



Ms. Deborah Williams  
Alaska Department of Environmental Conservation  
610 University Avenue  
Fairbanks, Alaska 99709

Subject:

**First Semi-Annual 2007 Groundwater Monitoring Report  
Chevron 306443 (Former Unocal Bulk Plant 0207)  
Gate 28, West Ramp, Fairbanks International Airport  
Fairbanks, Alaska  
ADEC File No. 100.26.040**

Dear Ms. Williams:

On behalf of Chevron Environmental Management Company (Chevron), ARCADIS U.S., Inc. (ARCADIS BBL, formerly known as Blasland, Bouck, & Lee, Inc.) is submitting the enclosed groundwater monitoring report for former Unocal Bulk Plant 0207 (the site) located at Gate 28, West Ramp at the Fairbanks International Airport in Fairbanks, Alaska (**Figure 1**). This report summarizes a groundwater sampling event conducted at the site by OASIS Environmental, Inc.

### Site Description

The site is a former Unocal Fuel Distribution Facility (Unocal #0207, Chevron #306443), located at Fairbanks International Airport (FIA), Gate 28, West Ramp, Fairbanks, Alaska. The former Unocal lease included Parcel A and Parcel B of FIA Block 1, Lot 8, located at 5245 Airport Road. The site is currently owned by the Alaska Department of Transportation and Public Facilities (ADOT&PF) which is leasing Block 1, Lot 8 to Frontier Flying. Frontier Flying has been leasing Lot 8 since April 2003; previously Frontier Flying subleased Lot 8 from Falcon Properties. Nearby properties include the ADOT&PF airport maintenance and Alaska Rescue Fire Fighting (ARFF) facility across Brumbaugh Avenue to the northeast, and Northern Air Cargo (NAC) adjacent to the southwest.

Unocal formerly subleased a portion (Parcels A and B) of Lot 8 from Trans-Arctic Airlines and operated a fuel distribution facility that provided aviation gasoline and Jet-A fuel to airplanes at FIA. Parcel A was a rectangular piece of land, 100 feet in length and 50 feet in width, running northwest to southeast approximately 20 feet

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B0045507

inside the northeastern lot boundary. Parcel B was a circular parcel of land adjacent to the southeasterly property line of Lot 8 and having a diameter of 200 feet (**Figure 2**). The former Unocal lease portion is presently being used only for periodic vehicle storage, with the exception of the northwest corner of Parcel A. Frontier maintains a 12,000-gallon Jet-A fuel aboveground storage tank (AST) within the asphalt cutout near the northwest corner of Parcel A. It is unclear if the AST is within the limits of former Parcel A; however, the AST is on the gravel that was exposed during the removal of Unocal's fuel distribution system.

In October 1991, Dames & Moore observed and monitored the removal of four 10,000-gallon underground storage tanks (USTs), two pump islands and associated piping, as reported in "Site Assessment Report for Underground Storage Tank Closure, CEM Leasing, Inc., Fairbanks, Alaska," dated December 17, 1991. The USTs were seated in sandy gravel, covered with 3 feet of silty sand, and capped with asphalt/concrete. Excavation and removal of the underground piping included two 5-foot deep-by-4-foot-wide trenches.

The UST excavation was approximately 65 feet by 40 feet and averaged 10 feet in depth. The four USTs were "free of dents and holes and appeared to be in good condition," according to Dames & Moore. Groundwater was encountered in the excavation; no free product was observed. Diesel-range organics (DRO) concentrations for the collected samples, and benzene, toluene, ethylbenzene and total xylenes (BTEX) and gasoline-range organics (GRO) for several samples, were greater than the Alaska Department of Environmental Conservation (ADEC) cleanup levels. Approximately 1,200 cubic yards of soil were excavated during UST and pipeline removal. The soil suspected of containing hydrocarbons greater than cleanup levels was placed back into the excavations. A visqueen separation layer was placed over the impacted soil, and clean imported fill was used to restore the excavation area to original grade. GeoEngineers installed nine groundwater monitoring wells in September 2003: GEI-1 through GEI-9.

### **Groundwater Sampling**

The first semi-annual groundwater sampling event was conducted on April 3, 2007, and included wells GEI-1, GEI-2, GEI-3, GEI-4, GEI-5, GEI-6, GEI-7, GEI-8 and GEI-9. Wells GEI-2 and GEI-6 were dry and were not gauged or sampled. Wells GEI-1, GEI-3 and GEI-5 contained light, non-aqueous phase liquid (LNAPL), and therefore only depth to water and depth to LNAPL readings were taken; and these wells were not sampled. Groundwater samples were collected from wells GEI-4, GEI-7, GEI-8

and GEI-9 submitted to Lancaster Laboratories, an Alaska-certified laboratory, for analysis of GRO by Alaska Method AK 101, DRO by Alaska Method 102, residual-range organic (RRO) compounds by Alaska Method 103 and BTEX by US EPA Method 8021B. The groundwater sample from well GEI-9 was also analyzed for volatile organic compounds (VOCs) by US EPA Method 8260, and lead by US EPA Method 200.8. Field work was conducted by OASIS Environmental, Inc. Proper chain-of-custody documentation was used throughout sample collection and delivery to the laboratory.

### Groundwater Flow

The groundwater flow direction was generally to the west. Groundwater elevations and approximate contours based on the April 2007 gauging are included in **Table 1** and **Figure 2**. Measurable (LNAPL) was observed in wells GEI-1, GEI-3 and GEI-5 at thicknesses of 0.27 ft, 0.02 ft and 0.47 ft, respectively, during the April 2007 sampling event.

### Groundwater Analytical Results

Groundwater sampled from GEI-8 did not exceed the applicable ADEC GCLs for any of the parameters sampled. Groundwater samples collected during the April 2007 groundwater monitoring event from GEI-4, GEI-7 and GEI-9 exceeded one or more applicable ADEC GCLs. Samples from wells GEI-7 (both the parent and the duplicate samples) and GEI-9 exceeded the ADEC GCL for GRO, DRO and benzene. Samples collected from GEI-4 exceeded the ADEC GCL for DRO and benzene.

### Laboratory Data Review Summary

As required by ADEC (Technical Memorandum 06-002, dated October 9, 2006), ARCADIS BBL completed one laboratory data review checklist for the Lancaster laboratory report (groundwater) from the first semi-annual groundwater monitoring event. The laboratory reports and the data review checklists are included as **Appendix B**. The following quality assurance (QA) summary describes six parameters, related to the quality and usability of the data presented in this report.

1. Precision - Based on the laboratory control sample (LCS), matrix spike percent recovery, and laboratory control sample duplicate (LCSD) relative percent differences (RPD), the Lancaster data meet precision objectives. A

groundwater field duplicate sample was collected from well GEI-7 and was within RPD limits.

2. Accuracy - The Lancaster data meet accuracy objectives as indicated by the laboratory quality control samples, which were within method/laboratory limits. A trip blank was also collected during groundwater monitoring; the trip blank results were less than the laboratory detection limits.
3. Representativeness - The data appear to be representative of site conditions and are generally consistent with historical groundwater monitoring results and expected impacts to groundwater.
4. Comparability - Comparability is not applicable to these laboratory results.
5. Completeness - The results appear to be valid and usable, and thus the laboratory results have 100% completeness.
6. Sensitivity - The sensitivity of the analyses was adequate for the samples as the detection limits were less than the ADEC GCLs.

### Conclusions and Recommendations

Dissolved phase concentrations remain relatively stable at the site. RRO has not been detected in any of the site wells at concentrations exceeding the applicable ADEC standards. Accordingly, ARCADIS BBL recommends eliminating RRO analysis from the sampling program for this site. No other changes to the sampling program are recommended at this time. The next sampling event is scheduled for September 2007.

Sincerely,

ARCADIS U.S., Inc.



Vanessa R. Varbel  
Project Engineer in Training



Rebecca K. Andresen, P.G.  
Senior Geologist I

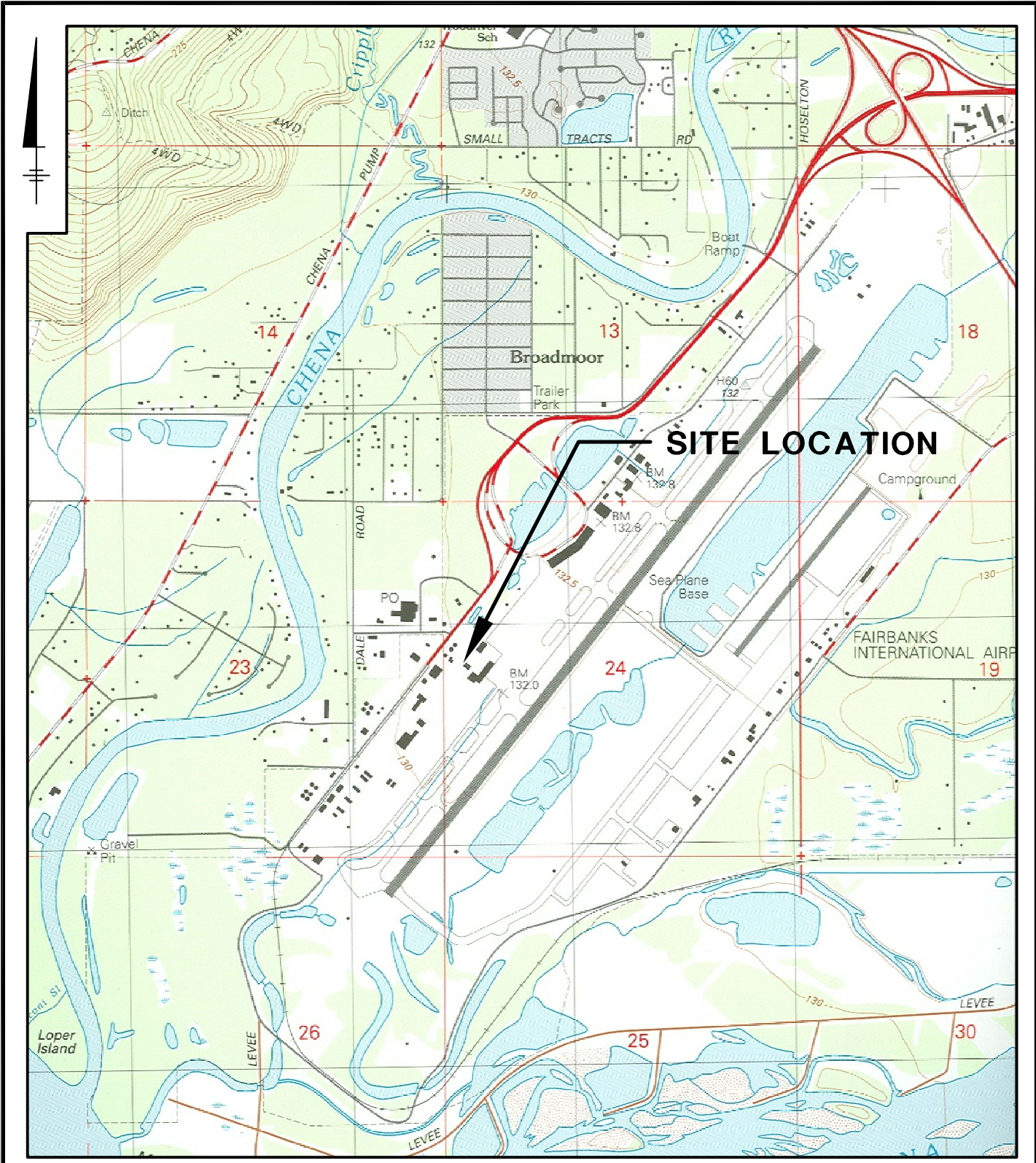
Copies:

