Roya C. Kambin
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6270
RKLG@chevron.com

Alameda County Health Care Services Agency
Environmental Health Department
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Unocal #5781
Union Oil Site 351640
3535 Pierson Street
Oakland, CA

I have reviewed the attached report dated November 23, 2011.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Conestoga-Rovers & Associates, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

Roya Kambin
Project Manager

Attachment: Report

CONESTOGA-ROVERS
& ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
http://www.craworld.com

November 23, 2011 Reference No. 060723

Ms. Barbara Jakub
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Fourth Quarter 2011
Groundwater Monitoring and Sampling Report
UNOCAL #5781
Union Oil Company of California Site 351640
3535 Pierson Street
Oakland, California
Fuel Leak Case No. RO0000253

Dear Ms. Barbara Jakub:

Conestoga-Rovers & Associates (CRA), on behalf of Union Oil Company of California, is submitting this *Fourth Quarter 2011 Groundwater Monitoring and Sampling Report* for the site referenced above (Figures 1 and 2). Groundwater monitoring and sampling was performed by TRC Solutions (TRC) of Irvine, California. TRC's October 12, 2011 *Groundwater Monitoring Data* is presented as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1. Laboratory analyses were performed by BC Laboratories of Bakersfield, California. BC Laboratories' October 20, 2011 *Analytical Results* are included as Attachment B. Historical groundwater monitoring and sampling data is included as Attachment C.

RESULTS OF FOURTH QUARTER 2011 EVENT

On October 4, 2011, TRC monitored and sampled the site wells per the established schedule.

Results of the current monitoring event indicate the following:

- Groundwater Flow Direction northeast
- Hydraulic Gradient 0.027
- Approximate Depths to Groundwater 13 to 15 feet below grade

Groundwater elevation data from monitoring well MW-A was not used in contouring due to a different screened interval.

A partial summary of results of the current sampling event is presented below in Table A:

TABLE A: GROUNDWATER ANALYTICAL DATA

Well ID	TPHd (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
ESLs	***100***	***100***	***1***	***40***	***30***	***20***	***5***
MW-A	<40	<50	<0.50	<0.50	<0.50	<1.0	0.72
MW-4	<40	<50	<0.50	<0.50	<0.50	<1.0	3.8
MW-5	**20,000**	**42,000**	**21**	**2,400**	**2,400**	**20,000**	**42**
MW-6	<40	<50	<0.50	<0.50	<0.50	<1.0	3.1
MW-7	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50
MW-8	<40	<50	<0.50	<0.50	<0.50	<1.0	1.5
MW-9	<40	<50	<0.50	<0.50	<0.50	<1.0	2.4

TPHd	Total petroleum hydrocarbons as diesel
TPHg	Total petroleum hydrocarbons as gasoline
MTBE	Methyl tertiary butyl ether
µg/L	Micrograms per Liter
ESLs	Environmental Screening Levels (Table F-1a) for groundwater that is a current or potential drinking water resource; *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*; California Regional Water Quality Control Board - San Francisco Bay Region; Interim Final November, 2007; revised May, 2008.
< x.x	Not detected above laboratory reported practical quantitation limit
BOLD	Concentration exceeds applicable ESL

CONCLUSIONS AND RECOMMENDATIONS

The results of ongoing groundwater monitoring and sampling at the site indicate the following:

- Dissolved-phase petroleum hydrocarbon and oxygenate concentrations are below ESLs in all wells except MW-5
- Dissolved petroleum hydrocarbons are centered around MW-5

CRA recommends continuing quarterly groundwater monitoring and sampling to establish concentration trends over time. Groundwater monitoring wells MW-6 through MW-9 were first

sampled December 2010. After the first quarter 2012 groundwater monitoring and sampling event, CRA will update the site conceptual model to conclude an appropriate strategy.

ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring
TRC will monitor and sample site wells per the established schedule. CRA will submit a groundwater monitoring and sampling report.

