Signature

Kathleen A. Sattler

Kathy Sattler, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report (RBCA Volatiles)

Sample Number	110221034-001	**Sampling Date**	2/16/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-1-021611	**Sampling Time**	12:09 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	ND	ug/L	100	2/22/2011	WOZ	NWTPHG	
1,2-Dibromoethane	ND	ug/L	0.01	2/26/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Benzene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
m+p-Xylene	ND	ug/L	1	2/26/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
o-Xylene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Toluene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	

Surrogate Data

Sample Number 110221034-001

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	100.0	70-130
4-Bromofluorobenzene	EPA 8260C	113.6	70-130
Toluene-d8	EPA 8260C	99.6	70-130
4-Bromofluorobenzene	NWTPHG	96.6	70-130

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
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SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report (RBCA Volatiles)

Sample Number	110221034-002	**Sampling Date**	2/16/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-2-021611	**Sampling Time**	1:17 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	ND	ug/L	100	2/22/2011	WOZ	NWTPHG	
1,2-Dibromoethane	ND	ug/L	0.01	2/26/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Benzene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
o-Xylene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Toluene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	

Surrogate Data

Sample Number 110221034-002

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	100.0	70-130
4-Bromofluorobenzene	EPA 8260C	129.6	70-130
Toluene-d8	EPA 8260C	101.2	70-130
4-Bromofluorobenzene	NWTPHG	99.6	70-130

Sample Number	110221034-003	**Sampling Date**	2/16/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-3-021611	**Sampling Time**	4:27 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	24200	ug/L	1000	2/22/2011	WOZ	NWTPHG	

Surrogate Data

Sample Number 110221034-003

Surrogate Standard	Method	Percent Recovery	Control Limits
4-Bromofluorobenzene	NWTPHG	98.6	70-130

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Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: GEO ENGINEERS
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SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report (RBCA Volatiles)

Sample Number	110221034-004	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-4-021711	**Sampling Time**	1:49 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	359	ug/L	100	2/22/2011	WOZ	NWTPHG	
1,2-Dibromoethane	ND	ug/L	0.01	3/2/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	3/2/2011	WOZ	EPA 8260C	
Benzene	1.27	ug/L	0.5	3/2/2011	WOZ	EPA 8260C	
Ethylbenzene	1.34	ug/L	0.5	3/2/2011	WOZ	EPA 8260C	
m+p-Xylene	16.8	ug/L	5	3/2/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	3/2/2011	WOZ	EPA 8260C	
Naphthalene	0.89	ug/L	0.5	3/2/2011	WOZ	EPA 8260C	
o-Xylene	16.6	ug/L	2.5	3/2/2011	WOZ	EPA 8260C	
Toluene	11.8	ug/L	2.5	3/2/2011	WOZ	EPA 8260C	

Surrogate Data

Sample Number 110221034-004

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	100.0	70-130
4-Bromofluorobenzene	EPA 8260C	102.8	70-130
Toluene-d8	EPA 8260C	99.2	70-130
4-Bromofluorobenzene	NWTPHG	91.8	70-130

Sample Number	110221034-005	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-5-021711	**Sampling Time**	5:00 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	110000	ug/L	5000	2/25/2011	WOZ	NWTPHG	

Surrogate Data

Sample Number 110221034-005

Surrogate Standard	Method	Percent Recovery	Control Limits
4-Bromofluorobenzene	NWTPHG	97.1	70-130

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

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Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report (RBCA Volatiles)

Sample Number	110221034-006	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011	3:03 PM	
Client Sample ID	MW-6-021711	**Sampling Time**	3:14 PM	**Extraction Date**			
Matrix	Water	**Sample Location**					
Comments							

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	15600	ug/L	1000	2/22/2011	WOZ	NWTPHG	

Surrogate Data

Sample Number 110221034-006

Surrogate Standard	Method	Percent Recovery	Control Limits
4-Bromofluorobenzene	NWTPHG	93.3	70-130

Sample Number	110221034-007	**Sampling Date**	2/16/2011	**Date/Time Received**	2/21/2011	3:03 PM	
Client Sample ID	MW-7-021611	**Sampling Time**	2:19 PM	**Extraction Date**			
Matrix	Water	**Sample Location**					
Comments							

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	ND	ug/L	100	2/22/2011	WOZ	NWTPHG	
1,2-Dibromoethane	ND	ug/L	0.01	2/26/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Benzene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
m+p-Xylene	ND	ug/L	1	2/26/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
o-Xylene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Toluene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	

Surrogate Data

Sample Number 110221034-007

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	100.0	70-130
4-Bromofluorobenzene	EPA 8260C	114.4	70-130
Toluene-d8	EPA 8260C	100.0	70-130
4-Bromofluorobenzene	NWTPHG	96.8	70-130

