

Transmitted Via UPS

January 31, 2007

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

**Re: Second Semi-annual 2006 Groundwater Monitoring Report
Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former
Unocal Bulk Plant 306456
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska**

Dear Ms. Williams:

On behalf of Chevron Environmental Management Company (Chevron), Blasland, Bouck & Lee (now known as ARCADIS U.S., Inc. [ARCADIS BBL]) has prepared this report to document second semi-annual 2006 sampling activities at former Chevron Bulk Plant 100-430, former Texaco Bulk Plant 21-1815, and former Unocal Bulk Plant 306456 located at 418 Illinois St, 410 Driveway St, and 328 ½ Illinois St., respectively, in Fairbanks, Alaska (**Figure 1**). In addition to groundwater monitoring, this report also contains the results of a well search and an updated conceptual site model.

Site Descriptions

Former bulk plants 1001430, 211815, and 306456 (the site) are located adjacent to one another. The Alaska Railroad (AKRR) has owned the properties since the early 1900's. The sites are located within the Fairbanks Area-Wide Industrial Reclamation (FAIR) Area which is bounded by Noyes Slough to the north and east and Chena River to the south. Land use in the area consists primarily of industrial activities including: railroad facilities, bulk fuel terminals, gasoline stations, miscellaneous light industrial and warehousing.

Site 211815 is located at 410 Driveway Street in Fairbanks, Alaska. Currently the site is leased from the AKRR by Unique Alaska. Unique Alaska has sub-leased the property to ABC General Contracting. Texaco leased the property and operated a bulk plant at the site from 1958 to 1982. Willner's Fuel Distribution then leased the site and operated a bulk plant at the site from 1982 to 1993. A total of 12 aboveground storage tanks (ASTs), five 2,020-barrel capacity and seven 476-barrel capacity, were located on the southern portion of the site. The five larger AST's were removed from the site in 1994 and historically, contained No. 1 and No. 2 diesel, unleaded gasoline, and regular leaded gasoline. The



smaller ASTs historically contained No. 10 oil. Information on their removal is unknown at this time. Two of the ASTs (one large and one small) were reportedly rented to a chemical company and contained silicone. The fuel holding and dispensing facilities were removed from the site sometime between 1994 and 2000. Twelve monitoring wells, AR-81, AR-85, MW-1 through MW-5, and MW-7 through MW-10, are currently available and part of the sampling program for the Texaco site.

Former Chevron terminal 100-1430 is located at 418 Illinois Street in Fairbanks, Alaska. Chevron leased the property and operated a bulk plant at the site from 1926 to 1985. Saupe Enterprises began operating a bulk plant at the site in 1985. Sourdough Fuels now operates a bulk plant at the site. Former facilities included several ASTs of varying sizes, conveyance piping, pump house, loading racks, warehouse, and an office. Current facilities include conveyance piping, pump house, loading racks, warehouse, an office, and a new horizontal AST farm located west of the original ASTs. Several of the original ASTs are now reportedly used for drum storage. In 1986, a groundwater extraction well was installed in the southwest corner of the site. From 1986 to 1990, the extraction well removed approximately 10,000 gallons of free-phase petroleum product. Since 1982, 23 groundwater monitoring wells have been installed on and off-site. There are currently 10 monitoring wells, MW-23, MW-25, TH-1, TH-2, TH-5, TH-7, TH-10, TH-13, TH-17, and TH-18, available and part of the sampling program for the Chevron site.

Site 306456 is located on a 3.11 acre parcel located at 328.5 Illinois Street in Fairbanks, Alaska. Unocal utilized the western 1.84 acres of the site to store and dispense fuel between approximately 1952 and 1982, and added the western 1.27 acres onto the lease in 1961. Former fuel facilities included two 55,000-gallon and nine 20,000-gallon ASTs, underground pipelines, pumping facilities, a loading rack, and fuel dispensing pumps. Fuel stored on the site consisted of diesel and aviation gas. The Alaska Road Commission leased the eastern 1.27 acres of the site from 1941 to 1981. The entire site was leased by Interior Leasing from 1982 to 1989 and by CEM Leasing from 1989 to 2001. From 1982 to 2001, the facility was operated by Petroleum Sales. According to Phil Tannehill, co-owner of Petroleum Sales, the ASTs were removed in 1993, and the piping and dispensing equipment were removed in 1997. OK Lumber is currently leasing the property from the railroad. It was observed during 2004 monitoring event that a church was using the site for parking several school buses. During a spring 2005 site visit, surface grading and fence alterations were also noted. The site is now accessible from the north via the railroad right-of-way. Buses are no longer being parked on the site, and the west warehouse appears to contain some sort of small business (no further details are available) (**Figures 2 and 3**). Eighteen monitoring wells, GEI-1 through GEI-12, K-5, K-7, MW-2, MW-4, MW-5, and MW-6, are currently available and part of the sampling program for the Unocal site.

Groundwater monitoring is conducted on a semi-annual basis at each of these sites. Wells which have historically had light-non-aqueous phase liquid (LNAPL), are gauged, and LNAPL is recovered (when present) on a monthly basis. The gauging data are included in **Tables 1a, 1b, and 1c**.

Groundwater Monitoring

Second semi-annual 2006 groundwater monitoring was conducted by OASIS Environmental from September 11 to 17, and September 29, 2006. Wells AR-81, AR-85, MW-1 through MW-5, and MW-7 through MW-10 (Texaco); MW-23, MW-25, TH-1, TH-2, TH-5, TH-7, TH-10, TH-13, TH-17, and TH-18 (Chevron) and; GEI-1 through GEI-12, K-5, K-7, MW-2, MW-4, MW-5, and MW-6 (Unocal); were gauged.



A decontaminated oil-water interface probe was used to gauge the water level and depth to LNAPL, if present. LNAPL was present in well MW-25 (Chevron) with an apparent thickness of 0.13 ft; this well was not purged or sampled. Wells were purged of three casing volumes of water using new disposable polyethylene bailers. Water quality parameters including temperature, pH, electrical conductivity, and turbidity were measured for each purge casing volume and are recorded on groundwater sample field data sheets presented in **Attachment C**.

Groundwater Flow

Depth to groundwater in site wells ranged from 11.53 feet below ground surface (bgs) in well TH-18 (Chevron) to 18.11 feet bgs in well MW-6 (Unocal) (**Tables 1a, 1b, and 1c**). The Unocal well casing elevations were not surveyed to the same benchmark as the Chevron and Texaco sites, so the Unocal groundwater elevations cannot be compared with the Chevron and Texaco groundwater elevations. Groundwater flow direction was determined using potentiometric maps, one for the Chevron and Texaco sites (**Figure 2**), and a map of groundwater elevations for the Unocal site (**Figure 3**). Only a general flow direction could be discerned from the Unocal groundwater elevations, so a potentiometric surface map was not created. Monitoring wells at the three sites will be resurveyed to a common benchmark next spring. The September 2006 potentiometric maps indicate groundwater flow direction is south to southwest (**Figures 2 and 3**). This is generally consistent with previous observations.

Laboratory Analyses

The samples from the wells were analyzed for:

- Gasoline range organics (GRO) by Alaska Method AK 101;
- Diesel range organics (DRO) by Alaska Method AK 102;
- Residual range organics (RRO) by Alaska Method 103; and
- Benzene, toluene, ethylbenzene and total xylenes (BTEX) by EPA Method 8021B.

As requested by ADEC, the samples from the two most impacted wells without LNAPL at each site (TH-13 and TH-17 at Chevron, MW-3 and MW-4 at Texaco, and GEI-2 and GEI-11 at Unocal) were sampled for additional contaminants of potential concern (COPCs):

- Methyl tertiary-butyl ether (MTBE) by EPA Method 8021B;
- Polycyclic aromatic hydrocarbons (PAHs) by 8270C;
- 1, 2-dibromoethane (EDB) using EPA Method 8011;
- Eight RCRA metals by EPA Methods 7470A (mercury only) and 6010B; and
- Seven volatile organic compounds (VOCs) by EPA Method 8260B.

Analytical Results

Samples from wells MW-23, TH-10, and TH-7 (Chevron); AR-81, AR-85, MW-1, and MW-9 (Texaco); and MW-2, MW-4, and K-7 (Unocal) did not contain any of the target analytes at concentrations exceeding ADEC Table C groundwater cleanup levels (GCLs).

Concentrations of GRO, DRO, RRO, and BTEX, and were greater than ADEC GCLs at each of the three sites. EDB concentrations were greater than the applicable ADEC GCL in samples from the Unocal site. None of the samples from the Chevron and Texaco sites collected during this event exceeded ADEC GCLs for PAHs, the seven VOCs by 8260B, EDB, or RCRA metals with exception of lead in Texaco well MW-4 and trichloroethene (TCE) in Texaco well MW-4. None of the samples from the Unocal site



collected during this event exceeded ADEC GCLs for PAHs or six of the seven VOCs by 8260B (the EDB GCL was exceeded). MTBE was only detected in Texaco well MW-4 at a concentration of 220 micrograms per liter ($\mu\text{g/L}$); however, there is not a GCL for this compound.

In general, the analytical results are consistent with historical groundwater monitoring results. The dissolved-phase concentrations of petroleum hydrocarbons appear to be stable or decreasing at the three sites. **Tables 2a, 2b, 2c, 3, and 4** summarize analytical results.

Laboratory Data Quality Assurance Summary

As required by ADEC (Technical Memorandum 06-002, dated October 9, 2006), ARCADIS BBL completed a laboratory data review checklist for each of the Lancaster laboratory reports from the second semi-annual groundwater monitoring event. The laboratory reports are included as **Attachment A**. The data review checklists are attached as **Attachment 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) and laboratory control sample duplicate (LCSD) relative percent differences, the data meet precision objectives. Five groundwater field duplicate samples were collected and the analytes were within RPD limits, except for DRO in MW-5 which had a RPD of 59 % which is greater than the specified 30 %.
2. Accuracy - The data meet accuracy objectives as indicated by the laboratory quality control samples, which were within method/laboratory limits. The surrogate recoveries outside the specifications were confirmed unless attributed to dilution. Analytes were not detected in the three trip blanks collected during groundwater monitoring.
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 method detection limits (MDLs) were less than the ADEC GCLs with the exception of several compounds (PAHs and EDB) with low cleanup levels (1 $\mu\text{g/L}$ or less), and RRO and benzene in several of the Unocal wells. The RRO and benzene MDLs were raised because the laboratory diluted the samples to prevent contamination of their instruments.

Purge Water Disposal

Purge water generated during well sampling and equipment cleaning was pumped into DOT-approved 30-gallon drums onsite for temporary storage. The purge water drums were sampled and a composite sample was submitted to Lancaster Laboratories. Following receipt of the composite result, the Chevron and Texaco purge water was re-sampled and submitted for analysis. The local waste water treatment plant (WWTP) reviewed the results and agreed to accept the purge water (with exception of the four drums of Unocal wastewater) per the facility NPDES permit requirements. However, the purge water froze prior to receipt of the second set of laboratory results. Once the drums thaw, the accepted water (Chevron and Texaco) will be transported to the Golden Heart Utilities WWTP in Fairbanks for supervised disposal. ARCADIS BBL is currently coordinating the transport of the Unocal purge water to Emerald Alaska in Anchorage, Alaska for disposal, as approved by ADEC.



Well Search

As requested by ADEC, a water resources questionnaire was sent to properties located within 1,000 feet of the sites. A drive-by well survey was also conducted in September 2006. Several possible well boxes were identified. Possible well boxes, identified in the drive-by survey but not in the questionnaire, were located at 345 Brandt St, 302 Boundary St, Minnie St and Good St, and Monroe Catholic High School. The Fairbanks North Star Borough Property Database website was used to identify the property addresses and owners within the 1,000-ft radius. One hundred and ninety-seven addresses were identified, and letters were sent to each. Only fifty-three questionnaires were returned. It appeared that many of the addresses were duplicates, i.e. one person owned two or more adjoining properties with only one mail receptacle for the two properties. Of the fifty-three questionnaires returned, a total of 12 wells were identified. Only two of the wells are currently in use, and both are located crossgradient and are used for irrigation. Most surveys said that municipally-supplied drinking water was in use; hydrants and water meters were also observed throughout the area during the drive-by search. Golden Heart Utilities identified monitoring wells on their properties; however, these are not included in the summary below. Numerous monitoring wells are known to exist within 1,000-ft of the site(s), which are part of a larger industrial remediation area. The results of the well search are summarized in the Tables below.

Table A: Summary of Well Questionnaire Responses

Number Sent	Number of Responses	Responses - no well on property	Number of wells Identified
197	53	37	12 (16 surveys)

Table B: Summary of Identified Wells

Property Address	Well Use	In use	Total depth (feet)	Approximate location relative to site
316 Minnie St	Irrigation	No	Unknown	0.1 mile crossgradient (east)
508 Monroe St	None	No	Unknown	0.1 mile crossgradient (east)
1016 & 1005 Pioneer Rd	None – Dry	No	Unknown	0.1 mile downgradient (south)
346 Minnie St	Irrigation	No	Unknown	0.1 mile crossgradient (east)
1008 Pioneer Rd	Irrigation	No	25 ft	0.1 mile downgradient (south)
366 Slater St	Irrigation	Yes	Unknown	0.1 mile crossgradient (east)
345 Church St	Irrigation	Pump not currently working	Unknown	0.1 mile crossgradient (east)
301 Slater St	Irrigation	No	Unknown	0.1 mile crossgradient (east)
815, 803 & 801 Pioneer Rd	Irrigation	No	Shallow	0.1 mile downgradient (south)
345 Minnie St	Irrigation	Yes	Unknown	0.1 mile crossgradient (east)
1002 Pioneer Rd	Other	No	Unknown	0.1 mile downgradient (south)
504 Monroe St	Irrigation, Domestic Washing & Bathing	No	Unknown	0.1 mile crossgradient (east)

The returned well survey letters are included as **Attachment D**.

Conceptual Site Model

As requested by ADEC the conceptual site model (CSM) has been updated. The sources of the releases at the site include ASTs, piping, loading racks, dispenser pumps, drums, and offsite sources. The mechanisms of the release of petroleum hydrocarbons into the subsurface include leaks, spills, and direct discharge. The groundwater and soil at the site has been impacted with petroleum hydrocarbons. The sites are a part of the FAIR Area, which is primarily industrial, and has a regional groundwater contamination issue.

Outdoor air and indoor air could potentially be impacted by volatilization of petroleum located in the subsurface soil and groundwater. Inhalation of outdoor and inhalation of indoor air are potentially complete pathways. The Chena River is located downgradient of the site, but there is no evidence that it has been impacted.

Potential onsite receptors include commercial or industrial workers, construction workers, site visitors, and site trespassers. Potentially complete pathways include incidental soil ingestion, dermal absorption of contaminants from soil, ingestion of groundwater, dermal absorption of contaminants in groundwater, inhalation of volatile compounds in household water, and inhalation of indoor and outdoor air. The sites are partially paved, so direct contact with soil would primarily be an issue during construction activities.

The CSM figures are included as **Attachment E**.

Conclusions

During the second semi-annual 2006 event, concentrations of GRO, DRO, RRO, BTEX, and EDB (Unocal only) were greater than ADEC GCLs at each of the three sites. These analytical results are consistent with historical data. LNAPL was only detected in one well. The metals (arsenic, chromium, and possibly lead) and TCE detected in samples from site wells may be related to regional groundwater impacts (TCE) or regional hydrogeology (metals), rather than former site operations. Monthly LNAPL gauging and recovery will continue.

ARCADIS BBL is currently drafting institutional controls for groundwater and soil for each of the three sites and will submit these to ADEC for review under separate cover.

Recommended Sampling Schedule

ARCADIS BBL reviewed the current groundwater sampling schedule and dissolved constituent trends in groundwater monitoring wells. ARCADIS BBL recommends sampling several of the Unocal and Chevron wells on an annual basis rather than a semi-annual basis. These wells are located between upgradient and downgradient wells or are not impacted (K-7 and MW-4).



The table below reflects the current groundwater sampling schedule:

Site	Semi-annual	Annual
Chevron	MW-23, MW-25, TH-1, TH-2, TH-5, TH-10, and TH-13	TH-7, TH-17, and TH-18
Texaco	AR-81, AR-85, MW-1 through MW-5, and MW-7 through MW-10	
Unocal	GEI-1, GEI-2, GEI-3, GEI-5, GEI-6, GEI-7, GEI-10, GEI-11, GEI-12, K-5, MW-2, MW-5, and MW-6	GEI-4, GEI-8, GEI-9, K-7, MW-4

Notes: (1) Semi-annual sampling is performed in March/September
(2) Annual sampling is performed in September

COPC screening will be conducted at the Unocal site for one additional quarter. The COPC screening has been completed at the Chevron and Texaco sites. At these sites, the COPC data shows PAHs, EDB, and Mercury were not detected or were detected at concentrations less than applicable GCLs. ARCADIS BBL recommends eliminating the following analyses from sampling at the Chevron and Texaco sites:

- PAHs by 8270C;
- EDB using EPA Method 8011; and
- Mercury by EPA Methods 7470A.

A PDF file of this document and an electronic copy of the laboratory deliverables will be emailed to you. Should you have any questions or comments regarding this report, please feel free to contact ARCADIS BBL at 206.325.5254 extension 1017.

Sincerely,

Blasland, Bouck & Lee, Inc.

Barbara Orchard
Project Engineer in Training

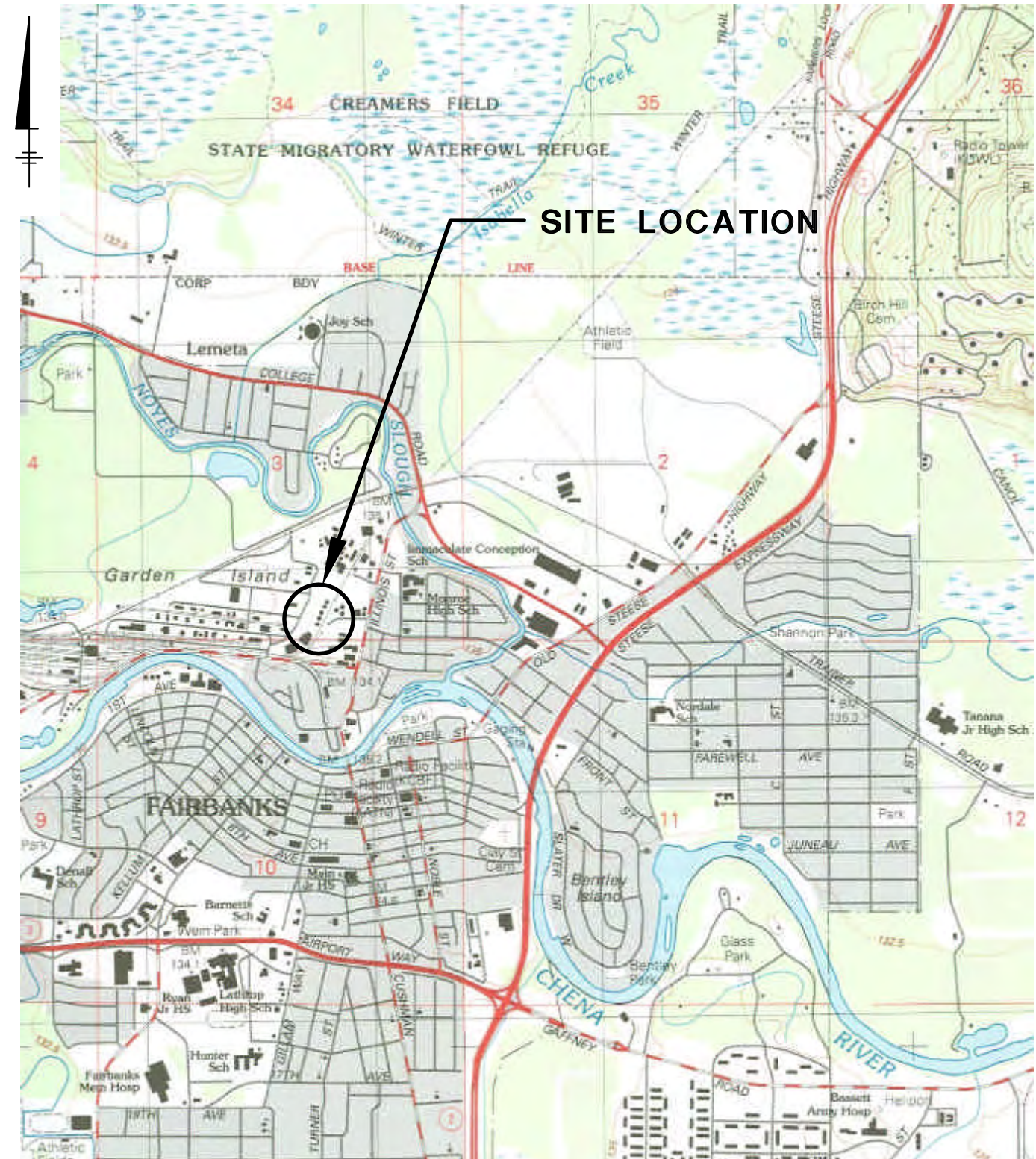
Rebecca Andresen
Senior Geologist I

Enclosures

cc: Stacie Hartung-Frerichs, Chevron Environmental Management Company, San Ramon, California
Susan Schrader, Alaska Railroad Corp., P.O. Box 107500, Anchorage, AK 99510-7500

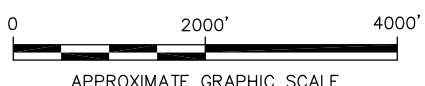
Figures

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SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE: FAIRBANKS (D-2) SE, AK., 1992, FAIRBANKS NORTH STAR BOROUGH, SECTION: 3, TOWNSHIP: 1S, RANGE: 1W

SITE LOCATION



APPROXIMATE GRAPHIC SCALE

FORMER TEXACO TERMINAL 211815 - 401 DRIVEWAY ST.
 FORMER CHEVRON TERMINAL 1001430 - 418 ILLINOIS ST.
 FORMER UNOCAL BULK TERMINAL 306456 - 328.5 ILLINOIS ST.
 FAIRBANKS, ALASKA

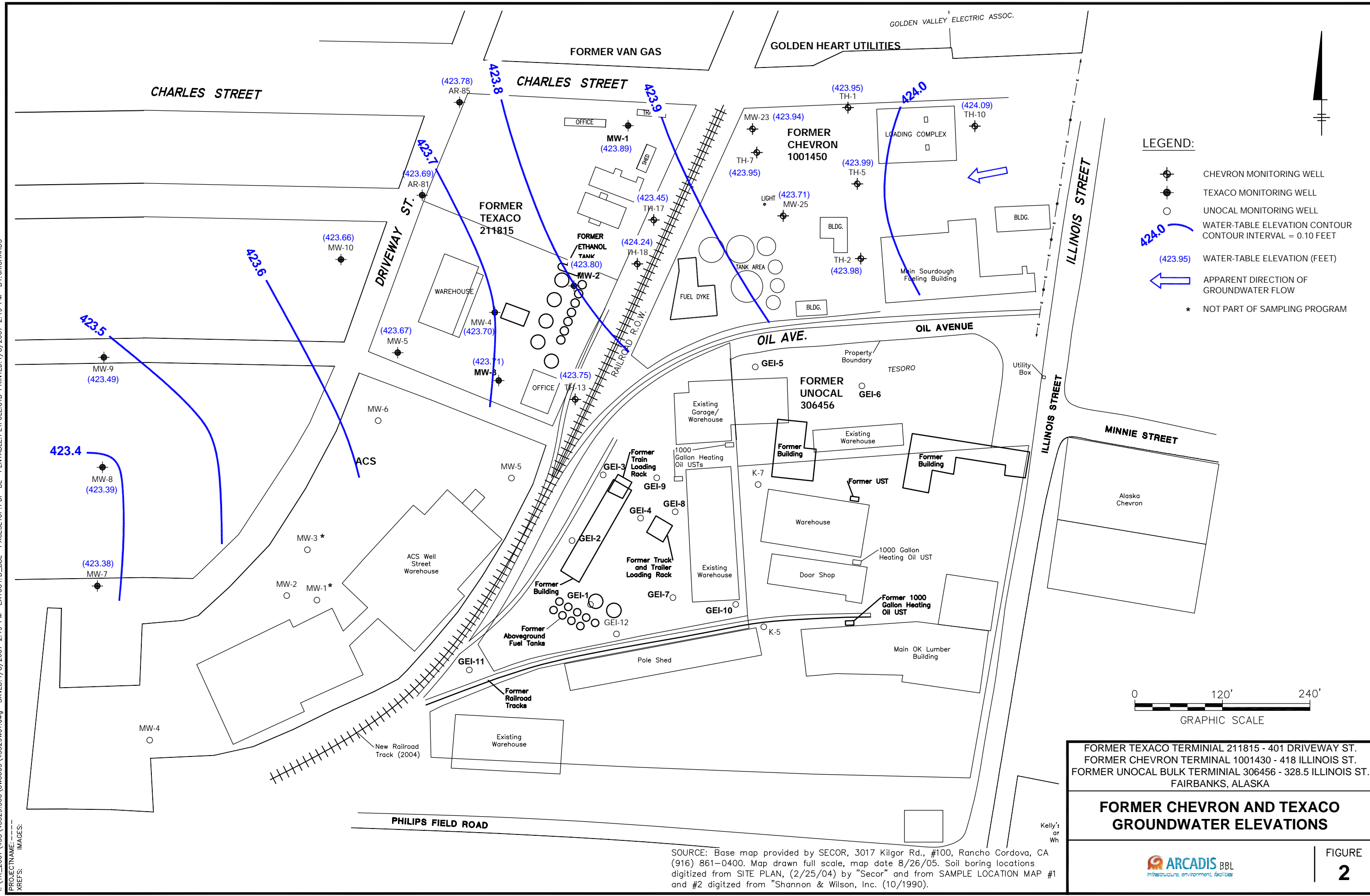
SITE LOCATION MAP



FIGURE
1

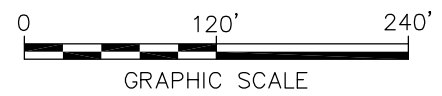
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- UNOCAL MONITORING WELL
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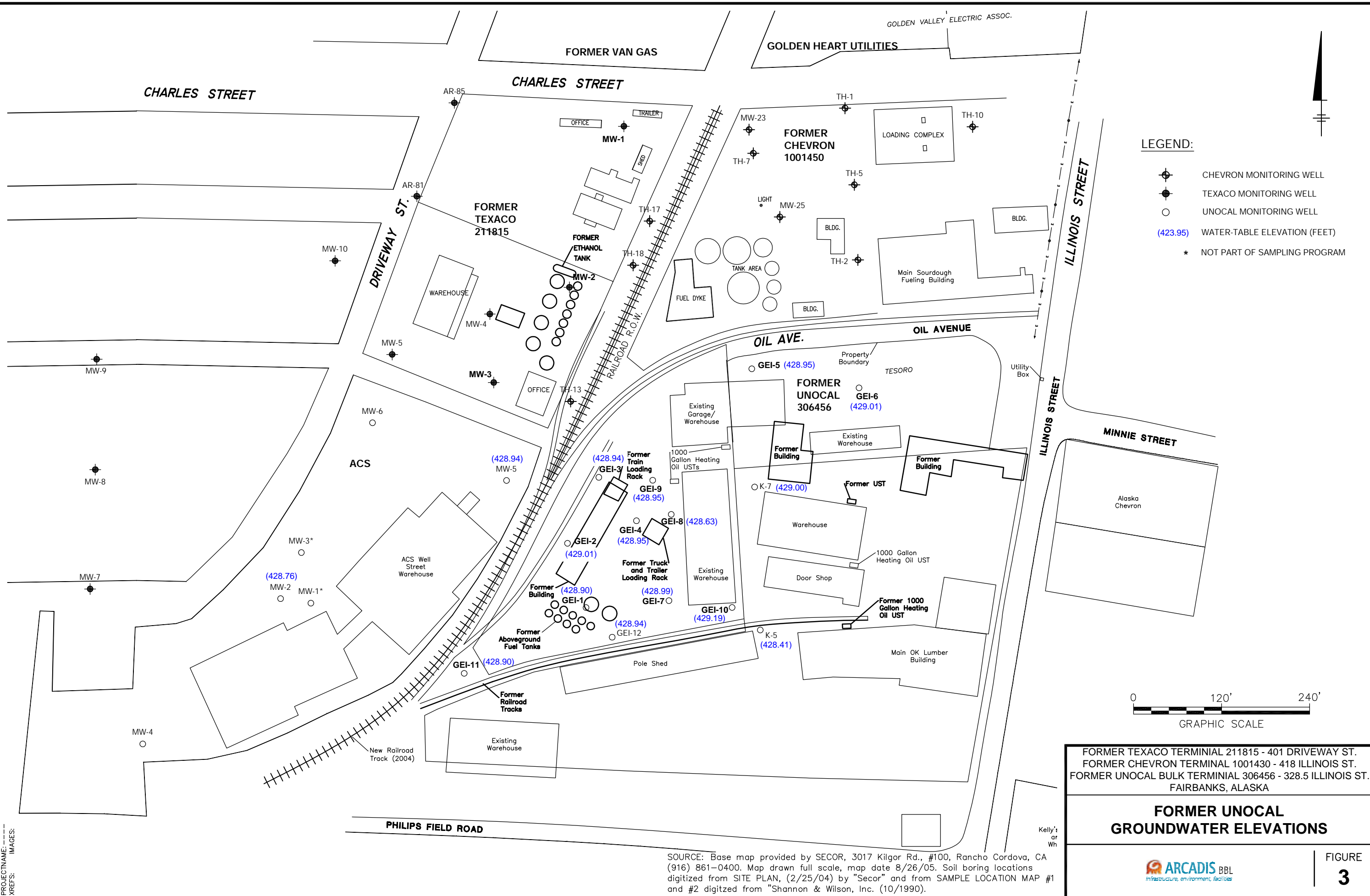
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 FORMER CHEVRON TERMINAL 1001430 - 418 ILLINOIS ST.
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 FAIRBANKS, ALASKA

**FORMER CHEVRON AND TEXACO
 GROUNDWATER ELEVATIONS**

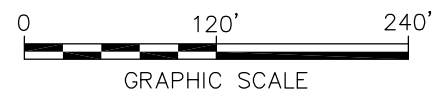
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 - TEXACO MONITORING WELL
 - UNOCAL MONITORING WELL
 - (423.95) WATER-TABLE ELEVATION (FEET)
 - * NOT PART OF SAMPLING PROGRAM



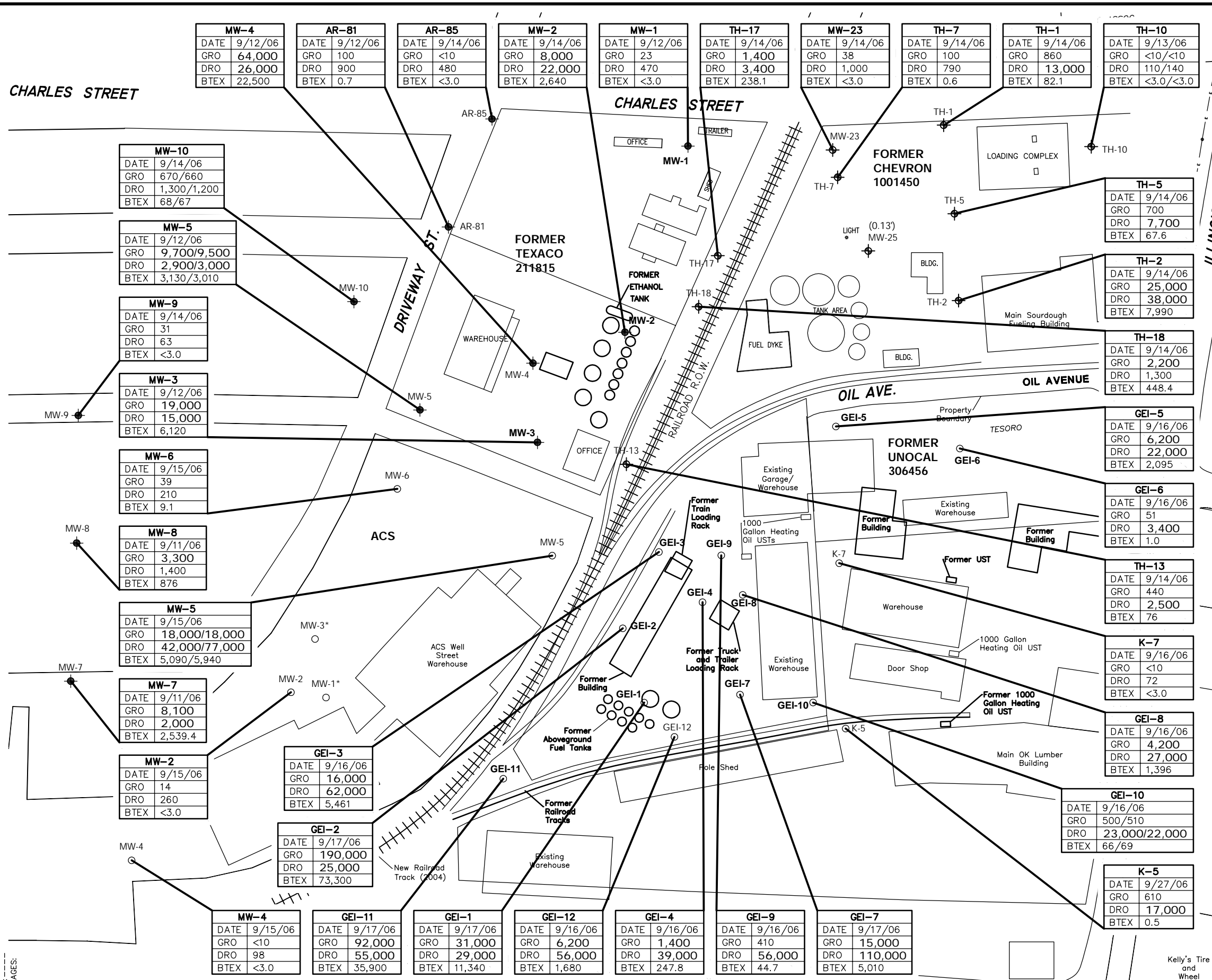
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 FORMER UNOCAL BULK TERMINAL 306456 - 328.5 ILLINOIS ST.
 FAIRBANKS, ALASKA

**FORMER UNOCAL
 GROUNDWATER ELEVATIONS**

SOURCE: Base map provided by SECOR, 3017 Kilgor Rd., #100, Rancho Cordova, CA (916) 861-0400. Map drawn full scale, map date 8/26/05. Soil boring locations digitized from SITE PLAN, (2/25/04) by "Secor" and from SAMPLE LOCATION MAP #1 and #2 digitized from "Shannon & Wilson, Inc. (10/1990).