Please contact Jim Schneider at (949) 648-5200 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Ian Hull

Jim Schneider, PG 7914

PROFESSIONAL GEOLOGIST
VICTOR J. SCHNEIDER
No. 7914
EXP. 3/13
STATE OF CALIFORNIA

IH/aa/4
Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation and Hydrocarbon Concentration Map
Table 1	Groundwater Monitoring and Sampling Data
Attachment A	Monitoring Data Package
Attachment B	Laboratory Analytical Report
Attachment C	Historical Groundwater Monitoring and Sampling Data

cc: Ms. Roya Kambin, Union Oil Company of California *(electronic copy)*
United Brothers Enterprise, Inc., Property Owner

FIGURES

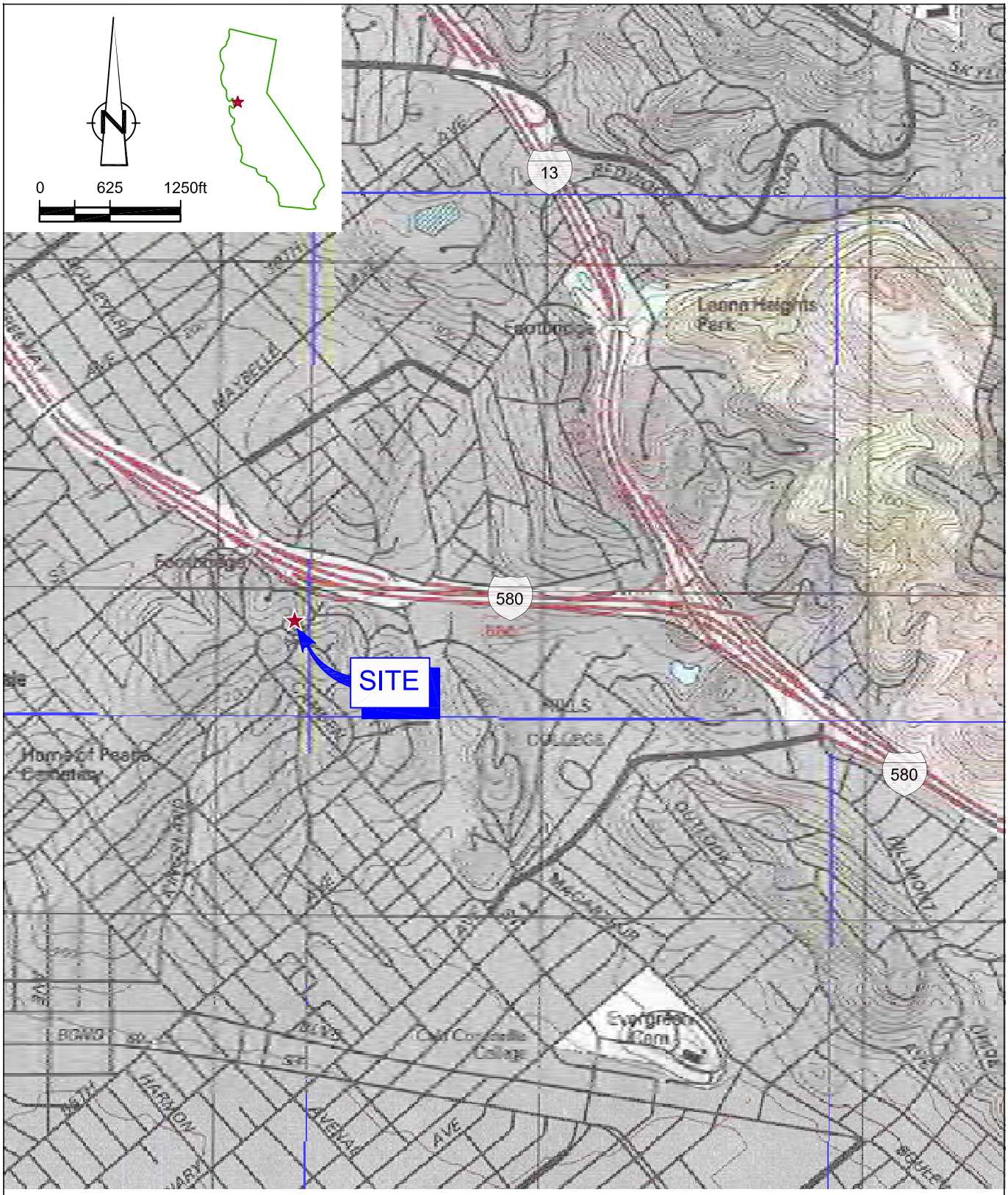
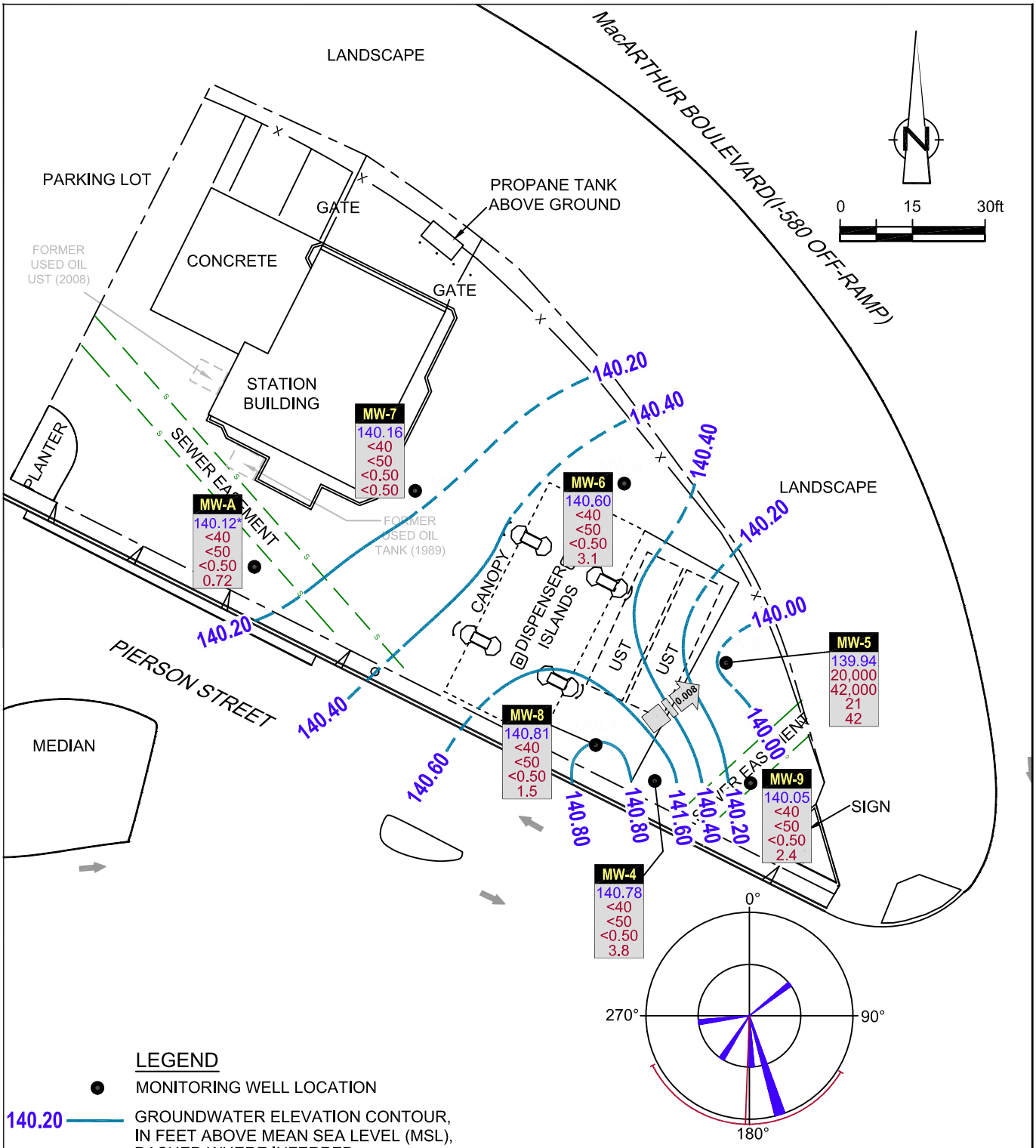