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report (RBCA Volatiles)

Sample Number	110221034-008	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011	3:03 PM	
Client Sample ID	MW-8-021711	**Sampling Time**	4:15 PM	**Extraction Date**			
Matrix	Water	**Sample Location**					
Comments							

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	13400	ug/L	1000	2/22/2011	WOZ	NWTPHG	

Surrogate Data

Sample Number 110221034-008

Surrogate Standard	Method	Percent Recovery	Control Limits
4-Bromofluorobenzene	NWTPHG	101.0	70-130

Sample Number	110221034-009	**Sampling Date**	2/16/2011	**Date/Time Received**	2/21/2011	3:03 PM	
Client Sample ID	MW-9-02111	**Sampling Time**	3:38 PM	**Extraction Date**			
Matrix	Water	**Sample Location**					
Comments							

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	ND	ug/L	100	2/22/2011	WOZ	NWTPHG	
1,2-Dibromoethane	ND	ug/L	0.01	2/26/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Benzene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
m+p-Xylene	ND	ug/L	1.0	2/26/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
o-Xylene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Toluene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	

Surrogate Data

Sample Number 110221034-009

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	99.6	70-130
4-Bromofluorobenzene	EPA 8260C	129.6	70-130
Toluene-d8	EPA 8260C	100.8	70-130
4-Bromofluorobenzene	NWTPHG	99.4	70-130

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Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report (RBCA Volatiles)

Sample Number	110221034-010	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-10-021711	**Sampling Time**	10:19 AM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	ND	ug/L	100	2/22/2011	WOZ	NWTPHG	
1,2-Dibromoethane	ND	ug/L	0.01	2/26/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Benzene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
m+p-Xylene	ND	ug/L	1	2/26/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	0.52	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
o-Xylene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Toluene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	

Surrogate Data

Sample Number 110221034-010

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	99.6	70-130
4-Bromofluorobenzene	EPA 8260C	127.6	70-130
Toluene-d8	EPA 8260C	100.8	70-130
4-Bromofluorobenzene	NWTPHG	105.7	70-130

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report (RBCA Volatiles)

Sample Number	110221034-011	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-11-021711	**Sampling Time**	11:32 AM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	140	ug/L	100	2/23/2011	WOZ	NWTPHG	
1,2-Dibromoethane	ND	ug/L	0.01	2/26/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Benzene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
m+p-Xylene	ND	ug/L	1	2/26/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
o-Xylene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Toluene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	

Surrogate Data

Sample Number 110221034-011

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	100.0	70-130
4-Bromofluorobenzene	EPA 8260C	129.6	70-130
Toluene-d8	EPA 8260C	101.2	70-130
4-Bromofluorobenzene	NWTPHG	98.9	70-130

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SPOKANE, WA 99202
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Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report (RBCA Volatiles)

Sample Number	110221034-012	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	MW-12-021711	**Sampling Time**	12:45 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	126	ug/L	100	2/23/2011	WOZ	NWTPHG	
1,2-Dibromoethane	ND	ug/L	0.01	2/26/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Benzene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
m+p-Xylene	ND	ug/L	1	2/26/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	
o-Xylene	ND	ug/L	0.001	2/26/2011	WOZ	EPA 8260C	
Toluene	ND	ug/L	0.5	2/26/2011	WOZ	EPA 8260C	

Surrogate Data

Sample Number 110221034-012

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	99.6	70-130
4-Bromofluorobenzene	EPA 8260C	129.6	70-130
Toluene-d8	EPA 8260C	100.8	70-130
4-Bromofluorobenzene	NWTPHG	103.9	70-130

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report (RBCA Volatiles)

Sample Number	110221034-013	**Sampling Date**	2/17/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	DUPLICATE-1	**Sampling Time**	12:34 PM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	476	ug/L	100	2/23/2011	WOZ	NWTPHG	
1,2-Dibromoethane	ND	ug/L	0.05	3/2/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	3/2/2011	WOZ	EPA 8260C	
Benzene	1.98	ug/L	0.5	3/2/2011	WOZ	EPA 8260C	
Ethylbenzene	2.00	ug/L	0.5	3/2/2011	WOZ	EPA 8260C	
m+p-Xylene	24.3	ug/L	5	3/2/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	3/2/2011	WOZ	EPA 8260C	
Naphthalene	1.12	ug/L	0.5	3/2/2011	WOZ	EPA 8260C	
o-Xylene	21.1	ug/L	2.5	3/2/2011	WOZ	EPA 8260C	
Toluene	18.7	ug/L	2.5	3/2/2011	WOZ	EPA 8260C	