Stacie Frerichs, Chevron EMC, San Ramon, California

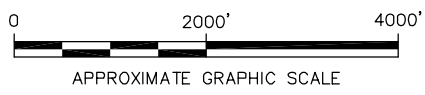
**Figures**



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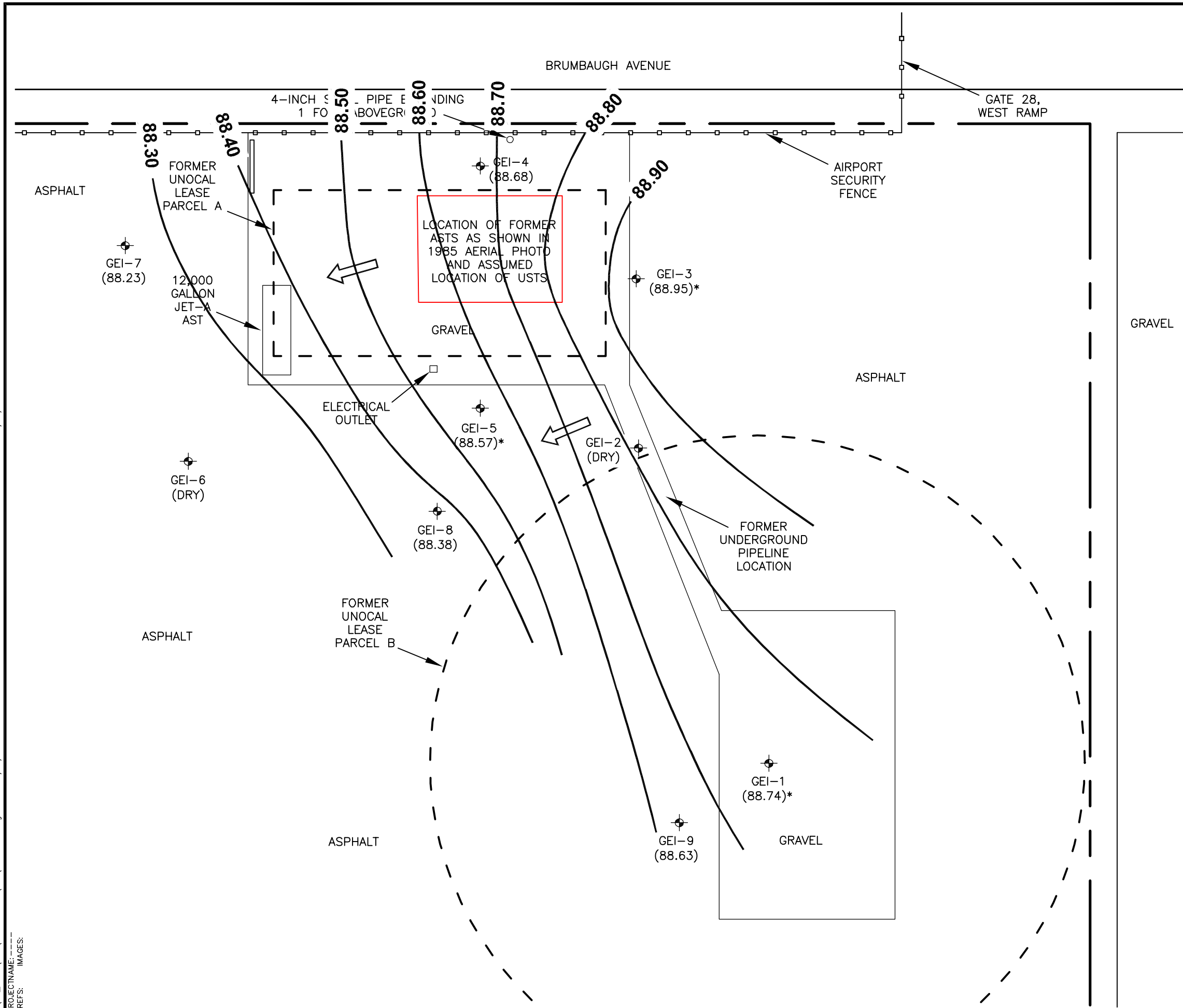
CHEVRON #306443 (FORMER UNOCAL BULK PLANT)  
 GATE 28, WEST RAMP, FAIRBANKS AIRPORT, FAIRBANKS, AK.  
**GROUNDWATER MONITORING REPORT**

**SITE LOCATION MAP**



FIGURE  
**1**

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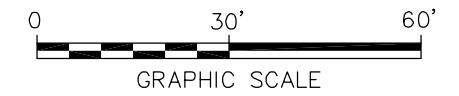


**LEGEND**

- MONITORING WELL
- (88.57) GROUNDWATER ELEVATIONS
- WATER-TABLE ELEVATION CONTOUR  
DASHED WHERE INFERRED  
CONTOUR INTERVAL = 0.10 FEET
- APPARENT DIRECTION OF GROUNDWATER FLOW
- \* GROUNDWATER ELEVATION CORRECTED FOR LIGHT NON-AQUEOUS PHASE LIQUID

Notes:  
 The locations of all features shown are approximate.  
 Elevations are relative to an arbitrary temporary benchmark.

SOURCE: BASE MAP PROVIDED BY GEOENGINEERS.  
 MAP DATE 5/15/05, FULL SCALE.



CHEVRON #306443 (FORMER UNOCAL BULK PLANT)  
 GATE 28, WEST RAMP, FAIRBANKS AIRPORT, FAIRBANKS, AK.  
**GROUNDWATER MONITORING REPORT**

**GROUNDWATER ELEVATION MAP**  
**APRIL 3, 2007**









**Tables**

**Table 1**

Groundwater Elevation Data  
 Former Unocal Bulk Plant  
 Gate 28, West Ramp  
 Fairbanks International Airport  
 Fairbanks, Alaska

Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Water (top of casing) (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Groundwater Elevation (feet)
GEI-1	99.87	09/04/03	6.32	--	--	93.55
		04/24/04		Well buried under snow/ice		
		09/16/04	8.56	--	--	91.31
		04/21/05		Well buried under snow/ice		
		09/30/05	8.17	--	--	91.70
		04/19/06		Well buried under snow/ice		
		09/21/06	9.04	--	--	90.83
		<b>04/03/07</b>	<b>11.35</b>	<b>11.08</b>	<b>0.27</b>	<b>88.74</b>
GEI-2	99.79	09/04/03	6.19	--	--	93.60
		04/24/04		Well buried under snow/ice		
		09/16/04	8.47	--	--	91.32
		04/21/05		Well buried under snow/ice		
		09/30/05	7.76	--	--	92.03
		04/19/06		Well buried under snow/ice		
		09/21/06	9.01	--	--	90.78
		<b>04/03/07</b>		<b>Well Dry</b>		
GEI-3	99.73	09/04/03	6.14	--	--	93.59
		04/24/04	9.49	--	--	90.24
		09/16/04	8.38	--	--	91.35
		04/21/05	9.84	--	--	89.89
		09/30/05	7.67	--	--	92.06
		04/19/06	11.28	10.75	0.53	88.88
		09/21/06	8.91	--	--	90.82
		<b>04/03/07</b>	<b>10.80</b>	<b>10.78</b>	<b>0.02</b>	<b>88.95</b>
GEI-4	99.66	09/04/03	6.12	--	--	93.54
		04/24/04	9.52	--	--	90.14
		09/16/04	8.41	--	--	91.25
		04/21/05	9.83	--	--	89.83
		09/30/05	7.69	--	--	91.97
		04/19/06	10.90	--	--	88.76
		09/21/06	8.91	--	--	90.75
		<b>04/03/07</b>	<b>10.98</b>	--	--	<b>88.68</b>
GEI-5	99.88	09/04/03	8.28	5.97	2.31	93.49
		04/24/04	10.11	9.71	0.40	90.09
		09/16/04	10.40	8.21	2.19	91.28
		04/21/05	10.49	10.06	0.43	89.74
		09/30/05	7.95	--	--	91.97
		04/19/06	11.75	11.01	0.74	88.74
		09/21/06	10.09	9.01	1.08	90.68
		<b>04/03/07</b>	<b>11.70</b>	<b>11.23</b>	<b>0.47</b>	<b>88.57</b>

**Table 1**

Groundwater Elevation Data  
 Former Unocal Bulk Plant  
 Gate 28, West Ramp  
 Fairbanks International Airport  
 Fairbanks, Alaska

Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Water (top of casing) (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Groundwater Elevation (feet)	
GEI-6	99.95	09/04/03	6.47	--	--	93.48	
		04/24/04	9.95	--	--	90.00	
		09/16/04	8.83	--	--	91.12	
		04/21/05	10.28	--	--	89.67	
		09/30/05	8.24	--	--	91.71	
		04/19/06	Well buried under snow/ice				
		09/21/06	9.30	9.30	<0.1	90.65	
		<b>04/03/07</b>	<b>Well Dry</b>				
GEI-7	99.44	09/04/03	5.92	--	--	93.52	
		04/24/04	9.49	--	--	89.95	
		09/16/04	8.36	--	--	91.08	
		04/21/05	9.95	--	--	89.49	
		09/30/05	7.74	--	--	91.70	
		04/19/06	11.04	--	--	88.40	
		09/21/06	9.06	--	--	90.38	
		<b>04/03/07</b>	<b>11.21</b>	--	--	<b>88.23</b>	
GEI-8	100.01	09/04/03	6.48	--	--	93.53	
		04/24/04	9.94	--	--	90.07	
		09/16/04	8.84	--	--	91.17	
		04/21/05	10.31	--	--	89.70	
		09/30/05	8.18	--	--	91.83	
		04/19/06	11.47	--	--	88.54	
		09/21/06	9.48	--	--	90.53	
		<b>04/03/07</b>	<b>11.63</b>	--	--	<b>88.38</b>	
GEI-9	100.02	09/04/03	6.42	--	--	93.60	
		04/24/04	9.82	--	--	90.20	
		09/16/04	8.21	--	--	91.81	
		04/21/05	Well buried under snow/ice				
		09/30/05	8.14	--	--	91.88	
		04/19/06	Well buried under snow/ice				
		09/21/06	9.31	--	--	90.71	
		<b>04/03/07</b>	<b>11.39</b>	--	--	<b>88.63</b>	
<b>Notes:</b>							
LNAPL = Light non-aqueous phase liquid							
Groundwater elevations were corrected due to the presence of LNAPL in well. Specific gravity of 0.82 was used for the LNAPL (Jet-A Fuel).							
Bold Type indicates most recent sampling event.							
"--" = not applicable.							

**Table 2**

Summary of Groundwater Analytical Data  
 Petroleum Hydrocarbons and Lead  
 Former Unocal Bulk Plant  
 Gate 28, West Ramp  
 Fairbanks International Airport  
 Fairbanks, Alaska