Figure 1

VICINITY MAP
UNOCAL 5781
3535 PIERSON STREET
Oakland, California

60723-95(004)GN-EM001 NOV 7/2011



LEGEND

- MONITORING WELL LOCATION
- 140.20 — GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (MSL), DASHED WHERE INFERRED
- x.xx — GROUNDWATER FLOW DIRECTION AND GRADIENT (ft/ft)
- WELL — WELL DESIGNATION
  ELEV — GROUNDWATER ELEVATION (MSL)
  TPHD — TPHD CONCENTRATION (µg/L)
  TPHG — TPHG CONCENTRATION (µg/L)
  BENZ — BENZENE CONCENTRATION (µg/L)
  MTBE — MTBE CONCENTRATION (µg/L)
- * DIFFERENT SCREEN INTERVAL, NOT USED FOR CONTOURING

APPROXIMATE GROUNDWATER FLOW DIRECTION 4Q2010 TO 4Q2011

SOURCE: DELTA CONSULTANTS, FIGURE 2, SITE PLAN , DATED 02/02/2010.

Figure 2

GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP
UNOCAL 5781
3535 PIERSON STREET
Oakland, California
October 4, 2011

TABLE

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL #5781
UNION OIL OF CALIFORNIA FACILITY 351640
3535 PIERSON STREET
OAKLAND, CALIFORNIA

					HYDROCARBONS		*PRIMARY VOCS*													*GAS*	*GENERAL CHEMISTRY*		
Location	Date	*TOC*	*DTW*	*GWE*	*TPH - Diesel*	*TPH - Gasoline*	*B*	*T*	*E*	*X*	*MTBE by SW8260*	*TBA*	*ETBE*	*DIPE*	*TAME*	*EDB*	*1,2-DCA*	*Ethanol*	*Methanol*	*Methane*	*Ferrous iron*	*Nitrate (as N)*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*mg/L*	*µg/L*	*mg/L*	*mg/L*
MW-A	06/07/2011	154.79	13.92	140.87	<40	<50	<0.50	<0.50	<0.50	<1.0	0.57	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	<100	-	-	-	-
MW-A	08/18/2011	154.79	18.83	135.96	<40	<50	<0.50	<0.50	<0.50	<1.0	0.61	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	<100	<0.0010	140	11	69
MW-A	**10/04/2011**	**154.79**	**14.67**	**140.12**	**<40**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**0.72**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**<100**	**<0.0010**	**<100**	**13**	**69**
MW-4	06/07/2011	153.48	10.94	142.54	<40	<50	<0.50	<0.50	<0.50	<1.0	1.6	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	<100	-	-	-	-
MW-4	08/18/2011	153.48	12.07	141.41	<40	<50	<0.50	<0.50	<0.50	<1.0	4.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	<100	0.040	<100	4.6	52
MW-4	**10/04/2011**	**153.48**	**12.70**	**140.78**	**<40**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**3.8**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**<100**	**0.030**	**100**	**4.3**	**50**
MW-5	06/07/2011	153.66	11.45	142.21	3,700	40,000	32	2,300	1,500	16,000	24	150	<0.50	<0.50	<0.50	<0.50	<0.50	330	<100	-	-	-	-
MW-5	08/18/2011	153.66	12.30	141.36	5,400	30,000	29	1,000	980	7,200	56	44	<0.50	<0.50	<0.50	<0.50	<0.50	<250	<100	9.7	15,000	<0.44	<1.0
MW-5	**10/04/2011**	**153.66**	**13.72**	**139.94**	**20,000**	**42,000**	**21**	**2,400**	**2,400**	**20,000**	**42**	**<250**	**<12**	**<12**	**<12**	**<12**	**<12**	**<6,200**	**<100**	**1.9**	**17,000**	**<0.44**	**1.3**
MW-6	06/07/2011	154.62	11.33	143.29	<40	<50	<0.50	<0.50	<0.50	<1.0	4.3	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	<100	-	-	-	-
MW-6	08/18/2011	154.62	13.00	141.62	<40	<50	<0.50	<0.50	<0.50	<1.0	2.4	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	<100	0.0027	<200	18	66
MW-6	**10/04/2011**	**154.62**	**14.02**	**140.60**	**<40**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**3.1**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**<100**	**<0.0010**	**100**	**24**	**78**
MW-7	06/07/2011	155.38	12.59	142.79	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	<100	-	-	-	-
MW-7	08/18/2011	155.38	14.37	141.01	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	<100	0.0012	<500	3.8	100
MW-7	**10/04/2011**	**155.38**	**15.22**	**140.16**	**<40**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**<100**	**<0.0010**	**<500**	**4.2**	**100**
MW-8	06/07/2011	153.71	11.54	142.17	71	<50	<0.50	<0.50	<0.50	<1.0	3.6	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	<100	-	-	-	-
MW-8	08/18/2011	153.71	12.47	141.24	<40	<50	<0.50	<0.50	<0.50	<1.0	2.1	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	<100	<0.0010	140	1.5	65
MW-8	**10/04/2011**	**153.71**	**12.90**	**140.81**	**<40**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**1.5**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**<100**	**<0.0010**	**190**	**2.8**	**67**