Surrogate Data

Sample Number 110221034-013

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	100.0	70-130
4-Bromofluorobenzene	EPA 8260C	100.8	70-130
Toluene-d8	EPA 8260C	102.4	70-130
4-Bromofluorobenzene	NWTPHG	108.4	70-130

Sample Number	110221034-014	**Sampling Date**	2/21/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	CABIN GRILL WELL - 022111	**Sampling Time**	11:30 AM	**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	21500	ug/L	1000	2/23/2011	WOZ	NWTPHG	

Surrogate Data

Sample Number 110221034-014

Surrogate Standard	Method	Percent Recovery	Control Limits
4-Bromofluorobenzene	NWTPHG	101.9	70-130

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report (RBCA Volatiles)

Sample Number	110221034-015	**Sampling Date**	2/16/2011	**Date/Time Received**	2/21/2011 3:03 PM
Client Sample ID	TRIP BLANKS	**Sampling Time**		**Extraction Date**	
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dibromoethane	ND	ug/L	0.05	2/27/2011	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	2/27/2011	WOZ	EPA 8260C	
Benzene	ND	ug/L	0.5	2/27/2011	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	2/27/2011	WOZ	EPA 8260C	
m+p-Xylene	ND	ug/L	1	2/27/2011	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	2/27/2011	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	0.5	2/27/2011	WOZ	EPA 8260C	
o-Xylene	ND	ug/L	0.5	2/27/2011	WOZ	EPA 8260C	
Toluene	ND	ug/L	0.5	2/27/2011	WOZ	EPA 8260C	

Surrogate Data

Sample Number 110221034-015

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	100.0	70-130
4-Bromofluorobenzene	EPA 8260C	129.2	70-130
Toluene-d8	EPA 8260C	100.8	70-130

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:	GEO ENGINEERS	**Batch #:**	110221034
Address:	523 E 2ND SPOKANE, WA 99202	**Project Name:**	IONE CABIN GRILL 0504-058-00
Attn:	DAVE LAUDER		

Analytical Results Report (RBCA Volatiles)

Authorized Signature

Kathleen A. Sattler

Kathy Sattler, Lab Manager

MCL	EPA's Maximum Contaminant Level
ND	Not Detected
PQL	Practical Quantitation Limit

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The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Gasoline	0.958	mg/L	1.1	87.1	70-130	2/25/2011	2/25/2011
Gasoline	0.948	mg/L	1.1	86.2	70-130	2/22/2011	2/22/2011
1,1-Dichloroethene	4.28	ug/L	5	85.6	70-130	2/22/2011	2/22/2011
Benzene	4.54	ug/L	5	90.8	70-130	2/22/2011	2/22/2011
Chlorobenzene	4.85	ug/L	5	97.0	70-130	2/22/2011	2/22/2011
Ethylbenzene	4.47	ug/L	5	89.4	70-130	2/22/2011	2/22/2011
o-Xylene	4.86	ug/L	5	97.2	70-130	2/22/2011	2/22/2011
Tetrachloroethene	4.46	ug/L	5	89.2	70-130	2/22/2011	2/22/2011
Gasoline	1.03	mg/L	1.1	93.6	70-130	2/22/2011	2/22/2011
Trichloroethene	4.68	ug/L	5	93.6	70-130	2/22/2011	2/22/2011
Toluene	0.71	ug/L	1	71.0	76-123	3/2/2011	3/2/2011
Benzene	0.80	ug/L	1	80.0	75-125	2/26/2011	2/26/2011
Ethylbenzene	0.90	ug/L	1	90.0	84-115	2/26/2011	2/26/2011
o-Xylene	0.93	ug/L	1	93.0	83-117	2/26/2011	2/26/2011
Toluene	0.77	ug/L	1	77.0	76-123	2/26/2011	2/26/2011
Benzene	0.72	ug/L	1	72.0	75-125	3/2/2011	3/2/2011
Ethylbenzene	0.75	ug/L	1	75.0	84-115	3/2/2011	3/2/2011
o-Xylene	0.73	ug/L	1	73.0	83-117	3/2/2011	3/2/2011
Toluene	4.33	ug/L	5	86.6	70-130	2/22/2011	2/22/2011

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
110221034-010	Gasoline	ND	1.03	mg/L	1.1	93.6	70-130	2/22/2011	2/22/2011
110221034-002	Gasoline	ND	0.980	mg/L	1.1	89.1	70-130	2/22/2011	2/22/2011

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Gasoline	1.07	mg/L	1.1	97.3	3.8	0-20	2/22/2011	2/22/2011
Gasoline	1.08	mg/L	1.1	98.2	9.7	0-20	2/22/2011	2/22/2011