Monitoring Well	Date Sampled	GRO	DRO	RRO	BTEX				Lead
					B	T	E	X	
<b>GCL:</b>		<b>1,300</b>	<b>1,500</b>	<b>1,100</b>	<b>5</b>	<b>1,000</b>	<b>700</b>	<b>10,000</b>	<b>15</b>
GEI-1	04/24/04 <sup>1</sup>	Well buried by snow/ice							
	09/16/04	1,760	151,000	--	7.05	1.83	47.9	251	--
	09/16/04 <sup>D</sup>	--	--	--	5.40	2.02	42.2	233	--
	04/21/05 <sup>1</sup>	Well buried by snow/ice							
	09/30/05	2,270	327,000	<3,970	5.52	0.945	36.6	208	--
	04/19/06 <sup>1</sup>	Well buried by snow/ice							
	09/21/06	1,300	690,000	<9,800	10.0	0.8	22	140	--
<b>04/03/07</b>	<b>LNAPL Present - Well not sampled</b>								
GEI-2	04/24/04 <sup>1</sup>	Well buried by snow/ice							
	09/16/04	76.6	1,430	--	2.53	0.547	<0.500	1.81	--
	04/21/05 <sup>1</sup>	Well buried by snow/ice							
	09/30/05	65.6	885	<391	<0.500	<0.500	<0.500	<1.50	--
	04/19/06 <sup>1</sup>	Well buried by snow/ice							
	09/21/06	56.0	1,500	430	<0.5	<0.5	<0.5	<1.5	--
<b>04/03/07</b>	<b>Well dry - Not sampled</b>								
GEI-3	04/24/04	1,330	21,000	--	<5.00	<5.00	13.9	59.8	--
	09/16/04	310	18,300	--	1.26	<0.500	8.27	14.9	--
	04/21/05	464	22,900	--	<0.500	<0.500	6.24	14.6	--
	09/30/05	450	33,300	625	<0.500	<0.500	3.45	10.6	--
	04/19/06 <sup>2</sup>	LNAPL Present - Well not sampled							
	09/21/06	500	29,000	<480	<0.6	<0.5	7.7	25.0	--
	<b>04/03/07</b>	<b>LNAPL Present - Well not sampled</b>							
GEI-4	04/24/04	1,270	43,600	--	<5.00	<5.00	14.6	57.2	--
	09/16/04	638	36,200	--	15.0	0.675	21.8	35.7	--
	04/21/05	570	37,500	--	35.4	1.27	17.7	40.1	--
	09/30/05	1,030	122,000	<4,100	7.47	4.88	25.1	58.7	--
	04/19/06	879	17,800	<391	7.58	<0.500	21.8	27.9	<1.00
	09/21/06	630	12,000	<480	24.0	0.5	25	43	--
	<b>04/03/07</b>	<b>300</b>	<b>2,000</b>	<b>&lt;40</b>	<b>5.0</b>	<b>&lt;1.0</b>	<b>9</b>	<b>8</b>	--
	GEI-5	04/24/04 <sup>2</sup>	LNAPL Present - Well not sampled						
09/16/04 <sup>2</sup>		LNAPL Present - Well not sampled							
04/21/05 <sup>2</sup>		LNAPL Present - Well not sampled							
09/30/05		2,530	671,000	<8,700	12.4	<0.500	107	326	--
04/19/06 <sup>2</sup>		LNAPL Present - Well not sampled							
09/21/06 <sup>2</sup>		LNAPL Present - Well not sampled							
<b>04/03/07</b>		<b>LNAPL Present - Well not sampled</b>							
GEI-6	04/24/04	2,930	168,000	--	8.17	<5.00	59.6	145	--
	09/16/04	1,880	39,600	--	7.80	1.57	23.8	75.0	--
	04/21/05	1,290	25,300	--	15.7	<0.500	57.1	134	--
	09/30/05	2,220	120,000	<4,770	14.8	<0.500	20.8	107	--
	04/19/06 <sup>3</sup>	Dry well							
	09/21/06 <sup>2</sup>	LNAPL Present - Well not sampled							
	<b>04/03/07</b>	<b>Well Dry - Not sampled</b>							



**Table 2**

Summary of Groundwater Analytical Data  
 Petroleum Hydrocarbons and Lead  
 Former Unocal Bulk Plant  
 Gate 28, West Ramp  
 Fairbanks International Airport  
 Fairbanks, Alaska

Monitoring Well	Date Sampled	GRO	DRO	RRO	BTEX				Lead
					B	T	E	X	
<b>GCL:</b>		<b>1,300</b>	<b>1,500</b>	<b>1,100</b>	<b>5</b>	<b>1,000</b>	<b>700</b>	<b>10,000</b>	<b>15</b>
GEI-7	04/24/04	2,440	43,200	--	6.97	<5.00	7.58	20.0	--
	09/16/04	363	5,660	--	<0.500	1.34	8.89	14.2	--
	04/21/05	1,080	13,600	--	32.6	2.52	64.6	92.0	--
	09/30/05	226	6,700	<397	<0.500	<0.500	3.68	4.72	--
	04/19/06	934	25,200	<856	37.9	4.11	77.8	103	<1.00
	09/21/06	470	4,100	<98	1.2	<0.5	14	15	--
	<b>04/03/07</b>	<b>2,200</b>	<b>12,000</b>	<b>&lt;980</b>	<b>50</b>	<b>4</b>	<b>90</b>	<b>200</b>	<b>--</b>
	<b>04/03/07<sup>D</sup></b>	<b>2,200</b>	<b>12,000</b>	<b>&lt;980</b>	<b>40</b>	<b>4</b>	<b>90</b>	<b>200</b>	<b>--</b>
GEI-8	04/24/04	<500	7,390	--	<5.00	<5.00	11.7	30.4	--
	09/16/04	82	8,690	--	<0.500	<0.500	0.520	1.12	--
	04/21/05	54.3	1,460	--	<0.500	<0.500	<0.500	<1.50	--
	04/21/05 <sup>D</sup>	<50	--	--	<0.500	<0.500	<0.500	<1.50	--
	09/30/05	<50	4,970	<397	<0.500	<0.500	<0.500	<1.50	--
	04/19/06	<50	1,480	<400	<0.500	<0.500	<0.500	<1.50	--
	04/19/06 <sup>D</sup>	78.0	--	--	<0.500	<0.500	<0.500	<1.50	<1.00
	09/21/06	40.0	1,800	<160	<0.5	<0.5	<0.5	<1.5	--
<b>04/03/07</b>	<b>60</b>	<b>910</b>	<b>360</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;2.0</b>	<b>--</b>	
GEI-9	04/24/04	8,370	33,700	--	9.53	<5.00	113	321	--
	09/16/04	1,350	77,400	--	17.3	<0.500	58.3	57.5	--
	04/21/05 <sup>1</sup>	Well buried by snow/ice							
	09/30/05	838	50,900	<443	16.2	<0.500	55.4	82.3	--
	04/19/06 <sup>1</sup>	Well buried by snow/ice							
	09/21/06	1,200	95,000	<1,900	23.0	<0.5	52	80	36.5
	09/21/06 <sup>D</sup>	1,300	43,000	<980	22.0	<0.5	50	75	--
<b>04/03/07</b>	<b>1,600</b>	<b>9,700</b>	<b>&lt;400</b>	<b>6</b>	<b>&lt;1.0</b>	<b>40</b>	<b>80</b>	<b>0.62</b>	
Trip Blank	09/21/06	<10	--	--	<0.5	<0.5	<0.5	<1.5	--
	<b>04/03/07</b>	<b>&lt;10</b>	<b>--</b>	<b>--</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>--</b>
<b>Notes:</b> All results are reported in micrograms per liter (ug/l) GCL = ADEC 18 AAC 75 Groundwater Cleanup Level <sup>D</sup> - duplicate of preceding sample <sup>1</sup> Well was not sampled due to well being buried beneath piled snow/ice. <sup>2</sup> Well was not sampled due to the presence of LNAPL. <sup>3</sup> Well was not sampled - dry well. Highlighted cell= exceeds GCL Bold Type indicates most recent sampling event. -- = sample was not analyzed for this compound <25 = result did not exceed indicated method reporting limit; an elevated reporting limit indicates sample was diluted									

**Table 3**

Summary of Groundwater Analytical Data  
 Volatile Organic Compounds  
 Former Unocal Bulk Plant  
 Gate 28, West Ramp  
 Fairbanks International Airport  
 Fairbanks, Alaska

EPA Method:		8011	8260B														8021B		
Well	Sample Date	1,2-dibromoethane <sup>1</sup>	1,2-dibromoethane	1,1-dichloroethane	1,3,5-Trimethylbenzene	1,1,1-trichloroethane	1,2,4-Trimethylbenzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	p-Isopropyltoluene	Isopropylbenzene	n-Propylbenzene	tetrachloroethene	1,2-dichloroethane	trichloroethene	methyl tertiary butyl ether	methyl tertiary butyl ether	
GCL:		0.05	0.05	3,650	1,850	200	1,850	NL	NL	NL	NL	3,650	NL	5	5	5	NL	NL	
GEI-9	09/21/06	<0.0098	<0.5	<1	120	<0.8	540	36	17	1	17	25	59	<0.8	<0.5	<1	<0.5	<2.5	
	04/03/07	--	<0.5	<1	100	<0.8	340	35	23	2	20	30	65	<0.8	<0.5	<1	<0.5	--	
Trip Blank	04/03/07	--	<0.5	<1	<1	<0.8	<1	<1	<1	<1	<1	<1	<1	<0.8	<0.5	<1	<0.5	--	
<p><u>Notes:</u>                      All results are reported in micrograms per liter (ug/l)                      GCL = ADEC 18 AAC 75 Groundwater Cleanup Level                      NL = No GCL available                      -- = sample was not analyzed for this compound                      &lt;25 = result did not exceed indicated method reporting limit; an elevated reporting limit indicates sample was diluted</p>																			

**Appendix A**

Groundwater Sampling Data  
Sheets

**GROUNDWATER SAMPLE DATA SHEET**

Project Number: 45350 Sample Location (ie. MW-1): GEI-1  
 Project Name: FIA West Ramp/Gate 28 Sample ID (ie. MW-1-W-yymdd): N/A  
 Client: BBL Date Sample Collected: N/A  
 Sampler: Julie Ahern Time sampled: N/A

**Well Information**

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 12.09  
 b) Water Depth (ft): 11.35  
 Other: SPH detected at 11.08 ft BTOC c) Water Column (ft): 0.74  
No sample taken d) Calc. Purge Vol. (gal): 0.1

**Calculating Purge Volume**

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

Note: assuming sand pack has 29% porosity  
**Example 1- purging only well casing volume**  
 2-inch casing and 6-foot water column  
 One Purge Volume= 0.16 X 6 = 0.96 gallons water  
**Example 2- purging well casing and sand pack volume**  
 2-inch casing, 8-inch sand pack, and 6-foot water column  
 One Purge Volume= (0.16 X 6) + (0.71 X 6) = 5.22 gallons water

**FIELD MEASUREMENTS**

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other

Total Volume Purged (Gallons): \_\_\_\_\_ Free Product (y/n): Yes  
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): \_\_\_\_\_

Purge Method (disposable bailer, teflon bailer, submersible pump, etc.)  
 \_\_\_\_\_

Sample Method (disposable bailer, teflon bailer, submersible pump, etc.)  
 \_\_\_\_\_

Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.)  
Good

Remarks (well recovery, unusual conditions/observations):  
 \_\_\_\_\_

Duplicate Sample ID: <u>None Collected</u>	Analyses Requested: <u>GRO/DRO/RRO by AK101/102/103</u> <u>BTEX by 8021B</u>
Split Sample ID: <u>None Collected</u>	

Signed: Julie Ahern Date: 4/16/2007

Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_



### GROUNDWATER SAMPLE DATA SHEET

Project Number: 45350 Sample Location (ie. MW-1): GEI-2  
 Project Name: FIA West Ramp/Gate 28 Sample ID (ie. MW-1-W-yymdd): N/A  
 Client: BBL Date Sample Collected: N/A  
 Sampler: Julie Ahern Time sampled: N/A

#### Well Information

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 10.50  
 b) Water Depth (ft): 0  
 Other: Well dry c) Water Column (ft): 0  
No sample taken d) Calc. Purge Vol. (gal): 0.0

#### Calculating Purge Volume

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

Note: assuming sand pack has 29% porosity  
**Example 1- purging only well casing volume**  
 2-inch casing and 6-foot water column  
 One Purge Volume= 0.16 X 6 = 0.96 gallons water  
**Example 2- purging well casing and sand pack volume**  
 2-inch casing, 8-inch sand pack, and 6-foot water column  
 One Purge Volume= (0.16 X 6) + (0.71 X 6) = 5.22 gallons water

#### FIELD MEASUREMENTS

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other

Total Volume Purged (Gallons): \_\_\_\_\_ Free Product (y/n): \_\_\_\_\_  
 Odor: Faint Petroleum Hydrocarbon-Like Odor Sheen (y/n): \_\_\_\_\_  
 Purge Method (disposable bailer, teflon bailer, submersible pump, etc.) \_\_\_\_\_  
 Sample Method (disposable bailer, teflon bailer, submersible pump, etc.) \_\_\_\_\_  
 Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.)  
Good  
 Remarks (well recovery, unusual conditions/observations): \_\_\_\_\_

Duplicate Sample ID: None Collected Analyses Requested: GRO/DRO/RRO by AK101/102/103  
 Split Sample ID: None Collected BTEX by 8021B

Signed: Julie Ahern Date: 4/16/2007  
 Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

**GROUNDWATER SAMPLE DATA SHEET**

Project Number: 45350 Sample Location (ie. MW-1): GEI-3  
 Project Name: FIA West Ramp/Gate 28 Sample ID (ie. MW-1-W-yymmdd): N/A  
 Client: BBL Date Sample Collected: N/A  
 Sampler: Julie Ahern Time sampled: N/A