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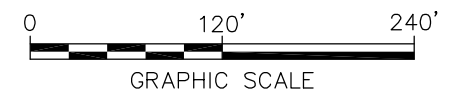


LEGEND:

- ⊕ CHEVRON MONITORING WELL
- ⊙ TEXACO MONITORING WELL
- UNOCAL MONITORING WELL

SAMPLE LOCATION	
DATE	SAMPLE DATE
GRO	GASOLINE RANGE ORGANICS
DRO	DIESEL RANGE ORGANICS
BTEX	BENZENE, TOLUENE, ETHELBENZENE & XYLENES

RESULTS REPORTED IN MICROGRAMS PER LITER (µg/L)
 (0.13') = LNAPL (LIGHT NON-AQUEOUS PHASE LIQUID)
 220/210 = DUPLICATE SAMPLE TAKEN
 BOLD VALUE INDICATES CONCENTRATION GREATER THAN ADED GROUNDWATER CLEANUP LEVELS 18 AAC 75.
 * NOT PART OF SAMPLING PROGRAM



FORMER TEXACO TERMINIAL 211815 - 401 DRIVEWAY ST.
 FORMER CHEVRON TERMINAL 1001430 - 418 ILLINOIS ST.
 FORMER UNOCAL BULK TERMINAL 306456 - 328.5 ILLINOIS ST.
 FAIRBANKS, ALASKA

**SUMMARY OF ANALYTICAL RESULTS
 SEPTEMBER 2006**

MW-4 DATE 9/12/06 GRO 64,000 DRO 26,000 BTEX 22,500	AR-81 DATE 9/12/06 GRO 100 DRO 900 BTEX 0.7	AR-85 DATE 9/14/06 GRO <10 DRO 480 BTEX <3.0	MW-2 DATE 9/14/06 GRO 8,000 DRO 22,000 BTEX 2,640	MW-1 DATE 9/12/06 GRO 23 DRO 470 BTEX <3.0	TH-17 DATE 9/14/06 GRO 1,400 DRO 3,400 BTEX 238.1	MW-23 DATE 9/14/06 GRO 38 DRO 1,000 BTEX <3.0	TH-7 DATE 9/14/06 GRO 100 DRO 790 BTEX 0.6	TH-1 DATE 9/14/06 GRO 860 DRO 13,000 BTEX 82.1	TH-10 DATE 9/13/06 GRO <10/<10 DRO 110/140 BTEX <3.0/<3.0
MW-10 DATE 9/14/06 GRO 670/660 DRO 1,300/1,200 BTEX 68/67	MW-5 DATE 9/12/06 GRO 9,700/9,500 DRO 2,900/3,000 BTEX 3,130/3,010	MW-9 DATE 9/14/06 GRO 31 DRO 63 BTEX <3.0	MW-3 DATE 9/12/06 GRO 19,000 DRO 15,000 BTEX 6,120	MW-6 DATE 9/15/06 GRO 39 DRO 210 BTEX 9.1	MW-8 DATE 9/11/06 GRO 3,300 DRO 1,400 BTEX 876	MW-5 DATE 9/15/06 GRO 18,000/18,000 DRO 42,000/77,000 BTEX 5,090/5,940	MW-7 DATE 9/11/06 GRO 8,100 DRO 2,000 BTEX 2,539.4	MW-2 DATE 9/15/06 GRO 14 DRO 260 BTEX <3.0	GEI-3 DATE 9/16/06 GRO 16,000 DRO 62,000 BTEX 5,461
MW-4 DATE 9/15/06 GRO <10 DRO 98 BTEX <3.0	GEI-11 DATE 9/17/06 GRO 92,000 DRO 55,000 BTEX 35,900	GEI-1 DATE 9/17/06 GRO 31,000 DRO 29,000 BTEX 11,340	GEI-12 DATE 9/16/06 GRO 6,200 DRO 56,000 BTEX 1,680	GEI-4 DATE 9/16/06 GRO 1,400 DRO 39,000 BTEX 247.8	GEI-9 DATE 9/16/06 GRO 410 DRO 56,000 BTEX 44.7	GEI-7 DATE 9/17/06 GRO 15,000 DRO 110,000 BTEX 5,010	K-5 DATE 9/27/06 GRO 610 DRO 17,000 BTEX 0.5	TH-5 DATE 9/14/06 GRO 700 DRO 7,700 BTEX 67.6	
TH-2 DATE 9/14/06 GRO 25,000 DRO 38,000 BTEX 7,990	TH-18 DATE 9/14/06 GRO 2,200 DRO 1,300 BTEX 448.4	GEI-5 DATE 9/16/06 GRO 6,200 DRO 22,000 BTEX 2,095	GEI-6 DATE 9/16/06 GRO 51 DRO 3,400 BTEX 1.0	TH-13 DATE 9/14/06 GRO 440 DRO 2,500 BTEX 76	K-7 DATE 9/16/06 GRO <10 DRO 72 BTEX <3.0	GEI-8 DATE 9/16/06 GRO 4,200 DRO 27,000 BTEX 1,396	GEI-10 DATE 9/16/06 GRO 500/510 DRO 23,000/22,000 BTEX 66/69		

SOURCE: Base map provided by SECOR, 3017 Kilgor Rd., #100, Rancho Cordova, CA. (916) 861-0400.
 Map drawn full scale, map date 8/26/05. Soil boring locations digitized from SITE PLAN, (2/25/04) by "Secor" and from SAMPLE LOCATION MAP #1 and #2 digitized from "Shannon & Wilson, Inc. (10/1990).



Tables

**Table 1a
Groundwater Elevation Data**

Former Chevron 100-1430
418 Illinois
Fairbanks, Alaska

Well	Date Sampled	Well Elevation (fasi)	Depth to Water (feet from TOC)	Depth to LNAPL (feet)	Groundwater Elevation ¹ (fasi)
TH-1	06/24/02	440.41	17.80	--	422.61
	09/25/02		15.46	--	424.95
	04/29/03		17.95	--	422.46
	09/03/03		14.99	--	425.42
	03/10/04		18.06	--	422.35
	09/15/04		17.67	--	422.74
	04/19/05		18.55	--	421.86
	09/08/05		16.77	--	423.64
	04/20/06		18.58	--	421.83
	09/14/06		16.46	--	423.95
TH-2	06/24/02	438.68	frozen	--	na
	09/25/02		13.77	--	424.91
	04/29/03		16.24	present	422.44
	09/03/03		13.22	--	425.46
	03/10/04		16.31	0.02	422.39
	09/15/04		15.92	0.04	422.79
	04/19/05		16.87	0.1	421.89
	09/08/05		15.03	0.03	423.67
	04/20/06		16.79	0.11	421.98
	09/14/06		14.70	--	423.98
TH-4	06/24/02	436.92	13.67	--	423.25
	09/25/02		12.20	--	424.72
	04/29/03		14.70	--	422.22
	09/03/03		11.67	--	425.25
	03/10/04		14.86	--	422.06
Well decommissioned for railroad construction on 8/19/2004					
TH-5	06/24/02	437.62	13.64	--	423.98
	09/25/02		12.79	present	424.83
	04/29/03		15.14	present	422.48
	09/03/03		12.17	present	425.45
	03/10/04		NM	0.03	NM
	09/15/04		14.84	--	422.78
	04/19/05		15.72	--	421.9
	09/08/05		13.95	0.02	423.69
	04/20/06		15.74	--	421.88
	09/14/06		13.63	--	423.99
	12/01/06		14.89	--	422.73
	12/22/06		15.12	--	422.5
TH-7	06/25/02	440.18	16.31	--	423.87
	09/25/02		15.31	--	424.87
	04/29/03		17.79	--	422.39
	09/03/03		14.81	--	425.37
	03/10/04		17.92	--	422.26
	09/15/04		17.47	--	422.71
	04/19/05		18.37	--	421.81
	09/08/05		16.55	--	423.63
	04/20/06		18.35	--	421.83
	09/14/06		16.23	--	423.95
TH-10	06/24/02	438.62	14.58	--	424.04
	09/25/02		13.62	--	425.00
	04/29/03		16.03	--	422.59
	09/03/03		13.13	--	425.49
	03/10/04		16.18	--	422.44
	09/15/04		15.80	--	422.82
	04/19/05		16.65	--	421.97
	09/08/05		14.88	--	423.74
	04/20/06		16.66	--	421.96
	09/13/06		14.53	--	424.09

**Table 1a
Groundwater Elevation Data**

Former Chevron 100-1430
418 Illinois
Fairbanks, Alaska

Well	Date Sampled	Well Elevation (fasl)	Depth to Water (feet from TOC)	Depth to LNAPL (feet)	Groundwater Elevation ¹ (fasl)		
TH-13	06/24/02	436.74	13.09	--	423.65		
	09/25/02		12.02	--	424.72		
	04/29/03		14.50	--	422.24		
	09/03/03		11.45	--	425.29		
	03/10/04		14.66	--	422.08		
	09/23/04		N/A	--	N/A		
	04/19/05		15.10	--	421.64		
	09/08/05		13.37	--	423.37		
	04/20/06		Well not sampled - buried under ice, monument filled				
	09/14/06		12.99			423.75	
TH-17	06/24/02	435.38	11.60	--	423.78		
	09/25/02		10.59	--	424.79		
	04/29/03		11.20	--	424.18		
	09/03/03		10.08	--	425.3		
	03/10/04		13.20	--	422.18		
	09/15/04		12.77	--	422.61		
	04/19/05		--	--	--		
	09/08/05		11.87	--	423.51		
	04/20/06		--	--	--		
	09/14/06		11.93			423.45	
TH-18	06/24/02	435.77	frozen	--	na		
	09/25/02		11.01	--	424.76		
	04/29/03		frozen	--	na		
	09/03/03		10.48	--	425.29		
	03/10/04		13.61	--	422.16		
	09/23/04		N/A	--	N/A		
	04/19/05		--	--	--		
	09/08/05		12.28	--	423.49		
	04/20/06		--	--	--		
	09/14/06		11.53			424.24	
MW-23	06/25/02	436.67	14.32	--	422.35		
	09/25/02		11.80	--	424.87		
	04/29/03		14.21	--	422.46		
	09/03/03		11.30	--	425.37		
	03/10/04		14.38	--	422.29		
	09/15/04		13.97	--	422.70		
	04/19/05		14.86	--	421.81		
	09/08/05		13.06	--	423.61		
	04/20/06		14.88	--	421.79		
	09/13/06		12.73			423.94	
MW-25	06/25/02	440.77	16.89	present	423.88		
	09/25/02		15.94	present	424.83		
	04/29/03		18.40	present	422.37		
	09/03/03		15.40	present	425.37		
	03/10/04		18.46	0.05	422.35		
	09/15/04		18.03	0.15	422.86		
	04/19/05		19.05	0.16	421.85		
	09/08/05		17.23	0.13	423.64		
	04/20/06		18.93	0.15	421.96		
	09/13/06		17.16	0.13	423.71		
	12/01/06		18.16	--	422.61		
	12/22/06		18.34	--	422.43		

Notes:
 TOC = Top of casing
 fasl = feet above sea level
 N/A = Not applicable
 LNAPL = Light non-aqueous phase liquid
 Bold Type = Results of most recent sampling event
¹Where LNAPL was present, groundwater elevation were adjusted using an average specific gravity of 0.80.

**Table 2a
Groundwater Analytical Data**

Former Chevron 100-1430
418 Illinois
Fairbanks, Alaska

Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes
ADEC GCL:		1,300	1,500	1,100	5.0	1,000	700	10,000
TH-1	06/24/02	3,160	103,000		1.61	<2.50	56.1	317
	09/25/02	1,510	7,400		2.73	3.52	48.4	325
	04/29/03	1,500	33,000	2,900	<2.0	<0.5	27	120
	09/03/03	1,500	47,000	7,700	<2.0	<0.5	27	160
	03/10/04	2,300	31,000	3,800	<2.0	<0.5	30	160
	09/15/04	1,700	62,000	7,600	1.7	<0.5	21	120
	04/19/05	1,200	64,000	<3,900	<2.0	<0.5	15	68
	09/08/05	1,100	25,000	1,100	1.3	<0.5	16	95
	04/20/06	740	12,000	710	0.7	<0.5	11	45
	09/14/06	860	13,000	<490	1.1	<0.5	12	69
TH-2	06/24/02							
	09/25/02	38,900	15,300		1,540	5,220	1,030	6,600
	04/29/03	LNAPL present - well not sampled						
	09/03/03	37,000	190,000	150,000	730	3800	860	6,600
	03/10/04	LNAPL present - 0.02' - well not sampled						
	09/15/04	LNAPL present - 0.04' - well not sampled						
	04/19/05	LNAPL present - 0.1' - well not sampled						
	09/08/05	LNAPL present - 0.03' - well not sampled						
	04/20/06	LNAPL present - 0.11' - well not sampled						
	09/14/06	25,000	38,000	44,000	560	630	1,000	5,800
TH-4	06/24/02	178	3,490		5.49	1.21	1.45	19.1
	09/25/02	8,020	9,350		903	542	90.7	965
	04/29/03	11,000	41,000	3,500	970	1,200	73	1,200
	09/03/03	7,100	120,000	8,100	420	680	35	880
	03/10/04	14,000	150,000	10,000	1,600	940	82	1,300
		Well decommissioned for railroad construction on 8/19/2004						
TH-5	06/24/02	1,100	34,500		6.05	1.45	18.3	98.1
	09/25/02				LNAPL present - well not sampled			
	04/29/03				LNAPL present - well not sampled			
	09/03/03				LNAPL present - well not sampled			
	03/10/04				LNAPL present - 0.03' - well not sampled			
	09/15/04	1,300	77,000	24,000	6.6	1.5	24	140
	04/19/05	1,100	180,000	<10,000	3.2	1.1	19	100
	09/08/05				LNAPL present - 0.02' - well not sampled			
	04/20/06	1,300	250,000	100,000	2.5	0.9	17	130
	09/14/06	700	7,700	<500	2.0	0.6	9.0	56
TH-7	06/25/02	163	5,160	--	1.35	<0.500	1.00	4.67
	09/25/02	153	4,630	--	0.881	<0.500	<0.500	1.48
	04/29/03	260	12,000	2,800	1.0	<0.5	0.9	2.3
	09/03/03	140	8,000	3,300	1.6	<0.5	3.6	3.5
	03/10/04	250	8,900	2,300	<2.0	<0.5	0.7	<1.5
	09/15/04	210	14,000	2,800	0.6	<0.5	<0.5	<1.5
	04/19/05	210	15,000	560	0.7	<0.5	<0.5	<1.5
	09/08/05	120	1,800	1,300	<0.5	<0.5	<0.5	1.6
	04/20/06	91	3,700	2,300	<0.5	<0.5	<0.5	<1.5
	09/14/06	100	790	430	0.6	<0.5	<0.5	<1.5
TH-10	06/24/02	<50.0	236	--	<0.200	<0.500	<0.500	<1.00
	09/25/02	<80.0	144	--	<0.500	<0.500	<0.500	<1.00
	04/29/03	<10	320	1,800	<0.5	<0.5	<0.5	<1.5
	04/29/03 ^D	<10	320	1,800	<0.5	<0.5	<0.5	<1.5
	09/03/03	<10	230	1,600	<0.5	<0.5	<0.5	<1.5
	09/3/03 ^D	<10	300	2,000	<0.5	<0.5	<0.5	<1.5
	03/10/04	<10	300	1,600	<0.5	<0.5	<0.5	<1.5
	03/10/04 ^D	<10	290	1,700	<0.5	<0.5	<0.5	<1.5
	09/15/04	10	210	990	<0.5	<0.5	<0.5	<1.5
	09/15/04 ^D	<10	220	1,100	<0.5	<0.5	<0.5	<1.5
	04/19/05	<10	530	2,600	<0.5	<0.5	<0.5	<1.5
	04/19/05 ^D	<10	490	2,500	<0.5	<0.5	<0.5	<1.5
	09/08/05	<10	230	1,500	<0.5	<0.5	<0.5	<1.5

**Table 2a
Groundwater Analytical Data**

Former Chevron 100-1430
418 Illinois
Fairbanks, Alaska

Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	
ADEC GCL:		1,300	1,500	1,100	5.0	1,000	700	10,000	
TH-10 (cont.)	9/8/2005 ^D	<10	220	1,400	<0.5	<0.5	<0.5	<1.5	
	04/20/06	<10	1,100	5,500	<0.5	<0.5	<0.5	<1.5	
	4/20/2006 ^D	<10	620	2,900	<0.5	<0.5	<0.5	<1.5	
	09/13/06	<10	110	600	<0.5	<0.5	<0.5	<1.5	
	09/13/06 ^D	<10	140	790	<0.5	<0.5	<0.5	<1.5	
TH-13	06/24/02	264	9,400	--	2.92	0.955	2.82	22.2	
	09/25/02	87.0	2,180	--	2.28	<0.500	0.953	5.23	
	04/29/03	1,100	16,000	2,100	84	1.3	5.8	30	
	09/03/03	360	8,800	1,400	8.3	<0.5	2	14	
	03/10/04	1,600	30,000	2,200	120	10	16	75	
	09/23/04	3,200	21,000	<400	200	36	43	190	
	04/19/05	1,700	110,000	<3,900	14	34	25	210	
	09/08/05	1,700	5,100	2,400	83	100	42	170	
	04/20/06	Well not sampled - buried under ice, monument filled							
	09/14/06	440	2,500	110	59	0.6	4.4	12	
	TH-17	06/24/02	1,820	10,500	--	175	<2.50	104	234
09/25/02		2,860	8,900	--	198	6.32	105	269	
04/29/03		5,000	23,000	6,900	57	9.5	270	860	
09/03/03		1,800	36,000	25,000	170	2.5	120	220	
03/10/04		1,200	44,000	10,000	17	3.5	79	150	
09/15/04		780	81,000	24,000	5.2	3.4	44	97	
04/19/05		Well not sampled - buried under ice, monument filled							
09/08/05		990	8,900	4,100	13	2.0	49	140	
04/20/06		Well not sampled - buried under ice, monument filled							
09/14/06		1,400	3,400	1,500	16	2.1	70	150	
TH-18	06/24/02				277	<5.00	70.5	139	
	09/25/02	1,930	4,730						
	04/29/03	Well Frozen - well not sampled							
	09/03/03	2,600	3,300	860	290	5.4	120	210	
	03/10/04	2,600	2,700	1,400	87	3.8	140	240	
	09/23/04	1,100	1,300	470	17	0.7	64	72	
	04/19/05	Well not sampled - buried under ice, monument filled							
	09/08/05	1,300	1,400	510	56	2	71	140	
04/20/06	Well not sampled - buried under ice, monument filled								
09/14/06	2,200	1,300	<98	86	2.4	130	230		
MW-23	06/25/02	<50.0	1,370		0.230	<0.500	<0.500	<1.00	
	09/25/02	<80.0	2,800		<0.500	<0.500	0.522	1.05	
	04/29/03	48	2,800	800	0.6	<0.5	<0.5	<1.5	
	09/03/03	77	1,100	660	<0.5	<0.5	3.2	2.3	
	03/10/04	26	22,000	5,800	<0.5	<0.5	<0.5	<1.5	
	09/15/04	31	9,300	2,600	<0.5	<0.5	<0.5	<1.5	
	04/19/05	34	9,900	580	<0.5	<0.5	<0.5	<1.5	
	09/08/05	31	1,000	580	<0.5	<0.5	<0.5	<1.5	
	04/20/06	Well not sampled - monument flooded							
	09/13/06	38	1,000	440	<0.5	<0.5	<0.5	<1.5	
MW-25	06/25/02	LNAPL present - well not sampled							
	09/25/02	LNAPL present - well not sampled							
	04/29/03	LNAPL present - well not sampled							
	09/03/03	LNAPL present - well not sampled							
	03/10/04	LNAPL present - 0.05' - well not sampled							
	09/15/04	LNAPL present - 0.15' - well not sampled							
	04/19/05	LNAPL present - 0.16' - well not sampled							
	09/08/05	LNAPL present - 0.13' - well not sampled							
	04/20/06	LNAPL present - 0.15' - well not sampled							
09/13/06	LNAPL present - 0.13' - well not sampled								

**Table 2a
Groundwater Analytical Data**

Former Chevron 100-1430
418 Illinois
Fairbanks, Alaska

Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes
ADEC GCL:		1,300	1,500	1,100	5.0	1,000	700	10,000
Trip Blank	04/29/03	<10	--	--	<0.5	<0.5	<0.5	<1.5
	09/03/03	<10	--	--	<0.5	<0.5	<0.5	<1.5
	03/10/04	<10	--	--	<0.5	<0.5	<0.5	<1.5
	09/15/04	<10	--	--	<0.5	<0.5	<0.5	<1.5
	04/19/05	<10	--	--	<0.5	<0.5	<0.5	<1.5
	09/08/05	<10	--	--	<0.5	<0.5	<0.5	<1.5
	04/19/06	<10	--	--	<0.5	<0.5	<0.5	<1.5
	09/13/06	<10	--	--	<0.5	<0.5	<0.5	<1.5
<p><u>Notes:</u> All results are reported in micrograms per liter (µg/l) GRO = Gasoline range organics DRO = Diesel range organics RRO = Residual range organics GCL = ADEC 18 AA 75 Groundwater Cleanup Level LNAPL = Light non-aqueous phase liquid Bold Type = Results of most recent sampling event Highlighted concentrations are greater than the applicable ADEC GCL. ^D = Duplicate sample</p>								

**Table 1b
Groundwater Elevation Data**

Former Texaco 21-1815
401 Driveway Street
Fairbanks, Alaska

Well ID	Date Sampled	Well Elevation (fasl)	Depth to Groundwater (feet from TOC)	Depth to LNAPL (feet)	Groundwater Elevation ¹ (fasl)	
AR-81	06/25/02	436.99	13.28	--	423.71	
	09/24/02		12.34	--	424.65	
	04/29/03		14.82	--	422.17	
	09/03/03		11.83	--	425.16	
	03/10/04		Well Frozen			
	09/16/04			14.53	--	422.46
	04/19/05			15.43	--	421.56
	09/07/05			13.60	--	423.39
	04/20/06			15.46	--	421.53
	09/12/06			13.30	--	423.69
AR-82	06/25/02	437.47	13.64	--	423.83	
	09/24/02		12.69	--	424.78	
	04/29/03		15.13	--	422.34	
	09/03/03		12.17	--	425.30	
	Well Removed from Sampling Program in September 2003					
AR-85	06/25/02	437.23	13.45	--	423.78	
	09/24/02		12.49	--	424.74	
	04/29/03		15.00	--	422.23	
	09/03/03		12.00	--	425.23	
	03/10/04		Well Beneath Snow bank			
	09/16/04		14.68	--	422.55	
	04/19/05		Well buried and surrounded by equipment			
	09/07/05		13.79	--	423.44	
	04/20/06		15.61	--	421.62	
	09/12/06		13.45	--	423.78	
MW-1	10/23/03	436.36	12.28	--	424.08	
	03/10/04		14.14	--	422.22	
	09/16/04		13.72	--	422.64	
	04/19/05		Well Beneath Snow bank			
	09/07/05		12.77	--	423.59	
	04/20/06		Well buried and surrounded by equipment			
	09/12/06		12.47	--	423.89	
MW-2	10/23/03	437.06	13.35	--	423.71	
	03/10/04		14.89	0.04	422.20	
	09/16/04		14.51	0.03	422.57	
	04/19/05		15.47	0.10	421.67	
	09/07/05		13.58	0.01	423.49	
	04/20/06		well not sampled - covered with snow and gravel			
	08/11/06		13.85	0.01	423.22	
	09/12/06		13.26	--	423.80	
	12/01/06		14.56	--	422.50	
	12/22/06		14.80	--	422.26	
MW-3	10/23/03	437.49	13.60	--	423.89	
	03/10/04		15.39	--	422.10	
	09/16/04		14.99	--	422.50	
	04/19/05		15.88	--	421.61	
	09/07/05		14.10	--	423.39	
	04/20/06		15.87	--	421.62	
	09/12/06		13.78	--	423.71	
MW-4	10/22/03	437.33	13.70	Present	423.63	
	03/10/04		15.25	0.23	422.26	
	09/16/04		14.85	0.03	422.50	
	well not sampled - covered with ice, monument filled with ice and water					
	04/19/05					
	09/07/05		13.92	--	423.41	
	04/20/06		15.74	0.32	421.85	
	08/11/06		14.19	--	423.14	
	09/12/06		13.63	--	423.70	
	12/01/06		14.93	--	422.40	
12/22/06	15.11	--	422.22			

**Table 1b
Groundwater Elevation Data**

Former Texaco 21-1815
401 Driveway Street
Fairbanks, Alaska

Well ID	Date Sampled	Well Elevation (fasl)	Depth to Groundwater (feet from TOC)	Depth to LNAPL (feet)	Groundwater Elevation ¹ (fasl)	
MW-5	10/23/03	436.37	12.58	--	423.79	
	03/10/04		14.34	--	422.03	
	09/16/04		13.92	--	422.45	
	04/19/05		well not sampled - covered with ice and ponded water			
	09/07/05		13.01	--	423.36	
	04/20/06		well not sampled - covered with ice and ponded water			
	09/12/06		12.70	--	423.67	
MW-7	10/03/05	438.12	13.96	--	424.16	
	04/20/06		16.84	--	421.28	
	09/11/06		14.74	--	423.38	
MW-8	10/03/05	436.51	12.32	--	424.19	
	04/20/06		15.23	--	421.28	
	09/11/06		13.12	--	423.39	
MW-9	10/03/05	436.39	12.18	--	424.21	
	04/20/06		15.06	--	421.33	
	09/11/06		12.90	--	423.49	
MW-10	10/03/05	437.32	12.98	--	424.34	
	04/20/06		15.82	--	421.50	
	09/11/06		13.66	--	423.66	
Notes:						
TOC = Top of casing						
fasl = feet above sea level						
N/A = Not applicable						
LNAPL = Light non-aqueous phase liquid						
¹ Where LNAPL was present, groundwater elevation were adjusted using an average specific gravity of 0.80.						
Bold Type = Results of most recent sampling event						

**Table 2b
Groundwater Analytical Data**

Former Texaco 21-1815
401 Driveway Street
Fairbanks, Alaska

Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Xylenes
ADEC GCL:		1,300	1,500	1,100	5.0	1,000	700	10,000
AR-81	06/25/02	<50.0	1,130		0.920	<0.500	0.520	<1.00
	09/24/02	212	4,550		7.56	2.11	5.14	8.95
	04/29/03	150	2,300	1,000	2.5	<0.5	1	1.8
	09/03/03	140	2,000	2,400	3.1	<0.5	1.6	2.8
	03/10/04				Well Frozen			
	09/16/04	69	2,200	3,200	1	<0.5	<0.5	<1.5
	04/19/05	110	2,000	3,700	0.8	<0.5	0.6	1.6
	09/07/05	68	1,400	1,200	0.5	<0.5	<0.5	<1.5
	04/20/06	95	3,100	160	0.6	<0.5	<0.5	<1.5
	09/12/06	100	900	310	0.7	<0.5	<0.5	<1.5
	AR-82	06/25/02	219	72,800		0.200	<0.500	0.525
09/24/02		90.3	1,620		0.269	<0.500	<0.500	1.25
04/29/03		3,500	390,000	<20,000	<2.5	<2.5	2.5	<25
09/03/03		83	24,000	1,800	<0.5	1.1	2.9	8.6
Well Removed from Sampling Program in September 2003								
AR-85	06/25/02	<50.0	964		<0.200	<0.500	<0.500	<1.00
	09/24/02	<50.0	958		0.268	<0.500	<0.500	<1.00
	04/29/03	<10	620	530	1	<0.5	<0.5	<1.5
	09/03/03	<10	640	510	0.5	<0.5	<0.5	<1.5
	09/03/03 ^D	<10	640	570	<0.5	<0.5	<0.5	<1.5
	03/10/04				Well Beneath Snow bank			
	09/16/04	12	880	1,300	2.2	<0.5	<0.5	<1.5
	09/16/04 ^D	13	900	1,300	2.2	<0.5	<0.5	<1.5
	04/19/05				Well buried and surrounded by equipment			
	09/07/05	<10	450	350	<0.5	<0.5	<0.5	<1.5
	9/7/2005 ^D	<10	630	910	<0.5	<0.5	<0.5	<1.5
04/20/06	<10	850	1,200	<0.5	<0.5	<0.5	<1.5	
09/12/06	<10	480	200	<0.5	<0.5	<0.5	<1.5	
MW-1	10/23/03	97	8,200		<0.5	<0.5	<0.5	<1.5
	03/10/04	33	4,100	1,400	<0.5	<0.5	<0.5	<1.5
	03/10/04 ^D	35	6,000	1,500	<0.5	<0.5	<0.5	<1.5
	09/16/04	29	5,100	1,600	<0.5	<0.5	<0.5	<1.5
	04/19/05				well not sampled - buried snow/ice (no access)			
	09/07/05	32	870	410	<0.5	<0.5	<0.5	<1.5
	04/20/06				well not sampled - covered with ice and ponded water			
09/12/06	23	470	210	<0.5	<0.5	<0.5	<1.5	
MW-2	10/23/03	48,000	40,000	--	2,000	6,000	960	6,000
	03/10/04				LNAPL - 0.04' - well not sampled			
	09/16/04				LNAPL - 0.03' - well not sampled			
	04/19/05				LNAPL - 0.1' - well not sampled			
	09/07/05				LNAPL - 0.01' - well not sampled			
	04/20/06				well not sampled - covered with snow and gravel			
09/12/06	8,000	22,000	<500	710	350	280	1,300	
MW-3	10/23/03	36,000	11,000		1,600	2,500	570	6,300
	03/10/04	56,000	44,000	3,000	2,100	4,800	1,100	9,800
	09/16/04	38,000	59,000	<2,000	1,900	3,100	810	6,600
	04/19/05	13,000	40,000	<2,000	630	600	340	2,100
	09/07/05	17,000	24,000	2,900	1,400	1,200	330	2,400
	04/20/06	19,000	15,000	<500	1,100	960	500	3,100
	09/12/06	19,000	15,000	<490	1,400	1,000	520	3,200
MW-4	10/22/03				LNAPL - well not sampled			
	03/10/04				LNAPL - 0.23' - well not sampled			
	09/16/04				LNAPL - 0.03' - well not sampled			
	04/19/05				well not sampled - covered with ice, monument filled with ice and water			
	09/07/05	68,000	98,000	<2,000	3,200	7,700	1,300	10,000
	04/20/06				LNAPL - 0.32' - well not sampled			
09/12/06	64,000	26,000	<980	3,300	8,200	1,400	9,600	

**Table 2b
Groundwater Analytical Data**

Former Texaco 21-1815
401 Driveway Street
Fairbanks, Alaska

Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Xylenes	
ADEC GCL:		1,300	1,500	1,100	5.0	1,000	700	10,000	
MW-5	10/23/03	10,000	36,000		1,000	420	100	1,000	
	03/10/04	22,000	9,800	2,000	1,200	1,800	320	3,000	
	09/16/04	22,000	7,100	<200	970	2,000	370	3,500	
	04/19/05	well not sampled - covered with ice and ponded water							
	09/07/05	10,000	5,200	220	870	590	200	1,600	
	04/20/06	well not sampled - covered with ice and ponded water							
	09/12/06	9,700	2,900	<100	980	230	220	1,700	
	09/12/06 ^D	9,500	3,000	<200	980	220	210	1,600	
MW-7	10/03/05	7,100	2,200	<97	1,700	<5.0	240	300	
	04/20/06	4,600	2,300	200	450	6.9	170	480	
	09/11/06	8,100	2,000	<98	1,800	9.4	280	450	
MW-8	10/03/05	2,900	1,500	720	390	39	96	290	
	04/20/06	4,500	1,800	120	430	7.9	190	530	
	09/11/06	3,300	1,400	300	410	16	120	330	
MW-9	10/03/05	26	240	390	1	<0.5	<0.5	<1.5	
	04/20/06	91	500	310	2.5	<0.5	<0.5	<1.5	
	09/11/06	31	63	40	<0.5	<0.5	<0.5	<1.5	
MW-10	10/03/05	760	1,200	520	64	2	5	21	
	04/20/06	450	1,400	390	25	<0.5	<0.5	1.7	
	04/20/06 ^D	470	1,500	330	25	<0.5	<0.5	1.8	
	09/11/06	670	1,300	250	64	0.8	0.5	2.7	
	09/11/06 ^D	660	1,200	240	63	0.8	0.5	2.7	
Trip Blank	10/23/03	<10	--	--	<0.5	<0.5	<0.5	<1.5	
	03/10/04	<10	--	--	<0.5	<0.5	<0.5	<1.5	
	09/16/04	<10	--	--	<0.5	<0.5	<0.5	<1.5	
	04/19/05	Travel Blank submitted under COC for 1001430							
	10/03/05	<10	--	--	<0.5	<0.5	<0.5	<1.5	
	04/20/06	<10	--	--	<0.5	<0.5	<0.5	<1.5	
	09/11/06	<10	--	--	<0.5	<0.5	<0.5	<1.5	

Notes:
All results are reported in micrograms per liter (µg/l)
GRO = gasoline range hydrocarbons
DRO = diesel range hydrocarbons
RRO = residual range hydrocarbons
LNAPL = Light non-aqueous phase liquid
GCL = ADEC 18 AA 75 Groundwater Cleanup Level
Highlighted concentrations are greater than the applicable ADEC GCL.
^D = Duplicate sample
Bold Type = Results of most recent sampling event

Table 1c
Groundwater Elevation Data

Former Unocal 306456
328.5 Illinois Street
Fairbanks, Alaska

Well	Date Sampled	Well Elevation ¹ (fasl)	Depth to Water (feet from TOC)	Depth to LNAPL (feet)	Groundwater Elevation ² (fasl)
GEI-1	10/07/02	443.88	15.20	--	428.68
	09/03/03		13.83	0.01	430.06
	04/23/04		17.41	--	426.47
	09/16/04		17.22	0.01	426.67
	04/20/05		18.13	--	425.75
	10/01/05		14.08	--	429.80
	04/18/06		--	--	-- ³
	09/17/06		14.98	--	428.90
GEI-2	10/07/02	444.93	15.25	--	429.68
	09/03/03		13.94	--	430.99
	04/23/04		17.44	--	427.49
	09/16/04		17.22	--	427.71
	04/20/05		18.05	--	426.88
	10/01/05		15.1	--	429.83
	04/18/06		--	--	-- ³
	09/17/06		15.92	--	429.01
GEI-3	10/07/02	444.29	14.7	--	429.59
	09/03/03		13.42	--	430.87
	04/23/04		16.78	--	427.51
	09/16/04		16.65	--	427.64
	04/20/05		--	--	-- ³
	10/01/05		14.55	--	429.74
	04/18/06		17.45	--	426.84
	09/16/06		15.35	--	428.94
GEI-4	10/07/02	444.56	15.68	0.67	429.42
	09/03/03		13.64	0.01	430.93
	04/23/04		17.2	--	427.36
	09/16/04		17.01	0.01	427.56
	04/20/05		17.8	--	426.76
	10/01/05		14.77	--	429.79
	04/18/06		17.72	--	426.84
	09/16/06		15.61	--	428.95
	11/30/06		16.88	0.02	427.70
	12/22/06		17.13	--	427.43
GEI-5	10/07/02	441.93	12.35	--	429.58
	09/03/03		11.11	--	430.82
	04/23/04		--	--	-- ³
	09/16/04		14.26	--	427.67
	04/20/05		15.24	--	426.69
	10/01/05		12.23	--	429.7
	04/18/06		--	--	-- ³
	09/16/06		12.98	--	428.95
GEI-6	10/07/02	441.83	12.2	--	429.63
	09/03/03		10.94	--	430.89
	04/23/04		--	--	-- ³
	09/16/04		14.15	--	427.68
	04/20/05		--	--	-- ³
	10/01/05		12.09	--	429.74
	04/18/06		--	--	-- ³
	09/16/06		12.82	--	429.01
GEI-7	09/03/03	444.26	13.24	0.01	431.03
	04/23/04		17.07	0.41	427.52
	09/16/04		16.55	0.09	427.78
	04/20/05		18.11	0.93	426.89
	10/01/05		14.44	0.01	429.83
	04/18/06		--	--	-- ³
	09/17/06		15.27	--	428.99

**Table 1c
Groundwater Elevation Data**

Former Unocal 306456
328.5 Illinois Street
Fairbanks, Alaska

Well	Date Sampled	Well Elevation ¹ (fasl)	Depth to Water (feet from TOC)	Depth to LNAPL (feet)	Groundwater Elevation ² (fasl)
GEI-8	09/03/03	444.55	13.64	--	430.91
	04/23/04		17.15	--	427.4
	09/16/04		16.95	--	427.6
	04/20/05		17.77	0.14	426.89
	10/01/05		14.73	--	429.82
	04/18/06		17.71	--	426.84
	09/16/06		15.92	--	428.63
	11/30/06		16.85	0.01	427.71
12/22/06	17.07	--	427.48		
GEI-9	09/03/03	444.32	13.43	0.01	430.90
	04/23/04		16.87	--	427.45
	09/16/04		16.67	--	427.65
	04/20/05		17.47	0.01	426.86
	10/01/05		14.53	--	429.79
	04/18/06		17.39	--	426.93
09/16/06	15.37	--	428.95		
GEI-10	10/01/05	443.48	13.74	--	429.74
	04/1806		16.73	--	426.75
	09/16/06		14.29	--	429.19
GEI-11	10/01/05	443.81	14.10	--	429.71
	04/18/06		17.58	--	426.23
	09/17/06		14.91	--	428.90
	11/30/06		16.30	0.14	427.62
12/24/06	16.44	--	427.37		
GEI-12	10/01/05	443.55	13.72	--	429.83
	04/1806		16.71	--	426.84
	09/16/06		14.61	--	428.94
MW-2	10/01/05	444.07	14.43	--	429.64
	04/1806		17.47	--	426.60
	09/15/06		15.31	--	428.76
MW-4	10/01/05	NS	--	--	--
	04/1806		20.63	--	--
	09/15/06		18.48	--	--
MW-5	10/01/05	444.05	14.3	--	429.75
	04/1806		17.33	--	426.72
	09/15/06		15.11	--	428.94
MW-6	10/01/05	NS	--	--	-- ³
	04/1806		20.26	--	-- ³
	09/15/06		18.11	--	--
K-5	10/01/05	443.55	13.82	--	429.73
	04/1806		--	--	-- ³
	09/17/06		15.14	--	428.41
K-7	10/01/05	442.49	12.72	--	429.77
	04/1806		16.92	--	425.57
	09/16/06		13.49	--	429.00

Notes:

TOC = Top of casing

fasl = feet above sea level

N/A = Not applicable

NS = Not surveyed

LNAPL = Light non-aqueous phase liquid

Bold Type = Results of most recent sampling event

¹Elevations are relative to an on-site Temporary Benchmark, based on vertical control point Fire Hydrant 08-05.

²Where LNAPL was present, groundwater elevation were adjusted using an average specific gravity of 0.80.

³Wells not monitored due to obstruction preventing access.