Method Blank

Comments:

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Quality Control Data

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	2/22/2011
1,1,1-Trichloroethane	ND	ug/L	0.5	2/22/2011	2/22/2011
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	2/22/2011	2/22/2011
1,1,2-Trichloroethane	ND	ug/L	0.5	2/22/2011	2/22/2011
1,1-Dichloroethane	ND	ug/L	0.5	2/22/2011	2/22/2011
1,1-Dichloroethene	ND	ug/L	0.5	2/22/2011	2/22/2011
1,1-dichloropropene	ND	ug/L	0.5	2/22/2011	2/22/2011
1,2,3-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	2/22/2011
1,2,3-Trichloropropane	ND	ug/L	0.5	2/22/2011	2/22/2011
1,2,4-Trichlorobenzene	ND	ug/L	0.5	2/22/2011	2/22/2011
1,2,4-Trimethylbenzene	ND	ug/L	0.5	2/22/2011	2/22/2011
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	2/22/2011	2/22/2011
1,2-Dibromoethane	ND	ug/L	0.5	2/22/2011	2/22/2011
1,2-Dibromoethane	ND	mg/L	0.00005	2/26/2011	2/26/2011
1,2-Dibromoethane	ND	mg/L	0.00005	3/2/2011	3/2/2011
1,2-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	2/22/2011
1,2-Dichloroethane	ND	ug/L	0.5	2/22/2011	2/22/2011
1,2-Dichloroethane	ND	mg/L	0.001	2/26/2011	2/26/2011
1,2-Dichloroethane	ND	mg/L	0.001	3/2/2011	3/2/2011
1,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	2/22/2011
1,3,5-Trimethylbenzene	ND	ug/L	0.5	2/22/2011	2/22/2011
1,3-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	2/22/2011
1,3-Dichloropropane	ND	ug/L	0.5	2/22/2011	2/22/2011
1,4-Dichlorobenzene	ND	ug/L	0.5	2/22/2011	2/22/2011
2,2-Dichloropropane	ND	ug/L	0.5	2/22/2011	2/22/2011
2-Chlorotoluene	ND	ug/L	0.5	2/22/2011	2/22/2011
2-hexanone	ND	ug/L	2.5	2/22/2011	2/22/2011
4-Chlorotoluene	ND	ug/L	0.5	2/22/2011	2/22/2011
Acetone	ND	ug/L	2.5	2/22/2011	2/22/2011
Acrylonitrile	ND	ug/L	0.5	2/22/2011	2/22/2011
Benzene	ND	mg/L	0.001	2/26/2011	2/26/2011
Benzene	ND	mg/L	0.001	3/2/2011	3/2/2011
Benzene	ND	ug/L	0.5	2/22/2011	2/22/2011
Bromobenzene	ND	ug/L	0.5	2/22/2011	2/22/2011
Bromochloromethane	ND	ug/L	0.5	2/22/2011	2/22/2011
Bromodichloromethane	ND	ug/L	0.5	2/22/2011	2/22/2011
Bromoform	ND	ug/L	0.5	2/22/2011	2/22/2011
Bromomethane	ND	ug/L	0.5	2/22/2011	2/22/2011
Carbon disulfide	ND	ug/L	0.5	2/22/2011	2/22/2011
Carbon Tetrachloride	ND	ug/L	0.5	2/22/2011	2/22/2011