**Well Information**

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 11.35  
 b) Water Depth (ft): 10.80  
 Other: SPH detected at 10.78 ft BTOC on 4/2/07; no sample taken c) Water Column (ft): 0.55  
Note: entire column in well was SPH when bailed on 4/3/07 d) Calc. Purge Vol. (gal): 0.1

**Calculating Purge Volume**

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

Note: assuming sand pack has 29% porosity  
**Example 1- purging only well casing volume**  
 2-inch casing and 6-foot water column  
 One Purge Volume= 0.16 X 6 = 0.96 gallons water  
**Example 2- purging well casing and sand pack volume**  
 2-inch casing, 8-inch sand pack, and 6-foot water column  
 One Purge Volume= (0.16 X 6) + (0.71 X 6) = 5.22 gallons water

**FIELD MEASUREMENTS**

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other

Total Volume Purged (Gallons): \_\_\_\_\_ Free Product (y/n): Yes  
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): \_\_\_\_\_  
 Purge Method (disposable bailer, teflon bailer, submersible pump, etc.) \_\_\_\_\_  
 Sample Method (disposable bailer, teflon bailer, submersible pump, etc.) \_\_\_\_\_  
 Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.)  
Good  
 Remarks (well recovery, unusual conditions/observations): \_\_\_\_\_

Duplicate Sample ID: None Collected Analyses Requested: GRO/DRO/RRO by AK101/102/103  
 Split Sample ID: None Collected BTEX by 8021B

Signed: Julie Ahern Date: 4/16/2007  
 Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

**GROUNDWATER SAMPLE DATA SHEET**

Project Number: 45350 Sample Location (ie. MW-1): GEI-4  
 Project Name: FIA West Ramp/Gate 28 Sample ID (ie. MW-1-W-yymmdd): GEI-4-W-070403  
 Client: BBL Date Sample Collected: 4/3/2007  
 Sampler: Julie Ahern Time sampled: 1331

**Well Information**

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 12.44  
 b) Water Depth (ft): 10.98  
 Other: \_\_\_\_\_ c) Water Column (ft): 5.75  
 d) Calc. Purge Vol. (gal): 0.9

**Calculating Purge Volume**

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

Note: assuming sand pack has 29% porosity

**Example 1- purging only well casing volume**  
 2-inch casing and 6-foot water column  
 One Purge Volume= 0.16 X 6 = 0.96 gallons water

**Example 2- purging well casing and sand pack volume**  
 2-inch casing, 8-inch sand pack, and 6-foot water column  
 One Purge Volume= (0.16 X 6) + (0.71 X 6) = 5.22 gallons water

**FIELD MEASUREMENTS**

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other
1310	0.25	6.38	0.97	3.2	dark gray	999	Not Measured	Not Measured	very strong odor
1315	0.55	6.41	0.96	2.8	dark gray	999			very strong odor
1320	0.8	6.62	0.96	2.7	gray	41			heavy sheen
	1.1	6.62	0.96		light gray	64			very sandy

Total Volume Purged (Gallons): 1.3 Free Product (y/n): No  
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

Purge Method (disposable bailer, teflon bailer, submersible pump, etc.)  
 Peristaltic pump

Sample Method (disposable bailer, teflon bailer, submersible pump, etc.)  
 Peristaltic pump

Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.)  
 Good

Remarks (well recovery, unusual conditions/observations):  
 Good recovery

Duplicate Sample ID: <u>None Collected</u>	Analyses Requested: <u>GRO/DRO/RRO by AK101/102/103</u> <u>BTEX by 8021B</u>
Split Sample ID: <u>None Collected</u>	

Signed: Julie Ahern Date: 4/16/2007  
 Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

**GROUNDWATER SAMPLE DATA SHEET**

Project Number: 45350 Sample Location (ie. MW-1): GEI-5  
 Project Name: FIA West Ramp/Gate 28 Sample ID (ie. MW-1-W-yymmdd): N/A  
 Client: BBL Date Sample Collected: N/A  
 Sampler: Julie Ahern Time sampled: N/A

**Well Information**

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): NM  
 b) Water Depth (ft): 11.7  
 Other: SPH detected at 11.23 ft BTOC c) Water Column (ft): \_\_\_\_\_  
No sample taken d) Calc. Purge Vol. (gal): \_\_\_\_\_

**Calculating Purge Volume**

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

Note: assuming sand pack has 29% porosity  
**Example 1- purging only well casing volume**  
 2-inch casing and 6-foot water column  
 One Purge Volume= 0.16 X 6 = 0.96 gallons water  
**Example 2- purging well casing and sand pack volume**  
 2-inch casing, 8-inch sand pack, and 6-foot water column  
 One Purge Volume= (0.16 X 6) + (0.71 X 6) = 5.22 gallons water

**FIELD MEASUREMENTS**

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other

Total Volume Purged (Gallons): \_\_\_\_\_ Free Product (y/n): Yes  
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): \_\_\_\_\_

Purge Method (disposable bailer, teflon bailer, submersible pump, etc.)  
 \_\_\_\_\_

Sample Method (disposable bailer, teflon bailer, submersible pump, etc.)  
 \_\_\_\_\_

Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.)  
Good

Remarks (well recovery, unusual conditions/observations):  
 \_\_\_\_\_

Duplicate Sample ID: None Collected Analyses Requested: \_\_\_\_\_  
 Split Sample ID: None Collected \_\_\_\_\_

Signed: Julie Ahern Date: 4/16/2007

Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_



### GROUNDWATER SAMPLE DATA SHEET

Project Number: 45350 Sample Location (ie. MW-1): GEI-6  
 Project Name: FIA West Ramp/Gate 28 Sample ID (ie. MW-1-W-yymmdd): N/A  
 Client: BBL Date Sample Collected: N/A  
 Sampler: Julie Ahern Time sampled: N/A

#### Well Information

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 11.01  
 b) Water Depth (ft): 0  
 Other: Well dry c) Water Column (ft): 0  
No sample taken d) Calc. Purge Vol. (gal): 0.0

#### Calculating Purge Volume

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.64
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

Note: assuming sand pack has 29% porosity

**Example 1- purging only well casing volume**  
 2-inch casing and 6-foot water column  
 One Purge Volume= 0.16 X 6 = 0.96 gallons water

**Example 2- purging well casing and sand pack volume**  
 2-inch casing, 8-inch sand pack, and 6-foot water column  
 One Purge Volume= (0.16 X 6) + (0.71 X 6) = 5.22 gallons water

#### FIELD MEASUREMENTS

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other

Total Volume Purged (Gallons): \_\_\_\_\_ Free Product (y/n): \_\_\_\_\_

Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): \_\_\_\_\_

Purge Method (disposable bailer, teflon bailer, submersible pump, etc.)

Sample Method (disposable bailer, teflon bailer, submersible pump, etc.)

Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.)  
 Good

Remarks (well recovery, unusual conditions/observations):

Duplicate Sample ID: <u>None Collected</u>	Analyses Requested: _____
Split Sample ID: <u>None Collected</u>	

Signed: Julie Ahern Date: 4/16/2007

Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

### GROUNDWATER SAMPLE DATA SHEET

Project Number: 45350 Sample Location (ie. MW-1): GEI-7  
 Project Name: FIA West Ramp/Gate 28 Sample ID (ie. MW-1-W-yymmdd): GEI-7-W-070403  
 Client: BBL Date Sample Collected: 4/3/2007  
 Sampler: Julie Ahern Time sampled: 1440

#### Well Information

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 13.10  
 b) Water Depth (ft): 11.21  
 Other: \_\_\_\_\_ c) Water Column (ft): 1.89  
 d) Calc. Purge Vol. (gal): 0.3

#### Calculating Purge Volume

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

Note: assuming sand pack has 29% porosity

**Example 1- purging only well casing volume**  
 2-inch casing and 6-foot water column  
 One Purge Volume= 0.16 X 6 = 0.96 gallons water

**Example 2- purging well casing and sand pack volume**  
 2-inch casing, 8-inch sand pack, and 6-foot water column  
 One Purge Volume= (0.16 X 6) + (0.71 X 6) = 5.22 gallons water

#### FIELD MEASUREMENTS

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other
1425	0.3	6.72	1.13	3.0	olive	131	Not		strong odor
1428	0.6	6.67	1.12	2.9	olive	229	Measured	Not Measured	light sheen
1432	1	6.66	1.10	2.8	yellow	45			

Total Volume Purged (Gallons): 1.3 Free Product (y/n): No  
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

Purge Method (disposable bailer, teflon bailer, submersible pump, etc.)  
 Peristaltic pump

Sample Method (disposable bailer, teflon bailer, submersible pump, etc.)  
 Peristaltic pump

Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.)  
 Well cap very close to monument cover; well should be cut down

Remarks (well recovery, unusual conditions/observations):  
 Good recovery

Duplicate Sample ID: GEI-7-WD-070403 @ 1505 Analyses Requested: GRO/DRO/RRO by AK101/102/103  
 Split Sample ID: None Collected BTEX by 8021B

Signed: Julie Ahern Date: 4/16/2007  
 Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

**GROUNDWATER SAMPLE DATA SHEET**

Project Number: 45350 Sample Location (ie. MW-1): GEI-8  
 Project Name: FIA West Ramp/Gate 28 Sample ID (ie. MW-1-W-yymmdd): GEI-8-W-070403  
 Client: BBL Date Sample Collected: 4/3/2007  
 Sampler: Julie Ahern Time sampled: 1540

**Well Information**

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 12.88  
 b) Water Depth (ft): 11.63  
 Other: \_\_\_\_\_ c) Water Column (ft): 1.25  
 d) Calc. Purge Vol. (gal): 0.2

**Calculating Purge Volume**

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

Note: assuming sand pack has 29% porosity  
**Example 1- purging only well casing volume**  
 2-inch casing and 6-foot water column  
 One Purge Volume= 0.16 X 6 = 0.96 gallons water  
**Example 2- purging well casing and sand pack volume**  
 2-inch casing, 8-inch sand pack, and 6-foot water column  
 One Purge Volume= (0.16 X 6) + (0.71 X 6) = 5.22 gallons water

**FIELD MEASUREMENTS**

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other
1528	0.3	6.63	1.15	2.7	yellow	54	Not Measured	Not Measured	very strong odor
1531	0.65	6.67	1.13	2.6	yellow	21			odor
1536	1.1	6.73	1.12	2.5	yellow	5			no sheen

Total Volume Purged (Gallons): 1.2 Free Product (y/n): No  
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): No

Purge Method (disposable bailer, teflon bailer, submersible pump, etc.)  
 Peristaltic pump

Sample Method (disposable bailer, teflon bailer, submersible pump, etc.)  
 Peristaltic pump

Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.)  
 Good

Remarks (well recovery, unusual conditions/observations):  
 Good recovery

Duplicate Sample ID: None Collected Analyses Requested: GRO/DRO/RRO by AK101/102/103  
 Split Sample ID: None Collected BTEX by 8021B

Signed: Julie Ahern Date: 4/16/2007

Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

### GROUNDWATER SAMPLE DATA SHEET

Project Number: 45350 Sample Location (ie. MW-1): GEI-9  
 Project Name: FIA West Ramp/Gate 28 Sample ID (ie. MW-1-W-yymmdd): GEI-9-W-070403  
 Client: BBL Date Sample Collected: 4/3/2007  
 Sampler: Julie Ahern Time sampled: 1630

#### Well Information

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 12.80  
 b) Water Depth (ft): 11.39  
 Other: \_\_\_\_\_ c) Water Column (ft): 1.41  
 d) Calc. Purge Vol. (gal): 0.2

#### Calculating Purge Volume

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

Note: assuming sand pack has 29% porosity

**Example 1- purging only well casing volume**  
 2-inch casing and 6-foot water column  
 One Purge Volume= 0.16 X 6 = 0.96 gallons water

**Example 2- purging well casing and sand pack volume**  
 2-inch casing, 8-inch sand pack, and 6-foot water column  
 One Purge Volume= (0.16 X 6) + (0.71 X 6) = 5.22 gallons water

#### FIELD MEASUREMENTS

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other
1615	0.3	6.52	0.839	2.2	light gray	463	Not Measured		very strong odor
1620	0.6	6.54	0.843	2.0	yell/olive	119	Measured	Not Measured	odor
1625	1	6.55	0.841	1.9	yell/olive				heavy sheen

Total Volume Purged (Gallons): 1.2 Free Product (y/n): No  
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

Purge Method (disposable bailer, teflon bailer, submersible pump, etc.)  
 Peristaltic pump

Sample Method (disposable bailer, teflon bailer, submersible pump, etc.)  
 Peristaltic pump

Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.)  
 Good

Remarks (well recovery, unusual conditions/observations):  
 Good recovery

Duplicate Sample ID: <u>None Collected</u>	Analyses Requested: <u>GRO/DRO/RRO by AK101/102/103</u> <u>BTEX by 8021B</u> <u>Lead by 200.8; EDB by 8011</u> <u>VOCs by 8260B</u>
Split Sample ID: <u>None Collected</u>	

Signed: Julie Ahern Date: 4/16/2007  
 Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_



**Appendix B**

Laboratory Reports and Data  
Checklists

**ANALYTICAL RESULTS**

Prepared for:

Chevron  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425**SAMPLE GROUP**

The sample group for this submittal is 1032391. Samples arrived at the laboratory on Thursday, April 05, 2007. The PO# for this group is 0015014445 and the release number is HARTUNG-FRERICH.