**Table 2c
Groundwater Analytical Data**

Former Unocal 306456
328.5 Illinois Ave.
Fairbanks, Alaska

Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes
ADEC GCL:		1,300	1,500	1,100	5.0	1,000	700	10,000
GEI-1	10/07/02	31,700	218,000	--	5,630	6,770	704	3,860
	09/03/03	LNAPL present - 0.01' - well not sampled						
	04/23/04	26,600	11,200	--	2,910	5,300	582	2,990
	09/16/04	LNAPL present - 0.01' - well not sampled						
	04/20/05	35,300	307,000	--	4,300	6,300	649	3,620
	10/01/05	39,700	18,800	617	3,050	5,350	662	3,820
	04/18/06	Well not sampled - not accessible						
	09/17/06	31,000	29,000	<970	3,200	4,500	540	3,100
GEI-2	10/07/02	170,000	86,500	--	15,100	56,200	3,810	22,000
	09/03/03	265,000	28,700	--	7,250	42,400	3,430	21,300
	04/23/04	150,000	17,900	--	7,500	39,700	3,140	17,900
	09/16/04	214,000	109,000	--	8,490	48,700	3,310	24,400
	04/20/05	196,000	88,700	--	7,520	49,800	3,490	23,100
	10/01/05	201,000	--	--	5,900	47,200	3,480	22,500
	04/18/06	219,000	33,100	904	5,510	46,200	3,380	24,100
	09/17/06	190,000	25,000	<970	6,000	42,000	3,300	22,000
GEI-3	10/07/02	36,600	101,000	--	178	3,070	339	12,000
	09/03/03	35,800	82,700	--	86.0	1,070	122	7,840
	04/23/04	16,600	25,200	--	66.0	758	63.1	5,920
	09/16/04	23,000	52,300	--	44.0	903	138	9,640
	09/16/04	--	--	--	35.2	835	77.7	6,610
	04/20/05	Well not sampled - not accessible						
	10/01/05	18,200	58,300	1,500	30.1	485	67.8	5,940
	10/01/05	19,100	--	--	<50.0	468	<50.0	6,280
	04/18/06	21,700	70,300	1,220	28.3	1,290	173	6,970
	09/16/06	16,000	62,000	<2,000	20.0	280	61	5,100
GEI-4	10/07/02	LNAPL present - 0.67' - well not sampled						
	09/03/03	LNAPL present - 0.01' - well not sampled						
	04/23/04	3,720	30,200	--	30.7	76.7	55.5	76.7
	09/16/04	LNAPL present - 0.01' - well not sampled						
	04/20/05	807	195,000	--	15.1	3.83	48.2	3.83
	10/01/05	2,560	44,000	601	13.4	<1.00	52.3	<1.00
	04/18/06	1,180	95,700	<8,060	15.2	2.18	66.4	2.18
	04/18/06	1,010	--	--	14.4	<0.500	53.6	<0.500
09/16/06	1,400	39,000	<960	16	1.8	40	190	
GEI-5	10/07/02	12,400	47,600	--	2,310	813	119	1,660
	10/07/02	10,800	--	--	2,360	841	127	1,660
	09/03/03	10,100	68,000	--	1,420	205	32.9	650
	04/23/04	Well not sampled - not accessible.						
	09/16/04	12,000	18,000	--	2,330	549	66.3	1,200
	04/20/05	7,050	71,500	--	1,240	444	44.0	1,040
	10/01/05	10,700	67,400	2,020	1,430	239	37.8	922
	04/18/06	--	--	--	--	--	--	--
09/16/06	6,200	22,000	<500	910	290	45	850	
GEI-6	10/07/02	58,800	5,790	--	1.26	1.95	<0.500	2.99
	09/03/03	<80	3,520	--	0.717	<0.500	<0.500	<1.00
	04/23/04	Well not sampled - not accessible.						
	09/16/04	58.8	7,580	--	0.758	<0.500	<0.500	1.72
	04/20/05	Well not sampled - not accessible.						
	10/01/05	<50	2,180	1,140	0.768	<0.500	<0.500	<1.50
	04/18/06	Well not sampled - not accessible.						
09/16/06	51	3,400	2,300	1.0	<0.5	<0.5	<1.5	
GEI-7	09/03/03	LNAPL present - 0.01' - well not sampled						
	04/23/04	LNAPL present - 0.41' - well not sampled						
	09/16/04	LNAPL present - 0.09' - well not sampled						
	04/20/05	LNAPL present - 0.93' - well not sampled						
	10/01/05	15,400	98,700	<4,240	299	2,180	246	2,560
	04/18/06	Well not sampled - not accessible.						
09/17/06	15,000	110,000	<2,000	360	2,000	250	2,400	

**Table 2c
Groundwater Analytical Data**

Former Unocal 306456
328.5 Illinois Ave.
Fairbanks, Alaska

Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes
ADEC GCL:		1,300	1,500	1,100	5.0	1,000	700	10,000
GEI-8	09/03/03	11,000	83,900	--	38.4	342	229	2,350
	04/23/04	8,850	107,000	--	152	834	161	1,930
	09/16/04	10,700	515,000	--	22.7	172	210	3,500
	04/20/05	6,920	571,000	--	14.9	189	136	1,740
	10/01/05	7,520	59,100	983	15.6	91.0	105	1,710
	04/18/06	4,870	43,600	1,110	14.8	131	148	1,620
	09/16/06	4,200	27,000	<960	14	93	89	1,200
GEI-9	09/03/03	LNAPL present - 0.01' - well not sampled						
	04/23/04	1,030	51,600	--	5.01	29.0	12.2	161
	09/16/04	1,490	276,000	--	1.58	2.63	6.73	59.3
	04/20/05	1,480	517,000	--	1.70	<0.500	7.31	41.9
	10/01/05	1,090	93,900	<4,030	1.44	<0.500	5.68	43.3
	04/18/06	881	97,800	<7,940	2.02	<0.500	8.10	57.0
	09/16/06	410	56,000	<2,000	2.1	<0.5	6.6	36
GEI-10	10/01/05	551	45,800	412	<0.500	<0.500	7.71	42.9
	04/18/06	689	43,400	510	<0.500	<0.500	40.0	135
	09/16/06	500	23,000	<500	<0.5	<0.5	13.0	53
	09/16/06^D	510	22,000	<500	<0.5	<0.5	13.0	56
GEI-11	10/01/05	161,000	61,900	2,810	8,060	21,500	1,340	8,570
	04/18/06	--	--	--	--	--	--	--
	09/17/06	92,000	55,000	<3,900	6,300	19,000	1,500	9,100
GEI-12	10/01/05	9,920	43,900	<410	233	478	290	2,040
	04/18/06	5,480	68,100	466	136	250	158	1,110
	09/16/06	6,200	56,000	<1,000	130	300	150	1,100
MW-2	10/01/05	94.4	<403	<403	<0.500	<0.500	<0.500	<1.50
	04/18/06	<500	918	<391	<0.500	<0.500	<0.500	<1.50
	09/15/06	14	260	490	<0.5	<0.5	<0.5	<1.5
MW-4	10/01/05	--	--	--	--	--	--	--
	04/18/06	<500	<407	<407	<0.500	<0.500	<0.500	<1.50
	09/15/06	<10	98	200	<0.5	<0.5	<0.5	<1.5
MW-5	10/01/05	16,200	51,500	668	245	1,620	270	3,070
	04/18/06	21,500	114,000	<7,810	287	3,220	498	3,910
	09/15/06	18,000	42,000	<1,000	220	1,700	370	2,800
	09/15/06^D	18,000	77,000	<1,900	230	1,900	410	3,400
MW-6	10/01/05	Well not sampled - not accessible.						
	04/18/06	624	1,120	<391	138	<0.500	10.0	7.50
	09/15/06	39	210	260	8.1	<0.5	1.0	<1.5
K-5	10/01/05	18,100	86,600	<4,030	<0.500	<0.500	2.26	7.56
	04/18/06	--	--	--	--	--	--	--
	09/27/06	610	17,000	<480	<0.5	<0.5	0.5	<1.5
K-7	10/01/05	<50	421	<417	<0.500	<0.500	<0.500	<1.50
	04/18/06	429	--	--	<0.500	<0.500	1.71	5.28
	09/16/06	<10	72	250	<0.5	<0.5	<0.5	<1.5
Trip Blank	04/18/06	<50	421	<417	<0.500	<0.500	<0.500	<1.50
	09/14/06	<10	--	--	<0.5	<0.5	<0.5	<1.5

Notes:
All results are reported in micrograms per liter (µg/l)
GRO = Gasoline range organics
DRO = Diesel range organics
RRO - Residual range organics
LNAPL = Light non-aqueous phase liquid
GCL = ADEC 18 AAC 75 Groundwater Cleanup Level
Bold Type = Results of most recent sampling event
Highlighted concentrations are greater than the applicable ADEC GCL.
^D = Duplicate sample

**Table 3
Groundwater VOC and RCRA Metals Analytical Data**

Former Texaco 21-1815, 401 Driveway Street
Former Chevron 100-4130, 418 Illinois Street
Former Unocal 306456, 328.5 Illinois Ave.
Fairbanks, Alaska

EPA Method:		8011				8260B				8021B	6010B/7470							
Well	Sample Date	1,2-dibromoethane	1,2-dibromoethane	1,1-dichloroethane	1,1,1-trichloroethane	carbon tetrachloride	1,2-dichloroethane	trichloroethene	tetrachloroethene	methyl tertiary butyl ether	Mercury	Arsenic	Selenium	Barium	Cadmium	Chromium	Lead	Silver
ADEC GCL:		0.05	0.05	3,650	200	NL	5	5	5	NL	2	50	50	2,000	5	100	15	180
Former Texaco 21-1815																		
AR-81	04/20/06	--	--	--	--	--	--	--	--	<2.5	--	--	--	--	--	--	--	--
AR-85	04/20/06	--	--	--	--	--	--	--	--	<2.5	--	--	--	--	--	--	--	--
MW-3	10/03/05	<0.0094	<5	<5	<4	<5	<5	<5	<4	--	<0.062	40.2	<9.4	671	<0.97	36.2	37.3	<2.0
	04/20/06	<0.0097	<1	<2	<2	<2	<1	3	<2	<100	<0.062	22.9	<9.4	513	3.7	8.5	13.5	2.5
	09/12/06	<0.0096	<3	<5	<4	<5	<3	7	<4	<25	<0.056	27.3	<9.4	560	2.5	9.9	13	<1.6
MW-4	10/03/05	0.025	<10	<10	<8	<10	<10	<10	<8	--	0.075	56.3	<9.4	866	1.1	56.7	130	<2.0
	04/20/06 09/12/06	0.039	<3	<5	<4	<5	<3	<5	<4	220	<0.056	25.8	<9.4	526	2.3	8.5	37.8	<1.6
MW-7	10/03/05	<0.0094	<3	<3	<2	<3	<3	<3	<2	--	0.062	162.0	14.4	1,940	2.1	255	128	<2.0
	04/20/06	--	--	--	--	--	--	--	--	<50	--	--	--	--	--	--	--	--
MW-8	10/03/05	0.026	<1	<1	<0.8	<1	<1	<1	<0.8	--	<0.062	67.8	<9.4	1,300	3	140	114	<2.0
	04/20/06	--	--	--	--	--	--	--	--	<100	--	--	--	--	--	--	--	--
MW-9	10/03/05	<0.0094	<1	<1	<0.8	<1	<1	<1	<0.8	--	<0.062	28.8	<9.4	965	1.9	93.3	60.5	<2.0
	04/20/06	--	--	--	--	--	--	--	--	<2.5	--	--	--	--	--	--	--	--
MW-10	10/03/05	<0.0094	<1	<1	<0.8	<1	<1	<1	<0.8	--	<0.062	113	<9.4	1,760	3.0	317	154	<2.0
	04/20/06	--	--	--	--	--	--	--	--	<10	--	--	--	--	--	--	--	--
	04/20/06 ^D	--	--	--	--	--	--	--	--	<10	--	--	--	--	--	--	--	--
Trip Blank	09/11/06	<0.0098	<0.5	<1	<0.8	<1	<0.5	<1	<0.8	--	--	--	--	--	--	--	--	--
Former Chevron 100-4130																		
TH-13	10/03/05	<0.0094	<1	<1	<0.8	<1	<1	<1	<0.8	--	<0.062	14.0	<9.4	271	<0.97	<4.8	<8.4	<2.0
	09/14/06	<0.0095	<0.5	<0.5	<0.8	<1	<0.5	<1	<0.8	<2.5	<0.056	15.6	<9.4	258	<0.91	<2.3	<6.9	<1.6
TH-17	10/03/05	<0.0088	<1	<1	<0.8	<1	<1	<1	<0.8	--	<0.062	39.9	<9.4	330	<0.97	<4.8	<8.4	<2.0
	09/14/06	<0.0096	<0.5	<0.5	<0.8	<1	<0.5	<1	<0.8	<10	<0.056	33.3	<9.4	338	<0.91	4.7	<6.9	<1.6
Trip Blank	10/03/05	<0.0094	<1	<1	<0.8	<1	<1	<1	<0.8	--	--	--	--	--	--	--	--	--
	04/20/06	<0.0096	<0.5	<1	<0.8	<1	<0.5	<1	<0.8	<2.5	--	--	--	--	--	--	--	--
	09/13/06	<0.0098	<0.5	<1	<0.8	<1	<0.5	<1	<0.8	--	--	--	--	--	--	--	--	--

**Table 3
Groundwater VOC and RCRA Metals Analytical Data**

Former Texaco 21-1815, 401 Driveway Street
Former Chevron 100-4130, 418 Illinois Street
Former Unocal 306456, 328.5 Illinois Ave.
Fairbanks, Alaska

EPA Method:		8011				8260B				8021B	6010B/7470							
Well	Sample Date	1,2-dibromoethane	1,2-dibromoethane	1,1-dichloroethane	1,1,1-trichloroethane	carbon tetrachloride	1,2-dichloroethane	trichloroethene	tetrachloroethene	methyl tertiary butyl ether	Mercury	Arsenic	Selenium	Barium	Cadmium	Chromium	Lead	Silver
ADEC GCL:		0.05	0.05	3,650	200	NL	5	5	5	NL	2	50	50	2,000	5	100	15	180
Former Unocal Bulk Plant 306456																		
GEI-2	09/17/06	120	140	<1.0	<0.8	<1.0	<0.5	<1.0	<0.8	<500	<0.56	42.2	<9.4	445	<0.91	17.8	89.5	<1.6
GEI-11	09/17/06	1.9	2	<1.0	<0.8	<1.0	<0.5	<1.0	<0.8	<250	0.082	107	<9.4	1,110	1.3	30.9	63.9	<1.6

Notes:
All results are reported in micrograms per liter (µg/l)
VOC = volatile organic compounds; analyzed using EPA Method 8260B
RCRA = Resource Conservation and Recovery Act; samples analyzed using EPA Methods 7470 (mercury only) and 6010B
GCL = ADEC 18 AAC 75 Groundwater Cleanup Level
NL = A GCL is not currently listed.
Bold Type = Results of most recent sampling event
Highlighted concentrations are greater than the applicable ADEC GCL.
-- = 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 4
Groundwater PAH Analytical Data**

Former Texaco 21-1815, 401 Driveway Street
Former Chevron 100-4130, 418 Illinois Street
Former Unocal 306456, 328.5 Illinois Ave.
Fairbanks, Alaska

Well	Sample Date	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene
ADEC GCL:		700	2,200	2,200	1,460	11,000	11,000	1,460	1,100	1	100	1	10	0.2	1	0.1	1,100
Former Texaco 21-1815																	
MW-3	10/03/05	140	<0.2	4	6	9	3	0.1	0.3	<0.2	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2
	4/20/206	100	<1	<1	2	3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	09/12/06	120	<1	2	3	3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-4	10/03/05	390	<0.2	6	14	25	3	0.9	0.6	<0.2	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2
	4/20/206							LNAPL present - 0.32' - well not sampled									
	09/12/06	400	3	4	12	16	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-7	10/03/05	31	<0.02	0.3	<0.01	0.04	0.04	0.02	<0.02	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02
MW-8	10/03/05	24	<0.02	0.2	0.1	0.1	0.03	0.02	<0.02	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02
MW-9	10/03/05	0.2	<0.02	<0.01	<0.01	0.03	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02
MW-10	10/03/05	2	<0.02	0.5	0.4	0.05	0.03	0.04	0.03	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02
Former Chevron 100-4130																	
TH-13	10/03/05	18	<0.02	6	8	16	4	8	7	1	1	0.4	0.1	<0.02	<0.02	<0.02	<0.02
	4/20/206						Well not sampled - buried under ice, monument filled										
	09/14/06	3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TH-17	10/03/05	15	<0.02	0.6	1	0.4	0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02
	4/20/206						Well not sampled - buried under ice, monument filled										
	09/14/06	19	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Former Unocal 306456																	
GEI-2	09/17/06	400	<10	<10	11	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
GEI-11	09/17/06	580	<10	<10	20	19	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Notes:																	
All results are reported in micrograms per liter (µg/l)																	
PAH = Polycyclic Aromatic Hydrocarbons; analyzed using EPA Method 8270																	
GCL = ADEC 18 AAC 75 Groundwater Cleanup Level																	
Bold Type = Results of 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 diluter																	

Attachment A

Laboratory Report and Chain-of-Custody

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 1006191. Samples arrived at the laboratory on Tuesday, September 19, 2006. The PO# for this group is 0015011799 and the release number is HARTUNG-FRERICH.

Client Description**Lancaster Labs Number**

MW-6-W-060915 Grab Water Sample	4868167
MW-5-W-060915 Grab Water Sample	4868168
MW-5-WD-060915 Grab Water Sample	4868169
MW-4-W-060915 Grab Water Sample	4868170
MW-2-W-060915 Grab Water Sample	4868171
GEI-6-W-060916 Grab Water Sample	4868172
GEI-5-W-060916 Grab Water Sample	4868173
GEI-3-W-060916 Grab Water Sample	4868174
GEI-9-W-060916 Grab Water Sample	4868175
GEI-4-W-060916 Grab Water Sample	4868176
GEI-8-W-060916 Grab Water Sample	4868177
K-7-W-060916 Grab Water Sample	4868178
GEI-10-W-060916 Grab Water Sample	4868179
GEI-10-WD-060916 Grab Water Sample	4868180
GEI-12-W-060916 Grab Water Sample	4868181
GEI-7-W-060917 Grab Water Sample	4868182
GEI-1-W-060917 Grab Water Sample	4868183
GEI-11-W-060917 Grab Water Sample	4868184
GEI-2-W-060917 Grab Water Sample	4868185
QA-T-060914 Water Sample	4868186
Wastewater-W-060918 Grab Water Sample	4868187

ELECTRONIC Oasis Environmental, Inc.
COPY TO
ELECTRONIC Blasland, Bouck & Lee
COPY TO
ELECTRONIC BBL
COPY TO

Attn: Julie Ahern

Attn: Rebecca Andresen

Attn: Barbara Orchard

Questions? Contact your Client Services Representative
Megan A Moeller at (717) 656-2300

Respectfully Submitted,



Elizabeth A. Smith
Senior Specialist



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 4868167

MW-6-W-060915 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/15/2006 15:00 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Chevron

Reported: 12/18/2006 at 17:06

6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007

San Ramon CA 94583

ISF06

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.	39.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	210.	20.	ug/l	1
02946	C25-C36 RRO	n.a.	260.	20.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	8.1	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	1.0	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/21/2006 20:16	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 17:40	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/21/2006 20:16	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/21/2006 20:16	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 14:00	Olivia I Santiago	1



Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. WW 4868168

MW-5-W-060915 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/15/2006 15:45 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISF-5

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.	18,000.	50.	ug/l	5
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	42,000.	1,000.	ug/l	50
02946	C25-C36 RRO	n.a.	N.D.	1,000.	ug/l	50
05879	BTEX					
02161	Benzene	71-43-2	220.	2.5	ug/l	5
02164	Toluene	108-88-3	1,700.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	370.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	2,800.	7.5	ug/l	5

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	09/22/2006 11:12	Patrick N Evans	5
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/29/2006 22:04	Sarah M Snyder	50
05879	BTEX	SW-846 8021B	1	09/22/2006 11:12	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/22/2006 11:12	Patrick N Evans	5
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 14:00	Olivia I Santiago	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4868169

MW-5-WD-060915 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/15/2006 16:15 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISF5D

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.	18,000.	100.	ug/l	10
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	77,000.	1,900.	ug/l	100
02946	C25-C36 RRO	n.a.	N.D.	1,900.	ug/l	100
05879	BTEX					
02161	Benzene	71-43-2	230.	5.0	ug/l	10
02164	Toluene	108-88-3	1,900.	5.0	ug/l	10
02166	Ethylbenzene	100-41-4	410.	5.0	ug/l	10
02171	Total Xylenes	1330-20-7	3,400.	15.	ug/l	10

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	09/22/2006 11:45	Patrick N Evans	10
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/30/2006 00:06	Sarah M Snyder	100
05879	BTEX	SW-846 8021B	1	09/22/2006 11:45	Patrick N Evans	10
01146	GC VOA Water Prep	SW-846 5030B	2	09/22/2006 11:45	Patrick N Evans	10
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 14:00	Olivia I Santiago	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4868170

MW-4-W-060915 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/15/2006 16:30 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISF04

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.	N.D.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	98.	20.	ug/l	1
02946	C25-C36 RRO	n.a.	200.	20.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/21/2006 20:49	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 18:30	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/21/2006 20:49	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/21/2006 20:49	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 14:00	Olivia I Santiago	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4868171

MW-2-W-060915 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/15/2006 17:10 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISF-2

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.	14.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	260.	20.	ug/l	1
02946	C25-C36 RRO	n.a.	490.	20.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/21/2006 21:26	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 18:55	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/21/2006 21:26	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/21/2006 21:26	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 14:00	Olivia I Santiago	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4868172

GEI-6-W-060916 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/16/2006 12:30 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISFG6

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.	51.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	3,400.	98.	ug/l	5
02946	C25-C36 RRO	n.a.	2,300.	98.	ug/l	5
05879	BTEX					
02161	Benzene	71-43-2	1.0	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/21/2006 21:59	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/29/2006 19:08	Sarah M Snyder	5
05879	BTEX	SW-846 8021B	1	09/21/2006 21:59	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/21/2006 21:59	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 14:00	Olivia I Santiago	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4868173

GEI-5-W-060916 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/16/2006 13:15 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISFG5

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.	6,200.	50.	ug/l	5
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	22,000.	500.	ug/l	25
02946	C25-C36 RRO	n.a.	N.D.	500.	ug/l	25
05879	BTEX					
02161	Benzene	71-43-2	910.	2.5	ug/l	5
02164	Toluene	108-88-3	290.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	45.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	850.	7.5	ug/l	5

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	09/22/2006 12:18	Patrick N Evans	5
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/29/2006 19:58	Sarah M Snyder	25
05879	BTEX	SW-846 8021B	1	09/22/2006 12:18	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/22/2006 12:18	Patrick N Evans	5
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 14:00	Olivia I Santiago	1

Lancaster Laboratories Sample No. WW 4868174
GEI-3-W-060916 Grab Water Sample
Facility# 306456
328.5 Illinois St. - Fairbanks, AK

Collected: 09/16/2006 14:00 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Chevron

Reported: 12/18/2006 at 17:06

6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007

San Ramon CA 94583

ISFG3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	16,000.	50.		ug/l	5
02923	TPH-DRO/RRO (AK) water						
02943	C10-<C25 DRO	n.a.	62,000.	2,000.		ug/l	100
02946	C25-C36 RRO	n.a.	N.D.	2,000.		ug/l	100
05879	BTEX						
02161	Benzene	71-43-2	20.	2.5		ug/l	5
02164	Toluene	108-88-3	280.	2.5		ug/l	5
02166	Ethylbenzene	100-41-4	61.	2.5		ug/l	5
02171	Total Xylenes	1330-20-7	5,100.	7.5		ug/l	5

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		Analyst	Dilution Factor
			Trial#	Date and Time		
01440	Alaska AK101 GRO (waters)	AK 101	1	09/22/2006 13:59	Patrick N Evans	5
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/30/2006 00:55	Sarah M Snyder	100
05879	BTEX	SW-846 8021B	1	09/22/2006 13:59	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/22/2006 13:59	Patrick N Evans	5
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 14:00	Olivia I Santiago	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4868175

GEI-9-W-060916 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/16/2006 14:45 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISFG9

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.	410.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	56,000.	2,000.	ug/l	100
02946	C25-C36 RRO	n.a.	N.D.	2,000.	ug/l	100
05879	BTEX					
02161	Benzene	71-43-2	2.1	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	6.6	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	36.	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/21/2006 22:32	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/30/2006 01:19	Sarah M Snyder	100
05879	BTEX	SW-846 8021B	1	09/21/2006 22:32	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/21/2006 22:32	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 14:00	Olivia I Santiago	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4868176

GEI-4-W-060916 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/16/2006 15:15 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISFG4

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.	1,400.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	39,000.	960.	ug/l	50
02946	C25-C36 RRO	n.a.	N.D.	960.	ug/l	50
05879	BTEX					
02161	Benzene	71-43-2	16.	0.5	ug/l	1
02164	Toluene	108-88-3	1.8	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	40.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	190.	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/22/2006 00:10	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/29/2006 22:29	Sarah M Snyder	50
05879	BTEX	SW-846 8021B	1	09/22/2006 10:37	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/22/2006 00:10	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	2	09/22/2006 10:37	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 14:00	Olivia I Santiago	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4868177

GEI-8-W-060916 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/16/2006 16:00 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISFG8

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.	4,200.	50.	ug/l	5
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	27,000.	960.	ug/l	50
02946	C25-C36 RRO	n.a.	N.D.	960.	ug/l	50
05879	BTEX					
02161	Benzene	71-43-2	14.	2.5	ug/l	5
02164	Toluene	108-88-3	93.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	89.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	1,200.	7.5	ug/l	5

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	09/22/2006 13:26	Patrick N Evans	5
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/29/2006 23:42	Sarah M Snyder	50
05879	BTEX	SW-846 8021B	1	09/22/2006 13:26	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/22/2006 13:26	Patrick N Evans	5
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 14:00	Olivia I Santiago	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4868178

K-7-W-060916 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/16/2006 17:00 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISFK7

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.	N.D.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	72.	19.	ug/l	1
02946	C25-C36 RRO	n.a.	250.	19.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/22/2006 23:57	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 18:05	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/22/2006 23:57	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/22/2006 23:57	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 14:00	Olivia I Santiago	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4868179

GEI-10-W-060916 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/16/2006 17:30 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISG10

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.	500.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	23,000.	500.	ug/l	25
02946	C25-C36 RRO	n.a.	N.D.	500.	ug/l	25
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	13.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	53.	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/23/2006 00:33	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/29/2006 20:23	Sarah M Snyder	25
05879	BTEX	SW-846 8021B	1	09/23/2006 00:33	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2006 00:33	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 14:00	Olivia I Santiago	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4868180

GEI-10-WD-060916 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/16/2006 17:45 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISGDP

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.	510.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	22,000.	500.	ug/l	25
02946	C25-C36 RRO	n.a.	N.D.	500.	ug/l	25
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	13.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	56.	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/23/2006 01:06	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/29/2006 20:49	Sarah M Snyder	25
05879	BTEX	SW-846 8021B	1	09/23/2006 01:06	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2006 01:06	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 14:00	Olivia I Santiago	1



Analysis Report

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

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Lancaster Laboratories Sample No. WW 4868181

GEI-12-W-060916 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/16/2006 18:15 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISF12

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.	6,200.	50.	ug/l	5
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	56,000.	1,000.	ug/l	50
02946	C25-C36 RRO	n.a.	N.D.	1,000.	ug/l	50
05879	BTEX					
02161	Benzene	71-43-2	130.	2.5	ug/l	5
02164	Toluene	108-88-3	300.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	150.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	1,100.	7.5	ug/l	5

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	09/23/2006 01:39	Patrick N Evans	5
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	10/03/2006 17:29	Sarah M Snyder	50
05879	BTEX	SW-846 8021B	1	09/23/2006 01:39	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2006 01:39	Patrick N Evans	5
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 14:00	Olivia I Santiago	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4868182

GEI-7-W-060917 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/17/2006 11:50 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISFG7

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.	15,000.	100.	ug/l	10
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	110,000.	2,000.	ug/l	100
02946	C25-C36 RRO	n.a.	N.D.	2,000.	ug/l	100
05879	BTEX					
02161	Benzene	71-43-2	360.	5.0	ug/l	10
02164	Toluene	108-88-3	2,000.	5.0	ug/l	10
02166	Ethylbenzene	100-41-4	250.	5.0	ug/l	10
02171	Total Xylenes	1330-20-7	2,400.	15.	ug/l	10

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	09/23/2006 02:16	Patrick N Evans	10
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/30/2006 00:30	Sarah M Snyder	100
05879	BTEX	SW-846 8021B	1	09/23/2006 02:16	Patrick N Evans	10
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2006 02:16	Patrick N Evans	10
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 14:00	Olivia I Santiago	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 4868183

GEI-1-W-060917 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/17/2006 12:30 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISFG1

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.	31,000.	200.	ug/l	20
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	29,000.	970.	ug/l	50
02946	C25-C36 RRO	n.a.	N.D.	970.	ug/l	50
05879	BTEX					
02161	Benzene	71-43-2	3,200.	10.	ug/l	20
02164	Toluene	108-88-3	4,500.	10.	ug/l	20
02166	Ethylbenzene	100-41-4	540.	10.	ug/l	20
02171	Total Xylenes	1330-20-7	3,100.	30.	ug/l	20

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	09/23/2006 02:49	Patrick N Evans	20
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/29/2006 21:14	Sarah M Snyder	50
05879	BTEX	SW-846 8021B	1	09/23/2006 02:49	Patrick N Evans	20
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2006 02:49	Patrick N Evans	20
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 14:00	Olivia I Santiago	1

Lancaster Laboratories Sample No. WW 4868184
GEI-11-W-060917 Grab Water Sample
Facility# 306456
328.5 Illinois St. - Fairbanks, AK

Collected: 09/17/2006 13:00 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISF11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
00259	Mercury	7439-97-6	0.082		0.056	ug/l	1
07035	Arsenic	7440-38-2	107.		10.	ug/l	1
07036	Selenium	7782-49-2	N.D.		9.4	ug/l	1
07046	Barium	7440-39-3	1,110.		0.62	ug/l	1
07049	Cadmium	7440-43-9	1.3		0.91	ug/l	1
07051	Chromium	7440-47-3	30.9		2.3	ug/l	1
07055	Lead	7439-92-1	63.9		6.9	ug/l	1
07066	Silver	7440-22-4	N.D.		1.6	ug/l	1
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	92,000.		1,000.	ug/l	100
02159	BTEX, MTBE						
02161	Benzene	71-43-2	6,300.		50.	ug/l	100
02164	Toluene	108-88-3	19,000.		50.	ug/l	100
02166	Ethylbenzene	100-41-4	1,500.		50.	ug/l	100
02171	Total Xylenes	1330-20-7	9,100.		150.	ug/l	100
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.		250.	ug/l	100
02923	TPH-DRO/RRO (AK) water						
02943	C10-<C25 DRO	n.a.	55,000.		3,900.	ug/l	200
02946	C25-C36 RRO	n.a.	N.D.		3,900.	ug/l	200
07879	EDB in Wastewater						
01087	Ethylene dibromide	106-93-4	1.9		0.099	ug/l	10
07805	PAHs in Water by GC/MS						
03947	Naphthalene	91-20-3	580.		10.	ug/l	10
03951	Acenaphthylene	208-96-8	N.D.		10.	ug/l	10
03954	Acenaphthene	83-32-9	N.D.		10.	ug/l	10
03956	Fluorene	86-73-7	20.		10.	ug/l	10
03963	Phenanthrene	85-01-8	19.		10.	ug/l	10
03964	Anthracene	120-12-7	N.D.		10.	ug/l	10
03966	Fluoranthene	206-44-0	N.D.		10.	ug/l	10
03967	Pyrene	129-00-0	N.D.		10.	ug/l	10
03970	Benzo(a)anthracene	56-55-3	N.D.		10.	ug/l	10

Lancaster Laboratories Sample No. WW 4868184
GEI-11-W-060917 Grab Water Sample
Facility# 306456
328.5 Illinois St. - Fairbanks, AK

Collected: 09/17/2006 13:00 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Chevron

Reported: 12/18/2006 at 17:06

6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007

San Ramon CA 94583

ISF11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
			Detection Limit			
03971	Chrysene	218-01-9	N.D.	10.	ug/l	10
03975	Benzo(b)fluoranthene	205-99-2	N.D.	10.	ug/l	10
03976	Benzo(k)fluoranthene	207-08-9	N.D.	10.	ug/l	10
03977	Benzo(a)pyrene	50-32-8	N.D.	10.	ug/l	10
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	10.	ug/l	10
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	10.	ug/l	10
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	10.	ug/l	10
05382	EPA SW846/8260 (water)					
05393	1,1-Dichloroethane	75-34-3	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
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
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05412	1,2-Dibromoethane	106-93-4	2.	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
00259	Mercury	SW-846 7470A	1	09/22/2006 08:25	Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	09/22/2006 11:02	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	09/22/2006 11:02	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	09/22/2006 11:02	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	09/22/2006 11:02	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	09/22/2006 11:02	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	09/22/2006 11:02	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	09/22/2006 11:02	Joanne M Gates	1
01440	Alaska AK101 GRO (waters)	AK 101	1	09/23/2006 03:22	Patrick N Evans	100
02159	BTEX, MTBE	SW-846 8021B	1	09/23/2006 03:22	Patrick N Evans	100
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/30/2006 02:08	Sarah M Snyder	200
07879	EDB in Wastewater	SW-846 8011	1	09/26/2006 14:38	Lindsey K Norberg	10

Lancaster Laboratories Sample No. WW 4868184

GEI-11-W-060917 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/17/2006 13:00 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISF11

07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/22/2006 07:55	Mark A Clark	10
05382	EPA SW846/8260 (water)	SW-846 8260B	1	09/21/2006 10:47	Stephanie A Selis	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2006 03:22	Patrick N Evans	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/21/2006 10:47	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/22/2006 00:20	Helen L Schaeffer	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 14:00	Olivia I Santiago	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/21/2006 19:50	Nelli S Markaryan	1
07786	EDB Extraction	SW-846 8011	1	09/21/2006 10:45	Deborah M Zimmerman	1
07807	BNA Water Extraction	SW-846 3510C	1	09/21/2006 11:00	Mariam G Attalla	1

Lancaster Laboratories Sample No. WW 4868185
GEI-2-W-060917 Grab Water Sample
Facility# 306456
328.5 Illinois St. - Fairbanks, AK

Collected: 09/17/2006 14:15 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISFG2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
00259	Mercury	7439-97-6	N.D.	0.056		ug/l	1
07035	Arsenic	7440-38-2	42.2	10.		ug/l	1
07036	Selenium	7782-49-2	N.D.	9.4		ug/l	1
07046	Barium	7440-39-3	445.	0.62		ug/l	1
07049	Cadmium	7440-43-9	N.D.	0.91		ug/l	1
07051	Chromium	7440-47-3	17.8	2.3		ug/l	1
07055	Lead	7439-92-1	89.5	6.9		ug/l	1
07066	Silver	7440-22-4	N.D.	1.6		ug/l	1
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	190,000.	2,000.		ug/l	200
02159	BTEX, MTBE						
02161	Benzene	71-43-2	6,000.	100.		ug/l	200
02164	Toluene	108-88-3	42,000.	100.		ug/l	200
02166	Ethylbenzene	100-41-4	3,300.	100.		ug/l	200
02171	Total Xylenes	1330-20-7	22,000.	300.		ug/l	200
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	500.		ug/l	200
02923	TPH-DRO/RRO (AK) water						
02943	C10-<C25 DRO	n.a.	25,000.	970.		ug/l	50
02946	C25-C36 RRO	n.a.	N.D.	970.		ug/l	50
07879	EDB in Wastewater						
01087	Ethylene dibromide	106-93-4	120.	4.9		ug/l	500
07805	PAHs in Water by GC/MS						
03947	Naphthalene	91-20-3	400.	10.		ug/l	10
03951	Acenaphthylene	208-96-8	N.D.	10.		ug/l	10
03954	Acenaphthene	83-32-9	N.D.	10.		ug/l	10
03956	Fluorene	86-73-7	11.	10.		ug/l	10
03963	Phenanthrene	85-01-8	N.D.	10.		ug/l	10
03964	Anthracene	120-12-7	N.D.	10.		ug/l	10
03966	Fluoranthene	206-44-0	N.D.	10.		ug/l	10
03967	Pyrene	129-00-0	N.D.	10.		ug/l	10
03970	Benzo(a)anthracene	56-55-3	N.D.	10.		ug/l	10

Lancaster Laboratories Sample No. WW 4868185
GEI-2-W-060917 Grab Water Sample
Facility# 306456
328.5 Illinois St. - Fairbanks, AK

Collected: 09/17/2006 14:15 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Chevron

Reported: 12/18/2006 at 17:06

6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007

San Ramon CA 94583

ISFG2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
03971	Chrysene	218-01-9	N.D.	Detection Limit	ug/l	10
03975	Benzo(b)fluoranthene	205-99-2	N.D.	10.	ug/l	10
03976	Benzo(k)fluoranthene	207-08-9	N.D.	10.	ug/l	10
03977	Benzo(a)pyrene	50-32-8	N.D.	10.	ug/l	10
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	10.	ug/l	10
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	10.	ug/l	10
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	10.	ug/l	10
05382	EPA SW846/8260 (water)					
05393	1,1-Dichloroethane	75-34-3	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
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
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05412	1,2-Dibromoethane	106-93-4	140.	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
00259	Mercury	SW-846 7470A	1	09/22/2006 08:26	Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	09/22/2006 11:14	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	09/22/2006 11:14	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	09/22/2006 11:14	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	09/22/2006 11:14	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	09/22/2006 11:14	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	09/22/2006 11:14	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	09/22/2006 11:14	Joanne M Gates	1
01440	Alaska AK101 GRO (waters)	AK 101	1	09/23/2006 04:00	Patrick N Evans	200
02159	BTEX, MTBE	SW-846 8021B	1	09/23/2006 04:00	Patrick N Evans	200
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/29/2006 21:39	Sarah M Snyder	50
07879	EDB in Wastewater	SW-846 8011	1	09/26/2006 18:57	Lindsey K Norberg	500