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Chlorobenzene	ND	ug/L	0.5	2/22/2011	2/22/2011
Chloroethane	ND	ug/L	0.5	2/22/2011	2/22/2011
Chloroform	ND	ug/L	0.5	2/22/2011	2/22/2011
Chloromethane	ND	ug/L	0.5	2/22/2011	2/22/2011
cis-1,2-dichloroethene	ND	ug/L	0.5	2/22/2011	2/22/2011
cis-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	2/22/2011
Dibromochloromethane	ND	ug/L	0.5	2/22/2011	2/22/2011
Dibromomethane	ND	ug/L	0.5	2/22/2011	2/22/2011
Dichlorodifluoromethane	ND	ug/L	0.5	2/22/2011	2/22/2011
Ethylbenzene	ND	ug/L	0.5	2/22/2011	2/22/2011
Ethylbenzene	ND	mg/L	0.001	2/26/2011	2/26/2011
Ethylbenzene	ND	mg/L	0.001	3/2/2011	3/2/2011
Gasoline	ND	mg/L	0.1	2/22/2011	2/22/2011
Gasoline	ND	mg/L	0.1	2/22/2011	2/22/2011
Gasoline	ND	mg/L	0.1	2/25/2011	2/25/2011
Hexachlorobutadiene	ND	ug/L	0.5	2/22/2011	2/22/2011
Isopropylbenzene	ND	ug/L	0.5	2/22/2011	2/22/2011
m+p-Xylene	ND	ug/L	0.5	2/22/2011	2/22/2011
m+p-Xylene	ND	mg/L	0.002	2/26/2011	2/26/2011
m+p-Xylene	ND	mg/L	0.002	3/2/2011	3/2/2011
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	2/22/2011	2/22/2011
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	2/22/2011	2/22/2011
Methylene chloride	ND	ug/L	2.5	2/22/2011	2/22/2011
methyl-t-butyl ether (MTBE)	ND	mg/L	0.001	3/2/2011	3/2/2011
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	2/22/2011	2/22/2011
methyl-t-butyl ether (MTBE)	ND	mg/L	0.001	2/26/2011	2/26/2011
Naphthalene	ND	ug/L	0.5	2/22/2011	2/22/2011
Naphthalene	ND	mg/L	0.001	2/26/2011	2/26/2011
Naphthalene	ND	mg/L	0.001	3/2/2011	3/2/2011
n-Butylbenzene	ND	ug/L	0.5	2/22/2011	2/22/2011
n-Propylbenzene	ND	ug/L	0.5	2/22/2011	2/22/2011
o-Xylene	ND	ug/L	0.5	2/22/2011	2/22/2011
o-Xylene	ND	mg/L	0.001	2/26/2011	2/26/2011
o-Xylene	ND	mg/L	0.001	3/2/2011	3/2/2011
p-isopropyltoluene	ND	ug/L	0.5	2/22/2011	2/22/2011
sec-Butylbenzene	ND	ug/L	0.5	2/22/2011	2/22/2011
Styrene	ND	ug/L	0.5	2/22/2011	2/22/2011

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: GEO ENGINEERS
Address: 523 E 2ND
SPOKANE, WA 99202
Attn: DAVE LAUDER

Batch #: 110221034
Project Name: IONE CABIN GRILL 0504-058-00

Analytical Results Report

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
tert-Butylbenzene	ND	ug/L	0.5	2/22/2011	2/22/2011
Tetrachloroethene	ND	ug/L	0.5	2/22/2011	2/22/2011
Toluene	ND	ug/L	0.5	2/22/2011	2/22/2011
Toluene	ND	mg/L	0.001	2/26/2011	2/26/2011
Toluene	ND	mg/L	0.001	3/2/2011	3/2/2011
trans-1,2-Dichloroethene	ND	ug/L	0.5	2/22/2011	2/22/2011
trans-1,3-Dichloropropene	ND	ug/L	0.5	2/22/2011	2/22/2011
Trichloroethene	ND	ug/L	0.5	2/22/2011	2/22/2011
Trichloroflouromethane	ND	ug/L	0.5	2/22/2011	2/22/2011
Vinyl Chloride	ND	ug/L	0.5	2/22/2011	2/22/2011

AR	Acceptable Range
ND	Not Detected
PQL	Practical Quantitation Limit
RPD	Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Login Report

Customer Name: GEO ENGINEERS
523 E 2ND
SPOKANE WA 99202

Order ID: 110221034
Order Date: 2/21/2011

Contact Name: DAVE LAUDER

Project Name: IONE CABIN GRILL
0504-058-00

Comment:

Sample #: 110221034-001 **Customer Sample #:** MW-1-021611

Recv'd: ☑ **Collector:** KEVIN RANDALL, LYNN **Date Collected:** 2/16/2011
Quantity: 1 **Matrix:** Water **Date Received:** 2/21/2011 3:03:00 P
Comment:

Test	Lab	Method	Due Date	Priority
TPHG-NW-SPO	S	NWTPHG	2/28/2011	***Normal (6-10 Days)***
VOLATILES 8260	S	EPA 8260C	3/2/2011	***Normal (6-10 Days)***
VOLATILES 8260 RBCA	S	EPA 8260C	3/2/2011	***Normal (6-10 Days)***

Sample #: 110221034-002 **Customer Sample #:** MW-2-021611

Recv'd: ☑ **Collector:** KEVIN RANDALL, LYNN **Date Collected:** 2/16/2011
Quantity: 1 **Matrix:** Water **Date Received:** 2/21/2011 3:03:00 P
Comment:

Test	Lab	Method	Due Date	Priority
TPHG-NW-SPO	S	NWTPHG	2/28/2011	***Normal (6-10 Days)***
VOLATILES 8260	S	EPA 8260C	3/2/2011	***Normal (6-10 Days)***
VOLATILES 8260 RBCA	S	EPA 8260C	3/2/2011	***Normal (6-10 Days)***