**Client Description****Lancaster Labs Number**

GEI-4-W-070403 Grab Water Sample	5022234
GEI-7-W-070403 Grab Water Sample	5022235
GEI-7-WD-070403 Grab Water Sample	5022236
GEI-8-W-070403 Grab Water Sample	5022237
GEI-9-W-070403 Grab Water Sample	5022238
QA-T-070403 Water Sample	5022239
Wastewater-W-070403 Grab Water Sample	5022240


**METHODOLOGY**

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

ELECTRONIC COPY TO	Oasis Environmental, Inc.	Attn: Julie Ahern
ELECTRONIC COPY TO	Blasland, Bouck & Lee	Attn: Rebecca Andresen
ELECTRONIC COPY TO	BBL	Attn: Barbara Orchard
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative  
Rebecca J Shettel at (717) 656-2300

Respectfully Submitted,



Robert Strocko Jr.  
Manager



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW 5022234

GEI-4-W-070403 Grab Water Sample  
 Facility# Former Unocal 0207  
 FIA Gate 28/West Ramp - Fairbanks, AK  
 Collected: 04/03/2007 13:31 by JA

Account Number: 11964

Submitted: 04/05/2007 09:20  
 Reported: 05/07/2007 at 13:22  
 Discard: 06/07/2007

Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

FIAG4 SDG#: ALK24-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	0.3	0.01	mg/l	1
01588	BTEX					
01591	Benzene	71-43-2	0.005	0.001	mg/l	1
01592	Toluene	108-88-3	N.D.	0.001	mg/l	1
01593	Ethylbenzene	100-41-4	0.009	0.001	mg/l	1
01723	Total xylenes	1330-20-7	0.008	0.002	mg/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	2.0	0.040	mg/l	2
02946	C25-C36 RRO	n.a.	N.D.	0.040	mg/l	2

State of Alaska Lab Certification No. UST-061

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	04/10/2007 12:36	Linda C Pape	1
01588	BTEX	SW-846 8021B	1	04/10/2007 12:36	Linda C Pape	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	04/12/2007 19:41	Sarah M Snyder	2
01146	GC VOA Water Prep	SW-846 5030B	1	04/10/2007 12:36	Linda C Pape	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	04/10/2007 18:15	Elaine F Stoltzfus	1



# Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. WW 5022235

GEI-7-W-070403 Grab Water Sample  
 Facility# Former Unocal 0207  
 FIA Gate 28/West Ramp - Fairbanks, AK  
 Collected: 04/03/2007 14:40 by JA

Account Number: 11964

Submitted: 04/05/2007 09:20  
 Reported: 05/07/2007 at 13:22  
 Discard: 06/07/2007

Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

FIAG7 SDG#: ALK24-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	2.2	0.01	mg/l	1
01588	BTEX					
01591	Benzene	71-43-2	0.05	0.001	mg/l	1
01592	Toluene	108-88-3	0.004	0.001	mg/l	1
01593	Ethylbenzene	100-41-4	0.09	0.001	mg/l	1
01723	Total xylenes	1330-20-7	0.2	0.002	mg/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	12.	0.98	mg/l	50
02946	C25-C36 RRO	n.a.	N.D.	0.98	mg/l	50

State of Alaska Lab Certification No. UST-061

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	04/10/2007 13:42	Linda C Pape	1
01588	BTEX	SW-846 8021B	1	04/10/2007 13:42	Linda C Pape	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	04/12/2007 20:05	Sarah M Snyder	50
01146	GC VOA Water Prep	SW-846 5030B	1	04/10/2007 13:42	Linda C Pape	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	04/10/2007 18:15	Elaine F Stoltzfus	1



# Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. WW 5022236

GEI-7-WD-070403 Grab Water Sample  
 Facility# Former Unocal 0207  
 FIA Gate 28/West Ramp - Fairbanks, AK  
 Collected: 04/03/2007 15:05 by JA

Account Number: 11964

Submitted: 04/05/2007 09:20  
 Reported: 05/07/2007 at 13:22  
 Discard: 06/07/2007

Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

FIAFD SDG#: ALK24-03FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	2.2	0.01	mg/l	1
01588	BTEX					
01591	Benzene	71-43-2	0.04	0.001	mg/l	1
01592	Toluene	108-88-3	0.004	0.001	mg/l	1
01593	Ethylbenzene	100-41-4	0.09	0.001	mg/l	1
01723	Total xylenes	1330-20-7	0.2	0.002	mg/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	12.	0.98	mg/l	50
02946	C25-C36 RRO	n.a.	N.D.	0.98	mg/l	50

State of Alaska Lab Certification No. UST-061

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	04/10/2007 14:15	Linda C Pape	1
01588	BTEX	SW-846 8021B	1	04/10/2007 14:15	Linda C Pape	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	04/12/2007 20:30	Sarah M Snyder	50
01146	GC VOA Water Prep	SW-846 5030B	1	04/10/2007 14:15	Linda C Pape	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	04/10/2007 18:15	Elaine F Stoltzfus	1



# Analysis Report

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Lancaster Laboratories Sample No. WW 5022237

GEI-8-W-070403 Grab Water Sample  
 Facility# Former Unocal 0207  
 FIA Gate 28/West Ramp - Fairbanks, AK  
 Collected: 04/03/2007 15:40 by JA

Account Number: 11964

Submitted: 04/05/2007 09:20  
 Reported: 05/07/2007 at 13:22  
 Discard: 06/07/2007

Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

FIAG8 SDG#: ALK24-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	0.06	0.01	mg/l	1
01588	BTEX					
01591	Benzene	71-43-2	N.D.	0.001	mg/l	1
01592	Toluene	108-88-3	N.D.	0.001	mg/l	1
01593	Ethylbenzene	100-41-4	N.D.	0.001	mg/l	1
01723	Total xylenes	1330-20-7	N.D.	0.002	mg/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	0.91	0.020	mg/l	1
02946	C25-C36 RRO	n.a.	0.36	0.020	mg/l	1

State of Alaska Lab Certification No. UST-061

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	04/10/2007 12:02	Linda C Pape	1
01588	BTEX	SW-846 8021B	1	04/10/2007 12:02	Linda C Pape	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	04/11/2007 20:52	Sarah M Snyder	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/10/2007 12:02	Linda C Pape	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	04/10/2007 18:15	Elaine F Stoltzfus	1



**Lancaster Laboratories Sample No. WW 5022238**
**GEI-9-W-070403 Grab Water Sample**  
**Facility# Former Unocal 0207**  
**FIA Gate 28/West Ramp - Fairbanks, AK**  
 Collected: 04/03/2007 16:30 by JA

Account Number: 11964

 Submitted: 04/05/2007 09:20  
 Reported: 05/07/2007 at 13:22  
 Discard: 06/07/2007

 Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

FIAG9 SDG#: ALK24-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
06035	Lead	7439-92-1	0.00062		0.000047	mg/l	1
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	1.6		0.01	mg/l	1
01588	BTEX						
01591	Benzene	71-43-2	0.006		0.001	mg/l	1
01592	Toluene	108-88-3	N.D.		0.001	mg/l	1
01593	Ethylbenzene	100-41-4	0.04		0.001	mg/l	1
01723	Total xylenes	1330-20-7	0.08		0.002	mg/l	1
02923	TPH-DRO/RRO (AK) water						
02943	C10-<C25 DRO	n.a.	9.7		0.40	mg/l	20
02946	C25-C36 RRO	n.a.	N.D.		0.40	mg/l	20
05382	EPA SW846/8260 (water)						
05384	Dichlorodifluoromethane	75-71-8	N.D.		2.	ug/l	1
05385	Chloromethane	74-87-3	N.D.		1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.		1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.		1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.		1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.		2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.		0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.		2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.		1.	ug/l	1
05394	2,2-Dichloropropane	594-20-7	N.D.		1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.		0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.		0.8	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.		1.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.		0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.		1.	ug/l	1
05400	1,1-Dichloropropene	563-58-6	N.D.		1.	ug/l	1
05401	Benzene	71-43-2	12.		0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.		0.5	ug/l	1
05403	Trichloroethene	79-01-6	N.D.		1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.		1.	ug/l	1

**Lancaster Laboratories Sample No. WW 5022238**
**GEI-9-W-070403 Grab Water Sample**  
**Facility# Former Unocal 0207**  
**FIA Gate 28/West Ramp - Fairbanks, AK**  
 Collected: 04/03/2007 16:30 by JA

Account Number: 11964

 Submitted: 04/05/2007 09:20  
 Reported: 05/07/2007 at 13:22  
 Discard: 06/07/2007

 Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

FIAG9 SDG#: ALK24-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method Detection Limit	Units	
05405	Dibromomethane	74-95-3	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05410	1,3-Dichloropropane	142-28-9	N.D.	1.	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	46.	0.5	ug/l	1
05416	m+p-Xylene	1330-20-7	75.	0.5	ug/l	1
05417	o-Xylene	95-47-6	29.	0.5	ug/l	1
05418	Styrene	100-42-5	N.D.	1.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1
05420	Isopropylbenzene	98-82-8	30.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05422	Bromobenzene	108-86-1	N.D.	1.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1.	ug/l	1
05424	n-Propylbenzene	103-65-1	65.	1.	ug/l	1
05425	2-Chlorotoluene	95-49-8	N.D.	1.	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	100.	1.	ug/l	1
05427	4-Chlorotoluene	106-43-4	N.D.	1.	ug/l	1
05428	tert-Butylbenzene	98-06-6	2.	1.	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	340.	2.	ug/l	2
05430	sec-Butylbenzene	135-98-8	23.	1.	ug/l	1
05431	p-Isopropyltoluene	99-87-6	20.	1.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
05434	n-Butylbenzene	104-51-8	35.	1.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	4.	2.	ug/l	1
05437	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	ug/l	1
05438	Hexachlorobutadiene	87-68-3	N.D.	2.	ug/l	1
05439	Naphthalene	91-20-3	83.	1.	ug/l	1
05440	1,2,3-Trichlorobenzene	87-61-6	N.D.	1.	ug/l	1
08202	EPA SW 846/8260 - Water					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1

**Lancaster Laboratories Sample No. WW 5022238**
**GEI-9-W-070403 Grab Water Sample**  
**Facility# Former Unocal 0207**  
**FIA Gate 28/West Ramp - Fairbanks, AK**  
 Collected: 04/03/2007 16:30 by JA

Account Number: 11964

 Submitted: 04/05/2007 09:20  
 Reported: 05/07/2007 at 13:22  
 Discard: 06/07/2007

 Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

FIAG9 SDG#: ALK24-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1
06302	Acetone	67-64-1	N.D.	6.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	1.	ug/l	1
06305	2-Butanone	78-93-3	N.D.	3.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3.	ug/l	1
07583	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2.	ug/l	1
	2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.					
08203	Freon 113	76-13-1	N.D.	2.	ug/l	1