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL #5781
UNION OIL OF CALIFORNIA FACILITY 351640
3535 PIERSON STREET
OAKLAND, CALIFORNIA

					HYDROCARBONS		*PRIMARY VOCS*													*GAS*	*GENERAL CHEMISTRY*		
Location	Date	*TOC*	*DTW*	*GWE*	*TPH - Diesel*	*TPH - Gasoline*	*B*	*T*	*E*	*X*	*MTBE by SW8260*	*TBA*	*ETBE*	*DIPE*	*TAME*	*EDB*	*1,2-DCA*	*Ethanol*	*Methanol*	*Methane*	*Ferrous iron*	*Nitrate (as N)*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*mg/L*	*µg/L*	*mg/L*	*mg/L*
MW-9	06/07/2011	153.37	11.36	142.01	<40	<50	<0.50	<0.50	<0.50	<1.0	1.4	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	<100	-	-	-	-
MW-9	08/18/2011	153.37	12.52	140.85	<40	<50	<0.50	<0.50	<0.50	<1.0	2.1	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	<100	0.0010	<500	2.7	47
MW-9	**10/04/2011**	**153.37**	**13.32**	**140.05**	**<40**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**2.4**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**<100**	**<0.0010**	**<200**	**3.2**	**47**

Abbreviations and Notes:

TOC = Top of Casing

DTW = Depth to Water

GWE = Groundwater elevation

(ft-amsl) = Feet Above Mean sea level

ft = Feet

µg/L = Micrograms per Liter

TPH - Total Petroleum Hydrocarbons

VOCS = Volatile Organic Compounds

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylene

MTBE = Methyl tert butyl ether

TBA = Tert-Butyl alcohol

DIPE = Diisopropyl ether

ETBE = Tert-Butyl ethyl ether

TAME = Tert-Amyl methyl ether

EDB = 1,2-Dibromoethane (Ethylene dibromide)

1,2-DCA = 1,2-Dichloroethane

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

ATTACHMENT A

MONITORING DATA PACKAGE

123 Technology Drive West
Irvine, CA 92618

949.727.9336 PHONE
949.727.7399 FAX

www.TRCsolutions.com

DATE: October 12, 2011

TO: Ian Hull
CRA
5900 Hollis Street, Suite A
Emeryville, California 94608

SITE: Unocal Site 5781
Facility 351640
3535 Pierson Street, Oakland, CA

RE: Transmittal of Groundwater Monitoring Data

Dear Mr. Hull,

Please find attached the field data sheets, chain of custody (COC) forms, and technical services request (TSR) form for the monitoring event that was completed on October 4, 2011. Field measurements and collection of samples submitted to the laboratory were completed in general accordance with our usual groundwater monitoring protocol which is also attached for your reference.

Please call me at 949-341-7440 if you have questions.

Sincerely,

TRC

Anju Farfan
Groundwater Program Operations Manager

GENERAL FIELD PROCEDURES

Groundwater Gauging and Sampling Assignments

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater gauging and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

Fluid Level Measurements (Gauging)

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Unless otherwise instructed, a well that is found to contain a measureable amount of LPH (0.01 foot) is not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed.

Purging and Groundwater Parameter Measurement

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps. The pump intake is initially set at about 5 feet below the level of water in the casing, and is lowered as needed to compensate for falling water level. Pump depths are recorded in Field Notes.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurements are calibrated daily according to manufacturer's instructions.

Low-flow purging utilizes a bladder or peristaltic pump to remove water from the well at a low rate. Groundwater parameters specified by the TSR are measured continuously, using a flow cell, until they become stable in general accordance with EPA guidelines.

Groundwater Sample Collection

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods, sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

GENERAL FIELD PROCEDURES

Samples are collected by lowering a new, disposable polyethylene bottom-fill bailer to just below the water level in the well. The bailer is retrieved and the water sample is carefully transferred to containers specified for the laboratory analytical methods indicated by the TSR. Particular care is given to containers for volatile organic analysis (VOAs) which require filling to zero headspace and fitting with Teflon-sealed caps.