Sample #: 110221034-003 **Customer Sample #:** MW-3-021611

Recv'd: ☑ **Collector:** KEVIN RANDALL, LYNN **Date Collected:** 2/16/2011
Quantity: 1 **Matrix:** Water **Date Received:** 2/21/2011 3:03:00 P
Comment:

Test	Lab	Method	Due Date	Priority
TPHG-NW-SPO	S	NWTPHG	3/3/2011	***Normal (6-10 Days)***
VOLATILES 8260	S	EPA 8260C	3/3/2011	***Normal (6-10 Days)***

Customer Name: GEO ENGINEERS
523 E 2ND
SPOKANE WA 99202

Order ID: 110221034
Order Date: 2/21/2011

Contact Name: DAVE LAUDER

Project Name: IONE CABIN GRILL
0504-058-00

Comment:

Sample #: 110221034-004 **Customer Sample #:** MW-4-021711

Recv'd: ☑ **Collector:** KEVIN RANDALL, LYNN **Date Collected:** 2/17/2011
Quantity: 1 **Matrix:** Water **Date Received:** 2/21/2011 3:03:00 P
Comment:

Test	Lab	Method	Due Date	Priority
TPHG-NW-SPO	S	NWTPHG	2/28/2011	***Normal (6-10 Days)***
VOLATILES 8260	S	EPA 8260C	3/3/2011	***Normal (6-10 Days)***
VOLATILES 8260 RBCA	S	EPA 8260C	3/3/2011	***Normal (6-10 Days)***

Sample #: 110221034-005 **Customer Sample #:** MW-5-021711

Recv'd: ☑ **Collector:** KEVIN RANDALL, LYNN **Date Collected:** 2/17/2011
Quantity: 1 **Matrix:** Water **Date Received:** 2/21/2011 3:03:00 P
Comment:

Test	Lab	Method	Due Date	Priority
TPHG-NW-SPO	S	NWTPHG	3/3/2011	***Normal (6-10 Days)***
VOLATILES 8260	S	EPA 8260C	3/3/2011	***Normal (6-10 Days)***

Sample #: 110221034-006 **Customer Sample #:** MW-6-021711

Recv'd: ☑ **Collector:** KEVIN RANDALL, LYNN **Date Collected:** 2/17/2011
Quantity: 1 **Matrix:** Water **Date Received:** 2/21/2011 3:03:00 P
Comment:

Test	Lab	Method	Due Date	Priority
TPHG-NW-SPO	S	NWTPHG	3/3/2011	***Normal (6-10 Days)***
VOLATILES 8260	S	EPA 8260C	3/3/2011	***Normal (6-10 Days)***

Sample #: 110221034-007 **Customer Sample #:** MW-7-021611

Recv'd: ☑ **Collector:** KEVIN RANDALL, LYNN **Date Collected:** 2/16/2011
Quantity: 1 **Matrix:** Water **Date Received:** 2/21/2011 3:03:00 P
Comment:

Test	Lab	Method	Due Date	Priority
TPHG-NW-SPO	S	NWTPHG	2/28/2011	***Normal (6-10 Days)***
VOLATILES 8260	S	EPA 8260C	3/2/2011	***Normal (6-10 Days)***
VOLATILES 8260 RBCA	S	EPA 8260C	3/2/2011	***Normal (6-10 Days)***

Customer Name: GEO ENGINEERS
523 E 2ND
SPOKANE WA 99202

Order ID: 110221034
Order Date: 2/21/2011

Contact Name: DAVE LAUDER

Project Name: IONE CABIN GRILL
0504-058-00

Comment:

Sample #: 110221034-008 **Customer Sample #:** MW-8-021711

Recv'd: ☑ **Collector:** KEVIN RANDALL, LYNN **Date Collected:** 2/17/2011
Quantity: 1 **Matrix:** Water **Date Received:** 2/21/2011 3:03:00 P
Comment:

Test	Lab	Method	Due Date	Priority
TPHG-NW-SPO	S	NWTPHG	3/3/2011	***Normal (6-10 Days)***
VOLATILES 8260	S	EPA 8260C	3/3/2011	***Normal (6-10 Days)***

Sample #: 110221034-009 **Customer Sample #:** MW-9-02111

Recv'd: ☑ **Collector:** KEVIN RANDALL, LYNN **Date Collected:** 2/16/2011
Quantity: 1 **Matrix:** Water **Date Received:** 2/21/2011 3:03:00 P
Comment:

Test	Lab	Method	Due Date	Priority
TPHG-NW-SPO	S	NWTPHG	2/28/2011	***Normal (6-10 Days)***
VOLATILES 8260	S	EPA 8260C	3/2/2011	***Normal (6-10 Days)***
VOLATILES 8260 RBCA	S	EPA 8260C	3/2/2011	***Normal (6-10 Days)***

Sample #: 110221034-010 **Customer Sample #:** MW-10-021711

Recv'd: ☑ **Collector:** KEVIN RANDALL, LYNN **Date Collected:** 2/17/2011
Quantity: 1 **Matrix:** Water **Date Received:** 2/21/2011 3:03:00 P
Comment:

Test	Lab	Method	Due Date	Priority
TPHG-NW-SPO	S	NWTPHG	2/28/2011	***Normal (6-10 Days)***
VOLATILES 8260	S	EPA 8260C	3/3/2011	***Normal (6-10 Days)***
VOLATILES 8260 RBCA	S	EPA 8260C	3/3/2011	***Normal (6-10 Days)***

Sample #: 110221034-011 **Customer Sample #:** MW-11-021711

Recv'd: ☑ **Collector:** KEVIN RANDALL, LYNN **Date Collected:** 2/17/2011
Quantity: 1 **Matrix:** Water **Date Received:** 2/21/2011 3:03:00 P
Comment:

Test	Lab	Method	Due Date	Priority
TPHG-NW-SPO	S	NWTPHG	2/28/2011	***Normal (6-10 Days)***
VOLATILES 8260	S	EPA 8260C	3/3/2011	***Normal (6-10 Days)***

Customer Name: GEO ENGINEERS
523 E 2ND
SPOKANE WA 99202

Order ID: 110221034
Order Date: 2/21/2011

Contact Name: DAVE LAUDER

Project Name: IONE CABIN GRILL 0504-058-00

Comment:

VOLATILES 8260 RBCA	S	EPA 8260C	3/3/2011	***Normal (6-10 Days)***

Sample #: 110221034-012 **Customer Sample #:** MW-12-021711

Recv'd: ☑ **Collector:** KEVIN RANDALL, LYNN **Date Collected:** 2/17/2011
Quantity: 1 **Matrix:** Water **Date Received:** 2/21/2011 3:03:00 P
Comment:

Test	Lab	Method	Due Date	Priority
TPHG-NW-SPO	S	NWTPHG	2/28/2011	***Normal (6-10 Days)***
VOLATILES 8260	S	EPA 8260C	3/3/2011	***Normal (6-10 Days)***
VOLATILES 8260 RBCA	S	EPA 8260C	3/3/2011	***Normal (6-10 Days)***

Sample #: 110221034-013 **Customer Sample #:** DUPLICATE-1

Recv'd: ☑ **Collector:** KEVIN RANDALL, LYNN **Date Collected:** 2/17/2011
Quantity: 1 **Matrix:** Water **Date Received:** 2/21/2011 3:03:00 P
Comment:

Test	Lab	Method	Due Date	Priority
TPHG-NW-SPO	S	NWTPHG	2/28/2011	***Normal (6-10 Days)***
VOLATILES 8260	S	EPA 8260C	3/3/2011	***Normal (6-10 Days)***
VOLATILES 8260 RBCA	S	EPA 8260C	3/3/2011	***Normal (6-10 Days)***

Sample #: 110221034-014 **Customer Sample #:** CABIN GRILL WELL - 022111

Recv'd: ☑ **Collector:** KEVIN RANDALL, LYNN **Date Collected:** 2/21/2011
Quantity: 1 **Matrix:** Water **Date Received:** 2/21/2011 3:03:00 P
Comment:

Test	Lab	Method	Due Date	Priority
TPHG-NW-SPO	S	NWTPHG	2/28/2011	***Normal (6-10 Days)***
VOLATILES 8260	S	EPA 8260C	3/3/2011	***Normal (6-10 Days)***
VOLATILES 8260 RBCA	S	EPA 8260C	3/3/2011	***Normal (6-10 Days)***

Customer Name: GEO ENGINEERS
523 E 2ND
SPOKANE WA 99202

Order ID: 110221034
Order Date: 2/21/2011

Contact Name: DAVE LAUDER

Project Name: IONE CABIN GRILL
0504-058-00

Comment:

Sample #: 110221034-015 **Customer Sample #:** TRIP BLANKS

Recv'd: ☑ **Collector:** **Date Collected:** 2/16/2011
Quantity: 1 **Matrix:** Water **Date Received:** 2/21/2011 3:03:00 P
Comment:

Test	Lab	Method	Due Date	Priority
VOLATILES 8260	S	EPA 8260C	3/2/2011	***Normal (6-10 Days)***
VOLATILES 8260 RBCA	S	EPA 8260C	3/2/2011	***Normal (6-10 Days)***

SAMPLE CONDITION RECORD

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature inside the cooler?	3.8
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	Yes
Are VOC samples free of headspace?	Yes
Is there a trip blank to accompany VOC samples?	Yes
Labels and chain agree?	Yes

Anatek Labs, Inc.

Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246
504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

110221 034 GEOE Last Due 3/3/2011
1st SAMP 2/16/2011 1st RCVD 2/21/2011
IONE CABIN GRILL 0504-058-00

1/2

Company Name: GeoEngineers Inc.	Project Manager: Dave Lauder
Address: 523 E 2nd Ave	Project Name & #: Ione Cabin Grill 0504-058-00
City: Spokane State: WA Zip: 99202	Email Address: DLauder@geoengineers.com
Phone: 509-363-3125	Purchase Order #:
Fax: 363-3126	Sampler Name & phone: Kevin Rondell 435-764-7169

Please refer to our normal turn around times at: http://www.anateklabs.com/services/guidelines/reporting.asp

X Normal __Next Day* __2nd Day* __Other*_____ *All rush order requests must be prior approved. __Phone __Mail __Fax __Email

Provide Sample Description

List Analyses Requested

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	Preservative:	NWTPH-Gx	VOC's (to include BTEX, EDC, MTBE, Naph)
	MW-1-021611	2/16/11 1209	W	4			X	X
	MW-2-021611	2/16/11 1317					X	X
	MW-3-021611	2/16/11 1627					X	X
	MW-4-021711	2/17/11 1349					X	X
	MW-5-021711	2/17/11 1700					X	X
	MW-6-021711	2/17/11 1514					X	X
	MW-7-021611	2/16/11 1419					X	X
	MW-8-021711	2/17/11 1615					X	X
	MW-9-021611	2/16/11 1538					X	X
	MW-10-021711	2/17/11 1019					X	X
	MW-11-021711	2/17/11 1130					X	X
	MW-12-021711	2/17/11 1245					X	X
	Duplicate-1	2/17/11 1234					X	X

Note Special Instructions/Comments

NWTPH-Gx & VOC's using EPA 8260 or Method 524.2

VOC's should include: BTEX, EDC, MTBE, naphthalene using EPA 8260 or Method 524.2 and EDB using EPA Method 8011

SWBS

all SP

	Printed Name	Signature	Company	Date	Time
Relinquished by	Kevin Rondell		GeoEngineers	2/21/11	1503
Received by			Anatek	2/21	1503
Relinquished by					
Received by					
Relinquished by					
Received by					

Inspection Checklist

Received Intact? Y N
Labels & Chains Agree? Y N
Containers Sealed? Y N
VOC Head Space? Y N

hand del/Cooler

Temperature (°C): 3.8°
Preservative: Ice, HCl

Date & Time: 2/21/11
Inspected By: KB

110221 034 GEOE Last Due 3/3/2011 (2)
1st SAMP 2/16/2011 1st RCVD 2/21/2011
IONE CABIN GRILL 0504-058-00

Anatek Labs, Inc.

Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246
504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

Company Name: GeoEngineers Inc.
Address: 523 E 2nd Ave
City: Spokane State: WA Zip: 99202
Phone: 509-363-3125
Fax: 363-3126

Project Manager: Dave Lauder
Project Name & #: Ione Cabin Grill 0504-058-00
Email Address: DLauder@geoengineers.com
Purchase Order #:
Sampler Name & phone: Kevin Randall 435-764-7169

Turn Around Time & Reporting

Please refer to our normal turn around times at: http://www.anateklabs.com/services/guidelines/reporting.asp

X Normal
__Next Day*
__2nd Day*
__Other*_____

*All rush order requests must be prior approved.

__Phone
__Mail
__Fax
__Email

Provide Sample Description

List Analyses Requested

Note Special Instructions/Comments

NWTPH -Gx and VOCs using EPA 8260 or Method 524.2

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	NWTPH -Gx	VOCs
	Cabin Grill Well-0221	2/21/11 1130	W	4		X	X

Preservative:

	Printed Name	Signature	Company	Date	Time
Relinquished by	Kevin Randall		GeoEngineers	2/21/11	1503
Received by			Anatek	2/21	1503
Relinquished by					
Received by					
Relinquished by					
Received by					

Inspection Checklist

Received Intact? Y N
Labels & Chains Agree? Y N
Containers Sealed? Y N
VOC Head Space? Y N
handled / Cooler
Temperature (°C): 3.8°
Preservative: Ice, HCl
Date & Time: 2/21/11
Inspected By: KLS

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