State of Alaska Lab Certification No. UST-061

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
06035	Lead	EPA 200.8	1	04/11/2007 10:45		Jayne E Curet	1
01440	Alaska AK101 GRO (waters)	AK 101	1	04/10/2007 14:48		Linda C Pape	1
01588	BTEX	SW-846 8021B	1	04/10/2007 14:48		Linda C Pape	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	04/12/2007 20:54		Sarah M Snyder	20
05382	EPA SW846/8260 (water)	SW-846 8260B	1	04/12/2007 13:00		Holly Berry	2
05382	EPA SW846/8260 (water)	SW-846 8260B	1	04/17/2007 05:01		Lauren C Marzario	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	04/17/2007 05:01		Lauren C Marzario	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/10/2007 14:48		Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/17/2007 05:01		Lauren C Marzario	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	04/12/2007 13:00		Holly Berry	2
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	04/10/2007 18:15		Elaine F Stoltzfus	1
07050	ICP/MS EPA-600 Digest	EPA 200.8	1	04/09/2007 19:15		James L Mertz	1

**Lancaster Laboratories Sample No. WW 5022239**
**QA-T-070403 Water Sample**  
**Facility# Former Unocal 0207**  
**FIA Gate 28/West Ramp - Fairbanks, AK**  
 Collected: 04/03/2007 08:00

Account Number: 11964

 Submitted: 04/05/2007 09:20  
 Reported: 05/07/2007 at 13:22  
 Discard: 06/07/2007

 Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

FIATB SDG#: ALK24-06TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01438	Alaska AK101 GRO (waters)	n.a.	N.D.	Detection Limit 0.01	mg/l	1
05382	EPA SW846/8260 (water)					
05384	Dichlorodifluoromethane	75-71-8	N.D.	2.	ug/l	1
05385	Chloromethane	74-87-3	N.D.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05394	2,2-Dichloropropane	594-20-7	N.D.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.	1.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05400	1,1-Dichloropropene	563-58-6	N.D.	1.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05410	1,3-Dichloropropane	142-28-9	N.D.	1.	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	0.5	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.5	ug/l	1
05418	Styrene	100-42-5	N.D.	1.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1
05420	Isopropylbenzene	98-82-8	N.D.	1.	ug/l	1

**Lancaster Laboratories Sample No. WW 5022239**
**QA-T-070403 Water Sample**  
**Facility# Former Unocal 0207**  
**FIA Gate 28/West Ramp - Fairbanks, AK**  
 Collected: 04/03/2007 08:00

Account Number: 11964

 Submitted: 04/05/2007 09:20  
 Reported: 05/07/2007 at 13:22  
 Discard: 06/07/2007

 Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

FIATB SDG#: ALK24-06TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method Detection Limit	Units	
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05422	Bromobenzene	108-86-1	N.D.	1.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1.	ug/l	1
05424	n-Propylbenzene	103-65-1	N.D.	1.	ug/l	1
05425	2-Chlorotoluene	95-49-8	N.D.	1.	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	N.D.	1.	ug/l	1
05427	4-Chlorotoluene	106-43-4	N.D.	1.	ug/l	1
05428	tert-Butylbenzene	98-06-6	N.D.	1.	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	N.D.	1.	ug/l	1
05430	sec-Butylbenzene	135-98-8	N.D.	1.	ug/l	1
05431	p-Isopropyltoluene	99-87-6	N.D.	1.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
05434	n-Butylbenzene	104-51-8	N.D.	1.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2.	ug/l	1
05437	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	ug/l	1
05438	Hexachlorobutadiene	87-68-3	N.D.	2.	ug/l	1
05439	Naphthalene	91-20-3	N.D.	1.	ug/l	1
05440	1,2,3-Trichlorobenzene	87-61-6	N.D.	1.	ug/l	1
08202	EPA SW 846/8260 - Water					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1
06302	Acetone	67-64-1	N.D.	6.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	1.	ug/l	1
06305	2-Butanone	78-93-3	N.D.	3.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3.	ug/l	1
07583	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2.	ug/l	1
	2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.					
08203	Freon 113	76-13-1	N.D.	2.	ug/l	1



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW 5022239

QA-T-070403 Water Sample  
 Facility# Former Unocal 0207  
 FIA Gate 28/West Ramp - Fairbanks, AK  
 Collected: 04/03/2007 08:00

Account Number: 11964

Submitted: 04/05/2007 09:20  
 Reported: 05/07/2007 at 13:22  
 Discard: 06/07/2007

Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

FIATB SDG#: ALK24-06TB

CAT	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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State of Alaska Lab Certification No. UST-061

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01438	Alaska AK101 GRO (waters)	AK 101	1	04/10/2007 11:29	Linda C Pape	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	04/12/2007 13:48	Holly Berry	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	04/12/2007 13:48	Holly Berry	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/10/2007 11:29	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/12/2007 13:48	Holly Berry	1



# Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. WW 5022240

Wastewater-W-070403 Grab Water Sample  
 Facility# Former Unocal 0207  
 FIA Gate 28/West Ramp - Fairbanks, AK  
 Collected: 04/03/2007 17:00 by JA

Account Number: 11964

Submitted: 04/05/2007 09:20  
 Reported: 05/07/2007 at 13:22  
 Discard: 06/07/2007

Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

FIAWW SDG#: ALK24-07\*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
00430	Flash Point for Liquids No flash observed below 169F. Test flame extinguished at 149F. Flash point was determined using Pensky Martens closed cup apparatus.	n.a.	No Flash Observed			Degrees F	1
08079	HEM (oil & grease)	n.a.	9.2		1.4	mg/l	1
01588	BTEX						
01591	Benzene	71-43-2	0.01		0.001	mg/l	1
01592	Toluene	108-88-3	0.001		0.001	mg/l	1
01593	Ethylbenzene	100-41-4	0.03		0.001	mg/l	1
01723	Total xylenes	1330-20-7	0.06		0.002	mg/l	1

State of Alaska Lab Certification No. UST-061

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
00430	Flash Point for Liquids	ASTM D93-90	1	04/12/2007 10:15	Susan A Engle	1
08079	HEM (oil & grease)	EPA 1664A	1	04/13/2007 06:59	Valerie J Trout	1
01588	BTEX	SW-846 8021B	1	04/10/2007 13:09	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/10/2007 13:09	Linda C Pape	1



## Quality Control Summary

 Client Name: Chevron  
 Reported: 05/07/07 at 01:22 PM

Group Number: 1032391

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 070967050001A	Sample number(s): 5022238							
Lead	N.D.	0.00004	mg/l	99		85-115		
		7						
Batch number: 071000002A	Sample number(s): 5022234-5022238							
C10-<C25 DRO	N.D.	0.020	mg/l	76	76	75-125	0	20
C25-C36 RRO	N.D.	0.020	mg/l	82	82	60-120	0	20
Batch number: 07100A51A	Sample number(s): 5022234-5022240							
Alaska AK101 GRO (waters)	N.D.	0.01	mg/l	88	91	60-120	3	20
Alaska AK101 GRO (waters)	N.D.	0.01	mg/l	88	91	60-120	3	20
Benzene	N.D.	0.001	mg/l	96	108	86-119	12	30
Toluene	N.D.	0.001	mg/l	95	100	82-119	5	30
Ethylbenzene	N.D.	0.001	mg/l	97	101	81-119	4	30
Total xylenes	N.D.	0.002	mg/l	98	101	82-120	4	30
Batch number: 07102043001A	Sample number(s): 5022240							
Flash Point for Liquids				100	101	97-103	1	4
Batch number: 07103807901A	Sample number(s): 5022240							
HEM (oil & grease)	3.8	1.4	mg/l	96	91	78-114	5	20
Batch number: W071021AA	Sample number(s): 5022238-5022239							
Ethanol	N.D.	50.	ug/l	103		39-161		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	103		73-119		
di-Isopropyl ether	N.D.	0.5	ug/l	108		70-123		
Ethyl t-butyl ether	N.D.	0.5	ug/l	106		74-120		
t-Amyl methyl ether	N.D.	0.5	ug/l	102		79-113		
t-Butyl alcohol	N.D.	5.	ug/l	107		69-127		
Dichlorodifluoromethane	N.D.	2.	ug/l	100		26-157		
Chloromethane	N.D.	1.	ug/l	103		47-132		
Vinyl Chloride	N.D.	1.	ug/l	101		54-123		
Bromomethane	N.D.	1.	ug/l	89		47-129		
Chloroethane	N.D.	1.	ug/l	88		57-125		
Trichlorofluoromethane	N.D.	2.	ug/l	101		57-141		
1,1-Dichloroethene	N.D.	0.8	ug/l	110		76-122		
Methylene Chloride	N.D.	2.	ug/l	107		85-120		
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	106		83-117		
1,1-Dichloroethane	N.D.	1.	ug/l	109		83-127		
2,2-Dichloropropane	N.D.	1.	ug/l	105		74-130		
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	103		84-117		
Chloroform	N.D.	0.8	ug/l	105		86-124		
Bromochloromethane	N.D.	1.	ug/l	104		83-121		
1,1,1-Trichloroethane	N.D.	0.8	ug/l	106		83-127		
Carbon Tetrachloride	N.D.	1.	ug/l	103		77-130		
1,1-Dichloropropene	N.D.	1.	ug/l	104		84-116		
Benzene	N.D.	0.5	ug/l	105		78-119		

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron

Group Number: 1032391

Reported: 05/07/07 at 01:22 PM

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
1,2-Dichloroethane	N.D.	0.5	ug/l	111		77-132		
Trichloroethene	N.D.	1.	ug/l	104		87-117		
1,2-Dichloropropane	N.D.	1.	ug/l	105		80-117		
Dibromomethane	N.D.	1.	ug/l	101		87-117		
Bromodichloromethane	N.D.	1.	ug/l	106		83-121		
Toluene	N.D.	0.5	ug/l	104		85-115		
1,1,2-Trichloroethane	N.D.	0.8	ug/l	103		86-113		
Tetrachloroethene	N.D.	0.8	ug/l	100		74-125		
1,3-Dichloropropane	N.D.	1.	ug/l	102		84-119		
Dibromochloromethane	N.D.	1.	ug/l	106		78-119		
1,2-Dibromoethane	N.D.	0.5	ug/l	103		81-114		
Chlorobenzene	N.D.	0.8	ug/l	102		85-115		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/l	101		83-114		
Ethylbenzene	N.D.	0.5	ug/l	103		82-119		
m+p-Xylene	N.D.	0.5	ug/l	103		83-113		
o-Xylene	N.D.	0.5	ug/l	103		83-113		
Styrene	N.D.	1.	ug/l	97		82-111		
Bromoform	N.D.	1.	ug/l	94		69-118		
Isopropylbenzene	N.D.	1.	ug/l	101		80-120		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	102		72-119		
Bromobenzene	N.D.	1.	ug/l	102		82-110		
1,2,3-Trichloropropane	N.D.	1.	ug/l	103		78-117		
n-Propylbenzene	N.D.	1.	ug/l	105		78-119		
2-Chlorotoluene	N.D.	1.	ug/l	102		78-115		
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	104		78-116		
4-Chlorotoluene	N.D.	1.	ug/l	105		80-112		
tert-Butylbenzene	N.D.	1.	ug/l	101		74-114		
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	103		78-117		
sec-Butylbenzene	N.D.	1.	ug/l	105		72-120		
p-Isopropyltoluene	N.D.	1.	ug/l	105		72-118		
1,3-Dichlorobenzene	N.D.	1.	ug/l	103		81-114		
1,4-Dichlorobenzene	N.D.	1.	ug/l	102		84-116		
n-Butylbenzene	N.D.	1.	ug/l	104		75-120		
1,2-Dichlorobenzene	N.D.	1.	ug/l	103		81-112		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	96		62-128		
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	102		65-114		
Hexachlorobutadiene	N.D.	2.	ug/l	100		62-119		
Naphthalene	N.D.	1.	ug/l	101		61-116		
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	103		67-114		
Acetone	N.D.	6.	ug/l	134		32-200		
Carbon Disulfide	N.D.	1.	ug/l	109		69-119		
2-Butanone	N.D.	3.	ug/l	122		52-163		
trans-1,3-Dichloropropene	N.D.	1.	ug/l	96		79-114		
cis-1,3-Dichloropropene	N.D.	1.	ug/l	102		78-114		
4-Methyl-2-pentanone	N.D.	3.	ug/l	102		70-130		
2-Hexanone	N.D.	3.	ug/l	112		61-140		
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	105		66-125		
Freon 113	N.D.	2.	ug/l	100		66-125		
Batch number: W071062AA      Sample number(s): 5022238								
Ethanol	N.D.	50.	ug/l	100		39-161		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	101		73-119		
di-Isopropyl ether	N.D.	0.5	ug/l	102		70-123		
Ethyl t-butyl ether	N.D.	0.5	ug/l	99		74-120		
t-Amyl methyl ether	N.D.	0.5	ug/l	99		79-113		