Lancaster Laboratories Sample No. WW 4868185

GEI-2-W-060917 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/17/2006 14:15 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISFG2

07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/22/2006 08:16	Mark A Clark	10
05382	EPA SW846/8260 (water)	SW-846 8260B	1	09/21/2006 11:11	Stephanie A Selis	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2006 04:00	Patrick N Evans	200
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/21/2006 11:11	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/22/2006 00:20	Helen L Schaeffer	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 14:00	Olivia I Santiago	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/21/2006 19:50	Nelli S Markaryan	1
07786	EDB Extraction	SW-846 8011	1	09/21/2006 10:45	Deborah M Zimmerman	1
07807	BNA Water Extraction	SW-846 3510C	1	09/21/2006 11:00	Mariam G Attalla	1

Lancaster Laboratories Sample No. WW 4868186
QA-T-060914 Water Sample
Facility# 306456
328.5 Illinois St. - Fairbanks, AK
 Collected: 09/14/2006 08:00

Account Number: 11964

 Submitted: 09/19/2006 09:20
 Reported: 12/18/2006 at 17:06
 Discard: 01/18/2007

 Chevron
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

ISFTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	N.D.	10.		ug/l	1
05879	BTEX						
02161	Benzene	71-43-2	N.D.	0.5		ug/l	1
02164	Toluene	108-88-3	N.D.	0.5		ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5		ug/l	1
07879	EDB in Wastewater						
01087	Ethylene dibromide	106-93-4	N.D.	0.0097		ug/l	1
05382	EPA SW846/8260 (water)						
05393	1,1-Dichloroethane	75-34-3	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
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
05409	Tetrachloroethene	127-18-4	N.D.	0.8		ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5		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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01440	Alaska AK101 GRO (waters)	AK 101	1	09/21/2006 12:20	Patrick N Evans	1
05879	BTEX	SW-846 8021B	1	09/21/2006 12:20	Patrick N Evans	1
07879	EDB in Wastewater	SW-846 8011	1	09/23/2006 03:30	Lindsey K Norberg	1



Analysis Report

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Page 2 of 2

Lancaster Laboratories Sample No. WW 4868186

QA-T-060914 Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 08:00

Account Number: 11964

Submitted: 09/19/2006 09:20

Chevron

Reported: 12/18/2006 at 17:06

6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007

San Ramon CA 94583

ISFTB

05382	EPA SW846/8260 (water)	SW-846 8260B	1	09/22/2006 11:33	Stephanie A Selis	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/21/2006 12:20	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/22/2006 11:33	Stephanie A Selis	1
07786	EDB Extraction	SW-846 8011	1	09/21/2006 10:45	Deborah M Zimmerman	1



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 4868187

Wastewater-W-060918 Grab Water Sample
Facility# 306456
328.5 Illinois St. - Fairbanks, AK
Collected: 09/18/2006 09:00 by JA

Account Number: 11964

Submitted: 09/19/2006 09:20
Reported: 12/18/2006 at 17:07
Discard: 01/18/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

ISFWW

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 162F. Test flame extinguished at 142F. Flash point was determined using Pensky Martens closed cup apparatus.	n.a.	No Flash Observed			Degrees F	1
08079	HEM (oil & grease)	n.a.	27,000.		1,400.	ug/l	1
05879	BTEX						
02161	Benzene	71-43-2	150.		2.5	ug/l	5
02164	Toluene	108-88-3	480.		2.5	ug/l	5
02166	Ethylbenzene	100-41-4	62.		2.5	ug/l	5
02171	Total Xylenes	1330-20-7	780.		7.5	ug/l	5

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		Analyst	Dilution Factor
			Trial#	Date and Time		
00430	Flash Point for Liquids	ASTM D93-90	1	09/20/2006 17:00	Geraldine C Smith	1
08079	HEM (oil & grease)	EPA 1664A	1	09/25/2006 06:40	Valerie J Trout	1
05879	BTEX	SW-846 8021B	1	09/23/2006 20:14	Steven A Skiles	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2006 20:14	Steven A Skiles	5

Quality Control Summary

 Client Name: Chevron
 Reported: 12/18/06 at 05:07 PM

Group Number: 1006191

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: 062630007A	Sample number(s): 4868167-4868185							
C10-<C25 DRO	N.D.	20.	ug/l	76	76	75-125	0	20
C25-C36 RRO	N.D.	20.	ug/l	79	81	75-125	2	20
Batch number: 062630012A	Sample number(s): 4868184-4868186							
Ethylene dibromide	N.D.	0.010	ug/l	100	100	60-140	0	20
Batch number: 06263043001A	Sample number(s): 4868187							
Flash Point for Liquids				101	101	97-103	0	4
Batch number: 06263A51A	Sample number(s): 4868186							
Alaska AK101 GRO (waters)	N.D.	10.	ug/l	104	108	60-120	4	20
Benzene	N.D.	0.5	ug/l	108	109	86-119	1	30
Toluene	N.D.	0.5	ug/l	104	107	82-119	2	30
Ethylbenzene	N.D.	0.5	ug/l	104	106	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	105	107	82-120	2	30
Batch number: 06263A51B	Sample number(s): 4868167-4868177							
Alaska AK101 GRO (waters)	N.D.	10.	ug/l	104	108	60-120	4	20
Benzene	N.D.	0.5	ug/l	108	109	86-119	1	30
Toluene	N.D.	0.5	ug/l	104	107	82-119	2	30
Ethylbenzene	N.D.	0.5	ug/l	104	106	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	105	107	82-120	2	30
Batch number: 06263WAF026	Sample number(s): 4868184-4868185							
Naphthalene	N.D.	1.	ug/l	93	104	68-108	11	30
Acenaphthylene	N.D.	1.	ug/l	107	121*	76-117	12	30
Acenaphthene	N.D.	1.	ug/l	96	111	68-111	14	30
Fluorene	N.D.	1.	ug/l	97	110	75-111	12	30
Phenanthrene	N.D.	1.	ug/l	101	111	68-111	10	30
Anthracene	N.D.	1.	ug/l	98	108	68-108	10	30
Fluoranthene	N.D.	1.	ug/l	98	108	66-108	9	30
Pyrene	N.D.	1.	ug/l	97	109	68-114	12	30
Benzo(a)anthracene	N.D.	1.	ug/l	90	102	71-113	12	30
Chrysene	N.D.	1.	ug/l	92	106	70-111	14	30
Benzo(b)fluoranthene	N.D.	1.	ug/l	92	97	65-122	5	30
Benzo(k)fluoranthene	N.D.	1.	ug/l	87	105	67-120	18	30
Benzo(a)pyrene	N.D.	1.	ug/l	99	111	68-121	11	30
Indeno(1,2,3-cd)pyrene	N.D.	1.	ug/l	95	110	64-125	15	30
Dibenz(a,h)anthracene	N.D.	1.	ug/l	96	116	70-131	18	30
Benzo(g,h,i)perylene	N.D.	1.	ug/l	100	114	67-126	13	30
Batch number: 062645713003	Sample number(s): 4868184-4868185							
Mercury	N.D.	0.00005	mg/l	114		80-120		
		6						
Batch number: 062651848001	Sample number(s): 4868184-4868185							

*- 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: 1006191

Reported: 12/18/06 at 05:07 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>
Arsenic	N.D.	10.	ug/l	101		80-120		
Selenium	N.D.	9.4	ug/l	95		80-120		
Barium	N.D.	0.62	ug/l	98		90-110		
Cadmium	N.D.	0.91	ug/l	100		90-112		
Chromium	N.D.	2.3	ug/l	98		90-110		
Lead	N.D.	6.9	ug/l	100		90-113		
Silver	N.D.	1.6	ug/l	99		90-118		

Batch number: 06265A51A	Sample number(s): 4868178-4868185
Alaska AK101 GRO (waters)	N.D. 10. ug/l 106 114 60-120 7 20
Benzene	N.D. 0.5 ug/l 102 105 86-119 2 30
Toluene	N.D. 0.5 ug/l 105 104 82-119 0 30
Ethylbenzene	N.D. 0.5 ug/l 106 105 81-119 1 30
Total Xylenes	N.D. 1.5 ug/l 107 106 82-120 1 30
Methyl tert-Butyl Ether	N.D. 2.5 ug/l 102 103 82-124 2 30

Batch number: 06266A53A	Sample number(s): 4868187
Benzene	N.D. 0.5 ug/l 105 104 86-119 1 30
Toluene	N.D. 0.5 ug/l 108 106 82-119 2 30
Ethylbenzene	N.D. 0.5 ug/l 108 107 81-119 1 30
Total Xylenes	N.D. 1.5 ug/l 109 108 82-120 1 30

Batch number: 06268807901A	Sample number(s): 4868187
HEM (oil & grease)	N.D. 1.4 mg/l 78 85 78-114 9 20

Batch number: W062632AA	Sample number(s): 4868184-4868185
1,1-Dichloroethane	N.D. 1. ug/l 96 83-127
1,1,1-Trichloroethane	N.D. 0.8 ug/l 97 83-127
Carbon Tetrachloride	N.D. 1. ug/l 99 77-130
1,2-Dichloroethane	N.D. 0.5 ug/l 100 77-132
Trichloroethene	N.D. 1. ug/l 100 87-117
Tetrachloroethene	N.D. 0.8 ug/l 97 74-125
1,2-Dibromoethane	N.D. 0.5 ug/l 97 81-114

Batch number: W062632AB	Sample number(s): 4868186
1,1-Dichloroethane	N.D. 1. ug/l 96 83-127
1,1,1-Trichloroethane	N.D. 0.8 ug/l 97 83-127
Carbon Tetrachloride	N.D. 1. ug/l 99 77-130
1,2-Dichloroethane	N.D. 0.5 ug/l 100 77-132
Trichloroethene	N.D. 1. ug/l 100 87-117
Tetrachloroethene	N.D. 0.8 ug/l 97 74-125
1,2-Dibromoethane	N.D. 0.5 ug/l 97 81-114

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: 062630012A	Sample number(s): 4868184-4868186 UNSPK: P868297 BKG: P868298								
Ethylene dibromide	95		65-135			N.D.	N.D.	0 (1)	30

*- Outside of specification

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- (2) The background result was more than four times the spike added.

Quality Control Summary

 Client Name: Chevron
 Reported: 12/18/06 at 05:07 PM

Group Number: 1006191

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>BKG</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>
Batch number: 06263A51A	Sample number(s): 4868186 UNSPK: P868156, P868157								
Alaska AK101 GRO (waters)	114		60-120						
Benzene	117		78-131						
Toluene	115		78-129						
Ethylbenzene	115		75-133						
Total Xylenes	115		84-131						
Batch number: 06263A51B	Sample number(s): 4868167-4868177 UNSPK: P868156, P868157								
Alaska AK101 GRO (waters)	114		60-120						
Benzene	117		78-131						
Toluene	115		78-129						
Ethylbenzene	115		75-133						
Total Xylenes	115		84-131						
Batch number: 062645713003	Sample number(s): 4868184-4868185 UNSPK: P867765 BKG: P867765								
Mercury	125*	124*	80-120	1	20	N.D.	N.D.	-108 (1)	20
Batch number: 062651848001	Sample number(s): 4868184-4868185 UNSPK: P869494 BKG: P869494								
Arsenic	103	107	75-125	4	20	N.D.	N.D.	38* (1)	20
Selenium	91	93	75-125	3	20	N.D.	N.D.	200* (1)	20
Barium	98	100	75-125	2	20	42.3	48.3	13	20
Cadmium	99	102	83-116	3	20	N.D.	N.D.	520* (1)	20
Chromium	99	101	81-120	2	20	4.5	4.6	2 (1)	20
Lead	101	102	75-125	1	20	N.D.	N.D.	388* (1)	20
Silver	100	102	75-125	2	20	N.D.	N.D.	-329 (1)	20
Batch number: 06265A51A	Sample number(s): 4868178-4868185 UNSPK: 4868178, 4868179								
Alaska AK101 GRO (waters)	96		60-120						
Benzene	112		78-131						
Toluene	113		78-129						
Ethylbenzene	114		75-133						
Total Xylenes	114		84-131						
Methyl tert-Butyl Ether	106		70-134						
Batch number: 06266A53A	Sample number(s): 4868187 UNSPK: P869155								
Benzene	113		78-131						
Toluene	116		78-129						
Ethylbenzene	118		75-133						
Total Xylenes	118		84-131						
Batch number: W062632AA	Sample number(s): 4868184-4868185 UNSPK: P865725								
1,1-Dichloroethane	103	103	85-135	0	30				
1,1,1-Trichloroethane	107	109	81-142	2	30				
Carbon Tetrachloride	111	110	82-149	1	30				
1,2-Dichloroethane	103	101	70-143	2	30				
Trichloroethene	104	104	83-136	0	30				
Tetrachloroethene	100	100	78-133	1	30				
1,2-Dibromoethane	101	103	78-120	2	30				
Batch number: W062632AB	Sample number(s): 4868186 UNSPK: P865725								
1,1-Dichloroethane	103	103	85-135	0	30				
1,1,1-Trichloroethane	107	109	81-142	2	30				
Carbon Tetrachloride	111	110	82-149	1	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

Group Number: 1006191

Reported: 12/18/06 at 05:07 PM

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>
1,2-Dichloroethane	103	101	70-143	2	30				
Trichloroethene	104	104	83-136	0	30				
Tetrachloroethene	100	100	78-133	1	30				
1,2-Dibromoethane	101	103	78-120	2	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-DRO/RRO (AK) water

Batch number: 062630007A

Orthoterphenyl

n-Triacontane-d62

4868167	93	94
4868168	130	83
4868169	172*	107
4868170	89	87
4868171	99	94
4868172	83	88
4868173	116	95
4868174	139	93
4868175	292*	84
4868176	109	90
4868177	101	108
4868178	97	104
4868179	86	92
4868180	98	92
4868181	108	94
4868182	72	101
4868183	99	87
4868184	59	96
4868185	69	88
Blank	96	106
LCS	95	103
LCSD	88	103

Limits: 50-150

50-150

Analysis Name: EDB in Wastewater

Batch number: 062630012A

1,1,2,2-

Tetrachloroethane

4868184	150
4868185	0*
4868186	119
Blank	105
DUP	99
LCS	107

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
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Quality Control Summary

Client Name: Chevron
Reported: 12/18/06 at 05:07 PM

Group Number: 1006191

Surrogate Quality Control

LCSD 105
MS 100

Limits: 19-164

Analysis Name: Alaska AK101 GRO (waters)
Batch number: 06263A51A

	Trifluorotoluene-F	Trifluorotoluene-P
4868186	88	102
Blank	86	103
LCS	90	97
LCSD	89	98
MS	94	98

Limits: 60-120 69-129

Analysis Name: Alaska AK101 GRO (waters)
Batch number: 06263A51B

	Trifluorotoluene-F	Trifluorotoluene-P
4868167	86	98
4868168	92	93
4868169	85	96
4868170	89	103
4868171	89	103
4868172	88	102
4868173	91	102
4868174	89	105
4868175	92	96
4868176	93	105
4868177	87	94
Blank	87	98
LCS	90	97
LCSD	89	98
MS	94	98

Limits: 60-120 69-129

Analysis Name: PAHs in Water by GC/MS
Batch number: 06263WAF026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
4868184	91	89	90
4868185	87	76	78
Blank	95	100	100
LCS	92	98	99
LCSD	104	110	113

Limits: 51-123 64-112 52-151

Analysis Name: Alaska AK101 GRO (waters)
Batch number: 06265A51A

	Trifluorotoluene-F	Trifluorotoluene-P
4868178	87	98
4868179	90	106
4868180	89	103

*- 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: 12/18/06 at 05:07 PM

Group Number: 1006191

Surrogate Quality Control

4868181	91	103
4868182	92	106
4868183	88	103
4868184	89	105
4868185	89	104
Blank	87	99
LCS	91	103
LCSD	91	98
MS	92	102

 Limits: 60-120 69-129

 Analysis Name: BTEX
 Batch number: 06266A53A
 Trifluorotoluene-P

4868187	92
Blank	96
LCS	96
LCSD	96
MS	96

 Limits: 69-129

 Analysis Name: EPA SW846/8260 (water)
 Batch number: W062632AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4868184	84	86	87	94
4868185	85	82	85	91
Blank	90	88	91	85
LCS	90	91	91	89
MS	91	87	91	90
MSD	91	91	92	89

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

 Analysis Name: EPA SW846/8260 (water)
 Batch number: W062632AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4868186	96	90	87	84
Blank	89	88	91	86
LCS	90	91	91	89
MS	91	87	91	90
MSD	91	91	92	89

 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.
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Chevron Generic Analysis Request/Chain of Custody



Page 1 of 2

For Lancaster Laboratories use only
 Acct. #: 119604 Sample #: 4868167-87 SCR#: 32148 005044

Facility #: <u>Former Unocal 0208</u> Site Address: <u>328.5 Illinois St, Fairbanks, AK</u> Chevron PM: <u>S. Hartung-Freuchs</u> Lead Consultant: <u>BBL</u> Consultant/Office: <u>Seattle, WA</u> Consultant Prj. Mgr.: <u>Rebecca Andresen</u> Consultant Phone #: <u>(206) 325-5254</u> Fax #: <u>(206) 325-8218</u> Sampler: <u>Julie Ahern, OASIS Environmental</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____				Matrix Potable <input type="checkbox"/> NPDES <input checked="" type="checkbox"/> Water <input type="checkbox"/> Air <input type="checkbox"/>		Analyses Requested Preservation Codes <input type="checkbox"/> BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> <input type="checkbox"/> 8260 full scan <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH G <input type="checkbox"/> TPH D <input type="checkbox"/> Extended Rng. <input type="checkbox"/> Silica Gel Cleanup <input type="checkbox"/> Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method <input type="checkbox"/> VPH/EPH <input type="checkbox"/> NWT/PH HClID <input type="checkbox"/> quantification										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy's on highest hit <input type="checkbox"/> Run ___ oxy's on all hits	
Sample Identification Date Collected Time Collected Grab Composite				Total Number of Containers		DRO/RRO(AK02/AK103) <input checked="" type="checkbox"/> GRO/BTEX(AK101/8081B) <input checked="" type="checkbox"/>										Comments / Remarks	
MW-6-W-060915 9/15/06 1500 X				5		X X										X X	
MW-5-W-060915 9/15/06 1545 X				5		X X										X X	
MW-5-WD-060915 9/15/06 1615 X				5		X X										X X	
MW-4-W-060915 9/15/06 1630 X				5		X X										X X	
MW-2-W-060915 9/15/06 1710 X				5		X X										X X	
GEI-6-W-060916 9/16/06 1230 X				5		X X										X X	
GEI-5-W-060916 9/16/06 1315 X				5		X X										X X	
GEI-3-W-060916 9/16/06 1400 X				5		X X										X X	
GEI-9-W-060916 9/16/06 1445 X				5		X X										X X	
GEI-4-W-060916 9/16/06 1515 X				5		X X										X X	
GEI-8-W-060916 9/16/06 1600 X				5		X X										X X	
K-7-W-060916 9/16/06 1700 X				5		X X										X X	
GEI-10-W-060916 9/16/06 1730 X				5		X X										X X	
Turnaround Time Requested (TAT) (please circle) STD. TAT 72 hour 48 hour 24 hour 4 day 5 day				Relinquished by: <u>[Signature]</u>		Date: <u>8-22-06</u> Time: <u>1707</u>		Received by: <u>[Signature]</u>		Date: <u>8/28/06</u> Time: <u>1500</u>							
Data Package Options (please circle if required) QC Summary Type I - Full Type VI (Raw Data) <u>Disk / EDD</u> WIP (RWQCB) Standard Format Disk _____ Other.				Relinquished by: <u>[Signature]</u>		Date: <u>9/18/06</u> Time: <u>1100</u>		Received by: _____		Date: _____ Time: _____							
Relinquished by Commercial Carrier: UPS <u>FedEx</u> Other _____				Temperature Upon Receipt: <u>1.8-4.3 C ranges:</u>		Received by: <u>Roddy Binkley</u>		Date: <u>9-19-06</u> Time: <u>0920</u>									
Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				_____		_____		_____									

Chevron Generic Analysis Request/Chain of Custody



Page 2 of 2

For Lancaster Laboratories use only
 Acct. #: 11964 Sample #: 4868167-87 SCR#: _____
005045

G# 100691

Facility #: Former Unocal 0208
 Site Address: 328.5 Illinois St, Fairbanks, AK
 Chevron PM: S. Hartung-Fredericks Lead Consultant: BBL
 Consultant/Office: Seattle, WA
 Consultant Prj. Mgr.: Rebecca Andresen
 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	H	H	H	H	N	T	H	H	
	<input type="checkbox"/> Potable <input checked="" type="checkbox"/> NPDES				<input checked="" type="checkbox"/> 8260 <input checked="" type="checkbox"/> 8261	<input type="checkbox"/> Naphth							
					<input checked="" type="checkbox"/> See 'Comments'								
					Oxygenates								
					TPH G								
					TPH D								
					Lead Total								
					VPI/EHP								
					NWTPH HClD								
					6010B/7470 (RCRA Metals)								
					8011 (EDB)								
					AK 102/AK103 (DRO/RRD)								
					AK101/8021B (ARO/BTEX)								

Preservative Codes
 H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ 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
GEI-10-WD-060916	9/16/06	1745	X			X			5
GEI-12-W-060916	9/16/06	1815	X			X			5
GEI-7-W-060917	9/17/06	1150	X			X			5
GEI-1-W-060917	9/17/06	1230	X			X			5
GEI-11-W-060917	9/17/06	1300	X			X			13
GEI-2-W-060917	9/17/06	1415	X			X			13
QA-T-060914	9/14/06	0800	X			X			6
Wastewater-W-060918	9/18/06	0900	X			X			6

Note: BTEX only for Wastewater Sample

Comments / Remarks
 • 8260B Analytes:
 Carbon tetrachloride
 Tetrachloroethene
 Trichloroethene
 1,2-dibromoethane
 1,2-dichloroethane
 1,1-dichloroethane
 1,1,1-trichloroethane
 • RCRA Metals:
 Mercury by 7470
 7 others by 6010B

Turnaround Time Requested (TAT) (please circle)
 8TD. TAT 72 hour 48 hour
 24 hour 4 day 5 day

Relinquished by: <u>[Signature]</u>	Date: <u>9/18/06</u>	Time: <u>1100</u>	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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 Commercial Carrier:
 UPS FedEx Other: _____
 Temperature Upon Receipt: 1.8 - 4.3°C ranges
 Received by: Kathleen Binkley Date: 9-19-06 Time: 0920
 Custody Seals Intact? Yes No

Lancaster Laboratories Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	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.		
>	greater than		
ppm	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.		
ppb	parts per billion		
Dry weight basis	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

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

Inorganic Qualifiers

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

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 17605-2425SAMPLE GROUP

The sample group for this submittal is 1005961. Samples arrived at the laboratory on Saturday, September 16, 2006. The PO# for this group is 0015008342 and the release number is HARTUNG-FRERICH.

Client DescriptionLancaster Labs Number

TH-10-W-060913 Grab Water Sample	4866482
TH-10-WD-060913 Grab Water Sample	4866483
MW-23-W-060913 Grab Water Sample	4866484
TH-7-W-060914 Grab Water Sample	4866485
TH-1-W-060914 Grab Water Sample	4866486
TH-5-W-060914 Grab Water Sample	4866487
TH-18-W-060914 Grab Water Sample	4866488
TH-17-W-060914 Grab Water Sample	4866489
TH-13-W-060914 Grab Water Sample	4866490
TH-2-W-060914 Grab Water Sample	4866491
QA-T-060913 Water Sample	4866492

ELECTRONIC Oasis Environmental, Inc.

COPY TO

Attn: Julie Ahern

ELECTRONIC Blasland, Bouck & Lee

COPY TO

Attn: Rebecca Andresen

ELECTRONIC BBL

COPY TO

Attn: Barbara Orchard

Questions? Contact your Client Services Representative
Megan A Moeller at (717) 656-2300

Respectfully Submitted,



Max E. Snavelly
Senior Specialist



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 4866482

TH-10-W-060913 Grab Water Sample

Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/13/2006 16:30 by JA

Account Number: 11964

Submitted: 09/16/2006 10:05

Reported: 10/04/2006 at 16:10

Discard: 11/04/2006

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISF10

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.	N.D.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	110.	20.	ug/l	1
02946	C25-C36 RRO	n.a.	600.	20.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/20/2006 00:40	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/25/2006 16:04	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/20/2006 00:40	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/20/2006 00:40	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 05:30	Tracy L Schickel	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4866483

TH-10-WD-060913 Grab Water Sample

Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/13/2006 17:00 by JA

Account Number: 11964

Submitted: 09/16/2006 10:05

Chevron

Reported: 10/04/2006 at 16:10

6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006

San Ramon CA 94583

ISFDP

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.	N.D.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	140.	19.	ug/l	1
02946	C25-C36 RRO	n.a.	790.	19.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/20/2006 01:13	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/25/2006 17:17	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/20/2006 01:13	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/20/2006 01:13	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 05:30	Tracy L Schickel	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4866484

MW-23-W-060913 Grab Water Sample

Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/13/2006 17:15 by JA

Account Number: 11964

Submitted: 09/16/2006 10:05

Chevron

Reported: 10/04/2006 at 16:10

6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006

San Ramon CA 94583

ISF23

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.	38.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	1,000.	19.	ug/l	1
02946	C25-C36 RRO	n.a.	440.	19.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/20/2006 01:45	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/25/2006 12:50	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/20/2006 01:45	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/20/2006 01:45	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 05:30	Tracy L Schickel	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4866485

TH-7-W-060914 Grab Water Sample

Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 10:15 by JA

Account Number: 11964

Submitted: 09/16/2006 10:05

Chevron

Reported: 10/04/2006 at 16:10

6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006

San Ramon CA 94583

ISF07

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.	100.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	790.	20.	ug/l	1
02946	C25-C36 RRO	n.a.	430.	20.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	0.6	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/20/2006 03:29	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/25/2006 13:14	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/20/2006 03:29	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/20/2006 03:29	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 05:30	Tracy L Schickel	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4866486

TH-1-W-060914 Grab Water Sample

Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 11:00 by JA

Account Number: 11964

Submitted: 09/16/2006 10:05

Reported: 10/04/2006 at 16:10

Discard: 11/04/2006

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISF01

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.	860.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	13,000.	490.	ug/l	25
02946	C25-C36 RRO	n.a.	N.D.	490.	ug/l	25
05879	BTEX					
02161	Benzene	71-43-2	1.1	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	12.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	69.	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/20/2006 04:02	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 14:44	Sarah M Snyder	25
05879	BTEX	SW-846 8021B	1	09/20/2006 04:02	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/20/2006 04:02	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 05:30	Tracy L Schickel	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4866487

TH-5-W-060914 Grab Water Sample

Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 11:30 by JA

Account Number: 11964

Submitted: 09/16/2006 10:05

Chevron

Reported: 10/04/2006 at 16:10

6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006

San Ramon CA 94583

ISF05

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.	700.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	7,700.	500.	ug/l	25
02946	C25-C36 RRO	n.a.	N.D.	500.	ug/l	25
05879	BTEX					
02161	Benzene	71-43-2	2.0	0.5	ug/l	1
02164	Toluene	108-88-3	0.6	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	9.0	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	56.	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/20/2006 05:41	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 15:09	Sarah M Snyder	25
05879	BTEX	SW-846 8021B	1	09/20/2006 05:41	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/20/2006 05:41	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 05:30	Tracy L Schickel	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4866488

TH-18-W-060914 Grab Water Sample

Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 14:30 by JA

Account Number: 11964

Submitted: 09/16/2006 10:05

Reported: 10/04/2006 at 16:10

Discard: 11/04/2006

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISF18

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.	2,200.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	1,300.	98.	ug/l	5
02946	C25-C36 RRO	n.a.	N.D.	98.	ug/l	5
05879	BTEX					
02161	Benzene	71-43-2	86.	0.5	ug/l	1
02164	Toluene	108-88-3	2.4	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	130.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	230.	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/20/2006 06:14	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 13:03	Sarah M Snyder	5
05879	BTEX	SW-846 8021B	1	09/20/2006 06:14	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/20/2006 06:14	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 05:30	Tracy L Schickel	1

Lancaster Laboratories Sample No. WW 4866489
TH-17-W-060914 Grab Water Sample
Facility# 1001430
418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 15:30 by JA

Account Number: 11964

Submitted: 09/16/2006 10:05

Chevron

Reported: 10/04/2006 at 16:10

6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006

San Ramon CA 94583

ISF17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
00259	Mercury	7439-97-6	N.D.	0.056		ug/l	1
07035	Arsenic	7440-38-2	33.3	10.		ug/l	1
07036	Selenium	7782-49-2	N.D.	9.4		ug/l	1
07046	Barium	7440-39-3	338.	0.62		ug/l	1
07049	Cadmium	7440-43-9	N.D.	0.91		ug/l	1
07051	Chromium	7440-47-3	4.7	2.3		ug/l	1
07055	Lead	7439-92-1	N.D.	6.9		ug/l	1
07066	Silver	7440-22-4	N.D.	1.6		ug/l	1
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	1,400.	10.		ug/l	1
02159	BTEX, MTBE						
02161	Benzene	71-43-2	16.	0.5		ug/l	1
02164	Toluene	108-88-3	2.1	0.5		ug/l	1
02166	Ethylbenzene	100-41-4	70.	0.5		ug/l	1
02171	Total Xylenes	1330-20-7	150.	1.5		ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	10.		ug/l	1
	Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for MTBE. The presence or concentration of this compound cannot be determined due to the presence of this interferent.						
02923	TPH-DRO/RRO (AK) water						
02943	C10-<C25 DRO	n.a.	3,400.	100.		ug/l	5
02946	C25-C36 RRO	n.a.	1,500.	100.		ug/l	5
07879	EDB in Wastewater						
01087	Ethylene dibromide	106-93-4	N.D.	0.0096		ug/l	1
07805	PAHs in Water by GC/MS						
03947	Naphthalene	91-20-3	19.	1.		ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.		ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.		ug/l	1
03956	Fluorene	86-73-7	2.	1.		ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.		ug/l	1
03964	Anthracene	120-12-7	N.D.	1.		ug/l	1

Lancaster Laboratories Sample No. WW 4866489
TH-17-W-060914 Grab Water Sample
Facility# 1001430
418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 15:30 by JA

Account Number: 11964

Submitted: 09/16/2006 10:05

Chevron

Reported: 10/04/2006 at 16:10

6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006

San Ramon CA 94583

ISF17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
03966	Fluoranthene	206-44-0	N.D.	Detection Limit	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	ug/l	1
03970	Benzo (a) anthracene	56-55-3	N.D.	1.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	ug/l	1
03975	Benzo (b) fluoranthene	205-99-2	N.D.	1.	ug/l	1
03976	Benzo (k) fluoranthene	207-08-9	N.D.	1.	ug/l	1
03977	Benzo (a) pyrene	50-32-8	N.D.	1.	ug/l	1
03978	Indeno (1,2,3-cd) pyrene	193-39-5	N.D.	1.	ug/l	1
03979	Dibenz (a,h) anthracene	53-70-3	N.D.	1.	ug/l	1
03980	Benzo (g,h,i) perylene	191-24-2	N.D.	1.	ug/l	1
05382	EPA SW846/8260 (water)					
05393	1,1-Dichloroethane	75-34-3	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
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
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00259	Mercury	SW-846 7470A	1	09/21/2006 07:36	Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	09/20/2006 07:05	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	09/20/2006 07:05	Eric L Eby	1
07046	Barium	SW-846 6010B	1	09/20/2006 07:05	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	09/20/2006 07:05	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	09/20/2006 07:05	Eric L Eby	1
07055	Lead	SW-846 6010B	1	09/20/2006 07:05	Eric L Eby	1
07066	Silver	SW-846 6010B	1	09/20/2006 07:05	Eric L Eby	1
01440	Alaska AK101 GRO (waters)	AK 101	1	09/20/2006 06:47	Patrick N Evans	1

Lancaster Laboratories Sample No. WW 4866489

TH-17-W-060914 Grab Water Sample

Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 15:30 by JA

Account Number: 11964

Submitted: 09/16/2006 10:05

Chevron

Reported: 10/04/2006 at 16:10

6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006

San Ramon CA 94583

ISF17

02159	BTEX, MTBE	SW-846 8021B	1	09/20/2006 06:47	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 13:28	Sarah M Snyder	5
07879	EDB in Wastewater	SW-846 8011	1	09/19/2006 22:09	Richard A Shober	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/20/2006 09:29	Mark A Clark	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	09/21/2006 06:47	Stephanie A Selis	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/20/2006 06:47	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/21/2006 06:47	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/19/2006 19:49	James L Mertz	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 05:30	Tracy L Schickel	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/20/2006 20:15	Nelli S Markaryan	1
07786	EDB Extraction	SW-846 8011	1	09/18/2006 20:30	Kerrie A Greenfield	1
07807	BNA Water Extraction	SW-846 3510C	1	09/19/2006 02:00	David V Hershey Jr	1

Lancaster Laboratories Sample No. WW 4866490
TH-13-W-060914 Grab Water Sample
Facility# 1001430
418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 16:45 by JA

Account Number: 11964

Submitted: 09/16/2006 10:05

Reported: 10/04/2006 at 16:10

Discard: 11/04/2006

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISF13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
00259	Mercury	7439-97-6	N.D.	0.056		ug/l	1
07035	Arsenic	7440-38-2	15.6	10.		ug/l	1
07036	Selenium	7782-49-2	N.D.	9.4		ug/l	1
07046	Barium	7440-39-3	258.	0.62		ug/l	1
07049	Cadmium	7440-43-9	N.D.	0.91		ug/l	1
07051	Chromium	7440-47-3	N.D.	2.3		ug/l	1
07055	Lead	7439-92-1	N.D.	6.9		ug/l	1
07066	Silver	7440-22-4	N.D.	1.6		ug/l	1
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	440.	10.		ug/l	1
02159	BTEX, MTBE						
02161	Benzene	71-43-2	59.	0.5		ug/l	1
02164	Toluene	108-88-3	0.6	0.5		ug/l	1
02166	Ethylbenzene	100-41-4	4.4	0.5		ug/l	1
02171	Total Xylenes	1330-20-7	12.	1.5		ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5		ug/l	1
02923	TPH-DRO/RRO (AK) water						
02943	C10-<C25 DRO	n.a.	2,500.	99.		ug/l	5
02946	C25-C36 RRO	n.a.	110.	99.		ug/l	5
07879	EDB in Wastewater						
01087	Ethylene dibromide	106-93-4	N.D.	0.0095		ug/l	1
07805	PAHs in Water by GC/MS						
03947	Naphthalene	91-20-3	3.	1.		ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.		ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.		ug/l	1
03956	Fluorene	86-73-7	N.D.	1.		ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.		ug/l	1
03964	Anthracene	120-12-7	N.D.	1.		ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.		ug/l	1
03967	Pyrene	129-00-0	N.D.	1.		ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.		ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4866490

TH-13-W-060914 Grab Water Sample

Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 16:45 by JA

Account Number: 11964

Submitted: 09/16/2006 10:05

Reported: 10/04/2006 at 16:10

Discard: 11/04/2006

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISF13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
03971	Chrysene	218-01-9	N.D.	Detection Limit	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	ug/l	1
05382	EPA SW846/8260 (water)					
05393	1,1-Dichloroethane	75-34-3	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
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
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
00259	Mercury	SW-846 7470A	1	09/21/2006 07:38	Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	09/20/2006 07:09	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	09/20/2006 07:09	Eric L Eby	1
07046	Barium	SW-846 6010B	1	09/20/2006 07:09	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	09/20/2006 07:09	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	09/20/2006 07:09	Eric L Eby	1
07055	Lead	SW-846 6010B	1	09/20/2006 07:09	Eric L Eby	1
07066	Silver	SW-846 6010B	1	09/20/2006 07:09	Eric L Eby	1
01440	Alaska AK101 GRO (waters)	AK 101	1	09/20/2006 07:20	Patrick N Evans	1
02159	BTEX, MTBE	SW-846 8021B	1	09/20/2006 07:20	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 13:53	Sarah M Snyder	5
07879	EDB in Wastewater	SW-846 8011	1	09/19/2006 23:08	Richard A Shoiber	1

Lancaster Laboratories Sample No. WW 4866490

TH-13-W-060914 Grab Water Sample

Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 16:45 by JA

Account Number: 11964

Submitted: 09/16/2006 10:05

Chevron

Reported: 10/04/2006 at 16:10

6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006

San Ramon CA 94583

ISF13

07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/20/2006 09:50	Mark A Clark	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	09/21/2006 07:12	Stephanie A Selis	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/20/2006 07:20	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/21/2006 07:12	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/19/2006 19:49	James L Mertz	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 05:30	Tracy L Schickel	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/20/2006 20:15	Nelli S Markaryan	1
07786	EDB Extraction	SW-846 8011	1	09/18/2006 20:30	Kerrie A Greenfield	1
07807	BNA Water Extraction	SW-846 3510C	1	09/19/2006 02:00	David V Hershey Jr	1



Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. WW 4866491

TH-2-W-060914 Grab Water Sample

Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 17:45 by JA

Account Number: 11964

Submitted: 09/16/2006 10:05

Chevron

Reported: 10/04/2006 at 16:10

6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006

San Ramon CA 94583

ISF02

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.	25,000.	200.	ug/l	20
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	38,000.	5,000.	ug/l	250
02946	C25-C36 RRO	n.a.	44,000.	5,000.	ug/l	250
05879	BTEX					
02161	Benzene	71-43-2	560.	10.	ug/l	20
02164	Toluene	108-88-3	630.	10.	ug/l	20
02166	Ethylbenzene	100-41-4	1,000.	10.	ug/l	20
02171	Total Xylenes	1330-20-7	5,800.	30.	ug/l	20

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	09/20/2006 07:53	Patrick N Evans	20
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	10/03/2006 16:41	Sarah M Snyder	250
05879	BTEX	SW-846 8021B	1	09/20/2006 07:53	Patrick N Evans	20
01146	GC VOA Water Prep	SW-846 5030B	1	09/20/2006 07:53	Patrick N Evans	20
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 05:30	Tracy L Schickel	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4866492

QA-T-060913 Water Sample
 Facility# 1001430
 418 Illinois St. - Fairbanks, AK
 Collected: 09/13/2006 08:00

Account Number: 11964

Submitted: 09/16/2006 10:05
 Reported: 10/04/2006 at 16:10
 Discard: 11/04/2006

Chevron
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

ISFQA

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.	N.D.	10.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
07879	EDB in Wastewater					
01087	Ethylene dibromide	106-93-4	N.D.	0.0098	ug/l	1
05382	EPA SW846/8260 (water)					
05393	1,1-Dichloroethane	75-34-3	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
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
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/19/2006 22:56	Patrick N Evans	1
05879	BTEX	SW-846 8021B	1	09/19/2006 22:56	Patrick N Evans	1
07879	EDB in Wastewater	SW-846 8011	1	09/20/2006 00:08	Richard A Shober	1

Lancaster Laboratories Sample No. WW 4866492

QA-T-060913 Water Sample

Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/13/2006 08:00

Account Number: 11964

Submitted: 09/16/2006 10:05

Chevron

Reported: 10/04/2006 at 16:10

6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006

San Ramon CA 94583

ISFQA

05382	EPA SW846/8260 (water)	SW-846 8260B	1	09/21/2006 07:35	Stephanie A Selis	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/19/2006 22:56	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/21/2006 07:35	Stephanie A Selis	1
07786	EDB Extraction	SW-846 8011	1	09/18/2006 20:30	Kerrie A Greenfield	1

Quality Control Summary

 Client Name: Chevron
 Reported: 10/04/06 at 04:10 PM

Group Number: 1005961

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: 062610007A	Sample number(s): 4866489-4866490,4866492							
Ethylene dibromide	N.D.	0.010	ug/l	117	117	60-140	0	20
Batch number: 06261WAF026	Sample number(s): 4866489-4866490							
Naphthalene	N.D.	1.	ug/l	83	82	68-108	1	30
Acenaphthylene	N.D.	1.	ug/l	100	104	76-117	4	30
Acenaphthene	N.D.	1.	ug/l	93	96	68-111	3	30
Fluorene	N.D.	1.	ug/l	95	98	75-111	3	30
Phenanthrene	N.D.	1.	ug/l	99	100	68-111	1	30
Anthracene	N.D.	1.	ug/l	97	96	68-108	1	30
Fluoranthene	N.D.	1.	ug/l	102	101	66-108	1	30
Pyrene	N.D.	1.	ug/l	94	91	68-114	4	30
Benzo(a)anthracene	N.D.	1.	ug/l	89	88	71-113	1	30
Chrysene	N.D.	1.	ug/l	93	95	70-111	2	30
Benzo(b)fluoranthene	N.D.	1.	ug/l	77	85	65-122	9	30
Benzo(k)fluoranthene	N.D.	1.	ug/l	96	96	67-120	1	30
Benzo(a)pyrene	N.D.	1.	ug/l	94	100	68-121	6	30
Indeno(1,2,3-cd)pyrene	N.D.	1.	ug/l	89	93	64-125	5	30
Dibenz(a,h)anthracene	N.D.	1.	ug/l	91	96	70-131	6	30
Benzo(g,h,i)perylene	N.D.	1.	ug/l	95	100	67-126	5	30
Batch number: 062620017A	Sample number(s): 4866482-4866491							
C10-<C25 DRO	N.D.	20.	ug/l	89	79	75-125	12	20
C25-C36 RRO	N.D.	20.	ug/l	92	82	75-125	12	20
Batch number: 062621848006	Sample number(s): 4866489-4866490							
Arsenic	N.D.	0.010	mg/l	103		80-120		
Selenium	N.D.	0.0094	mg/l	97		80-120		
Barium	N.D.	0.00062	mg/l	98		90-110		
Cadmium	N.D.	0.00091	mg/l	100		90-112		
Chromium	N.D.	0.0023	mg/l	101		90-110		
Lead	N.D.	0.0069	mg/l	102		90-113		
Silver	N.D.	0.0016	mg/l	99		90-118		
Batch number: 06262A51A	Sample number(s): 4866482-4866492							
Alaska AK101 GRO (waters)	N.D.	10.	ug/l	96	99	60-120	3	20
Benzene	N.D.	0.5	ug/l	108	108	86-119	0	30
Toluene	N.D.	0.5	ug/l	108	107	82-119	1	30
Ethylbenzene	N.D.	0.5	ug/l	109	108	81-119	1	30
Total Xylenes	N.D.	1.5	ug/l	110	108	82-120	2	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	104	104	82-124	0	30
Batch number: 062635713002	Sample number(s): 4866489-4866490							
Mercury	N.D.	0.00005	mg/l	105		80-120		
		6						
Batch number: W062632AA	Sample number(s): 4866489-4866490,4866492							

*- 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: 1005961

Reported: 10/04/06 at 04:10 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>
1,1-Dichloroethane	N.D.	1.	ug/l	96		83-127		
1,1,1-Trichloroethane	N.D.	0.8	ug/l	97		83-127		
Carbon Tetrachloride	N.D.	1.	ug/l	99		77-130		
1,2-Dichloroethane	N.D.	0.5	ug/l	100		77-132		
Trichloroethene	N.D.	1.	ug/l	100		87-117		
Tetrachloroethene	N.D.	0.8	ug/l	97		74-125		
1,2-Dibromoethane	N.D.	0.5	ug/l	97		81-114		

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: 062610007A Ethylene dibromide	Sample number(s): 4866489-4866490, 4866492 UNSPK: 4866489 BKG: 4866490								
	57*		65-135			N.D.	N.D.	0 (1)	30
Batch number: 062621848006	Sample number(s): 4866489-4866490 UNSPK: P867260 BKG: P867260								
Arsenic	105	104	75-125	1	20	N.D.	N.D.	-267 (1)	20
Selenium	101	102	75-125	1	20	N.D.	N.D.	143* (1)	20
Barium	98	99	75-125	1	20	0.0677	0.0686	1	20
Cadmium	98	97	83-116	1	20	N.D.	N.D.	-20 (1)	20
Chromium	99	99	81-120	1	20	N.D.	N.D.	83* (1)	20
Lead	103	102	75-125	1	20	N.D.	N.D.	40* (1)	20
Silver	101	101	75-125	0	20	N.D.	N.D.	2000* (1)	20
Batch number: 06262A51A Alaska AK101 GRO (waters)	Sample number(s): 4866482-4866492 UNSPK: 4866482, 4866483								
	107		60-120						
Benzene	119		78-131						
Toluene	115		78-129						
Ethylbenzene	114		75-133						
Total Xylenes	115		84-131						
Methyl tert-Butyl Ether	107		70-134						
Batch number: 062635713002 Mercury	Sample number(s): 4866489-4866490 UNSPK: P867038 BKG: P867038								
	108	110	80-120	2	20	0.00024	0.00024	2 (1)	20
Batch number: W062632AA	Sample number(s): 4866489-4866490, 4866492 UNSPK: P865725								
1,1-Dichloroethane	103	103	85-135	0	30				
1,1,1-Trichloroethane	107	109	81-142	2	30				
Carbon Tetrachloride	111	110	82-149	1	30				
1,2-Dichloroethane	103	101	70-143	2	30				
Trichloroethene	104	104	83-136	0	30				
Tetrachloroethene	100	100	78-133	1	30				
1,2-Dibromoethane	101	103	78-120	2	30				

Surrogate Quality Control

*- 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: 10/04/06 at 04:10 PM

Group Number: 1005961

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

 Analysis Name: EDB in Wastewater
 Batch number: 062610007A
 1,1,2,2-
 Tetrachloroethane

4866489	101
4866490	95
4866492	115
Blank	119
DUP	78
LCS	136*
LCSD	131*
MS	69

Limits: 19-164

 Analysis Name: PAHs in Water by GC/MS
 Batch number: 06261WAF026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
4866489	94	92	100
4866490	94	91	97
Blank	95	90	102
LCS	95	93	98
LCSD	94	99	98

Limits: 51-123 64-112 52-151

 Analysis Name: TPH-DRO/RRO (AK) water
 Batch number: 062620017A

	Orthoterphenyl	n-Triacontane-d62
4866482	93	90
4866483	96	92
4866484	74	94
4866485	84	93
4866486	96	97
4866487	134	95
4866488	84	90
4866489	67	84
4866490	84	94
4866491	104	88
Blank	104	109
LCS	96	106
LCSD	92	108

Limits: 50-150 50-150

 Analysis Name: Alaska AK101 GRO (waters)
 Batch number: 06262A51A

	Trifluorotoluene-F	Trifluorotoluene-P
4866482	87	99
4866483	86	100
4866484	86	98

*- 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: 10/04/06 at 04:10 PM

Group Number: 1005961

Surrogate Quality Control

4866485	88	103
4866486	85	88
4866487	89	100
4866488	92	101
4866489	91	98
4866490	90	101
4866491	87	101
4866492	85	97
Blank	84	98
LCS	89	102
LCSD	88	103
MS	91	97

Limits: 60-120 69-129

Analysis Name: EPA SW846/8260 (water)
Batch number: W062632AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4866489	90	87	91	90
4866490	90	88	90	89
4866492	91	88	90	87
Blank	90	88	91	85
LCS	90	91	91	89
MS	91	87	91	90
MSD	91	91	92	89

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 Sample #: 46486648292 For Lancaster Laboratories use only
 SCR#: 006537 32140

Facility #: <u>1001430-OML</u> Site Address: <u>418 Illinois St, Fairbanks, AK</u> Chevron PM: <u>S. Hartung-Freerichs</u> Lead Consultant: <u>BBL</u> Consultant/Office: <u>Seattle, WA</u> Consultant Prj. Mgr.: <u>Rebecca Andresen</u> Consultant Phone #: <u>(206) 325-5254</u> Fax #: <u>(206) 325-8218</u> Sampler: <u>Julie Ahern, OASIS Environmental</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____				Matrix Potable <input type="checkbox"/> NPDES <input checked="" type="checkbox"/> Water _____ Oil <input type="checkbox"/> Air <input type="checkbox"/>		Analyses Requested Preservation Codes H <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> T <input type="checkbox"/> Z 8260 <input type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> H 8260 <input type="checkbox"/> (MTBE) 8021 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> (See Comments) Oxygenates _____ TPH G _____ TPH D _____ Extended Ring <input type="checkbox"/> Silica Gel Cleanup <input type="checkbox"/> Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method _____ 8270 (PAH) _____ NWTPH HClD <input type="checkbox"/> quantification _____ 8011 (E.D.B.) _____ 6010B/7470 (RCRA Metals) _____ AK102/AK103 (DRO/RRO) _____ AK101/8021B (GRO/BTEX) _____										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy's on highest hit <input type="checkbox"/> Run ___ oxy's on all hits		
Sample Identification		Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	H	N	S	T	Z	Comments / Remarks		
TH-10-W-060913		9/13/06	1630	X		X				5						X	X	• 8260B Analytes: Carbon tetrachloride Tetrachloroethene Trichloroethene 1,2-dibromoethane 1,2-dichloroethane 1,1-dichloroethane 1,1,1-trichloroethane • RCRA Metals: Mercury by 7470 70thers by 6010B
TH-10-W-060913		9/13/06	1700	X		X				5						X	X	
MW-23-W-060913		9/13/06	1715	X		X				5						X	X	
TH-7-W-060914		9/14/06	1015	X		X				5						X	X	
TH-1-W-060914		9/14/06	1100	X		X				5						X	X	
TH-5-W-060914		9/14/06	1130	X		X				5						X	X	
TH-18-W-060914		9/14/06	1430	X		X				5						X	X	
TH-17-W-060914		9/14/06	1530	X		X				13	X	X		X	X	X	X	
TH-13-W-060914		9/14/06	1645	X		X				13	X	X		X	X	X	X	
TH-2-W-060914		9/14/06	1745	X		X				5						X	X	
QA-T-060913		9/13/06	0800	X		X				6	X					X	X	

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>8/22/06</u>	Time: <u>1145</u>	Received by: <u>[Signature]</u>	Date: <u>9/15/06</u>	Time: <u>1030</u>
Relinquished by: <u>[Signature]</u>	Date: <u>9/15/06</u>	Time: <u>1030</u>	Received by: <u>[Signature]</u>	Date: <u>9/28/06</u>	Time: <u>1500</u>
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by Commercial Carrier: <u>4 coolers</u>	UPS <input checked="" type="radio"/> FedEx Other: <u>1.2-3.2c</u>		Received by: <u>[Signature]</u>	Date: <u>9/16/06</u>	Time: <u>1005</u>
Temperature Upon Receipt: _____ C°	Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				

Lancaster Laboratories Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	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.		
>	greater than		
ppm	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.		
ppb	parts per billion		
Dry weight basis	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

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

Inorganic Qualifiers

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

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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 17605-2425SAMPLE GROUP

The sample group for this submittal is 1005608. Samples arrived at the laboratory on Thursday, September 14, 2006. The PO# for this group is 0015008342 and the release number is HARTUNG-FRERICH.

Client DescriptionLancaster Labs Number

MW-10-W-060911 Grab Water Sample	4864397
MW-10-WD-060911 Grab Water Sample	4864398
MW-8-W-060911 Grab Water Sample	4864399
MW-9-W-060911 Grab Water Sample	4864400
MW-7-W-060911 Grab Water Sample	4864401
MW-1-W-060912 Grab Water Sample	4864402
MW-5-W-060912 Grab Water Sample	4864403
MW-5-WD-060912 Grab Water Sample	4864404
AR-81-W-060912 Grab Water Sample	4864405
AR-85-W-060912 Grab Water Sample	4864406
MW-2-W-060912 Grab Water Sample	4864407
MW-4-W-060912 Grab Water Sample	4864408
MW-3-W-060912 Grab Water Sample	4864409
QA-T-060911 Water Sample	4864410

ELECTRONIC COPY TO
Oasis Environmental, Inc.
Blasland, Bouck & Lee
BBL
ELECTRONIC COPY TO

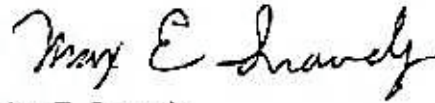
Attn: Julie Ahern

Attn: Rebecca Andresen

Attn: Barbara Orchard

Questions? Contact your Client Services Representative
Megan A Moeller at (717) 656-2300

Respectfully Submitted,



Max E. Snavelly
Senior Specialist



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 4864397

MW-10-W-060911 Grab Water Sample
Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/11/2006 16:00 by JA

Account Number: 11964

Submitted: 09/14/2006 09:15
Reported: 09/28/2006 at 13:23
Discard: 10/29/2006

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

DSF10

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.	670.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	1,300.	20.	ug/l	1
02946	C25-C36 RRO	n.a.	250.	20.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	64.	0.5	ug/l	1
02164	Toluene	108-88-3	0.8	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	0.5	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	2.7	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/16/2006 08:51	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/25/2006 03:57	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/16/2006 08:51	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/16/2006 08:51	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/15/2006 05:30	Tracy L Schickel	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 4864398

MW-10-WD-060911 Grab Water Sample

Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/11/2006 16:30 by JA

Account Number: 11964

Submitted: 09/14/2006 09:15

Chevron

Reported: 09/28/2006 at 13:23

6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006

San Ramon CA 94583

DSFDP

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.	660.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	1,200.	20.	ug/l	1
02946	C25-C36 RRO	n.a.	240.	20.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	63.	0.5	ug/l	1
02164	Toluene	108-88-3	0.8	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	0.5	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	2.7	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/16/2006 09:24	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/25/2006 04:45	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/16/2006 09:24	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/16/2006 09:24	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/15/2006 05:30	Tracy L Schickel	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 4864399

MW-8-W-060911 Grab Water Sample

Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/11/2006 16:45 by JA

Account Number: 11964

Submitted: 09/14/2006 09:15

Chevron

Reported: 09/28/2006 at 13:23

6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006

San Ramon CA 94583

DSF08

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.	3,300.	50.	ug/l	5
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	1,400.	20.	ug/l	1
02946	C25-C36 RRO	n.a.	300.	20.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	410.	2.5	ug/l	5
02164	Toluene	108-88-3	16.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	120.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	330.	7.5	ug/l	5

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	09/16/2006 14:24	Patrick N Evans	5
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/25/2006 05:10	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/16/2006 14:24	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/16/2006 14:24	Patrick N Evans	5
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/15/2006 05:30	Tracy L Schickel	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 4864400

MW-9-W-060911 Grab Water Sample

Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/11/2006 17:30 by JA

Account Number: 11964

Submitted: 09/14/2006 09:15

Chevron

Reported: 09/28/2006 at 13:23

6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006

San Ramon CA 94583

DSF09

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.	31.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	63.	20.	ug/l	1
02946	C25-C36 RRO	n.a.	40.	20.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/16/2006 13:52	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/24/2006 23:05	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/16/2006 13:52	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/16/2006 13:52	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/15/2006 05:30	Tracy L Schickel	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4864401

MW-7-W-060911 Grab Water Sample

Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/11/2006 18:15 by JA

Account Number: 11964

Submitted: 09/14/2006 09:15

Chevron

Reported: 09/28/2006 at 13:23

6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006

San Ramon CA 94583

DSF07

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.	8,100.	50.	ug/l	5
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	2,000.	98.	ug/l	5
02946	C25-C36 RRO	n.a.	N.D.	98.	ug/l	5
05879	BTEX					
02161	Benzene	71-43-2	1,800.	2.5	ug/l	5
02164	Toluene	108-88-3	9.4	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	280.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	450.	7.5	ug/l	5

Due to the nature of the sample matrix, normal reporting limits were not attained for toluene.

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	09/17/2006 00:02	Patrick N Evans	5
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 06:56	Sarah M Snyder	5
05879	BTEX	SW-846 8021B	1	09/17/2006 00:02	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/17/2006 00:02	Patrick N Evans	5
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/15/2006 05:30	Tracy L Schickel	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4864402

MW-1-W-060912 Grab Water Sample

Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 14:30 by JA

Account Number: 11964

Submitted: 09/14/2006 09:15

Reported: 09/28/2006 at 13:23

Discard: 10/29/2006

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

DSF01

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.	23.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	470.	19.	ug/l	1
02946	C25-C36 RRO	n.a.	210.	19.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/17/2006 20:32	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/24/2006 23:29	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/17/2006 20:32	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/17/2006 20:32	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/15/2006 05:30	Tracy L Schickel	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4864403

MW-5-W-060912 Grab Water Sample

Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 16:15 by JA

Account Number: 11964

Submitted: 09/14/2006 09:15

Chevron

Reported: 09/28/2006 at 13:23

6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006

San Ramon CA 94583

DSF05

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.	9,700.	50.	ug/l	5
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	2,900.	100.	ug/l	5
02946	C25-C36 RRO	n.a.	N.D.	100.	ug/l	5
05879	BTEX					
02161	Benzene	71-43-2	980.	2.5	ug/l	5
02164	Toluene	108-88-3	230.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	220.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	1,700.	7.5	ug/l	5

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	09/17/2006 21:05	Patrick N Evans	5
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 07:21	Sarah M Snyder	5
05879	BTEX	SW-846 8021B	1	09/17/2006 21:05	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/17/2006 21:05	Patrick N Evans	5
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/15/2006 05:30	Tracy L Schickel	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4864404

MW-5-WD-060912 Grab Water Sample

Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 16:30 by JA

Account Number: 11964

Submitted: 09/14/2006 09:15

Chevron

Reported: 09/28/2006 at 13:23

6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006

San Ramon CA 94583

DSF5D

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.	9,500.	50.	ug/l	5
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	3,000.	200.	ug/l	10
02946	C25-C36 RRO	n.a.	N.D.	200.	ug/l	10
05879	BTEX					
02161	Benzene	71-43-2	980.	2.5	ug/l	5
02164	Toluene	108-88-3	220.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	210.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	1,600.	7.5	ug/l	5

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	09/17/2006 21:37	Patrick N Evans	5
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 07:45	Sarah M Snyder	10
05879	BTEX	SW-846 8021B	1	09/17/2006 21:37	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/17/2006 21:37	Patrick N Evans	5
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/15/2006 05:30	Tracy L Schickel	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4864405

AR-81-W-060912 Grab Water Sample

Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 14:15 by JA

Account Number: 11964

Submitted: 09/14/2006 09:15

Chevron

Reported: 09/28/2006 at 13:23

6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006

San Ramon CA 94583

DSF81

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.	100.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	900.	19.	ug/l	1
02946	C25-C36 RRO	n.a.	310.	19.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	0.7	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/17/2006 19:22	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/25/2006 05:58	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/17/2006 19:22	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/17/2006 19:22	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/15/2006 05:30	Tracy L Schickel	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4864406

AR-85-W-060912 Grab Water Sample

Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 15:15 by JA

Account Number: 11964

Submitted: 09/14/2006 09:15

Chevron

Reported: 09/28/2006 at 13:23

6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006

San Ramon CA 94583

DSF85

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.	N.D.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	480.	20.	ug/l	1
02946	C25-C36 RRO	n.a.	200.	20.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/17/2006 19:55	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/25/2006 00:18	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/17/2006 19:55	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/17/2006 19:55	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/15/2006 05:30	Tracy L Schickel	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4864407

MW-2-W-060912 Grab Water Sample

Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 16:55 by JA

Account Number: 11964

Submitted: 09/14/2006 09:15

Chevron

Reported: 09/28/2006 at 13:23

6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006

San Ramon CA 94583

DSF02

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.	8,000.	50.	ug/l	5
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	22,000.	500.	ug/l	25
02946	C25-C36 RRO	n.a.	N.D.	500.	ug/l	25
05879	BTEX					
02161	Benzene	71-43-2	710.	2.5	ug/l	5
02164	Toluene	108-88-3	350.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	280.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	1,300.	7.5	ug/l	5

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	09/17/2006 22:10	Patrick N Evans	5
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 08:34	Sarah M Snyder	25
05879	BTEX	SW-846 8021B	1	09/17/2006 22:10	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/17/2006 22:10	Patrick N Evans	5
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/15/2006 05:30	Tracy L Schickel	1

Lancaster Laboratories Sample No. WW 4864408
MW-4-W-060912 Grab Water Sample
Facility# 211815
401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 17:45 by JA

Account Number: 11964

Submitted: 09/14/2006 09:15

Reported: 09/28/2006 at 13:23

Discard: 10/29/2006

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

DSF04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
00259	Mercury	7439-97-6	N.D.	0.056		ug/l	1
07035	Arsenic	7440-38-2	25.8	10.		ug/l	1
07036	Selenium	7782-49-2	N.D.	9.4		ug/l	1
07046	Barium	7440-39-3	526.	0.62		ug/l	1
07049	Cadmium	7440-43-9	2.3	0.91		ug/l	1
07051	Chromium	7440-47-3	8.5	2.3		ug/l	1
07055	Lead	7439-92-1	37.8	6.9		ug/l	1
07066	Silver	7440-22-4	N.D.	1.6		ug/l	1
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	64,000.	500.		ug/l	50
02159	BTEX, MTBE						
02161	Benzene	71-43-2	3,300.	25.		ug/l	50
02164	Toluene	108-88-3	8,200.	25.		ug/l	50
02166	Ethylbenzene	100-41-4	1,400.	25.		ug/l	50
02171	Total Xylenes	1330-20-7	9,600.	75.		ug/l	50
02172	Methyl tert-Butyl Ether	1634-04-4	220.	130.		ug/l	50
02923	TPH-DRO/RRO (AK) water						
02943	C10-<C25 DRO	n.a.	26,000.	980.		ug/l	50
02946	C25-C36 RRO	n.a.	N.D.	980.		ug/l	50
07879	EDB in Wastewater						
01087	Ethylene dibromide	106-93-4	0.039	0.0096		ug/l	1
07805	PAHs in Water by GC/MS						
03947	Naphthalene	91-20-3	400.	5.		ug/l	5
03951	Acenaphthylene	208-96-8	3.	1.		ug/l	1
03954	Acenaphthene	83-32-9	4.	1.		ug/l	1
03956	Fluorene	86-73-7	12.	1.		ug/l	1
03963	Phenanthrene	85-01-8	16.	1.		ug/l	1
03964	Anthracene	120-12-7	N.D.	1.		ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.		ug/l	1
03967	Pyrene	129-00-0	N.D.	1.		ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.		ug/l	1

Lancaster Laboratories Sample No. WW 4864408
MW-4-W-060912 Grab Water Sample
Facility# 211815
401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 17:45 by JA

Account Number: 11964

Submitted: 09/14/2006 09:15

Chevron

Reported: 09/28/2006 at 13:23

6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006

San Ramon CA 94583

DSF04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
03971	Chrysene	218-01-9	N.D.	1.	1.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	1.	ug/l	1
Surrogate recoveries were outside of QC limits for the GC/MS semivolatiles compounds. The analysis was repeated outside of the required hold time and surrogate recoveries met requirements. The data reported is from the initial extraction of the sample.							
05382	EPA SW846/8260 (water)						
05393	1,1-Dichloroethane	75-34-3	N.D.	5.	5.	ug/l	5
05398	1,1,1-Trichloroethane	71-55-6	N.D.	4.	4.	ug/l	5
05399	Carbon Tetrachloride	56-23-5	N.D.	5.	5.	ug/l	5
05402	1,2-Dichloroethane	107-06-2	N.D.	3.	3.	ug/l	5
05403	Trichloroethene	79-01-6	N.D.	5.	5.	ug/l	5
05409	Tetrachloroethene	127-18-4	N.D.	4.	4.	ug/l	5
05412	1,2-Dibromoethane	106-93-4	N.D.	3.	3.	ug/l	5

The reporting limits for the GC/MS volatile compounds were raised due to the level of non-target compounds.

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			
00259	Mercury	SW-846 7470A	1	09/18/2006 08:26		Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	09/19/2006 04:46		Eric L Eby	1
07036	Selenium	SW-846 6010B	1	09/19/2006 04:46		Eric L Eby	1
07046	Barium	SW-846 6010B	1	09/19/2006 04:46		Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	09/19/2006 04:46		Eric L Eby	1
07051	Chromium	SW-846 6010B	1	09/19/2006 04:46		Eric L Eby	1

Lancaster Laboratories Sample No. WW 4864408

MW-4-W-060912 Grab Water Sample

Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 17:45 by JA

Account Number: 11964

Submitted: 09/14/2006 09:15

Chevron

Reported: 09/28/2006 at 13:23

6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006

San Ramon CA 94583

DSF04

07055	Lead	SW-846 6010B	1	09/19/2006 04:46	Eric L Eby	1
07066	Silver	SW-846 6010B	1	09/19/2006 04:46	Eric L Eby	1
01440	Alaska AK101 GRO (waters)	AK 101	1	09/17/2006 22:43	Patrick N Evans	50
02159	BTEX, MTBE	SW-846 8021B	1	09/17/2006 22:43	Patrick N Evans	50
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 09:46	Sarah M Snyder	50
07879	EDB in Wastewater	SW-846 8011	1	09/18/2006 18:23	Richard A Shober	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/19/2006 05:41	Gregory J Drahovsky	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/19/2006 10:33	Joseph M Gambler	5
05382	EPA SW846/8260 (water)	SW-846 8260B	1	09/20/2006 12:21	Anita M Dale	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/17/2006 22:43	Patrick N Evans	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/20/2006 12:21	Anita M Dale	5
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/17/2006 19:47	James L Mertz	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/15/2006 05:30	Tracy L Schickel	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/15/2006 12:30	Damary Valentin	1
07786	EDB Extraction	SW-846 8011	1	09/16/2006 12:00	Deborah M Zimmerman	1
07807	BNA Water Extraction	SW-846 3510C	1	09/16/2006 02:00	David V Hershey Jr	1

Lancaster Laboratories Sample No. WW 4864409
MW-3-W-060912 Grab Water Sample
Facility# 211815
401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 18:30 by JA

Account Number: 11964

Submitted: 09/14/2006 09:15

Reported: 09/28/2006 at 13:24

Discard: 10/29/2006

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

DSF03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
00259	Mercury	7439-97-6	N.D.	0.056		ug/l	1
07035	Arsenic	7440-38-2	27.3	10.		ug/l	1
07036	Selenium	7782-49-2	N.D.	9.4		ug/l	1
07046	Barium	7440-39-3	560.	0.62		ug/l	1
07049	Cadmium	7440-43-9	2.5	0.91		ug/l	1
07051	Chromium	7440-47-3	9.9	2.3		ug/l	1
07055	Lead	7439-92-1	13.0	6.9		ug/l	1
07066	Silver	7440-22-4	1.7	1.6		ug/l	1
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	19,000.	100.		ug/l	10
02159	BTEX, MTBE						
02161	Benzene	71-43-2	1,400.	5.0		ug/l	10
02164	Toluene	108-88-3	1,000.	5.0		ug/l	10
02166	Ethylbenzene	100-41-4	520.	5.0		ug/l	10
02171	Total Xylenes	1330-20-7	3,200.	15.		ug/l	10
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	25.		ug/l	10
02923	TPH-DRO/RRO (AK) water						
02943	C10-<C25 DRO	n.a.	15,000.	490.		ug/l	25
02946	C25-C36 RRO	n.a.	N.D.	490.		ug/l	25
07879	EDB in Wastewater						
01087	Ethylene dibromide	106-93-4	N.D.	0.0096		ug/l	1
07805	PAHs in Water by GC/MS						
03947	Naphthalene	91-20-3	120.	5.		ug/l	5
03951	Acenaphthylene	208-96-8	N.D.	1.		ug/l	1
03954	Acenaphthene	83-32-9	2.	1.		ug/l	1
03956	Fluorene	86-73-7	3.	1.		ug/l	1
03963	Phenanthrene	85-01-8	3.	1.		ug/l	1
03964	Anthracene	120-12-7	N.D.	1.		ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.		ug/l	1
03967	Pyrene	129-00-0	N.D.	1.		ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.		ug/l	1

Lancaster Laboratories Sample No. WW 4864409
MW-3-W-060912 Grab Water Sample
Facility# 211815
401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 18:30 by JA

Account Number: 11964

Submitted: 09/14/2006 09:15

Chevron

Reported: 09/28/2006 at 13:24

6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006

San Ramon CA 94583

DSF03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
03971	Chrysene	218-01-9	N.D.	1.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	ug/l	1
05382	EPA SW846/8260 (water)					
05393	1,1-Dichloroethane	75-34-3	N.D.	5.	ug/l	5
05398	1,1,1-Trichloroethane	71-55-6	N.D.	4.	ug/l	5
05399	Carbon Tetrachloride	56-23-5	N.D.	5.	ug/l	5
05402	1,2-Dichloroethane	107-06-2	N.D.	3.	ug/l	5
05403	Trichloroethene	79-01-6	7.	5.	ug/l	5
05409	Tetrachloroethene	127-18-4	N.D.	4.	ug/l	5
05412	1,2-Dibromoethane	106-93-4	N.D.	3.	ug/l	5

The reporting limits for the GC/MS volatile compounds were raised due to the level of non-target compounds.

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		Analyst	Dilution Factor
			Trial#	Date and Time		
00259	Mercury	SW-846 7470A	1	09/19/2006 07:58	Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	09/19/2006 04:50	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	09/19/2006 04:50	Eric L Eby	1
07046	Barium	SW-846 6010B	1	09/19/2006 04:50	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	09/19/2006 04:50	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	09/19/2006 04:50	Eric L Eby	1
07055	Lead	SW-846 6010B	1	09/19/2006 04:50	Eric L Eby	1
07066	Silver	SW-846 6010B	1	09/19/2006 04:50	Eric L Eby	1
01440	Alaska AK101 GRO (waters)	AK 101	1	09/17/2006 23:16	Patrick N Evans	10
02159	BTEX, MTBE	SW-846 8021B	1	09/17/2006 23:16	Patrick N Evans	10

Lancaster Laboratories Sample No. WW 4864409

MW-3-W-060912 Grab Water Sample

Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 18:30 by JA

Account Number: 11964

Submitted: 09/14/2006 09:15

Chevron

Reported: 09/28/2006 at 13:24

6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006

San Ramon CA 94583

DSF03

02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 08:58	Sarah M Snyder	25
07879	EDB in Wastewater	SW-846 8011	1	09/18/2006 18:53	Richard A Shober	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/19/2006 11:26	Joseph M Gambler	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/20/2006 00:33	Gregory J Drahovsky	5
05382	EPA SW846/8260 (water)	SW-846 8260B	1	09/20/2006 13:10	Anita M Dale	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/17/2006 23:16	Patrick N Evans	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/20/2006 13:10	Anita M Dale	5
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/17/2006 19:47	James L Mertz	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/15/2006 05:30	Tracy L Schickel	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/18/2006 19:15	Nelli S Markaryan	1
07786	EDB Extraction	SW-846 8011	1	09/16/2006 12:00	Deborah M Zimmerman	1
07807	BNA Water Extraction	SW-846 3510C	1	09/16/2006 02:00	David V Hershey Jr	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 4864410

QA-T-060911 Water Sample
 Facility# 211815
 401 Driveway St. - Fairbanks, AK
 Collected: 09/11/2006 08:00

Account Number: 11964

Submitted: 09/14/2006 09:15
 Reported: 09/28/2006 at 13:24
 Discard: 10/29/2006

Chevron
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

DSFQA

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.	N.D.	10.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
07879	EDB in Wastewater					
01087	Ethylene dibromide	106-93-4	N.D.	0.0098	ug/l	1
05382	EPA SW846/8260 (water)					
05393	1,1-Dichloroethane	75-34-3	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
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
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	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 Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/15/2006 23:23	Patrick N Evans	1
05879	BTEX	SW-846 8021B	1	09/15/2006 23:23	Patrick N Evans	1
07879	EDB in Wastewater	SW-846 8011	1	09/18/2006 19:22	Richard A Shober	1

Lancaster Laboratories Sample No. WW 4864410

QA-T-060911 Water Sample

Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/11/2006 08:00

Account Number: 11964

Submitted: 09/14/2006 09:15

Chevron

Reported: 09/28/2006 at 13:24

6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006

San Ramon CA 94583

DSFQA

05382	EPA SW846/8260 (water)	SW-846 8260B	1	09/20/2006 11:57	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/15/2006 23:23	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/20/2006 11:57	Anita M Dale	1
07786	EDB Extraction	SW-846 8011	1	09/16/2006 12:00	Deborah M Zimmerman	1

Quality Control Summary

Client Name: Chevron

Group Number: 1005608

Reported: 09/28/06 at 01:24 PM

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: 062580001A	Sample number(s): 4864397-4864409							
C10-<C25 DRO	N.D.	20.	ug/l	89	90	75-125	2	20
C25-C36 RRO	N.D.	20.	ug/l	92	92	75-125	0	20
Batch number: 062580009A	Sample number(s): 4864408-4864410							
Ethylene dibromide	N.D.	0.010	ug/l	92	100	60-140	9	20
Batch number: 062585713001	Sample number(s): 4864408							
Mercury	N.D.	0.00005	mg/l	86		80-120		
		6						
Batch number: 06258A51A	Sample number(s): 4864397-4864398,4864410							
Alaska AK101 GRO (waters)	N.D.	10.	ug/l	100	108	60-120	7	20
Benzene	N.D.	0.5	ug/l	105	108	86-119	2	30
Toluene	N.D.	0.5	ug/l	104	103	82-119	1	30
Ethylbenzene	N.D.	0.5	ug/l	105	103	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	106	104	82-120	1	30
Batch number: 06258A51B	Sample number(s): 4864399-4864401							
Alaska AK101 GRO (waters)	N.D.	10.	ug/l	100	108	60-120	7	20
Benzene	N.D.	0.5	ug/l	105	108	86-119	2	30
Toluene	N.D.	0.5	ug/l	104	103	82-119	1	30
Ethylbenzene	N.D.	0.5	ug/l	105	103	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	106	104	82-120	1	30
Batch number: 06258WAG026	Sample number(s): 4864408-4864409							
Naphthalene	N.D.	1.	ug/l	85	85	68-108	0	30
Acenaphthylene	N.D.	1.	ug/l	98	97	76-117	1	30
Acenaphthene	N.D.	1.	ug/l	91	92	68-111	2	30
Fluorene	N.D.	1.	ug/l	91	91	75-111	0	30
Phenanthrene	N.D.	1.	ug/l	89	92	68-111	4	30
Anthracene	N.D.	1.	ug/l	86	89	68-108	3	30
Fluoranthene	N.D.	1.	ug/l	87	90	66-108	4	30
Pyrene	N.D.	1.	ug/l	95	99	68-114	4	30
Benzo(a)anthracene	N.D.	1.	ug/l	92	96	71-113	4	30
Chrysene	N.D.	1.	ug/l	90	92	70-111	2	30
Benzo(b)fluoranthene	N.D.	1.	ug/l	88	88	65-122	0	30
Benzo(k)fluoranthene	N.D.	1.	ug/l	90	94	67-120	4	30
Benzo(a)pyrene	N.D.	1.	ug/l	95	97	68-121	3	30
Indeno(1,2,3-cd)pyrene	N.D.	1.	ug/l	95	96	64-125	1	30
Dibenz(a,h)anthracene	N.D.	1.	ug/l	98	101	70-131	3	30
Benzo(g,h,i)perylene	N.D.	1.	ug/l	94	97	67-126	3	30
Batch number: 062601848001	Sample number(s): 4864408-4864409							
Arsenic	N.D.	0.010	mg/l	101		80-120		
Selenium	N.D.	0.0094	mg/l	99		80-120		
Barium	N.D.	0.00062	mg/l	97		90-110		

*- 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: 1005608

Reported: 09/28/06 at 01:24 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>
Cadmium	N.D.	0.00091	mg/l	98		90-112		
Chromium	N.D.	0.0023	mg/l	98		90-110		
Lead	N.D.	0.0069	mg/l	102		90-113		
Silver	N.D.	0.0016	mg/l	97		90-118		
Batch number: 06260A51A		Sample number(s): 4864402-4864409						
Alaska AK101 GRO (waters)	N.D.	10.	ug/l	101	107	60-120	6	20
Benzene	N.D.	0.5	ug/l	108	106	86-119	2	30
Toluene	N.D.	0.5	ug/l	104	106	82-119	2	30
Ethylbenzene	N.D.	0.5	ug/l	104	108	81-119	4	30
Total Xylenes	N.D.	1.5	ug/l	106	108	82-120	3	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	105	103	82-124	2	30
Batch number: 062615713001		Sample number(s): 4864409						
Mercury	N.D.	0.00005	mg/l	94		80-120		
		6						
Batch number: W062621AB		Sample number(s): 4864408-4864410						
1,1-Dichloroethane	N.D.	1.	ug/l	99		83-127		
1,1,1-Trichloroethane	N.D.	0.8	ug/l	101		83-127		
Carbon Tetrachloride	N.D.	1.	ug/l	100		77-130		
1,2-Dichloroethane	N.D.	0.5	ug/l	104		77-132		
Trichloroethene	N.D.	1.	ug/l	100		87-117		
Tetrachloroethene	N.D.	0.8	ug/l	95		74-125		
1,2-Dibromoethane	N.D.	0.5	ug/l	100		81-114		

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: 062580009A		Sample number(s): 4864408-4864410 UNSPK: P864792 BKG: P864791							
Ethylene dibromide	109		65-135			N.D.	N.D.	0 (1)	30
Batch number: 062585713001		Sample number(s): 4864408 UNSPK: 4864408 BKG: 4864408							
Mercury	107	106	80-120	1	20	N.D.	N.D.	228* (1)	20
Batch number: 06258A51A		Sample number(s): 4864397-4864398, 4864410 UNSPK: P864411, P864412							
Alaska AK101 GRO (waters)	115		60-120						
Benzene	110		78-131						
Toluene	111		78-129						
Ethylbenzene	112		75-133						
Total Xylenes	112		84-131						
Batch number: 06258A51B		Sample number(s): 4864399-4864401 UNSPK: P864411, P864412							
Alaska AK101 GRO (waters)	115		60-120						
Benzene	110		78-131						
Toluene	111		78-129						
Ethylbenzene	112		75-133						
Total Xylenes	112		84-131						

*- 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: 1005608

Reported: 09/28/06 at 01:24 PM

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>MSD</u>	<u>MS/MSD</u>	<u>RPD</u>	<u>RPD</u>	<u>BKG</u>	<u>DUP</u>	<u>DUP</u>	<u>Dup</u>	<u>RPD</u>
	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>Conc</u>	<u>Conc</u>	<u>RPD</u>	<u>Max</u>	
Batch number: 062601848001	Sample number(s): 4864408-4864409 UNSPK: P863448 BKG: P863448									
Arsenic	100	102	75-125	2	20	N.D.	N.D.	94*	(1)	20
Selenium	99	97	75-125	2	20	N.D.	N.D.	84*	(1)	20
Barium	98	98	75-125	0	20	0.0580	0.0591	2		20
Cadmium	98	97	83-116	0	20	N.D.	N.D.	-88	(1)	20
Chromium	97	97	81-120	0	20	N.D.	N.D.	140*	(1)	20
Lead	101	101	75-125	0	20	N.D.	N.D.	-5533		20
								(1)		
Silver	99	99	75-125	0	20	N.D.	N.D.	-138	(1)	20
Batch number: 06260A51A	Sample number(s): 4864402-4864409 UNSPK: 4864405, 4864406									
Alaska AK101 GRO (waters)	108		60-120							
Benzene	117		78-131							
Toluene	114		78-129							
Ethylbenzene	113		75-133							
Total Xylenes	114		84-131							
Methyl tert-Butyl Ether	108		70-134							
Batch number: 062615713001	Sample number(s): 4864409 UNSPK: P863833 BKG: P863833									
Mercury	105	106	80-120	1	20	N.D.	N.D.	0	(1)	20
Batch number: W062621AB	Sample number(s): 4864408-4864410 UNSPK: P862275									
1,1-Dichloroethane	105	107	85-135	1	30					
1,1,1-Trichloroethane	112	113	81-142	1	30					
Carbon Tetrachloride	114	116	82-149	2	30					
1,2-Dichloroethane	108	108	70-143	0	30					
Trichloroethene	106	109	83-136	2	30					
Tetrachloroethene	100	100	78-133	0	30					
1,2-Dibromoethane	99	99	78-120	0	30					

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-DRO/RRO (AK) water

Batch number: 062580001A

Orthoterphenyl

n-Triacontane-d62

4864397	76	100
4864398	77	103
4864399	75	100
4864400	72	68
4864401	71	92
4864402	93	100
4864403	76	95
4864404	90	97
4864405	67	90
4864406	93	98
4864407	106	101

*- 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: 09/28/06 at 01:24 PM

Group Number: 1005608

Surrogate Quality Control

4864408	109	105
4864409	104	107
Blank	100	112
LCS	98	113
LCSD	100	111

 Limits: 50-150 50-150

 Analysis Name: EDB in Wastewater
 Batch number: 062580009A
 1,1,2,2-
 Tetrachloroethane

4864408	105
4864409	145
4864410	138
Blank	123
DUP	125
LCS	128
LCSD	126
MS	131

 Limits: 19-164

 Analysis Name: Alaska AK101 GRO (waters)
 Batch number: 06258A51A

Trifluorotoluene-F	Trifluorotoluene-P
--------------------	--------------------

4864397	91	97
4864398	91	97
4864410	86	99
Blank	86	102
LCS	90	102
LCSD	88	97
MS	92	104

 Limits: 60-120 69-129

 Analysis Name: Alaska AK101 GRO (waters)
 Batch number: 06258A51B

Trifluorotoluene-F	Trifluorotoluene-P
--------------------	--------------------

4864399	91	100
4864400	86	98
4864401	89	96
Blank	87	103
LCS	90	102
LCSD	88	97
MS	92	104

 Limits: 60-120 69-129

 Analysis Name: PAHs in Water by GC/MS
 Batch number: 06258WAG026

Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
-----------------	------------------	---------------

4864408	134*	93	78
4864409	106	93	88

*- 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: 09/28/06 at 01:24 PM

Group Number: 1005608

Surrogate Quality Control

Blank	89	91	89
LCS	88	88	95
LCSD	86	90	97
Limits:	51-123	64-112	52-151

Analysis Name: Alaska AK101 GRO (waters)

Batch number: 06260A51A

	Trifluorotoluene-F	Trifluorotoluene-P
4864402	86	103
4864403	89	97
4864404	90	97
4864405	84	96
4864406	87	101
4864407	90	103
4864408	87	99
4864409	92	99
Blank	88	102
LCS	89	98
LCSD	88	102
MS	87	97
Limits:	60-120	69-129

Analysis Name: EPA SW846/8260 (water)

Batch number: W062621AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4864408	92	90	86	90
4864409	91	89	89	90
4864410	93	90	87	85
Blank	92	91	88	85
LCS	93	85	89	89
MS	93	91	90	89
MSD	92	91	89	90
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 2

Acct. #: 11964

For Lancaster Laboratories use only
Sample #: 4864397-410

SCR#: _____
C# 1005608

Facility #: <u>211815-OML</u> Site Address: <u>401 Driveway St, Fairbanks, AK</u> Chevron PM: <u>Stacie Hartung-Frenchs</u> Lead Consultant: <u>BBL</u> Consultant/Office: <u>Seattle, WA</u> Consultant Prj. Mgr.: <u>Rebecca Andresen</u> Consultant Phone #: <u>(206) 325-5254</u> Fax #: <u>(206) 325-8218</u> Sampler: <u>Julse Ahern, OASIS Environmental</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____				Matrix Potable <input type="checkbox"/> NPDES <input checked="" type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/>		Analyses Requested Preservation Codes <input type="checkbox"/> BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> <input type="checkbox"/> 8260 full scan <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH G <input type="checkbox"/> TPH D <input type="checkbox"/> Extended Rng. <input type="checkbox"/> Silica Gel Cleanup <input type="checkbox"/> Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method VPH/EPH NWT/PH HClID <input type="checkbox"/> quantification AK102/AK103 (DRO/RRO) <input checked="" type="checkbox"/> AK101/8021B (GRO/BTEX) <input checked="" type="checkbox"/>										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy's on highest hit <input type="checkbox"/> Run ___ oxy's on all hits							
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8021	8260 full scan	Oxygenates	TPH G	TPH D	Extended Rng. Silica Gel Cleanup	Lead Total	Diss. Method	VPH/EPH	NWT/PH HClID quantification	AK102/AK103 (DRO/RRO)	AK101/8021B (GRO/BTEX)	Comments / Remarks	
MW-10-W-060911	9/11/06	1600	X			X			5												X	X	
MW-10-WD-060911	9/11/06	1630	X			X			5												X	X	
MW-8-W-060911	9/11/06	1645	X			X			5												X	X	
MW-9-W-060911	9/11/06	1730	X			X			5												X	X	
MW-7-W-060911	9/11/06	1815	X			X			5												X	X	
MW-1-W-060912	9/12/06	1430	X			X			5												X	X	
MW-5-W-060912	9/12/06	1615	X			X			5												X	X	
MW-5-WD-060912	9/12/06	1630	X			X			5												X	X	
AR-81-W-060912	9/12/06	1415	X			X			5												X	X	
AR-85-W-060912	9/12/06	1515	X			X			5												X	X	
Continued on Page 2																							
Turnaround Time Requested (TAT) (please circle) <input checked="" type="checkbox"/> STD. TAT 72 hour 48 hour 24 hour 4 day 5 day			Relinquished by: <u>[Signature]</u> Date: <u>9/13/06</u> Time: <u>1100</u>		Received by: _____ Date: _____ Time: _____																		
Data Package Options (please circle if required) QC Summary Type I - Full Type VI (Raw Data) <input checked="" type="checkbox"/> Disk / EDD WIP (RWQCB) Standard Format Disk _____ Other.			Relinquished by: _____ Date: _____ Time: _____		Received by: _____ Date: _____ Time: _____																		
			Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx Other _____		Received by: <u>Kathy Binkley</u> Date: <u>9-14-06</u> Time: <u>0915</u>																		
			Temperature Upon Receipt <u>13°-4° C Range</u>		Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																		

Chevron Generic Analysis Request/Chain of Custody



Page 2 of 2

Acct. #: 11964 For Lancaster Laboratories use only Sample #: 4864397410 SCR#: 32138 006543

C#1005608

Facility #: <u>211815-OML</u> Site Address: <u>401 Driveway St, Fairbanks, AK</u> Chevron PM: <u>S. Hartung-Freidrichs</u> Lead Consultant: <u>BBL</u> Consultant/Office: <u>Seattle, WA</u> Consultant Prj. Mgr.: <u>Rebecca Andresen</u> Consultant Phone #: <u>(206) 325-5254</u> Fax #: <u>(206) 325-8218</u> Sampler: <u>Julie Ahern, OASIS Environmental</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____				Matrix Potable <input type="checkbox"/> NPDES <input checked="" type="checkbox"/> Water <input type="checkbox"/> <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/>		Analyses Requested										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy's on highest hit <input type="checkbox"/> Run ___ oxy's on all hits																																																																																																																									
Sample Identification				Total Number of Containers		Preservation Codes H <input type="checkbox"/> N <input type="checkbox"/> T <input type="checkbox"/> H <input type="checkbox"/> 8260 <input type="checkbox"/> See 'Comments' Oxygenates _____ TPH G _____ Extended Rng. <input type="checkbox"/> Silica Gel Cleanup <input type="checkbox"/> Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method _____ 8270 (PAH) _____ NMTPH HClID <input type="checkbox"/> quantification _____ 8011 (ED8) _____ 60108/7470 (RCRA metals) _____ AK102/AK103 (DRO/RRO) _____ AK101/8021B (GRO/STEX) _____										Comments / Remarks • 8260B Analytes: Carbon tetrachloride Tetrachloroethene Trichloroethene 1,2-dibromoethane 1,2-dichloroethane 1,1-dichloroethane 1,1,1-trichloroethane • RCRA metals: Mercury by 7470 7 others by 6010B																																																																																																																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Sample Identification</th> <th style="width: 10%;">Date Collected</th> <th style="width: 10%;">Time Collected</th> <th style="width: 5%;">Grab</th> <th style="width: 5%;">Composite</th> <th style="width: 5%;">Soil</th> <th style="width: 5%;">Water</th> <th style="width: 5%;">Oil</th> <th style="width: 5%;">Air</th> <th style="width: 5%;">Total Number of Containers</th> <th style="width: 5%;">8260</th> <th style="width: 5%;">See 'Comments'</th> <th style="width: 5%;">Oxygenates</th> <th style="width: 5%;">TPH G</th> <th style="width: 5%;">Extended Rng.</th> <th style="width: 5%;">Silica Gel Cleanup</th> <th style="width: 5%;">Lead Total</th> <th style="width: 5%;">Diss.</th> <th style="width: 5%;">Method</th> <th style="width: 5%;">8270 (PAH)</th> <th style="width: 5%;">NMTPH HClID</th> <th style="width: 5%;">quantification</th> <th style="width: 5%;">8011 (ED8)</th> <th style="width: 5%;">60108/7470 (RCRA metals)</th> <th style="width: 5%;">AK102/AK103 (DRO/RRO)</th> <th style="width: 5%;">AK101/8021B (GRO/STEX)</th> </tr> </thead> <tbody> <tr> <td>MW-2-W-060912</td> <td>9/12/06</td> <td>1655</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td>MW-4-W-060912</td> <td>9/12/06</td> <td>1745</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>13</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>MW-3-W-060912</td> <td>9/12/06</td> <td>1830</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>13</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>QA-T-060911</td> <td>9/11/06</td> <td>0800</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>6</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td></td> </tr> </tbody> </table>				Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	8260	See 'Comments'	Oxygenates	TPH G	Extended Rng.	Silica Gel Cleanup	Lead Total	Diss.	Method	8270 (PAH)	NMTPH HClID	quantification	8011 (ED8)	60108/7470 (RCRA metals)	AK102/AK103 (DRO/RRO)	AK101/8021B (GRO/STEX)	MW-2-W-060912	9/12/06	1655	X			X			5															X	X	MW-4-W-060912	9/12/06	1745	X			X			13	X	X								X			X	X	X	X	MW-3-W-060912	9/12/06	1830	X			X			13	X	X								X			X	X	X	X	QA-T-060911	9/11/06	0800	X			X			6		X											X		X		Turnaround Time Requested (TAT) (please circle) STD. TAT 72 hour 48 hour 24 hour 4 day 5 day		Relinquished by: <u>[Signature]</u> Date: <u>8/24/06</u> Time: <u>15:44</u> Received by: <u>[Signature]</u> Date: <u>9/28/06</u> Time: <u>1500</u>	
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	8260	See 'Comments'	Oxygenates	TPH G	Extended Rng.	Silica Gel Cleanup	Lead Total	Diss.	Method	8270 (PAH)	NMTPH HClID	quantification	8011 (ED8)	60108/7470 (RCRA metals)	AK102/AK103 (DRO/RRO)	AK101/8021B (GRO/STEX)																																																																																																																
MW-2-W-060912	9/12/06	1655	X			X			5															X	X																																																																																																																
MW-4-W-060912	9/12/06	1745	X			X			13	X	X								X			X	X	X	X																																																																																																																
MW-3-W-060912	9/12/06	1830	X			X			13	X	X								X			X	X	X	X																																																																																																																
QA-T-060911	9/11/06	0800	X			X			6		X											X		X																																																																																																																	
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 Commercial Carrier: UPS FedEx Other _____		Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____																																																																																																																																			
Temperature Upon Receipt <u>13-40 C</u> Ranges: _____				Received by: <u>[Signature]</u> Date: <u>9-14-06</u> Time: <u>0915</u>		Custody Seals Intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																																																																																																																																			

Lancaster Laboratories Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	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.		
>	greater than		
ppm	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.		
ppb	parts per billion		
Dry weight basis	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

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

Inorganic Qualifiers

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

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 17605-2425SAMPLE GROUP

The sample group for this submittal is 1007714. Samples arrived at the laboratory on Friday, September 29, 2006. The PO# for this group is 0015011799 and the release number is HARTUNG-FRERICH.

Client Description

K-5-W-060927 Grab Water Sample

Lancaster Labs Number

4877778

ELECTRONIC Oasis Environmental, Inc.
COPY TO
ELECTRONIC Blasland, Bouck & Lee
COPY TO
ELECTRONIC BBL
COPY TO

Attn: Julie Ahern

Attn: Rebecca Andresen

Attn: Barbara Orchard

Questions? Contact your Client Services Representative
Megan A Moeller at (717) 656-2300

Respectfully Submitted,



Elizabeth A. Smith
Senior Specialist



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 4877778

K-5-W-060927 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/27/2006 11:15 by JA

Account Number: 11964

Submitted: 09/29/2006 09:25

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

328K5

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.	610.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	17,000.	480.	ug/l	25
02946	C25-C36 RRO	n.a.	N.D.	480.	ug/l	25
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	0.5	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	5.0	ug/l	1

Due to the presence of interferents near their retention time, normal reporting limits were not attained for xylenes. The presence or concentration of these compounds cannot be determined below the reporting limits due to the presence of these interferents.

State of Alaska Lab Certification No. UST-061

Trip blank vials were not received by the laboratory for this sample group.

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		Analyst	Dilution Factor
			Trial#	Date and Time		
01440	Alaska AK101 GRO (waters)	AK 101	1	10/01/2006 19:26	Martha L Seidel	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	10/09/2006 20:33	Sarah M Snyder	25
05879	BTEX	SW-846 8021B	1	10/01/2006 19:26	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	10/01/2006 19:26	Martha L Seidel	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/30/2006 06:30	Mark P Mastropietro	1

Lancaster Laboratories Sample No. WW 4877778

K-5-W-060927 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/27/2006 11:15 by JA

Submitted: 09/29/2006 09:25

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Account Number: 11964

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

328K5

Quality Control Summary

Client Name: Chevron
Reported: 12/18/06 at 05:06 PM

Group Number: 1007714

Surrogate Quality Control

Batch number: 06274A51A

	Trifluorotoluene-F	Trifluorotoluene-P
4877778	86	94
Blank	86	97
LCS	91	103
LCSD	90	105
MS	91	97
Limits:	60-120	69-129

*- 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

For Lancaster Laboratories use only 006538
 Acct. #: 11964 Sample #: 4877778 SCR#: _____

Group # 1007714

Facility #: <u>Former Unocal 0208</u> Site Address: <u>328.5 Illinois St, Fairbanks, AK</u> Chevron PM: <u>S. Hartung-Frerichs</u> Lead Consultant: <u>BBL</u> Consultant/Office: <u>Seattle, WA</u> Consultant Prj. Mgr.: <u>Rebecca Andresen</u> Consultant Phone #: <u>(206)325-5254</u> Fax #: <u>(206)325-8218</u> Sampler: <u>Julie Ahern, OASIS Environmental</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____				Matrix Potable <input type="checkbox"/> NPDES <input checked="" type="checkbox"/> Water _____ Oil <input type="checkbox"/> Air <input type="checkbox"/>		Analyses Requested Preservation Codes Total Number of Containers: <u>5</u> BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan _____ Oxygenates _____ TPH G _____ TPH D <input type="checkbox"/> Extended Ring <input type="checkbox"/> Silica Gel Cleanup <input type="checkbox"/> Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method _____ VP/IEPH _____ NWT/PH H CID <input type="checkbox"/> quantification _____ AK103 (RRO) _____ AK102 (DRO) _____ AK101 (GRO) _____ 8021B (BTEX) _____										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy's on highest hit <input type="checkbox"/> Run ___ oxy's on all hits													
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8021	8260	Naphth	8260 full scan	Oxygenates	TPH G	TPH D	Extended Ring	Silica Gel Cleanup	Lead Total	Diss.	Method	VP/IEPH	NWT/PH H CID	quantification	AK103 (RRO)	AK102 (DRO)	AK101 (GRO)	8021B (BTEX)	Comments / Remarks
<u>K-5-W-060927</u>	<u>9/27/06</u>	<u>1115</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>5</u>															<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

Turnaround Time Requested (TAT) (please circle) (STD. TAT) 72 hour 48 hour 24 hour 4 day 5 day			Relinquished by: <u>[Signature]</u> Date: <u>9/28/06</u> Time: <u>1000</u>		Received by: _____ Date: _____ Time: _____	
Data Package Options (please circle if required) QC Summary Type I - Full Type VI (Raw Data) <u>Disk / EDD</u> WIP (RWQCB) Standard Format Disk _____ Other.			Relinquished by: _____ Date: _____ Time: _____		Received by: _____ Date: _____ Time: _____	
Relinquished by Commercial Carrier: UPS <u>FedEx</u> Other _____ Temperature Upon Receipt <u>22-28°C</u>			Received by: <u>[Signature]</u> Date: <u>9/29/06</u> Time: <u>0925</u>		Custody Seals Intact? <u>Yes</u> No	

Lancaster Laboratories Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	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.		
>	greater than		
ppm	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.		
ppb	parts per billion		
Dry weight basis	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

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

Inorganic Qualifiers

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

Attachment B

Laboratory Data Review Checklist

Submit by E-Mail

Print Form

Reset Form

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:

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:

No discrepancies.

e. Data quality or usability affected? Explain.

Comments:

NA

4. Case Narrative

a. Present and understandable?

Yes No

Comments:

Brief.

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

Yes No

Comments:

Not in narrative, in report.

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:

With exception of several PAHs, which have cleanup levels of less than or equal to 1 ppb.

e. Data quality or usability affected? Explain.

Comments:

No.

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 or project specified DQOs? (AK Petroleum methods 20%; 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 or project specified DQOs? (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 or project specified DQOs? (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes No

Comments:

With exception of the LCS and LCSD.

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

Yes No

Comments:

NA

iv. Data quality or usability affected? Explain.

Comments:

NA.

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:

One trip blank for four coolers.

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? (Reccomended: 30% water, 50% soil)

Yes No

Comments:

iv. Data quality or usability affected?

Yes No

Comments:

NA

f. Decontamination or Equipment Blank (if applicable)

Yes No Not Applicable

i. All results less than PQL?

Yes No

Comments:

ii. If above PQL, what samples are affected?

Comments:

iii. Data quality or usability affected? Explain.

Comments:

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

a. Defined and appropriate?

Yes No

Comments:

Completed by:

Title: Date:

Report Name: Report Date:

Firm: File Number:

Submit by E-Mail

Print Form

Reset Form

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:

Laboratory currently retains sample checklist, but conditions affecting samples are included in reports.

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:

No discrepancies.

e. Data quality or usability affected? Explain.

Comments:

NA

4. Case Narrative

a. Present and understandable?

Yes No

Comments:

Brief

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

Yes No

Comments:

Not in narrative, in report.

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:

With exception of several PAHs and EDB by 8260, which have cleanup levels of less than or equal to 1 ppb. Also, the reporting limit for 1,2-DCE was equal to the cleanup level.

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 or project specified DQOs? (AK Petroleum methods 20%; 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 or project specified DQOs? (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 or project specified DQOs? (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes No

Comments:

With exception of one of the surrogate recoveries for PAHs in one of the samples. Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted.

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

Yes No

Comments:

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted.

iv. Data quality or usability affected? Explain.

Comments:

No.

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:

One trip blank for all coolers.

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:

Two duplicates

ii. Submitted blind to lab?

Yes No

Comments:

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

Yes No

Comments:

iv. Data quality or usability affected?

Yes No

Comments:

No.

f. Decontamination or Equipment Blank (if applicable)

Yes No Not Applicable

i. All results less than PQL?

Yes No

Comments:

ii. If above PQL, what samples are affected?

Comments:

iii. Data quality or usability affected? Explain.

Comments:

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

a. Defined and appropriate?

Yes No

Comments:

Completed by:

Title:

Date:

Report Name:

Report Date:

Firm:

File Number:

Submit by E-Mail

Print Form

Reset Form

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:

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 ($4^{\circ} \pm 2^{\circ}$ 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:

Brief.

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

Yes No

Comments:

In report - by each result.

c. Were all corrective actions documented?

Yes No

Comments:

In report - by each result.

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:

No, the MDLs were raised due to dilution. MDLs were greater than GCLS for RRO (MW-5D, GEI-3, GEI-9, GEI-7, GEI-11) and benzene (GEI-11, GEI-2).

e. Data quality or usability affected? Explain.

Comments:

In general, the quality and usability of the data is not affected. The samples were diluted by the laboratory to prevent contamination of their instruments.

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 or project specified DQOs? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No

Comments:

The percent recovery for acenaphthylene was 121 %, which is greater than the upper limit of 117 %.

iv. Precision - All relative percent differences (RPD) reported and less than method or laboratory limits or project specified DQOs? (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:

vii. Data quality or usability affected? Explain.

Comments:

No, this compound was not detected in the samples affected.

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 or project specified DQOs? (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes No

Comments:

Three surrogate recoveries failed (two RRO/DRO, one EDB). Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted.

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

Yes No

Comments:

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted.

iv. Data quality or usability affected? Explain.

Comments:

NA

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? (Reccomended: 30% water, 50% soil)

Yes No

Comments:

All of the RPDs were within 30 %, with exception of DRO in the duplicate from MW-5, which had a RPD of approximately 59 %.

iv. Data quality or usability affected?

Yes No

Comments:

The data usability is not believed to be affected.

f. Decontamination or Equipment Blank (if applicable)

Yes No Not Applicable

i. All results less than PQL?

Yes No

Comments:

ii. If above PQL, what samples are affected?

Comments:

iii. Data quality or usability affected? Explain.

Comments:

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

a. Defined and appropriate?

Yes No

Comments:

Completed by: Barbara Orchard

Title: Project Engineer in Training

Date: Dec 21, 2006

Report Name: FAIR - 2nd Semi-annual GWM Report - Unocal 306456(lab group 1006191)

Report Date:

Firm: BBL

File Number:

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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:

Lab currently retains sample receipt form.

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:

Brief.

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

Yes No

Comments:

In report - by each result.

c. Were all corrective actions documented?

Yes No

Comments:

In report - by each result.

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:

NA

iii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits or project specified DQOs? (AK Petroleum methods 20%; 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 or project specified DQOs? (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 or project specified DQOs? (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes No

Comments:

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

Yes No

Comments:

NA

iv. Data quality or usability affected? Explain.

Comments:

NA

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:

Only one sample submitted for this report.

ii. All results less than PQL?

Yes No

Comments:

iii. If above PQL, what samples are affected?

Comments:

iv. Data quality or usability affected? Explain.

Comments:

e. Field Duplicate

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

Yes No

Comments:

Only one sample submitted for this report, no duplicate.

ii. Submitted blind to lab?

Yes No

Comments:

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

Yes No

Comments:

iv. Data quality or usability affected?

Yes No

Comments:

Completed by: Barbara Orchard

Title: Project Engineer in Training

Date: Dec 21, 2006

Report Name: FAIR - 2nd Semi-annual GWM Report - Unocal 306456 (lab group 1007714)

Report Date:

Firm: BBL

File Number:

Submit by E-Mail

Print Form

Reset Form

Attachment C

Sampling Data Sheets

GROUNDWATER SAMPLE DATA SHEET

Project Number: 44676 Sample Location (ie. MW-1): MW-23
 Project Name: Illinois and Charles Streets Sample ID (ie. MW-1-W-yymmdd): MW-23-W-060913
 Client: BBL Date Sample Collected: 9/13/2006
 Sampler: Julie Ahern Time sampled: 1715

Well Information

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 20.42
 b) Water Depth (ft): 12.73
 Other: _____ c) Water Column (ft): 7.69
 d) Calc. Purge Vol. (gal): 1.2

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 ₂	Other
1702	1.25	7.16	0.582	5.8	clear	81			light sheen
1705	2.5	7.16	0.598	5.3	clear	57			faint odor
1710	3.75	7.17	0.597	5.3	clear	54			

Total Volume Purged (Gallons): 3.75 Free Product (y/n): No
 Odor: Faint Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

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):
 Good recovery

Duplicate Sample ID: <u>None Collected</u>	Analyses Requested: <u>GRO using AK101</u> <u>BTEX using EPA 8021B</u> <u>DRO/RRO using AK102/103</u>
Split Sample ID: <u>None Collected</u>	

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: 44676 Sample Location (ie. MW-1): MW-25
 Project Name: Illinois and Charles Streets 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): 4 a) Well Depth (ft): 43.6
 b) Water Depth (ft): 17.16
 Other: SPH from 17.03' to 17.16' BTOC c) Water Column (ft): 26.44
No Sample Collected 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 ₂	Other

Total Volume Purged (Gallons): _____ Free Product (y/n): Yes

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.)

Monument cover missing

Remarks (well recovery, unusual conditions/observations):

Product noted in well during gauging

Well gauged on 9/15/06; all others gauged from 9/7 to 9/8, and so water level should not be included in gradient estimation

Duplicate Sample ID: None Collected Analyses Requested: _____
 Split Sample ID: None Collected _____

Signed: Julie Ahern Date: 10/30/2006

Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: 44676 Sample Location (ie. MW-1): TH-1
 Project Name: Illinois and Charles Streets Sample ID (ie. MW-1-W-yymmdd): TH-1-W-060914
 Client: BBL Date Sample Collected: 9/14/2006
 Sampler: Julie Ahern Time sampled: 1100

Well Information

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 23.1
 b) Water Depth (ft): 16.46
 Other: _____ c) Water Column (ft): 6.64
 d) Calc. Purge Vol. (gal): 1.1

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 ₂	Other
1039	1	6.93	0.761	5.8	clear	40			mod sheen
1041	2	7.03	0.769	5.5	clear	62			strong odor
1044	3	7.10	0.758	5.5	clear	108			

Total Volume Purged (Gallons): 3 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

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.)
 New lock placed on well monument

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

Duplicate Sample ID: <u>None Collected</u>	Analyses Requested: <u>GRO using AK101</u> <u>BTEX using EPA 8021B</u> <u>DRO/RRO using AK102/103</u>
Split Sample ID: <u>None Collected</u>	

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: 44676 Sample Location (ie. MW-1): TH-2
 Project Name: Illinois and Charles Streets Sample ID (ie. MW-1-W-yymmdd): TH-2-W-060914
 Client: BBL Date Sample Collected: 9/14/2006
 Sampler: Julie Ahern Time sampled: 1745

Well Information

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 21.58
 b) Water Depth (ft): 14.7
 Other: _____ c) Water Column (ft): 6.88
 d) Calc. Purge Vol. (gal): 1.1

Calculating Purge Volume

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

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

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

Note: assuming sand pack has 29% porosity
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 ₂	Other
1725	1.25	7.20	0.627	5.9	olive gray	479			heavy sheen
1730	2.4	7.18	0.644	5.3	olive gray	608			very strong odor
1732	3.4	7.21	0.643	5.3	olive gray	509			

Total Volume Purged (Gallons): 3.4 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

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):
 Good recovery

Duplicate Sample ID: <u>None Collected</u>	Analyses Requested: <u>GRO using AK101</u> <u>BTEX using EPA 8021B</u> <u>DRO/RRO using AK102/103</u>
Split Sample ID: <u>None Collected</u>	

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: 44676 Sample Location (ie. MW-1): TH-5
 Project Name: Illinois and Charles Streets Sample ID (ie. MW-1-W-yymmdd): TH-5-W-060914
 Client: BBL Date Sample Collected: 9/14/2006
 Sampler: Julie Ahern Time sampled: 1130

Well Information

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 22.33
 b) Water Depth (ft): 13.63
 Other: _____ c) Water Column (ft): 8.7
 d) Calc. Purge Vol. (gal): 1.4

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 ₂	Other
1113	1.5	7.24	0.582	4.8	light gray	62			heavy sheen
1118	3	7.28	0.587	4.6	gray	108			
1121	4.25	7.31	0.589	4.6	light gray	83			strong odor

Total Volume Purged (Gallons): 4.25 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

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):
 Good Recovery. Very strong odor and heavy sheen in purged water.

Duplicate Sample ID: None Collected Analyses Requested: GRO using AK101
 Split Sample ID: None Collected BTEX using EPA 8021B
DRO/RRO using AK102/103

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: 44676 Sample Location (ie. MW-1): TH-7
 Project Name: Illinois and Charles Streets Sample ID (ie. MW-1-W-yymmdd): TH-7-W-060914
 Client: BBL Date Sample Collected: 9/14/2006
 Sampler: Julie Ahern Time sampled: 1015

Well Information

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 23.5
 b) Water Depth (ft): 16.23
 Other: _____ c) Water Column (ft): 7.27
 d) Calc. Purge Vol. (gal): 1.2

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 ₂	Other
1002	1.25	6.93	0.562	5.9	orange	444			mod sheen
1007	2.5	7.09	0.539	5.5	clear	89			faint odor
1011	3.5	7.18	0.535	5.4	clear	52			

Total Volume Purged (Gallons): 3.5 Free Product (y/n): No
 Odor: Faint Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

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. Placed locking cap w/ Chevron lock (Master lock w/ 3910 key) on well

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

Duplicate Sample ID: <u>None Collected</u>	Analyses Requested: <u>GRO using AK101</u> <u>BTEX using EPA 8021B</u> <u>DRO/RRO using AK102/103</u>
Split Sample ID: <u>None Collected</u>	

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: 44676 Sample Location (ie. MW-1): TH-10
 Project Name: Illinois and Charles Streets Sample ID (ie. MW-1-W-yymmdd): TH-10-W-060913
 Client: BBL Date Sample Collected: 9/13/2006
 Sampler: Julie Ahern Time sampled: 1630

Well Information

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 23.92
 b) Water Depth (ft): 14.53
 Other: _____ c) Water Column (ft): 9.39
 d) Calc. Purge Vol. (gal): 1.5

Calculating Purge Volume

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

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

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

Note: assuming sand pack has 29% porosity
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 ₂	Other
1611	1.5	6.99	0.602	6.1	olive	138			no sheen
1615	3	7.04	0.590	5.0	clear	72			no odor
1620	4.5	7.11	0.593	4.8	clear	89			

Total Volume Purged (Gallons): 4.5 Free Product (y/n): No
 Odor: None Sheen (y/n): No

Purge Method (**disposable bailer**, teflon bailer, submersible pump, etc.)
 Dedicated Pump not working anymore. Bailed well instead.