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron

Group Number: 1032391

Reported: 05/07/07 at 01:22 PM

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
t-Butyl alcohol	N.D.	5.	ug/l	99		69-127		
Dichlorodifluoromethane	N.D.	2.	ug/l	59		26-157		
Chloromethane	N.D.	1.	ug/l	62		47-132		
Vinyl Chloride	N.D.	1.	ug/l	72		54-123		
Bromomethane	N.D.	1.	ug/l	72		47-129		
Chloroethane	N.D.	1.	ug/l	74		57-125		
Trichlorofluoromethane	N.D.	2.	ug/l	91		57-141		
1,1-Dichloroethene	N.D.	0.8	ug/l	109		76-122		
Methylene Chloride	N.D.	2.	ug/l	105		85-120		
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	107		83-117		
1,1-Dichloroethane	N.D.	1.	ug/l	107		83-127		
2,2-Dichloropropane	N.D.	1.	ug/l	103		74-130		
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	104		84-117		
Chloroform	N.D.	0.8	ug/l	107		86-124		
Bromochloromethane	N.D.	1.	ug/l	105		83-121		
1,1,1-Trichloroethane	N.D.	0.8	ug/l	108		83-127		
Carbon Tetrachloride	N.D.	1.	ug/l	107		77-130		
1,1-Dichloropropene	N.D.	1.	ug/l	107		84-116		
Benzene	N.D.	0.5	ug/l	105		78-119		
1,2-Dichloroethane	N.D.	0.5	ug/l	108		77-132		
Trichloroethene	N.D.	1.	ug/l	106		87-117		
1,2-Dichloropropane	N.D.	1.	ug/l	105		80-117		
Dibromomethane	N.D.	1.	ug/l	103		87-117		
Bromodichloromethane	N.D.	1.	ug/l	110		83-121		
Toluene	N.D.	0.5	ug/l	102		85-115		
1,1,2-Trichloroethane	N.D.	0.8	ug/l	100		86-113		
Tetrachloroethene	N.D.	0.8	ug/l	105		74-125		
1,3-Dichloropropane	N.D.	1.	ug/l	98		84-119		
Dibromochloromethane	N.D.	1.	ug/l	104		78-119		
1,2-Dibromoethane	N.D.	0.5	ug/l	100		81-114		
Chlorobenzene	N.D.	0.8	ug/l	100		85-115		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/l	99		83-114		
Ethylbenzene	N.D.	0.5	ug/l	100		82-119		
m+p-Xylene	N.D.	0.5	ug/l	101		83-113		
o-Xylene	N.D.	0.5	ug/l	101		83-113		
Styrene	N.D.	1.	ug/l	94		82-111		
Bromoform	N.D.	1.	ug/l	93		69-118		
Isopropylbenzene	N.D.	1.	ug/l	100		80-120		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	96		72-119		
Bromobenzene	N.D.	1.	ug/l	97		82-110		
1,2,3-Trichloropropane	N.D.	1.	ug/l	100		78-117		
n-Propylbenzene	N.D.	1.	ug/l	101		78-119		
2-Chlorotoluene	N.D.	1.	ug/l	96		78-115		
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	99		78-116		
4-Chlorotoluene	N.D.	1.	ug/l	101		80-112		
tert-Butylbenzene	N.D.	1.	ug/l	97		74-114		
sec-Butylbenzene	N.D.	1.	ug/l	101		72-120		
p-Isopropyltoluene	N.D.	1.	ug/l	99		72-118		
1,3-Dichlorobenzene	N.D.	1.	ug/l	95		81-114		
1,4-Dichlorobenzene	N.D.	1.	ug/l	96		84-116		
n-Butylbenzene	N.D.	1.	ug/l	99		75-120		
1,2-Dichlorobenzene	N.D.	1.	ug/l	95		81-112		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	94		62-128		
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	95		65-114		
Hexachlorobutadiene	N.D.	2.	ug/l	93		62-119		

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron

Group Number: 1032391

Reported: 05/07/07 at 01:22 PM

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Naphthalene	N.D.	1.	ug/l	95		61-116		
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	99		67-114		
Acetone	N.D.	6.	ug/l	168		32-200		
Carbon Disulfide	N.D.	1.	ug/l	100		69-119		
2-Butanone	N.D.	3.	ug/l	128		52-163		
trans-1,3-Dichloropropene	N.D.	1.	ug/l	94		79-114		
cis-1,3-Dichloropropene	N.D.	1.	ug/l	100		78-114		
4-Methyl-2-pentanone	N.D.	3.	ug/l	100		70-130		
2-Hexanone	N.D.	3.	ug/l	109		61-140		
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	105		66-125		
Freon 113	N.D.	2.	ug/l	98		66-125		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 070967050001A	Sample number(s): 5022238 UNSPK: 5022238 BKG: 5022238								
Lead	100		70-130			0.00062	0.00062	1 (1)	20
Batch number: 07100A51A	Sample number(s): 5022234-5022240 UNSPK: 5022234, 5022237								
Alaska AK101 GRO (waters)	101		60-120						
Alaska AK101 GRO (waters)	101		60-120						
Benzene	99		78-131						
Toluene	103		78-129						
Ethylbenzene	105		75-133						
Total xylenes	107		84-131						
Batch number: 07102043001A	Sample number(s): 5022240 BKG: P023860								
Flash Point for Liquids						147.	147.	0 (1)	20
Batch number: W071021AA	Sample number(s): 5022238-5022239 UNSPK: P020845								
Ethanol	107	99	41-159	7	30				
Methyl Tertiary Butyl Ether	110	106	69-127	4	30				
di-Isopropyl ether	111	106	68-129	5	30				
Ethyl t-butyl ether	111	103	78-119	7	30				
t-Amyl methyl ether	107	102	72-125	4	30				
t-Butyl alcohol	106	112	64-130	5	30				
Dichlorodifluoromethane	118	109	31-185	7	30				
Chloromethane	112	109	46-149	3	30				
Vinyl Chloride	114	108	54-143	5	30				
Bromomethane	91	89	52-141	1	30				
Chloroethane	92	90	56-140	3	30				
Trichlorofluoromethane	118	110	64-165	7	30				
1,1-Dichloroethene	132	125	87-145	5	30				
Methylene Chloride	118	113	79-133	5	30				
trans-1,2-Dichloroethene	121	116	82-133	4	30				
1,1-Dichloroethane	118	111	85-135	6	30				
2,2-Dichloropropane	116	113	79-146	3	30				
cis-1,2-Dichloroethene	116	109	83-126	6	30				
Chloroform	114	109	83-139	4	30				

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

## Quality Control Summary

 Client Name: Chevron  
 Reported: 05/07/07 at 01:22 PM

Group Number: 1032391

### Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Bromochloromethane	116	110	82-129	5	30				
1,1,1-Trichloroethane	120	115	81-142	4	30				
Carbon Tetrachloride	122	115	82-149	5	30				
1,1-Dichloropropene	119	115	86-134	4	30				
Benzene	116	110	83-128	5	30				
1,2-Dichloroethane	113	108	70-143	5	30				
Trichloroethene	115	111	83-136	4	30				
1,2-Dichloropropane	112	109	83-129	3	30				
Dibromomethane	110	105	82-128	5	30				
Bromodichloromethane	116	109	80-129	7	30				
Toluene	115	111	83-127	4	30				
1,1,2-Trichloroethane	111	105	77-125	5	30				
Tetrachloroethene	114	107	78-133	6	30				
1,3-Dichloropropane	106	103	82-121	3	30				
Dibromochloromethane	115	110	82-119	4	30				
1,2-Dibromoethane	111	106	78-120	4	30				
Chlorobenzene	113	108	83-120	4	30				
1,1,1,2-Tetrachloroethane	112	106	83-119	5	30				
Ethylbenzene	115	110	82-129	4	30				
m+p-Xylene	115	110	82-130	5	30				
o-Xylene	115	110	82-130	4	30				
Styrene	109	103	69-131	5	30				
Bromoform	102	97	64-119	5	30				
Isopropylbenzene	115	110	81-130	4	30				
1,1,2,2-Tetrachloroethane	110	104	73-121	5	30				
Bromobenzene	116	108	83-121	7	30				
1,2,3-Trichloropropane	112	105	73-125	6	30				
n-Propylbenzene	118	113	74-138	5	30				
2-Chlorotoluene	115	108	78-121	6	30				
1,3,5-Trimethylbenzene	117	110	77-124	6	30				
4-Chlorotoluene	118	108	81-123	8	30				
tert-Butylbenzene	119	111	76-128	7	30				
1,2,4-Trimethylbenzene	115	109	80-125	5	30				
sec-Butylbenzene	121	112	73-137	8	30				
p-Isopropyltoluene	120	112	72-128	7	30				
1,3-Dichlorobenzene	115	107	79-123	7	30				
1,4-Dichlorobenzene	113	106	81-122	7	30				
n-Butylbenzene	118	111	73-134	6	30				
1,2-Dichlorobenzene	113	108	82-117	4	30				
1,2-Dibromo-3-chloropropane	105	100	52-137	5	30				
1,2,4-Trichlorobenzene	114	108	60-121	5	30				
Hexachlorobutadiene	114	106	51-135	7	30				
Naphthalene	112	105	50-124	6	30				
1,2,3-Trichlorobenzene	113	107	65-127	6	30				
Acetone	107	93	48-143	14	30				
Carbon Disulfide	128	121	74-135	6	30				
2-Butanone	103	100	57-137	3	30				
trans-1,3-Dichloropropene	104	100	77-123	4	30				
cis-1,3-Dichloropropene	107	102	80-126	5	30				
4-Methyl-2-pentanone	103	100	68-133	3	30				
2-Hexanone	104	101	60-135	3	30				
2-Chloroethyl Vinyl Ether	0*	0*	1-156	0	30				
Freon 113	123	114	78-146	8	30				

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

## Quality Control Summary

 Client Name: Chevron  
 Reported: 05/07/07 at 01:22 PM

Group Number: 1032391

### Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: W071062AA	Sample number(s): 5022238 UNSPK: P029052								
Ethanol	105	106	41-159	1	30				
Methyl Tertiary Butyl Ether	100	100	69-127	1	30				
di-Isopropyl ether	103	105	68-129	2	30				
Ethyl t-butyl ether	98	100	78-119	2	30				
t-Amyl methyl ether	99	100	72-125	1	30				
t-Butyl alcohol	104	106	64-130	2	30				
Dichlorodifluoromethane	61	62	31-185	1	30				
Chloromethane	65	66	46-149	1	30				
Vinyl Chloride	75	75	54-143	0	30				
Bromomethane	72	74	52-141	3	30				
Chloroethane	76	77	56-140	1	30				
Trichlorofluoromethane	95	96	64-165	1	30				
1,1-Dichloroethene	113	116	87-145	2	30				
Methylene Chloride	106	107	79-133	1	30				
trans-1,2-Dichloroethene	111	111	82-133	1	30				
1,1-Dichloroethane	110	111	85-135	1	30				
2,2-Dichloropropane	108	109	79-146	1	30				
cis-1,2-Dichloroethene	105	107	83-126	2	30				
Chloroform	112	112	83-139	0	30				
Bromochloromethane	107	109	82-129	1	30				
1,1,1-Trichloroethane	112	113	81-142	1	30				
Carbon Tetrachloride	115	116	82-149	2	30				
1,1-Dichloropropene	111	111	86-134	0	30				
Benzene	107	109	83-128	2	30				
1,2-Dichloroethane	110	111	70-143	1	30				
Trichloroethene	107	108	83-136	1	30				
1,2-Dichloropropane	107	108	83-129	2	30				
Dibromomethane	102	106	82-128	3	30				
Bromodichloromethane	109	112	80-129	3	30				
Toluene	109	112	83-127	3	30				
1,1,2-Trichloroethane	105	108	77-125	3	30				
Tetrachloroethene	105	107	78-133	1	30				
1,3-Dichloropropane	103	107	82-121	4	30				
Dibromochloromethane	111	114	82-119	2	30				
1,2-Dibromoethane	105	105	78-120	0	30				
Chlorobenzene	107	110	83-120	3	30				
1,1,1,2-Tetrachloroethane	106	109	83-119	2	30				
Ethylbenzene	107	110	82-129	3	30				
m+p-Xylene	109	110	82-130	1	30				
o-Xylene	107	109	82-130	2	30				
Styrene	96	99	69-131	3	30				
Bromoform	95	100	64-119	5	30				
Isopropylbenzene	106	108	81-130	1	30				
1,1,2,2-Tetrachloroethane	103	104	73-121	1	30				
Bromobenzene	104	105	83-121	1	30				
1,2,3-Trichloropropane	105	104	73-125	1	30				
n-Propylbenzene	109	110	74-138	1	30				
2-Chlorotoluene	104	106	78-121	1	30				
1,3,5-Trimethylbenzene	105	107	77-124	2	30				
4-Chlorotoluene	109	110	81-123	1	30				
tert-Butylbenzene	106	105	76-128	0	30				

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



## Quality Control Summary

Client Name: Chevron  
Reported: 05/07/07 at 01:22 PM

Group Number: 1032391

### Surrogate Quality Control

5022239	106	
5022240		94
Blank	107	98
LCS	115	99
LCSD	114	100
MS	116	98

Limits: 60-120 69-129

Analysis Name: EPA SW846/8260 (water)

Batch number: W071021AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5022239	86	87	86	82
Blank	86	87	89	83
LCS	87	86	89	86
MS	89	89	87	85
MSD	88	89	88	85

Limits: 80-116 77-113 80-113 78-113

Analysis Name: EPA SW846/8260 (water)

Batch number: W071062AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5022238	92	90	88	89
Blank	89	90	87	85
LCS	91	88	89	89
MS	89	87	91	87
MSD	89	91	92	86

Limits: 80-116 77-113 80-113 78-113

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



# Chevron Generic Analysis Request/Chain of Custody



Page 1 of 1

Acct. #: 11964

For Lancaster Laboratories use only

Sample #: 5022234-40

SCR#:

005903

Group # 1032391

Facility #: Former Unocal 0207  
 Site Address: FJA Gate 28/ West Ramp  
 Chevron PM: S. Hartung-Freirichs Lead Consultant: BBL-ARCAOIS  
 Consultant/Office: Seattle, WA  
 Consultant Prj. Mgr.: Rebecca Andersen  
 Consultant Phone #: 206-325-5254 Fax #: 206-325-8218  
 Sampler: Julie Ahern, OASIS Environmental  
 Service Order #: \_\_\_\_\_  Non SAR:

Matrix		Analyses Requested																									
		Preservation Codes																									
Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE	8021	8260	Naphth	8260 full scan	Oxygenates	TPH G	Flashpoint	Extended Rng.	Silica Gel Cleanup	Lead Total	Diss.	Method	VPH/EPH	1664A (Oil & Grease)	NWTPH	HClID	quantification	AK101 (G-RO)	AK102/AK103 (GRO/RO)	EPA 200.8 (Lead)	EPA 8021B (BTEX only)	
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Preservative Codes**  
 H = HCl      T = Thiosulfate  
 N = HNO<sub>3</sub>    B = NaOH  
 S = H<sub>2</sub>SO<sub>4</sub>   O = Other

J value reporting needed  
 Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation  
 Confirm MTBE + Naphthalene  
 Confirm highest hit by 8260  
 Confirm all hits by 8260  
 Run \_\_\_ oxy's on highest hit  
 Run \_\_\_ oxy's on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers
GE1-4-W-070403	4/3/07	1331	X						5
GE1-7-W-070403	4/3/07	1440	X						5
GE1-7-WD-070403	4/3/07	1505	X						5
GE1-8-W-070403	4/3/07	1540	X						5
GE1-9-W-070403	4/3/07	1630	X						9
QA-T-070403	4/3/07	0800	X						4
Wastewater-W-070403	4/3/07	1700		X					6

**Turnaround Time Requested (TAT)** (please circle)

STD. TAT      72 hour      48 hour  
 24 hour      4 day      5 day

**Data Package Options** (please circle if required)

QC Summary      Type I - Full  
 Type VI (Raw Data)      Disk / EDD  
 WIP (RWQCB)      Standard Format  
 Disk      Other

Relinquished by: <u>[Signature]</u>	Date: <u>4/4/07</u>	Time: <u>1015</u>	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by Commercial Carrier: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
UPS <u>FedEx</u> Other _____	Temperature Upon Receipt: <u>28-3.1</u> °C		Custody Seals Intact? <u>Yes</u> No	Date: <u>4/5/07</u>	Time: <u>0910</u>



TO: Our Valued Clients  
SUBJECT: Method Update Rule

**Background:**

On March 12, 2007, the USEPA published a revision to the Code of Federal Regulations at 40 CFR 136 and 40 CFR 141 in the Federal Register. This Method Update Rule (MUR) contains revised approved methods tables and revised sample collection, preservation and holding time requirements, affecting the testing requirement for both non-potable and drinking water. This Method Update Rule is a final ruling and became effective on April 11, 2007.

A copy of the Method Update Rule is available online: <http://www.epa.gov/fedrgstr/EPA-WATER/2007/March/Day-12/w1073.pdf>.

**Action:**

Lancaster Laboratories, Inc. has performed a thorough review of the MUR and has systems in place to analyze samples by the compliant method. In most cases, these methods are being replaced by equivalent methods using the same testing techniques. It is important that you review all of your NPDES Permits and other regulatory mandates to determine if you are required to use one of the outdated (removed) methods. You may continue to use these methods ONLY if you provide a copy of the permit/regulatory mandate to the laboratory to be kept on file. If the requested documentation has not been submitted to Lancaster Laboratories by June 1, 2007, your samples will be analyzed and reported by a method that is listed in the current MUR.

Please contact your Client Service Representative to request a change to the approved methods prior to June 1, 2007.

Please contact your Client Service Representative if you need assistance.

Thank you.

Lancaster Laboratories, Inc.  
Environmental Client Services

April 2007

## Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>N.D.</b>	none detected	<b>BMQL</b>	Below Minimum Quantitation Level
<b>TNTC</b>	Too Numerous To Count	<b>MPN</b>	Most Probable Number
<b>IU</b>	International Units	<b>CP Units</b>	cobalt-chloroplatinate units
<b>umhos/cm</b>	micromhos/cm	<b>NTU</b>	nephelometric turbidity units
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>Cal</b>	(diet) calories	<b>lb.</b>	pound(s)
<b>meq</b>	milliequivalents	<b>kg</b>	kilogram(s)
<b>g</b>	gram(s)	<b>mg</b>	milligram(s)
<b>ug</b>	microgram(s)	<b>l</b>	liter(s)
<b>ml</b>	milliliter(s)	<b>ul</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>fib &gt;5 um/ml</b>	fibers greater than 5 microns in length per ml
<b>&lt;</b>	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

### Organic Qualifiers

<b>A</b>	TIC is a possible aldol-condensation product
<b>B</b>	Analyte was also detected in the blank
<b>C</b>	Pesticide result confirmed by GC/MS
<b>D</b>	Compound quantitated on a diluted sample
<b>E</b>	Concentration exceeds the calibration range of the instrument
<b>J</b>	Estimated value
<b>N</b>	Presumptive evidence of a compound (TICs only)
<b>P</b>	Concentration difference between primary and confirmation columns >25%
<b>U</b>	Compound was not detected
<b>X,Y,Z</b>	Defined in case narrative

### Inorganic Qualifiers

<b>B</b>	Value is <CRDL, but ≥IDL
<b>E</b>	Estimated due to interference
<b>M</b>	Duplicate injection precision not met
<b>N</b>	Spike amount not within control limits
<b>S</b>	Method of standard additions (MSA) used for calculation
<b>U</b>	Compound was not detected
<b>W</b>	Post digestion spike out of control limits
<b>*</b>	Duplicate analysis not within control limits
<b>+</b>	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

**WARRANTY AND LIMITS OF LIABILITY** – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.

## Laboratory Data Review Checklist

### 1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes       No

Comments:

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes       No

Comments:

NA

### 2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?

Yes       No

Comments:

b. Correct analyses requested?

Yes       No

Comments:

### 3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt ( $4^{\circ} \pm 2^{\circ} \text{C}$ )?

Yes       No

Comments:

b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes       No

Comments:

c. Sample condition documented - broken, leaking (Methanol), zero headspace (VOC vials)?

Yes       No

Comments:

d. If there were any discrepancies, were they documented? - For example, incorrect sample containers/preservation, sample temperature outside of acceptance range, insufficient or missing samples, etc.?

Yes       No      Comments:

NA

e. Data quality or usability affected? Explain.

Comments:

NA

#### 4. Case Narrative

a. Present and understandable?

Yes       No      Comments:

b. Discrepancies, errors or QC failures identified by the lab?

Yes       No      Comments:

No Discrepancies

c. Were all corrective actions documented?

Yes       No      Comments:

NA

d. What is the effect on data quality/usability according to the case narrative?

Comments:

NA

#### 5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes       No      Comments:

b. All applicable holding times met?

Yes       No      Comments:

c. All soils reported on a dry weight basis?

Yes       No      Comments:

NA

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

Yes       No

Comments:

e. Data quality or usability affected? Explain.

Comments:

NA

## 6. QC Samples

### a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes       No

Comments:

ii. All method blank results less than PQL?

Yes       No

Comments:

iii. If above PQL, what samples are affected?

Comments:

NA

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes       No

Comments:

NA

v. Data quality or usability affected? Explain.

Comments:

NA

### b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics - One LCS/LCSD reported per matrix, analysis and 20 samples?

Yes       No

Comments:

ii. Metals/Inorganics - One LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes       No

Comments:

iii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes       No      Comments:

iv. Precision - All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes       No      Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

NA

vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?

Yes       No      Comments:

NA

vii. Data quality or usability affected? Explain.

Comments:

NA

c. Surrogates - Organics Only

i. Are surrogate recoveries reported for organic analyses - field, QC and laboratory samples?

Yes       No      Comments:

ii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes       No      Comments:

Batch 07100A51A (BTEX Analysis)

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

Yes       No      Comments:

iv. Data quality or usability affected? Explain.

Comments:

Quality/Usability not affected

d. Trip Blank - Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and cooler?

Yes       No

Comments:

ii. All results less than PQL?

Yes       No

Comments:

iii. If above PQL, what samples are affected?

Comments:

NA

iv. Data quality or usability affected? Explain.

Comments:

NA

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes       No

Comments:

ii. Submitted blind to lab?

Yes       No

Comments:

iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

$$RPD (\%) = \text{Absolute Value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where  $R_1$  = Sample Concentration

$R_2$  = Field Duplicate Concentration

Yes       No

Comments:



iv. Data quality or usability affected? Explain.

Yes  No

Comments:

NA

f. Decontamination or Equipment Blank (if applicable)

Yes  No  Not Applicable

i. All results less than PQL?

Yes  No

Comments:

NA

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? Explain.

Comments:

NA

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes  No

Comments:

NA

Completed by: Vanessa Varbel

Title: Project Engineer in Training

Date: May 23, 2007

CS Report Name:

Report Date:

Consultant Firm: ARCADIS BBL

Laboratory Name: Lancaster Laboratories

Laboratory Report Number: 1032391-306443

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