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

Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.)
 One of three bolt holes is broken on monument and monumet cover

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

Duplicate Sample ID: <u>TH-10-WD-060913 @ 1700</u>	Analyses Requested: <u>GRO using AK101</u> <u>BTEX using EPA 8021B</u> <u>DRO/RRO using AK102/103</u>
Split Sample ID: <u>None Collected</u>	

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: 44676 Sample Location (ie. MW-1): TH-13
 Project Name: Illinois and Charles Streets Sample ID (ie. MW-1-W-yymmdd): TH-13-W-060914
 Client: BBL Date Sample Collected: 9/14/2006
 Sampler: Julie Ahern Time sampled: 1645

Well Information

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 20.60
 b) Water Depth (ft): 12.99
 Other: _____ c) Water Column (ft): 7.61
 d) Calc. Purge Vol. (gal): 1.2

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 ₂	Other
1623	1.2	7.04	0.598	7.7	clear	47			mod sheen
1631	2.2	7.11	0.609	6.8	clear	24			mod odor
1635	3.3	7.14	0.613	6.6	clear	24			

Total Volume Purged (Gallons): 3.3 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

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.)
 Difficult to remove bailer due to pvc location (directly under bolt ear of well monument); bailing process was very slow as a result.
 Will use peristaltic pump in future sampling events.
 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 & MtBE by EPA 8021B</u> <u>PAHs by 8270</u> <u>RCRA Metals by 6010/7470</u> <u>VOC by 8260B; EDB by 8011</u>
Split Sample ID: <u>None Collected</u>	

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: 44676 Sample Location (ie. MW-1): TH-17
 Project Name: Illinois and Charles Streets Sample ID (ie. MW-1-W-yymmdd): TH-17-W-060914
 Client: BBL Date Sample Collected: 9/14/2006
 Sampler: Julie Ahern Time sampled: 1530

Well Information

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 22.33
 b) Water Depth (ft): 11.93
 Other: _____ c) Water Column (ft): 10.4
 d) Calc. Purge Vol. (gal): 1.7

Calculating Purge Volume

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

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

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

Note: assuming sand pack has 29% porosity
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 ₂	Other
1509	1.75	7.18	0.614	5.7	clear	109			mod sheen
1515	3.75	7.24	0.621	4.7	clear	93			mod odor
1519	5	7.28	0.621	4.4	light gray	97			

Total Volume Purged (Gallons): 5 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

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. Placed locking cap w/ Master lock (w/ 2001 key) on well

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 & MtBE by EPA 8021B</u> <u>PAHs by 8270</u> <u>RCRA Metals by 6010/7470</u> <u>VOC by 8260B; EDB by 8011</u>
Split Sample ID: <u>None Collected</u>	

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: 44676 Sample Location (ie. MW-1): TH-18
 Project Name: Illinois and Charles Streets Sample ID (ie. MW-1-W-yymmdd): TH-18-W-060914
 Client: BBL Date Sample Collected: 9/14/2006
 Sampler: Julie Ahern Time sampled: 1430

Well Information

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 21.4
 b) Water Depth (ft): 11.53
 Other: _____ c) Water Column (ft): 9.87
 d) Calc. Purge Vol. (gal): 1.6

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 ₂	Other
1405	1.75	7.19	0.671	5.0	olive	175			no sheen
1410	3.5	7.23	0.690	4.4	beige	197			faint odor
1415	4.9	7.26	0.694	4.1	beige	242			

Total Volume Purged (Gallons): 4.9 Free Product (y/n): No
 Odor: Faint Petroleum Hydrocarbon-Like Odor Sheen (y/n): No

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. Placed locking cap w/ Chevron lock (Master lock w/ 3910 key) on well

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

Duplicate Sample ID:	<u>None Collected</u>	Analyses Requested:	<u>GRO using AK101</u>
Split Sample ID:	<u>None Collected</u>		<u>BTEX using EPA 8021B</u>
			<u>DRO/RRO using AK102/103</u>

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: 44675 Sample Location (ie. MW-1): AR-81
 Project Name: 401 Driveway Street Sample ID (ie. MW-1-W-yymmdd): AR-81-W-060912
 Client: BBL Date Sample Collected: 9/12/2006
 Sampler: Julie Ahern Time sampled: 1415

Well Information

Groundwater: X Casing Diameter (in): 4 a) Well Depth (ft): 18.59
 b) Water Depth (ft): 13.3
 Other: _____ c) Water Column (ft): 5.29
 d) Calc. Purge Vol. (gal): 3.4

Calculating Purge Volume

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

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

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

Note: assuming sand pack has 29% porosity

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 ₂	Other
1357	3.5	7.36	0.668	5.4	clear	18	Not	Not	moderate odor
1404	7	7.28	0.646	4.7	clear	23	Measured	Measured	odor
1413	10.2	7.29	0.641	4.7	clear	12			no sheen

Total Volume Purged (Gallons): 10.2 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): No

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.)
 Replaced well cap in June. An object is floating on water surface; occasionally struck something with bailer, but cannot discern object

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

Duplicate Sample ID: None Collected Analyses Requested: GRO/BTEX using AK101/8021B
 Split Sample ID: None Collected DRO/RRO using AK102/103

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: 44675 Sample Location (ie. MW-1): AR-85
 Project Name: 401 Driveway Street Sample ID (ie. MW-1-W-yymmdd): AR-85-W-060912
 Client: BBL Date Sample Collected: 9/12/2006
 Sampler: Julie Ahern Time sampled: 1515

Well Information

Groundwater: X Casing Diameter (in): 4 a) Well Depth (ft): 17.7
 b) Water Depth (ft): 13.45
 Other: _____ c) Water Column (ft): 4.25
 d) Calc. Purge Vol. (gal): 2.8

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 ₂	Other
1454	2.7	7.36	0.625	6.4	clear	34	Not	Not	faint odor
1500	5.5	7.25	0.608	5.4	clear	25	Measured	Measured	
1507	8.3	7.22	0.598	5.3	clear	11			no sheen

Total Volume Purged (Gallons): 8.3 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): No

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):
 Good recovery.

Duplicate Sample ID: None Collected Analyses Requested: GRO/BTEX using AK101/8021B
 Split Sample ID: None Collected DRO/RRO using AK102/103

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: 44675 Sample Location (ie. MW-1): MW-1
 Project Name: 401 Driveway Street Sample ID (ie. MW-1-W-yymmdd): MW-1-W-060912
 Client: BBL Date Sample Collected: 9/12/2006
 Sampler: Julie Ahern Time sampled: 1430

Well Information

Groundwater: X Casing Diameter (in): 2 " a) Well Depth (ft): 20.79
 b) Water Depth (ft): 12.47
 Other: _____ c) Water Column (ft): 8.32
 d) Calc. Purge Vol. (gal): 1.3

Calculating Purge Volume

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

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

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

Note: assuming sand pack has 29% porosity
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 ₂	Other
1315	1.25	7.20	0.625	7.3	olive	106	Not	Not	mod odor
1319	2.75	7.23	0.592	6.3	olive	50	Measured	Measured	very light sheen
1322	4	7.28	0.595	6.1	olive	63			

Total Volume Purged (Gallons): 4 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

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):
 Good recovery

Duplicate Sample ID: None Collected Analyses Requested: GRO/BTEX using AK101/8021B
 Split Sample ID: None Collected DRO/RRO using AK102/103

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: 44675 Sample Location (ie. MW-1): MW-2
 Project Name: 401 Driveway Street Sample ID (ie. MW-1-W-yymmdd): MW-2-W-060912
 Client: BBL Date Sample Collected: 9/12/2006
 Sampler: Julie Ahern Time sampled: 1655

Well Information

Groundwater: X Casing Diameter (in): 2" a) Well Depth (ft): 20.6
 b) Water Depth (ft): 13.26
 Other: _____ c) Water Column (ft): 7.34
 d) Calc. Purge Vol. (gal): 1.2

Calculating Purge Volume

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

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

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

Note: assuming sand pack has 29% porosity
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 ₂	Other
1644	1.25	6.84	0.750	6.4	light gray	310	Not	Not	strong odor
1647	2.5	6.92	0.723	5.8	light gray	276	Measured	Measured	mod sheen
1651	3.5	6.95	0.720	5.8	light gray	211			

Total Volume Purged (Gallons): 3.5 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

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):
 Good recovery

Duplicate Sample ID: None Collected Analyses Requested: GRO/BTEX using AK101/8021B
 Split Sample ID: None Collected DRO/RRO using AK102/103

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: 44675 Sample Location (ie. MW-1): MW-3
 Project Name: 401 Driveway Street Sample ID (ie. MW-1-W-yymmdd): MW-3-W-060912
 Client: BBL Date Sample Collected: 9/12/2006
 Sampler: Julie Ahern Time sampled: 1830

Well Information

Groundwater: X Casing Diameter (in): 2" a) Well Depth (ft): 19.63
 b) Water Depth (ft): 13.78
 Other: _____ c) Water Column (ft): 5.85
 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 ₂	Other
1815	1	6.99	0.785	6.2	light gray	42	Not	Not	
1820	2	6.99	0.797	5.5	light gray	113	Measured	Measured	heavy sheen
1823	3	7.00	0.791	5.3	light gray	156			strong odor

Total Volume Purged (Gallons): 3 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

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):
 Good recovery

Duplicate Sample ID: <u>None Collected</u>	Analyses Requested: <u>GRO/DRO/RRO by AK101/102/103</u> <u>BTEX & MtBE by 8021B</u> <u>RCRA Metals by 6010/7470</u> <u>VOCs by 8260B</u> <u>PAHs by 8270; EDB by 8011</u>
Split Sample ID: <u>None Collected</u>	

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: 44675 Sample Location (ie. MW-1): MW-4
 Project Name: 401 Driveway Street Sample ID (ie. MW-1-W-yymmdd): MW-4-W-060912
 Client: BBL Date Sample Collected: 9/12/2006
 Sampler: Julie Ahern Time sampled: 1745

Well Information

Groundwater: X Casing Diameter (in): 2" a) Well Depth (ft): 20.74
 b) Water Depth (ft): 13.63
 Other: _____ c) Water Column (ft): 7.11
 d) Calc. Purge Vol. (gal): 10.5

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 ₂	Other
1730	1.2	7.01	0.789	5.8	light gray	91	Not	Not	mod sheen
1734	2.4	7.06	0.800	5.1	light gray	165	Measured	Measured	very strong odor
1737	3.4	7.08	0.800	4.9	light gray	261			

Total Volume Purged (Gallons): 3.4 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

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):
 Good recovery

Duplicate Sample ID: <u>None Collected</u>	Analyses Requested: <u>GRO/DRO/RRO by AK101/102/103</u> <u>BTEX & MtBE by 8021B</u> <u>RCRA Metals by 6010/7470</u> <u>VOCs by 8260B</u> <u>PAHs by 8270; EDB by 8011</u>
Split Sample ID: <u>None Collected</u>	

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: 44675 Sample Location (ie. MW-1): MW-5
 Project Name: 401 Driveway Street Sample ID (ie. MW-1-W-yymmdd): MW-5-W-060912
 Client: BBL Date Sample Collected: 9/12/2006
 Sampler: Julie Ahern Time sampled: 1615

Well Information

Groundwater: X Casing Diameter (in): 2" a) Well Depth (ft): 20.65
 b) Water Depth (ft): 12.7
 Other: _____ c) Water Column (ft): 7.95
 d) Calc. Purge Vol. (gal): 1.3

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 ₂	Other
1600	1.25	6.96	1.03	6.5	clear	58	Not	Not	strong odor
1604	2.5	6.98	1.03	5.5	clear	45	Measured	Measured	light sheen
1609	3.75	7.01	1.03	5.6	clear	37			

Total Volume Purged (Gallons): 3.75 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

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):
 Good recovery

Duplicate Sample ID: MW-5-WD-060912 @ 1630 Analyses Requested: GRO/BTEX using AK101/8021B
 Split Sample ID: None Collected DRO/RRO using AK102/103

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: 44675 Sample Location (ie. MW-1): MW-7
 Project Name: 401 Driveway Street Sample ID (ie. MW-1-W-yymmdd): MW-7-W-060911
 Client: BBL Date Sample Collected: 9/11/2006
 Sampler: Julie Ahern Time sampled: 1815

Well Information

Groundwater: X Casing Diameter (in): 2" a) Well Depth (ft): 22.26
 b) Water Depth (ft): 14.74
 Other: _____ c) Water Column (ft): 7.52
 d) Calc. Purge Vol. (gal): 1.2

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 ₂	Other
1755	1.25	7.30	0.688	6.5	gray/olive	999	Not	Not	mod odor
1800	2.5	7.31	0.683	6.1	gray/olive	999	Measured	Measured	no sheen
1804	3.7	7.32	0.675	6.0	gray/olive	999			silty

Total Volume Purged (Gallons): 3.75 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): No

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):
 Good recovery

Split Sample ID: None Collected Analyses Requested: GRO/BTEX using AK101/8021B
None Collected DRO/RRO using AK102/103

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: 44675 Sample Location (ie. MW-1): MW-8
 Project Name: 401 Driveway Street Sample ID (ie. MW-1-W-yymmdd): MW-8-W-060911
 Client: BBL Date Sample Collected: 9/11/2006
 Sampler: Julie Ahern Time sampled: 1645

Well Information

Groundwater: X Casing Diameter (in): 2" a) Well Depth (ft): 21.78
 b) Water Depth (ft): 13.12
 Other: _____ c) Water Column (ft): 8.66
 d) Calc. Purge Vol. (gal): 1.4

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 ₂	Other
1634	1.5	7.18	0.604	5.2	gray/beige	528	Not	Not	mod odor
1639	2.75	7.07	0.610	4.5	gray/beige	495	Measured	Measured	no sheen
1642	4.25	7.12	0.594	4.3	gray/beige	439			silty

Total Volume Purged (Gallons): 4.25 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): No

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):
 Good recovery

Split Sample ID:	<u>None Collected</u>	Analyses Requested:	<u>GRO/BTEX using AK101/8021B</u>
	<u>None Collected</u>		<u>DRO/RRO using AK102/103</u>

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: 44675 Sample Location (ie. MW-1): MW-9
 Project Name: 401 Driveway Street Sample ID (ie. MW-1-W-yymmdd): MW-9-W-060911
 Client: BBL Date Sample Collected: 9/11/2006
 Sampler: Julie Ahern Time sampled: 1730

Well Information

Groundwater: X Casing Diameter (in): 2" a) Well Depth (ft): 21.69
 b) Water Depth (ft): 12.9
 Other: _____ c) Water Column (ft): 8.79
 d) Calc. Purge Vol. (gal): 1.4

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 ₂	Other
							Not	Not	no sheen
							Measured	Measured	tiny white worms
									mod odor
									silty

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

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):
 Good recovery

Split Sample ID: None Collected Analyses Requested: GRO/BTEX using AK101/8021B
None Collected DRO/RRO using AK102/103

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: 44675 Sample Location (ie. MW-1): MW-10
 Project Name: 401 Driveway Street Sample ID (ie. MW-1-W-yymmdd): MW-10-W-060911
 Client: BBL Date Sample Collected: 9/11/2006
 Sampler: Julie Ahern Time sampled: 1600

Well Information

Groundwater: X Casing Diameter (in): 2" a) Well Depth (ft): 19.83
 b) Water Depth (ft): 13.66
 Other: _____ c) Water Column (ft): 6.17
 d) Calc. Purge Vol. (gal): 1.0

Calculating Purge Volume

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

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

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

Note: assuming sand pack has 29% porosity

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 ₂	Other
1550	1	6.97	0.696	5.9	beige/gray	728	Not	Not	no sheen
1553	2	7.03	0.670	5.0	beige/gray	401	Measured	Measured	faint odor
1555	3	7.08	0.667	4.5	beige/gray	312			silty

Total Volume Purged (Gallons): 3 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): No

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):
 Good recovery

Duplicate Sample ID: MW-10-WD-060911 @ 1630 Analyses Requested: GRO/BTEX using AK101/8021B
 Split Sample ID: None Collected DRO/RRO using AK102/103

Signed: Julie Ahern Date: 10/30/2006

Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: _____ Sample Location (ie. MW-1): GEI-1
 Project Name: 328.5 Illinois Ave, Fairbanks, AK Sample ID (ie. MW-1-W-yymmdd): GEI-1-W-060917
 Client: BBL Date Sample Collected: 9/17/2006
 Sampler: Julie Ahern Time sampled: 1230

Well Information

Groundwater: X Casing Diameter (in): 2" a) Well Depth (ft): 18.54/18.49
 b) Water Depth (ft): 14.98/14.93
 Other: **Note: TOC is sloped and w/out measuring point; max and min depths were measured** c) Water Column (ft): 3.56
 d) Calc. Purge Vol. (gal): 0.6

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 ₂	Other
1214	0.7	6.93	0.649	4.8	dark gray	829	Not	Not	heavy sheen
1219	1.4	6.95	0.648	4.5	dark gray	999	Measured	Measured	very strong odor silty
1221	2	6.95	0.641	4.4	gray	999			

Total Volume Purged (Gallons): 2 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

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.)
 Placed lock on well cap

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

Duplicate Sample ID: <u>None Collected</u>	Analyses Requested: <u>GRO/DRO by AK 101/102</u> <u>BTEX by 8021B</u>
Split Sample ID: <u>None Collected</u>	

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: _____ Sample Location (ie. MW-1): GEI-2
 Project Name: 328.5 Illinois Ave, Fairbanks, AK Sample ID (ie. MW-1-W-yymmdd): GEI-2-W-060917
 Client: BBL Date Sample Collected: 9/17/2006
 Sampler: Julie Ahern Time sampled: 1415

Well Information

Groundwater: X Casing Diameter (in): 2" a) Well Depth (ft): 19.96
 b) Water Depth (ft): 15.92
 Other: _____ c) Water Column (ft): 4.04
 d) Calc. Purge Vol. (gal): 0.6

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 ₂	Other
1403	0.75	6.79	0.885	5.7	gray	386	Not	Not	heavy sheen
1405	1.4	6.81	0.871	5.1	gray	576	Measured	Measured	very strong odor
1409	2	6.83	0.858	4.9	gray	999			

Total Volume Purged (Gallons): 2 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

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.)
 Placed lock on well cap

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 & MtBE by 8021B</u> <u>RCRA Metals by 6010/7470</u> <u>VOCs by 8260B</u> <u>PAHs by 8270; EDB by 8011</u>
Split Sample ID: <u>None Collected</u>	

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: _____ Sample Location (ie. MW-1): GEI-3
 Project Name: 328.5 Illinois Ave, Fairbanks, AK Sample ID (ie. MW-1-W-yymmdd): GEI-3-W-060916
 Client: BBL Date Sample Collected: 9/16/2006
 Sampler: Julie Ahern Time sampled: 1400

Well Information

Groundwater: X Casing Diameter (in): 2" a) Well Depth (ft): 19.78
 b) Water Depth (ft): 15.35
 Other: _____ c) Water Column (ft): 4.43
 d) Calc. Purge Vol. (gal): 0.7

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 ₂	Other
1347	0.7	6.66	0.714	6.2	light gray	389	Not	Not	heavy sheen
1350	1.4	6.62	0.712	5.6	light gray	905	Measured	Measured	very strong odor
1353	2.25	6.62	0.722	5.5	light gray	999			

Total Volume Purged (Gallons): 2.25 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

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.)
 Placed lock on well cap

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

Duplicate Sample ID: <u>None Collected</u>	Analyses Requested: <u>GRO/DRO by AK 101/102</u> <u>BTEX by 8021B</u>
Split Sample ID: <u>None Collected</u>	

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: _____ Sample Location (ie. MW-1): GEI-4
 Project Name: 328.5 Illinois Ave, Fairbanks, AK Sample ID (ie. MW-1-W-yymmdd): GEI-4-W-060916
 Client: BBL Date Sample Collected: 9/16/2006
 Sampler: Julie Ahern Time sampled: 1515

Well Information

Groundwater: X Casing Diameter (in): 2" a) Well Depth (ft): 20.0/20.03
 b) Water Depth (ft): 15.58/15.61
 Other: **Note: TOC is sloped and w/out measuring point; max and min depths were measured** c) Water Column (ft): 4.42
 d) Calc. Purge Vol. (gal): 0.7

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 ₂	Other
1505	0.75	7.05	0.813	6.1	gray	311	Not	Not	mod sheen
1509	1.5	6.96	0.806	5.6	gray	845	Measured	Measured	strong odor
1511	2.2	6.96	0.805	5.6	gray	999			

Total Volume Purged (Gallons): 2.2 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

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.)
 Placed lock on well cap

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

Duplicate Sample ID: <u>None Collected</u>	Analyses Requested: <u>GRO/DRO by AK 101/102</u> <u>BTEX by 8021B</u>
Split Sample ID: <u>None Collected</u>	

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: _____ Sample Location (ie. MW-1): GEI-5
 Project Name: 328.5 Illinois Ave, Fairbanks, AK Sample ID (ie. MW-1-W-yymmdd): GEI-5-W-060916
 Client: BBL Date Sample Collected: 9/16/2006
 Sampler: Julie Ahern Time sampled: 1315

Well Information

Groundwater: X Casing Diameter (in): 2" a) Well Depth (ft): 16.19
 b) Water Depth (ft): 12.98
 Other: _____ c) Water Column (ft): 3.21
 d) Calc. Purge Vol. (gal): 0.5

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 ₂	Other
1259	0.6	6.56	0.650	7.6	dark gray	523	Not	Not	heavy sheen
1301	1	6.55	0.663	7.0	dark gray	424	Measured	Measured	very strong odor
1303	1.6	6.61	0.660	6.8	dark gray	265			

Total Volume Purged (Gallons): 1.6 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

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.)
 Placed lock on well cap

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

Duplicate Sample ID: <u>None Collected</u>	Analyses Requested: <u>GRO/DRO by AK 101/102</u> <u>BTEX by 8021B</u>
Split Sample ID: <u>None Collected</u>	

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: _____ Sample Location (ie. MW-1): GEI-6
 Project Name: 328.5 Illinois Ave, Fairbanks, AK Sample ID (ie. MW-1-W-yymmdd): GEI-6-W-060916
 Client: BBL Date Sample Collected: 9/16/2006
 Sampler: Julie Ahern Time sampled: 1230

Well Information

Groundwater: X Casing Diameter (in): 2" a) Well Depth (ft): 17.24
 b) Water Depth (ft): 12.82
 Other: _____ c) Water Column (ft): 4.42
 d) Calc. Purge Vol. (gal): 0.7

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 ₂	Other
1222	0.75	6.37	0.632	7.1	gray	285	Not	Not	no sheen
1225	1.5	6.44	0.626	6.5	gray	288	Measured	Measured	no odor
1227	2.2	6.52	0.632	6.4	gray	260			silty

Total Volume Purged (Gallons): 2.2 Free Product (y/n): No
 Odor: None detected Sheen (y/n): No

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.)
 Placed lock on well cap

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

Duplicate Sample ID: <u>None Collected</u>	Analyses Requested: <u>GRO/DRO by AK 101/102</u> <u>BTEX by 8021B</u>
Split Sample ID: <u>None Collected</u>	

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: _____ Sample Location (ie. MW-1): GEI-7
 Project Name: 328.5 Illinois Ave, Fairbanks, AK Sample ID (ie. MW-1-W-yymmdd): GEI-7-W-060917
 Client: BBL Date Sample Collected: 9/17/2006
 Sampler: Julie Ahern Time sampled: 1150

Well Information

Groundwater: X Casing Diameter (in): 2" a) Well Depth (ft): 19.09
 b) Water Depth (ft): 15.27
 Other: _____ c) Water Column (ft): 3.82
 d) Calc. Purge Vol. (gal): 0.6

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 ₂	Other
1139	0.7	6.65	0.807	6.3	dark gray	878	Not	Not	mod sheen
1142	1.4	6.86	0.828	5.8	dark gray	999	Measured	Measured	
1144	1.8	6.90	0.836	5.6	dark gray	999			strong odor silty

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

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.)
 Placed lock on well cap

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

Duplicate Sample ID: None Collected Analyses Requested: GRO/DRO by AK 101/102
 Split Sample ID: None Collected BTEX by 8021B

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: _____ Sample Location (ie. MW-1): GEI-8
 Project Name: 328.5 Illinois Ave, Fairbanks, AK Sample ID (ie. MW-1-W-yymmdd): GEI-8-W-060916
 Client: BBL Date Sample Collected: 9/16/2006
 Sampler: Julie Ahern Time sampled: 1600

Well Information

Groundwater: X Casing Diameter (in): 2" a) Well Depth (ft): 19.42/19.40
 b) Water Depth (ft): 15.92/15.90
 Other: **Note: TOC is sloped and w/out measuring point; max and min depths were measured** c) Water Column (ft): 3.5
 d) Calc. Purge Vol. (gal): 0.6

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 ₂	Other
1547	0.75	6.94	0.729	7.3	gray	615	Not	Not	mod sheen
1550	1.25	6.92	0.759	6.8	gray	571	Measured	Measured	strong odor
1552	1.75	6.90	0.758	6.7	gray	624			

Total Volume Purged (Gallons): 1.75 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

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.)
 Placed lock on well cap

Remarks (well recovery, unusual conditions/observations):

Well not located and gauged till 9/16/06; as such, water level should not be used in gradient estimation

Duplicate Sample ID: <u>None Collected</u>	Analyses Requested: <u>GRO/DRO by AK 101/102</u> <u>BTEX by 8021B</u>
Split Sample ID: <u>None Collected</u>	

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: _____ Sample Location (ie. MW-1): GEI-9
 Project Name: 328.5 Illinois Ave, Fairbanks, AK Sample ID (ie. MW-1-W-yymmdd): GEI-9-W-060916
 Client: BBL Date Sample Collected: 9/16/2006
 Sampler: Julie Ahern Time sampled: 1445

Well Information

Groundwater: X Casing Diameter (in): 4 a) Well Depth (ft): 18.74
 b) Water Depth (ft): 15.37
 Other: _____ c) Water Column (ft): 3.37
 d) Calc. Purge Vol. (gal): 0.5

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 ₂	Other
1425	0.6	6.72	1.06	6.3	gray	403	Not	Not	very strong odor
1429	1.1	6.75	1.06	5.8	gray	556	Measured	Measured	odor
1431	1.6	6.79	1.04	5.7	gray	466			mod sheen

Total Volume Purged (Gallons): 1.6 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

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.)
 Placed lock on well cap

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

Duplicate Sample ID: None Collected Analyses Requested: GRO/DRO by AK 101/102
 Split Sample ID: None Collected BTEX by 8021B

Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: _____ Sample Location (ie. MW-1): GEI-10
 Project Name: 328.5 Illinois Ave, Fairbanks, AK Sample ID (ie. MW-1-W-yymmdd): GEI-10-W-060916
 Client: BBL Date Sample Collected: 9/16/2006
 Sampler: Julie Ahern Time sampled: 1730

Well Information

Groundwater: X Casing Diameter (in): 4 a) Well Depth (ft): 19.46
 b) Water Depth (ft): 14.29
 Other: _____ c) Water Column (ft): 5.17
 d) Calc. Purge Vol. (gal): 0.8

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 ₂	Other
1715	1	6.55	0.314	7.3	light gray	138	Not	Not	strong odor
1717	1.75	6.50	0.299	6.9	light gray	146	Measured	Measured	
1720	2.75	6.45	0.288	6.9	light gray	240			mod sheen

Total Volume Purged (Gallons): 2.75 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): No

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.)
 Placed lock on well cap

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

Duplicate Sample ID: GEI-10-WD-060916 @ 1745 Analyses Requested: GRO/DRO by AK 101/102
 Split Sample ID: None Collected BTEX by 8021B

Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: _____ Sample Location (ie. MW-1): GEI-11
 Project Name: 328.5 Illinois Ave, Fairbanks, AK Sample ID (ie. MW-1-W-yymmdd): GEI-11-W-060917
 Client: BBL Date Sample Collected: 9/17/2006
 Sampler: Julie Ahern Time sampled: 1300

Well Information

Groundwater: X Casing Diameter (in): 4 a) Well Depth (ft): 19.74/19.75
 b) Water Depth (ft): 14.90/14.91
 Other: Note: TOC is sloped and w/out measuring point; max and min depths were measured c) Water Column (ft): 4.84
 d) Calc. Purge Vol. (gal): 0.8

Calculating Purge Volume

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

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

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

Note: assuming sand pack has 29% porosity
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 ₂	Other
1250	0.75	6.79	0.95	6.1	gray	702	Not	Not	very strong odor
1253	1.5	6.82	0.97	5.7	gray	999	Measured	Measured	odor
1255	2.25	6.87	0.96	5.5	gray	999			heavy sheen
									silty

Total Volume Purged (Gallons): 2.25 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): No

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.)
 Placed lock on well cap

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>
Split Sample ID:	<u>None Collected</u>		<u>BTEX & MtBE by 8021B</u>
			<u>RCRA Metals by 6010/7470</u>
			<u>VOCs by 8260B</u>
			<u>PAHs by 8270; EDB by 8011</u>

GROUNDWATER SAMPLE DATA SHEET

Project Number: _____ Sample Location (ie. MW-1): GEI-12
 Project Name: 328.5 Illinois Ave, Fairbanks, AK Sample ID (ie. MW-1-W-yymmdd): GEI-12-W-060916
 Client: BBL Date Sample Collected: 9/16/2006
 Sampler: Julie Ahern Time sampled: 1815

Well Information

Groundwater: X Casing Diameter (in): 2 " a) Well Depth (ft): 19.64/19.66
 b) Water Depth (ft): 14.59/14..61
 Other: Note: TOC is sloped and w/out measuring point; max and min depths were measured c) Water Column (ft): 5.05
 d) Calc. Purge Vol. (gal): 0.8

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 ₂	Other
1800	1	6.85	0.520	4.2	gray	321	Not	Not	mod sheen
1803	1.75	6.88	0.510	3.5	gray	385	Measured	Measured	
1805	2.7	6.88	0.510	3.3	gray	349			strong odor

Total Volume Purged (Gallons): 2.7 Free Product (y/n): No

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

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.)

Placed lock on well cap

Remarks (well recovery, unusual conditions/observations):

Good recovery

Duplicate Sample ID: None Collected Analyses Requested: GRO/BTEX using AK101/8021B
 Split Sample ID: None Collected DRO/RRO using AK102/103

GROUNDWATER SAMPLE DATA SHEET

Project Number: _____ Sample Location (ie. MW-1): MW-2
 Project Name: 328.5 Illinois Ave, Fairbanks, AK Sample ID (ie. MW-1-W-yymmdd): MW-2-W-060915
 Client: BBL Date Sample Collected: 9/15/2006
 Sampler: Julie Ahern Time sampled: 1710

Well Information

Groundwater: X Casing Diameter (in): 2" a) Well Depth (ft): 21.88
 b) Water Depth (ft): 15.31
 Other: _____ c) Water Column (ft): 6.57
 d) Calc. Purge Vol. (gal): 1.1

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 ₂	Other
1654	1	6.97	0.473	7.2	orange	672	Not	Not	faint odor
1659	2	7.05	0.481	6.8	orange	600	Measured	Measured	light sheen
1702	3	7.10	0.481	6.6	orange	496			

Total Volume Purged (Gallons): 3 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

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.)
 Placed lock on well cap

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

Split Sample ID: None Collected Analyses Requested: GRO/DRO by AK 101/102
 None Collected BTEX by 8021B

Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: _____ Sample Location (ie. MW-1): MW-4
 Project Name: 328.5 Illinois Ave, Fairbanks, AK Sample ID (ie. MW-1-W-yymmdd): MW-4-W-060915
 Client: BBL Date Sample Collected: 9/15/2006
 Sampler: Julie Ahern Time sampled: 1630

Well Information

Groundwater: X Casing Diameter (in): 2" a) Well Depth (ft): 24.19
 b) Water Depth (ft): 18.48
 Other: _____ c) Water Column (ft): 5.71
 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 ₂	Other
1619	1	6.88	0.248	7.9	orange	464	Not	Not	uncertain sheen and odor (see remarks below)
1622	2	6.74	0.223	7.8	orange	235	Measured	Measured	
1625	3	6.71	0.219	7.5	orange	249			

Total Volume Purged (Gallons): 3 Free Product (y/n): No
 Odor: Uncertain Sheen (y/n): Uncertain

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.)
 Placed lock on well cap

Remarks (well recovery, unusual conditions/observations):
 Detected odor and observed sheen in container holding water-quality meter; however, no sheen or odor was detected in bailer or VOA vials. As such, suspect sheen and odor in container might be remnants of previous well's contamination (MW-5) despite cleaning of container.

Duplicate Sample ID: None Collected Analyses Requested: GRO/DRO by AK 101/102
 Split Sample ID: None Collected BTEX by 8021B

Signed: Julie Ahern Date: 10/30/2006
 Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: _____ Sample Location (ie. MW-1): MW-5
 Project Name: 328.5 Illinois Ave, Fairbanks, AK Sample ID (ie. MW-1-W-yymdd): MW-5-W-060915
 Client: BBL Date Sample Collected: 9/15/2006
 Sampler: Julie Ahern Time sampled: 1545

Well Information

Groundwater: X Casing Diameter (in): 2" a) Well Depth (ft): 21.55
 b) Water Depth (ft): 15.11
 Other: _____ c) Water Column (ft): 6.44
 d) Calc. Purge Vol. (gal): 1.0

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 ₂	Other
1527	1	6.79	0.477	6.7	light gray	151	Not	Not	heavy sheen
1534	2	6.84	0.493	6.6	light gray	206	Measured	Measured	very strong odor
1537	3.1	6.85	0.516	6.0	light gray	492			
1539	3.6	6.87	0.520	5.9	light gray	384			

Total Volume Purged (Gallons): 3.6 Free Product (y/n): No
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes

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.)
 Placed lock on well cap

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

Duplicate Sample ID: MW-5-WD-060915 @ 1615 Analyses Requested: GRO/DRO by AK 101/102
 Split Sample ID: None Collected BTEX by 8021B

Signed/reviewer: _____ Date: _____

GROUNDWATER SAMPLE DATA SHEET

Project Number: _____ Sample Location (ie. MW-1): MW-6
 Project Name: 328.5 Illinois Ave, Fairbanks, AK Sample ID (ie. MW-1-W-yymmdd): MW-6-W-060915
 Client: BBL Date Sample Collected: 9/15/2006
 Sampler: Julie Ahern Time sampled: 1500

Well Information

Groundwater: X Casing Diameter (in): 2" a) Well Depth (ft): 25.22
 b) Water Depth (ft): 18.11
 Other: _____ c) Water Column (ft): 7.11
 d) Calc. Purge Vol. (gal): 1.1

Calculating Purge Volume

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

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

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

Note: assuming sand pack has 29% porosity
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 ₂	Other
1447	1.25	6.81	1.09	5.6	clear	216	Not	Not	no odor
1452	2.4	6.88	1.06	4.9	clear	138	Measured	Measured	mod sheen
1457	3.4	6.90	1.06	4.8	clear	170			

Total Volume Purged (Gallons): 3.4 Free Product (y/n): No
 Odor: None detected Sheen (y/n): Yes

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.)
 Placed lock on well cap

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

Split Sample ID: None Collected Analyses Requested: GRO/DRO by AK 101/102
 None Collected BTEX by 8021B

Signed/reviewer: _____ Date: _____

Attachment D

Well Search Survey Responses



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Frederick R Smith
316 Minnie St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- Domestic Drinking
- Domestic Bathing
- Domestic Washing
- Livestock
- Irrigation
- Other, explain: _____

Well Information (to be completed if water is from a well):

Well Diameter UNKNOWN Year Installed Unknown
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

NOT USED AT
PRESENT TIME

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: FRANCES SMITH Date: 10/1/06

Signature: Frances Smith Title: co-owner

Please return to: for Fred B. Smith

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Allyn E Yanish
508 Monroe St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input checked="" type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | |
| <input type="checkbox"/> Livestock | |

*well has been inactive for
Many years.*

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

I don't know how long the well has been inactive, I have not used it since I purchased this property.

Printed Name: *Allyn Yanish* Date: *10/4/06*

Signature: *Allyn Yanish* Title: _____

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Carla Licalsi Revocable Trust
1016 Pioneer Rd
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | _____ |
| <input type="checkbox"/> Livestock | _____ |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

WE USED TO HAVE A WITTEL SLOW BY HEIN ARE GARAGE
BUT IT IS DRIE OVER 10-15 YEARS.

Additional Remarks:

Printed Name: Carla Licalsi Date: Sept. 28, 2006

Signature: CARLA LICALSI Title: _____

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

J & W Properties LLC
346 Minnie St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- Domestic Drinking
- Domestic Bathing
- Domestic Washing
- Livestock
- Irrigation
- Other, explain: _____

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____ *Unknown*
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

*well was used to water the lawn but had
not been used for the past several years
we disconnected the well during renovation in 2009/2006*

Additional Remarks:

Printed Name: *Brad Johnson* Date: *9/29/06*

Signature: *[Signature]* Title: *member*

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Licalsi Family Limited Partnership
1005 Pioneer Rd
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | |
| <input type="checkbox"/> Livestock | |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
- No

Are you aware of any other drinking water wells in the area?

- Yes
- No

If yes, please list any known information:

Additional Remarks:

 THER WAS A SLOW, BUT IT IS DRIE KNOW

Printed Name: CARLA NICALSI Date: SEPT. 28. 2006

Signature: Carla Nicalsi Title: _____

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

*THIS A PRIVET
PHONE NO*

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Clifford Wenzlick
1008 Pioneer Rd
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- Domestic Drinking
- Domestic Bathing
- Domestic Washing
- Livestock
- Irrigation
- Other, explain: _____

Well Information (to be completed if water is from a well):

Well Diameter 2" Year Installed _____
Casing Size _____
Well Depth 25'
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? NOT used

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: CLIFF WENZLICK Date: 9-29-06

Signature: Cliff Wenzlick Title: owner

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.

BLASLAND, BOUCK & LEE, INC.

an **ARCADIS** company



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Suzanne L Maestas
366 Slater St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- Domestic Drinking
- Domestic Bathing
- Domestic Washing
- Livestock
- Irrigation
- Other, explain: _____

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed 1940's
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type electric
Water Quality _____
Has Quality Changed? no If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Suzanne Maestas Date: 9/29/06

Signature: Suzanne Maestas Title: _____

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Kenneth A Risse
345 Church St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- Domestic Drinking
- Domestic Bathing
- Domestic Washing
- Livestock
- Irrigation
- Other, explain: _____

Well Information (to be completed if water is from a well):

Well Diameter 1 1/2" Year Installed PRIOR TO 1978
Casing Size 1 1/2"
Well Depth UNKNOWN
Casing Depth UNKNOWN
Screen Location UNKNOWN
Driller UNKNOWN
Well Logs Available? NO
Pump Type NOT PRESENTLY WORKING (SHALLOW WELL PUMP)
Water Quality UNKNOWN
Has Quality Changed? — If Yes, How? —

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Kenneth Risse Date: 9-27-06

Signature: [Signature] Title: Owner

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Donna M Dowling
301 Slater St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- Domestic Drinking
- Domestic Bathing
- Domestic Washing
- Livestock

- Irrigation
- Other, explain:

*capped off - possible
future irrigation use*

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed estimate 1950
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

I purchased this house
in 2003

Are there any streams/creeks located on your property?

Yes on banks of Chena River
 No

Are you aware of any other drinking water wells in the area?

Yes
 No - unknown

If yes, please list any known information:

Additional Remarks:

Printed Name: Donna Dowling Date: 9-26-06

Signature: Donna Dowling Title: owner

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Michael E Grahek
815 Pioneer Rd
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | <u>NOT USED</u> |
| <input type="checkbox"/> Livestock | |

Well Information (to be completed if water is from a well):

Well Diameter 2" Year Installed PRE 1940
Casing Size 2"
Well Depth SHALLOW
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? NO
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: MICHAEL E. GRAHEK Date: 23 SEP 2006

Signature: Michael E. Grahek Title: OWNER

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.

BLASLAND, BOUCK & LEE, INC.

an **ARCADIS** company



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Michael E Grahek
801 Pioneer Rd
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | <u>NOT USED</u> |
| <input type="checkbox"/> Livestock | |

Well Information (to be completed if water is from a well):

Well Diameter 2" Year Installed ±1938
Casing Size 2"
Well Depth SHALLOW
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? NO
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: MICHAEL E. GRAHEK Date: 23 SEP 2006

Signature: Michael E. Grahek Title: OWNER

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.

BLASLAND, BOUCK & LEE, INC.

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Well Information (to be completed if water is from a well):

Well Diameter 2" Year Installed ±1938
Casing Size 2"
Well Depth SHALLOW
Casing Depth _____ WATER LEVEL @ 15-20 FT.
Screen Location _____
Driller _____
Well Logs Available? No
Pump Type CENTRIFUGAL
Water Quality NOT TESTED
Has Quality Changed? No If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: MICHAEL E. GRANER Date: 23 SEP 2006

Signature: Michael E. Graner Title: OWNER

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Lambert Hazelaar
345 Minnie St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
 Spring
 City/County Water
 Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
 No
 Unknown

If Yes, what is it used for? (check all that apply)

- Domestic Drinking
 Domestic Bathing
 Domestic Washing
 Livestock
 Irrigation
 Other, explain: _____

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed ?
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? ?

watering flowers

Are there any streams/creeks located on your property?

Yes
 No

Are you aware of any other drinking water wells in the area?

Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Jambert Hazekamp Date: Sept 23, 2016
Signature: Jambert Hazekamp Title: owner

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Byron Haley
1002 Pioneer Rd
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
 Spring
 City/County Water
 Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
 No
 Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | |
| <input type="checkbox"/> Livestock | |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

I have a well but it is not in use and is capped

Printed Name: BYRON W. HALEY Date: 9-23-06

Signature: Byron W. Haley Title: _____

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.

BLASLAND, BOUCK & LEE, INC.

an **ARCADIS** company



an ARCADIS company

WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Marie E Fletcher
504 Monroe St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input checked="" type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: _____ |
| <input checked="" type="checkbox"/> Domestic Washing | |
| <input checked="" type="checkbox"/> Livestock | |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed 1960? when house was originally built
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? no
Pump Type _____
Water Quality unknown
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

We have owned this house less than 5 years.
We have not used the well in those 4 years.
The quality of the well water is unknown to us
at this time.

Printed Name: Marie E. Fletcher Date: 9-27-06

Signature: Marie E. Fletcher Title: _____

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.

BLASLAND, BOUCK & LEE, INC.

an **ARCADIS** company



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Golden Valley Electric Association Inc
516 Illinois St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- Domestic Drinking
- Domestic Bathing
- Domestic Washing
- Livestock
- Irrigation
- Other, explain:

Moby + Dring

Well Information (to be completed if water is from a well):

Well Diameter 2¹⁰" Year Installed MID 90'S -
Casing Size 2"
Well Depth 30'
Casing Depth 30'
Screen Location BOTTOM 8-10'
Driller Z.
Well Logs Available? NA
Pump Type N/A
Water Quality 1000
Has Quality Changed? NA If Yes, How? _____

DATE of MINNIE STREET LAND USE'S GROUND STUDY.

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

PLEASE REFER TO MINNIE STREET LAND USE'S GROUND REPORT ON FILE AT LOCAL ADEC OFFICE FOR COMPREHENSIVE HQ DATA FOR PLANNED INDUSTRIAL AREA.

Additional Remarks:

60' ARE NOW MORE 12 MONITORING WELLS INSTALLED ON ITS PROPERTY - ALL TESTS HAVE BEEN CHECKED OUT DUE TO NON-DETECT.

Printed Name: Thomas Howell Date: 10/26/06

Signature: [Signature] Title: Purchasing & Facilities Mgr

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Licalsi Family Limited Partnership
1000 Pioneer Rd
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- Domestic Drinking
- Domestic Bathing
- Domestic Washing
- Livestock
- Irrigation
- Other, explain: _____

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: CARLA LICALSI Date: SEPT. 28. 2009

Signature: Carla Licalsi Title: _____

Please return to: second copy doppel for 1000 Pioneer Rd
THERE IS NO MORE 1005 u

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.

BLASLAND, BOUCK & LEE, INC.

an **ARCADIS** company



an ARCADIS company

WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Janet Joan Schwalm
310 Driveway St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | _____ |
| <input type="checkbox"/> Livestock | _____ |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: _____ Date: 9-27-06

Signature: Jane Schwalbe Title: _____

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Denali State Bank
119 Cushman St N
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
 Spring
 City/County Water
 Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
 No
 Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | _____ |
| <input type="checkbox"/> Livestock | _____ |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Randy L. Weaver Date: 9/21/06
Signature: *Randy L. Weaver* Title: CFO

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Mary E Fitzgerald Family Trust
348 Minnie St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
 Spring
 City/County Water
 Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
 No
 Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | |
| <input type="checkbox"/> Livestock | |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Mary Fitzgerald Date: 9/23/06
Signature: Mary E Fitzgerald Title: owner

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Janet Joan Schwalm
318 Driveway St
Fairbanks, Alaska 99701

**RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | _____ |
| <input type="checkbox"/> Livestock | _____ |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

Yes
 No

Are you aware of any other drinking water wells in the area?

Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: _____ Date: 9-27-06

Signature: Janet Schwalm Title: _____

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

John Salzman
257 Charles St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | |
| <input type="checkbox"/> Livestock | |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: John E. Saleman Date: 24 Sept 06

Signature: *John E. Saleman* Title: _____

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.

BLASLAND, BOUCK & LEE, INC.

an **ARCADIS** company



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Benevolent and Protective Order Of Elks Lodge #1551
1003 Pioneer Rd
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | _____ |
| <input type="checkbox"/> Livestock | _____ |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: ETKS LODGE 7551
Todd Kappas Date: 9-27-06
Signature: [Handwritten Signature] Title: Secretary

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Wilbert J Courtney
249 Illinois St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | _____ |
| <input type="checkbox"/> Livestock | _____ |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
- No

Are you aware of any other drinking water wells in the area?

- Yes
- No

If yes, please list any known information:

Additional Remarks:

Printed Name: WILL GURNEY Date: 9/28/06

Signature: Will Gurney Title: CO-OWNER

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



an ARCADIS company

WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Paul C Morgan
222 Slater St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | |
| <input type="checkbox"/> Livestock | |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: PAUL MORGAN Date: 9/27/06

Signature: [Signature] Title: Property Owner

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Wilbert J Courtney
306 Illinois St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | _____ |
| <input type="checkbox"/> Livestock | |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: WIC COURTNEY Date: 9/28/06
Signature: WIC Courtney Title: OWNER

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Mary Katherine Johnson
322 Well St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
 Spring
 City/County Water
 Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
 No
 Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | _____ |
| <input type="checkbox"/> Livestock | _____ |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

Yes
 No

Are you aware of any other drinking water wells in the area?

Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Mary Katherine Johnson Date: 9-28-06

Signature: Mary Katherine Johnson Title: _____

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.

WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Gavora Incorporated
244 Illinois St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- Domestic Drinking
- Domestic Bathing
- Domestic Washing
- Livestock
- Irrigation
- Other, explain: _____

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: RUDY GAVORA Date: 9/27/2006

Signature: [Signature] Title: GEN MGR

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.

RECEIVED

SEP 25 2006



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Gavora Incorporated
246 Illinois St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | _____ |
| <input type="checkbox"/> Livestock | |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

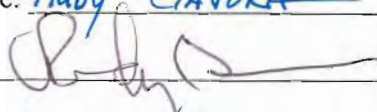
- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Rudy GAVORA Date: 9/27/2006
Signature:  Title: GEN MGR.

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



an ARCADIS company

WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Lawrence Russell
816 Betty St
Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 1/2 Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we
are completing a water resources survey for properties located within 1,000-feet of the
above-referenced facility. At your convenience, please fill in and sign the following
short form and return in the self-addressed, stamped envelope that is provided, or by fax
or email. If we do not receive this form by October 30, 2006, we will assume you do not
have a private water source on your property. If you have questions about this survey,
please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank
you for your cooperation.

Source of drinking water on your property:

- Well
Spring
City/County Water
Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
No
Unknown

If Yes, what is it used for? (check all that apply)

- Domestic Drinking
Domestic Bathing
Domestic Washing
Livestock
Irrigation
Other, explain:

AK WATER RESOURCES QUEST

2300 Eastlake Avenue East • Suite 100 • Seattle, WA 98102
Tel (206) 325-5254 • Fax (206) 325-8218 • www.bbl-inc.com • Offices Nationwide

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

Yes
 No

Noyes Slough is adjacent

Are you aware of any other drinking water wells in the area?

Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: *Lauren Russell* Date: *10/1/06*
Signature: *[Signature]* Title: *owner*

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.

BLASLAND, BOUCK & LEE, INC.

an ARCADIS company



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Continental Van Lines
1223 Well St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | _____ |
| <input type="checkbox"/> Livestock | |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
- No

Are you aware of any other drinking water wells in the area?

- Yes
- No

If yes, please list any known information:

Additional Remarks:

WE DO NOT DRINK THE WATER FROM THE TAP. WE HAVE
SPRING ALASKA PROVIDED US WITH DRINKING WATER.

Printed Name: KEN WYMAN II Date: 09-25-06

Signature:  Title: GENERAL MANAGER

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



an ARCADIS company

WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Alaska Properties LLC
409 Driveway St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
 Spring
 City/County Water
 Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
 No
 Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | |
| <input type="checkbox"/> Livestock | |

AK WATER RESOURCES QUEST

2300 Eastlake Avenue East • Suite 100 • Seattle, WA 98102
Tel (206) 325-5254 • Fax (206) 325-8218 • www.bbl-inc.com • Offices Nationwide

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Susan M Ellison Date: 9/25/06
Signature: [Handwritten Signature] Title: Owner

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Sourdough Fuel Inc
418 Illinois St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
 Spring
 City/County Water
 Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
 No
 Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | |
| <input type="checkbox"/> Livestock | |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
- No

Are you aware of any other drinking water wells in the area?

- Yes
- No

If yes, please list any known information:

Additional Remarks:

Printed Name: David Cieplik Date: 9-25-06
Signature: David Cieplik Title: Plant Manager

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Marvin L Raaum Revocable Trust
405 Slater St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
 Spring
 City/County Water
 Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
 No
 Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | |
| <input type="checkbox"/> Livestock | |
-

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Linda Oxyey Date: 9-24-80
Signature: Linda Oxyey Title: manager

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Philip S Steeg
240 Minnie St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
 Spring
 City/County Water
 Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
 No
 Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | _____ |
| <input type="checkbox"/> Livestock | _____ |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

Yes
 No

Are you aware of any other drinking water wells in the area?

Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Philip S. Steeg Date: 9/25/06

Signature: [Signature] Title: 9/25/06

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Energy Technologies Inc
1318 Well St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | |
| <input type="checkbox"/> Livestock | |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Phil Louison Date: 9-25-06

Signature: Phil Louison Title: PRESIDENT

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

J Lynn And Company
1317 Minnie St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
 Spring
 City/County Water
 Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
 No
 Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | _____ |
| <input type="checkbox"/> Livestock | _____ |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Linda J Pett Date: 9/25/06
Signature: Linda J Pett Title: owner

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.

BLASLAND, BOUCK & LEE, INC.

an **ARCADIS** company



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Ramona E M Oxendine
323 Ina St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | |
| <input type="checkbox"/> Livestock | |
-

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
- No

Are you aware of any other drinking water wells in the area?

- Yes
- No

If yes, please list any known information:

Additional Remarks:

Printed Name: RAMONA Oxendine Date: 9/25/06
Signature: Ramona Oxendine Title: Homeowner

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Robert Tyler
242 Ina St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
 Spring
 City/County Water
 Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
 No
 Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | _____ |
| <input type="checkbox"/> Livestock | _____ |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____ *NA*
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

Yes
 No

Are you aware of any other drinking water wells in the area?

Yes
 No

If yes, please list any known information:

Additional Remarks:

*When I moved into this area the city
AND WATER SEWER WAS ALREADY HERE AT MY HOME*

Printed Name: *Robert A. TYLER* Date: _____

Signature: *Robert a tyler* Title: _____

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Anthony J Simko
303 Minnie St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- Domestic Drinking
- Domestic Bathing
- Domestic Washing
- Livestock
- Irrigation
- Other, explain:

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Tony Simko Date: 9-25-06

Signature: [Signature] Title: Mr.

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Barbara M Rich
305 Slough St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
 Spring
 City/County Water
 Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
 No
 Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | _____ |
| <input type="checkbox"/> Livestock | _____ |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Leland Rich Date: 9/25/06
Signature: [Handwritten Signature] Title: Owner

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Charles Gray
311 Slater St
Fairbanks, Alaska 99701

**RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | |
| <input type="checkbox"/> Livestock | |
-

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: CHARLES GRAY Date: 9-25-06
Signature: Charles L. Gray Title: OWNER

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.

BLASLAND, BOUCK & LEE, INC.

an **ARCADIS** company



an ARCADIS company

WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Wendy R Stegner
320 Charles St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- Domestic Drinking
- Domestic Bathing
- Domestic Washing
- Livestock
- Irrigation
- Other, explain: _____

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

Yes
 No

Are you aware of any other drinking water wells in the area?

Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Wendy Stegner Date: 9/26/06
Signature: Wendy Stegner Title: _____

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



an ARCADIS company

RECEIVED
SEP 22 2006

LAND MANAGEMENT

WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Fairbanks North Star Borough Land Management
807 PIONEER RD
Fairbanks, Alaska 99701

**RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 1/2 Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | |
| <input type="checkbox"/> Livestock | |

Water Resources Questionnaire
807 PIONEER RD
Page 2 of 2

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
- No

Are you aware of any other drinking water wells in the area?

- Yes
- No

If yes, please list any known information:

Additional Remarks:

THE ICELATES TO THE FNSB-OWNED FACILITY
LOCATED AT 1300 MINNIE ST., FAIRBANKS

Printed Name: DAVID FERREE Date: 9-26-06
Signature: [Signature] Title: FACILITIES DIRECTOR

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.

BLASLAND, BOUCK & LEE, INC.

an **ARCADIS** company



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Michael E Grahek
807 Pioneer Rd
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

NONE

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | |
| <input type="checkbox"/> Livestock | |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
- No

Are you aware of any other drinking water wells in the area?

- Yes
- No

If yes, please list any known information:

Additional Remarks:

THE BUILDING IS A GARAGE - NOT A RESIDENCE

Printed Name: MICHAEL E. GRAHEK Date: 23 SEP 2006

Signature: Michael E. Grahek Title: OWNER

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Marlys Ann Powers
313 Minnie St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | |
| <input type="checkbox"/> Livestock | |
-

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Marlyp A. Powers Date: 9-25-06

Signature: Marlyp A. Powers Title: _____

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Fairbanks Agape Mission Church
324 Minnie St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
 Spring
 City/County Water
 Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
 No
 Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | |
| <input type="checkbox"/> Livestock | |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Song Hyun Kims Date: 9/23/06
Signature: [Signature] Title: PASTOR

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Fairbanks Agape Mission Church
319 Minnie St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
 Spring
 City/County Water
 Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
 No
 Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | _____ |
| <input type="checkbox"/> Livestock | _____ |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Sang Hwan Kims Date: 9/23/06

Signature: [Signature] Title: PASTOR

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Barbara E Page
319 Slater St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | _____ |
| <input type="checkbox"/> Livestock | _____ |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Barbara E. Page Date: 10/23/06

Signature: Barbara E. Page Title: _____

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.

BLASLAND, BOUCK & LEE, INC.

an **ARCADIS** company



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Clark A Courtney
253 Illinois St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | _____ |
| <input type="checkbox"/> Livestock | _____ |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Clark A. Courtney Date: 10.11.04

Signature: Clark A. Courtney Title: Mr.

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Ringstad Mark Family Trust
502 Monroe St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- Domestic Drinking
- Domestic Bathing
- Domestic Washing
- Livestock
- Irrigation
- Other, explain: _____

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

Yes
 No

Are you aware of any other drinking water wells in the area?

Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: JAMES R. RINGSTAD A.I.F. FOR MARK RINGSTAD FAMILY TRUST Date: 10/25/2006

Signature: *JR Ringstad* Title: _____

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.

BLASLAND, BOUCK & LEE, INC.

an **ARCADIS** company



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Alaska Distribution Company
1200 Well St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | _____ |
| <input type="checkbox"/> Livestock | _____ |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

- Yes
 No

Are you aware of any other drinking water wells in the area?

- Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Donald Laeb Date: 11-1-06

Signature:  Title: _____

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.

BLASLAND, BOUCK & LEE, INC.

an **ARCADIS** company



WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Alaska Distribution Company
1106 Well St
Fairbanks, Alaska 99701

RE: **Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,
Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701**

Dear Sir or Madam:

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Source of drinking water on your property:

- Well
- Spring
- City/County Water
- Unknown

Is there a well on your property that is used for purposes other than drinking water?

- Yes
- No
- Unknown

If Yes, what is it used for? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Domestic Drinking | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Domestic Bathing | <input type="checkbox"/> Other, explain: |
| <input type="checkbox"/> Domestic Washing | |
| <input type="checkbox"/> Livestock | |

Well Information (to be completed if water is from a well):

Well Diameter _____ Year Installed _____
Casing Size _____
Well Depth _____
Casing Depth _____
Screen Location _____
Driller _____
Well Logs Available? _____
Pump Type _____
Water Quality _____
Has Quality Changed? _____ If Yes, How? _____

Are there any streams/creeks located on your property?

Yes
 No

Are you aware of any other drinking water wells in the area?

Yes
 No

If yes, please list any known information:

Additional Remarks:

Printed Name: Donald Loeb Date: 11-1-06

Signature:  Title: _____

Please return to:

Blasland, Bouck & Lee, Inc.
2300 Eastlake Avenue, Suite 100
Seattle, Washington 98102
Attn: Rebecca Andresen

Phone: (206) 325-5254 x 1017
Facsimile: (206) 325-8218
email: randresen@bbl-inc.com

Thank you for your time and assistance.

Attachment E

Conceptual Site Model

HUMAN HEALTH CONCEPTUAL SITE MODEL

Site: _____

Follow the directions below. Do not consider engineering or land use controls when describing pathways.

Completed By: _____
 Date Completed: _____

(1) Check the media that could be directly affected by the release.
(2) For each medium identified in (1), follow the top arrow and check possible transport mechanisms. Briefly list other mechanisms or reference the report for details.

(3) Check exposure media identified in (2).
(4) Check exposure pathways that are complete or need further evaluation. The pathways identified must agree with Sections 2 and 3 of the CSM Scoping Form.

(5) Identify the receptors potentially affected by each exposure pathway: Enter "C" for current receptors, "F" for future receptors, or "C/F" for both current and future receptors.

Media	Transport Mechanisms	Exposure Media	Exposure Pathways	Current & Future Receptors						
				Residents (adults or children)	Commercial or industrial workers	Site visitors, trespassers, or recreational users	Construction workers	Farmers or subsistence harvesters	Subsistence consumers	Other
<input type="checkbox"/> Surface Soil (0-2 ft bgs)	<input type="checkbox"/> Direct release to surface soil <i>check soil</i>	<input type="checkbox"/> soil	<input type="checkbox"/> Incidental Soil Ingestion							
	<input type="checkbox"/> Migration or leaching to subsurface <i>check soil</i>		<input type="checkbox"/> Dermal Absorption of Contaminants from Soil							
	<input type="checkbox"/> Migration or leaching to groundwater <i>check groundwater</i>									
	<input type="checkbox"/> Volatilization <i>check air</i>									
	<input type="checkbox"/> Runoff or erosion <i>check surface water</i>									
	<input type="checkbox"/> Uptake by plants or animals <i>check biota</i>									
<input type="checkbox"/> Subsurface Soil (2-15 ft bgs)	<input type="checkbox"/> Direct release to subsurface soil <i>check soil</i>	<input type="checkbox"/> groundwater	<input type="checkbox"/> Ingestion of Groundwater							
	<input type="checkbox"/> Migration to groundwater <i>check groundwater</i>		<input type="checkbox"/> Dermal Absorption of Contaminants in Groundwater							
	<input type="checkbox"/> Volatilization <i>check air</i>		<input type="checkbox"/> Inhalation of Volatile Compounds in Tap Water							
	<input type="checkbox"/> Other (list): _____									
<input type="checkbox"/> Ground-water	<input type="checkbox"/> Direct release to groundwater <i>check groundwater</i>	<input type="checkbox"/> air	<input type="checkbox"/> Inhalation of Outdoor Air							
	<input type="checkbox"/> Volatilization <i>check air</i>		<input type="checkbox"/> Inhalation of Indoor Air							
	<input type="checkbox"/> Flow to surface water body <i>check surface water</i>		<input type="checkbox"/> Inhalation of Fugitive Dust							
	<input type="checkbox"/> Flow to sediment <i>check sediment</i>									
	<input type="checkbox"/> Uptake by plants or animals <i>check biota</i>									
<input type="checkbox"/> Surface Water	<input type="checkbox"/> Direct release to surface water <i>check surface water</i>	<input type="checkbox"/> surface water	<input type="checkbox"/> Ingestion of Surface Water							
	<input type="checkbox"/> Volatilization <i>check air</i>		<input type="checkbox"/> Dermal Absorption of Contaminants in Surface Water							
	<input type="checkbox"/> Sedimentation <i>check sediment</i>		<input type="checkbox"/> Inhalation of Volatile Compounds in Tap Water							
	<input type="checkbox"/> Uptake by plants or animals <i>check biota</i>									
	<input type="checkbox"/> Other (list): _____									
<input type="checkbox"/> Sediment	<input type="checkbox"/> Direct release to sediment <i>check sediment</i>	<input type="checkbox"/> sediment	<input type="checkbox"/> Direct Contact with Sediment							
	<input type="checkbox"/> Resuspension, runoff, or erosion <i>check surface water</i>									
	<input type="checkbox"/> Uptake by plants or animals <i>check biota</i>		<input type="checkbox"/> Ingestion of Wild Foods							
	<input type="checkbox"/> Other (list): _____									

Human Health Conceptual Site Model Scoping Form

Site Name: _____

File Number: _____

Completed by: _____

Introduction

The form should be used to reach agreement with the Alaska Department of Environmental Conservation (DEC) about which exposure pathways should be further investigated during site characterization. From this information, a CSM graphic and text must be submitted with the site characterization work plan.

General Instructions: Follow the italicized instructions in each section below.

1. General Information:

Sources (*check potential sources at the site*)

- | | |
|--|---------------------------------------|
| <input type="checkbox"/> USTs | <input type="checkbox"/> Vehicles |
| <input type="checkbox"/> ASTs | <input type="checkbox"/> Landfills |
| <input type="checkbox"/> Dispensers/fuel loading racks | <input type="checkbox"/> Transformers |
| <input type="checkbox"/> Drums | <input type="checkbox"/> Other: _____ |

Release Mechanisms (*check potential release mechanisms at the site*)

- | | |
|---------------------------------|---|
| <input type="checkbox"/> Spills | <input type="checkbox"/> Direct discharge |
| <input type="checkbox"/> Leaks | <input type="checkbox"/> Burning |
| | <input type="checkbox"/> Other: _____ |

Impacted Media (*check potentially-impacted media at the site*)

- | | |
|--|--|
| <input type="checkbox"/> Surface soil (0-2 feet bgs*) | <input type="checkbox"/> Groundwater |
| <input type="checkbox"/> Subsurface Soil (>2 feet bgs) | <input type="checkbox"/> Surface water |
| <input type="checkbox"/> Air | <input type="checkbox"/> Other: _____ |

Receptors (*check receptors that could be affected by contamination at the site*)

- | | |
|---|--|
| <input type="checkbox"/> Residents (adult or child) | <input type="checkbox"/> Site visitor |
| <input type="checkbox"/> Commercial or industrial worker | <input type="checkbox"/> Trespasser |
| <input type="checkbox"/> Construction worker | <input type="checkbox"/> Recreational user |
| <input type="checkbox"/> Subsistence harvester (i.e., gathers wild foods) | <input type="checkbox"/> Farmer |
| <input type="checkbox"/> Subsistence consumer (i.e., eats wild foods) | <input type="checkbox"/> Other: _____ |

* bgs – below ground surface

2. Exposure Pathways: (The answers to the following questions will identify complete exposure pathways at the site. Check each box where the answer to the question is "yes".)

a) Direct Contact –

1 Incidental Soil Ingestion

Is soil contaminated anywhere between 0 and 15 feet bgs?

Do people use the site or is there a chance they will use the site in the future?

If both boxes are checked, label this pathway complete: _____

2 Dermal Absorption of Contaminants from Soil

Is soil contaminated anywhere between 0 and 15 feet bgs?

Do people use the site or is there a chance they will use the site in the future?

Can the soil contaminants permeate the skin? (Contaminants listed below, or within the groups listed below, should be evaluated for dermal absorption).

- | | |
|--------------------------------|-------------------|
| Arsenic | Lindane |
| Cadmium | PAHs |
| Chlordane | Pentachlorophenol |
| 2,4-dichlorophenoxyacetic acid | PCBs |
| Dioxins | SVOCs |
| DDT | |

If all of the boxes are checked, label this pathway complete: _____

b) Ingestion –

1 Ingestion of Groundwater

Have contaminants been detected or are they expected to be detected in the groundwater, OR are contaminants expected to migrate to groundwater in the future?

Could the potentially affected groundwater be used as a current or future drinking water source? Please note, only leave the box unchecked if ADEC has determined the groundwater is not a currently or reasonably expected future source of drinking water according to 18 AAC 75.350.

If both the boxes are checked, label this pathway complete: _____

2 Ingestion of Surface Water

Have contaminants been detected or are they expected to be detected in surface water OR are contaminants expected to migrate to surface water in the future?

Could potentially affected surface water bodies be used, currently or in the future, as a drinking water source? *Consider both public water systems and private use (i.e., during residential, recreational or subsistence activities).*

If both boxes are checked, label this pathway complete: _____

3 Ingestion of Wild Foods

Is the site in an area that is used or reasonably could be used for hunting, fishing, or harvesting of wild food?

Do the site contaminants have the potential to bioaccumulate (*see Appendix A*)?

Are site contaminants located where they would have the potential to be taken up into biota? (i.e. the top 6 feet of soil, in groundwater that **could** be connected to surface water, etc.)

If all of the boxes are checked, label this pathway complete: _____

c) Inhalation

1 Inhalation of Outdoor Air

Is soil contaminated anywhere between 0 and 15 feet bgs?

Do people use the site or is there a chance they will use the site in the future?

Are the contaminants in soil volatile (*See Appendix B*)?

If all of the boxes are checked, label this pathway complete: _____

2 Inhalation of Indoor Air

Are occupied buildings on the site or reasonably expected to be placed on the site in an area that could be affected by contaminant vapors? (i.e., within 100 feet, horizontally or vertically, of the contaminated soil or groundwater, or subject to “preferential pathways” that promote easy airflow, like utility conduits or rock fractures)

Are volatile compounds present in soil or groundwater (*See Appendix C*)?

If both boxes are checked, label this pathway complete: _____

3. Additional Exposure Pathways: *(Although there are no definitive questions provided in this section, these exposure pathways should also be considered at each site. Use the guidelines provided below to determine if further evaluation of each pathway is warranted.)*

Dermal Exposure to Contaminants in Groundwater and Surface Water

Exposure from this pathway may need to be assessed only in cases where DEC water-quality or drinking-water standards are not being applied as cleanup levels. Examples of conditions that may warrant further investigation include:

- Climate permits recreational use of waters for swimming,
- Climate permits exposure to groundwater during activities, such as construction, without protective clothing, or
- Groundwater or surface water is used for household purposes.

Check the box if further evaluation of this pathway is needed:

Comments:

Inhalation of Volatile Compounds in Household Water

Exposure from this pathway may need to be assessed only in cases where DEC water-quality or drinking-water standards are not being applied as cleanup levels. Examples of conditions that may warrant further investigation include:

- The contaminated water is used for household purposes such as showering, laundering, and dish washing, and
- The contaminants of concern are volatile (common volatile contaminants are listed in Appendix B)

Check the box if further evaluation of this pathway is needed:

Comments:

Inhalation of Fugitive Dust

Generally DEC soil ingestion cleanup levels in Table B1 of 18 AAC 75 are protective of this pathway, although this is not true in the case of chromium. Examples of conditions that may warrant further investigation include:

- Nonvolatile compounds are found in the top 2 centimeters of soil. The top 2 centimeters of soil are likely to be dispersed in the wind as dust particles.
- Dust particles are less than 10 micrometers. This size can be inhaled and would be of concern for determining if this pathway is complete.

Check the box if further evaluation of this pathway is needed:

Comments:

Direct Contact with Sediment

This pathway involves people’s hands being exposed to sediment, such as during recreational or some types of subsistence activities. People then incidentally **ingest** sediment from normal hand-to-mouth activities. In addition, **dermal absorption of contaminants** may be of concern if people come in contact with sediment and the contaminants are able to permeate the skin (see dermal exposure to soil section). This type of exposure is rare but it should be investigated if:

- Climate permits recreational activities around sediment, and/or
- Community has identified subsistence or recreational activities that would result in exposure to the sediment, such as clam digging.

ADEC soil ingestion cleanup levels are protective of direct contact with sediment. If they are determined to be over-protective for sediment exposure at a particular site, other screening levels could be adopted or developed.

Check the box if further evaluation of this pathway is needed:

Comments:

4. Other Comments *(Provide other comments as necessary to support the information provided in this form.)*

APPENDIX A

BIOACCUMULATIVE COMPOUNDS

Table A-1: List of Compounds of Potential Concern for Bioaccumulation

Organic compounds are identified as bioaccumulative if they have a BCF equal to or greater than 1,000 or a log K_{ow} greater than 3.5. Inorganic compounds are identified as bioaccumulative if they are listed as such by EPA (2000). Those compounds in Table X of 18 AAC 75.345 that are bioaccumulative, based on the definition above, are listed below.

Aldrin	DDT	Lead
Arsenic	Dibenzo(a,h)anthracene	Mercury
Benzo(a)anthracene	Dieldrin	Methoxychlor
Benzo(a)pyrene	Dioxin	Nickel
Benzo(b)fluoranthene	Endrin	PCBs
Benzo(k)fluoranthene	Fluoranthene	
Cadmium	Heptachlor	Pyrene
Chlordane	Heptachlor epoxide	Selenium
Chrysene	Hexachlorobenzene	Silver
Copper	Hexachlorocyclopentadiene	Toxaphene
DDD	Indeno(1,2,3-c,d)pyrene	Zinc
DDE		

Because BCF values can relatively easily be measured or estimated, the BCF is frequently used to determine the potential for a chemical to bioaccumulate. A compound with a BCF greater than 1,000 is considered to bioaccumulate in tissue (EPA 2004b).

For inorganic compounds, the BCF approach has not been shown to be effective in estimating the compound's ability to bioaccumulate. Information available, either through scientific literature or site-specific data, regarding the bioaccumulative potential of an inorganic site contaminant should be used to determine if the pathway is complete.

The list was developed by including organic compounds that either have a BCF equal to or greater than 1,000 or a log K_{ow} greater than 3.5 and inorganic compounds that are listed by the United States Environmental Protection Agency (EPA) as being bioaccumulative (EPA 2000). The BCF can also be estimated from a chemical's physical and chemical properties. A chemical's octanol-water partitioning coefficient (K_{ow}) along with defined regression equations can be used to estimate the BCF. EPA's Persistent, Bioaccumulative, and Toxic (PBT) Profiler (EPA 2004) can be used to estimate the BCF using the K_{ow} and linear regressions presented by Meylan et al. (1996). The PBT Profiler is located at <http://www.pbtprofiler.net/>. For compounds not found in the PBT Profiler, DEC recommends using a log K_{ow} greater than 3.5 to determine if a compound is bioaccumulative.

APPENDIX B

VOLATILE COMPOUNDS

Table B-1: List of Volatile Compounds of Potential Concern

Common volatile contaminants of concern at contaminated sites. A chemical is defined as volatile if the Henry's Law constant is 1×10^{-5} atm-m³/mol or greater and the molecular weight less than 200 g/mole (g/mole; EPA 2004a). Those compounds in Table X of 18 AAC 75.345 that are volatile, based on the definition above, are listed below.

Acenaphthene	1,4-dichlorobenzene	Pyrene
Acetone	1,1-dichloroethane	Styrene
Anthracene	1,2-dichloroethane	1,1,2,2-tetrachloroethane
Benzene	1,1-dichloroethylene	Tetrachloroethylene
Bis(2-chlorethyl)ether	Cis-1,2-dichloroethylene	Toluene
Bromodichloromethane	Trans-1,2-dichloroethylene	1,2,4-trichlorobenzene
Carbon disulfide	1,2-dichloropropane	1,1,1-trichloroethane
Carbon tetrachloride	1,3-dichloropropane	1,1,2-trichloroethane
Chlorobenzene	Ethylbenzene	Trichloroethylene
Chlorodibromomethane	Fluorene	Vinyl acetate
Chloroform	Methyl bromide	Vinyl chloride
2-chlorophenol	Methylene chloride	Xylenes
Cyanide	Naphthalene	GRO
1,2-dichlorobenzene	Nitrobenzene	DRO

APPENDIX C

COMPOUNDS OF CONCERN FOR VAPOR MIGRATION

Table C-1: List of Compounds of Potential Concern for the Vapor Migration

A chemical is considered sufficiently toxic if the vapor concentration of the pure component poses an incremental lifetime cancer risk greater than 10^{-6} or a non-cancer hazard index greater than 1. A chemical is considered sufficiently volatile if its Henry's Law constant is 1×10^{-5} atm-m³/mol or greater.

Acenaphthene	Dibenzofuran	Hexachlorobenzene
Acetaldehyde	1,2-Dibromo-3-chloropropane	Hexachlorocyclopentadiene
Acetone	1,2-Dibromoethane (EDB)	Hexachloroethane
Acetonitrile	1,3-Dichlorobenzene	Hexane
Acetophenone	1,2-Dichlorobenzene	Hydrogen cyanide
Acrolein	1,4-Dichlorobenzene	Isobutanol
Acrylonitrile	2-Nitropropane	Mercury (elemental)
Aldrin	N-Nitroso-di-n-butylamine	Methacrylonitrile
alpha-HCH (alpha-BHC)	n-Propylbenzene	Methoxychlor
Benzaldehyde	o-Nitrotoluene	Methyl acetate
Benzene	o-Xylene	Methyl acrylate
Benzo(b)fluoranthene	p-Xylene	Methyl bromide
Benzylchloride	Pyrene	Methyl chloride chloromethane)
beta-Chloronaphthalene	sec-Butylbenzene	Methylcyclohexane
Biphenyl	Styrene	Methylene bromide
Bis(2-chloroethyl)ether	tert-Butylbenzene	Methylene chloride
Bis(2-chloroisopropyl)ether	1,1,1,2-Tetrachloroethane	Methylethylketone (2-butanone)
Bis(chloromethyl)ether	1,1,2,2-Tetrachloroethane	Methylisobutylketone
Bromodichloromethane	Tetrachloroethylene	Methylmethacrylate
Bromoform	Dichlorodifluoromethane	2-Methylnaphthalene
1,3-Butadiene	1,1-Dichloroethane	MTBE
Carbon disulfide	1,2-Dichloroethane	m-Xylene
Carbon tetrachloride	1,1-Dichloroethylene	Naphthalene
Chlordane	1,2-Dichloropropane	n-Butylbenzene
2-Chloro-1,3-butadiene (chloroprene)	1,3-Dichloropropene	Nitrobenzene
Chlorobenzene	Dieldrin	Toluene
1-Chlorobutane	Endosulfan	trans-1,2-Dichloroethylene
Chlorodibromomethane	Epichlorohydrin	1,1,2-Trichloro-1,2,2-trifluoroethane
Chlorodifluoromethane	Ethyl ether	1,2,4-Trichlorobenzene
Chloroethane (ethyl chloride)	Ethylacetate	1,1,2-Trichloroethane
Chloroform	Ethylbenzene	1,1,1-Trichloroethane
2-Chlorophenol	Ethylene oxide	Trichloroethylene
2-Chloropropane	Ethylmethacrylate	Trichlorofluoromethane
Chrysene	Fluorene	1,2,3-Trichloropropane
cis-1,2-Dichloroethylene	Furan	1,2,4-Trimethylbenzene
Crotonaldehyde (2-butenal)	Gamma-HCH (Lindane)	1,3,5-Trimethylbenzene
Cumene	Heptachlor	Vinyl acetate
DDE	Hexachloro-1,3-butadiene	Vinyl chloride (chloroethene)

Source: EPA 2002.

Guidance on Developing Conceptual Site Models
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