Sample containers are labeled with project number (or site number), well designation, sample date, sample time, and the sampler's initials, and placed in an insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container descriptions and requested analyses are entered onto a chain-of-custody form in order to provide instructions to the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the field to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form.

For wells that have been purged using low-flow methods, sample containers are filled from the effluent stream of the bladder or peristaltic pump. In some cases, if so specified by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

Sequence of Gauging, Purging and Sampling

The sequence in which monitoring activities are conducted is specified on the TSR. In general, wells are gauged beginning with the least affected well and ending with the well that has the highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected to the most-affected well. If wells must be gauged or sampled out of order, alternate interface probes and/or pumps are utilized and are noted in field documentation.

Decontamination

In order to reduce the possibility of cross contamination between wells, strict isolation and decontamination procedures are observed. Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging, and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that could come in contact with fluids are either dedicated a particular well, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liquinox and water and rinsing twice. The final rinse is in deionized water.

Purge Water Disposal

Purge water is generally collected in labeled drums for disposal as non-hazardous waste. Drums may be left on site for disposal by others, or transported to a collection location at a TRC field office, in either Fullerton, California or Concord, California, for eventual transfer to a licensed treatment or recycling facility. Alternatively, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

Exceptions

Additional tasks or non-standard procedures, if any, that may be requested or required for a particular site, are documented in field notes on the following pages.

FIELD MONITORING DATA SHEET

Technician: Barlo Job #/Task #: 183487.0035.1640 Date: 10-4-11

Site # 5781 Project Manager Anju F. Page 1 of 1

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-7	✓	0558	19.70	15.22	–	–	1010	2"
MW-A	✓	0611	44.94	14.67	–	–	1030	2"
MW-9	✓	0620	19.68	13.32	–	–	1054	2"
MW-8	✓	0628	19.90	12.90	–	–	1113	2"
MW-6	✓	0639	19.87	14.02	–	–	1137	2"
MW-4	✓	0648	24.75	12.70	–	–	1210	4"
MW-5	✓	0659	19.92	13.72	–	–	1230	4"

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

MANIFEST DRUM INVENTORY TRAFFIC CONTROL

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Banlio

Site: 5781 Project No.: 183487.0035.1640 Date: 10-4-11

Well No. MW-7 Purge Method: HB

Depth to Water (feet): 15.22 Depth to Product (feet): —

Total Depth (feet) 19.70 LPH & Water Recovered (gallons): —

Water Column (feet): 4.48 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 16.11 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							2.34	27	
0719	0721		1	1109	20.2	6.29	1.97	31	
			2	—	—	—	—	—	
			3	—	—	—	—	—	

Static at Time Sampled	Total Gallons Purged	Sample Time
17.02	1	1010

Comments: Pre purge sample 0717 Dry at 10'. Did not recover 2 hrs.

Well No. MW-A Purge Method: SUB

Depth to Water (feet): 14.67 Depth to Product (feet): —

Total Depth (feet) 44.94 LPH & Water Recovered (gallons): —

Water Column (feet): 30.27 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 20.72 1 Well Volume (gallons): 6

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, (C))	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							5.01	37	
0740			6	1339	19.7	6.53	4.26	99	
			12	1346	20.5	6.71	3.18	97	
	0749		18	—	—	—	—	—	

Static at Time Sampled	Total Gallons Purged	Sample Time
26.42	14	1030

Comments: Pumped Approx 5 ft. below DTW adjusted due to drawdown. Dry at 14 GLS. Did not recover in 2 hrs.

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Basilio

Site: 5781 Project No.: 183487.0035.1640 Date: 10-4-11

Well No. MW-9 Purge Method: HB

Depth to Water (feet): 13.32 Depth to Product (feet): —

Total Depth (feet) 19.68 LPH & Water Recovered (gallons): —

Water Column (feet): 6.36 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 14.59 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							3.11	108	
0806			1	771.5	20.3	6.66	2.06	111	
			2	802.9	20.4	6.53	1.70	109	
	0810		3	821.0	20.2	6.47	1.41	106	

Static at Time Sampled	Total Gallons Purged	Sample Time
15.45	3	1054

Comments: Pre purge sample 0800 Dry at 3 Gls. Did not recover 2 hrs.

Well No. MW-8 Purge Method: HB

Depth to Water (feet): 12.90 Depth to Product (feet): —

Total Depth (feet) 19.90 LPH & Water Recovered (gallons): —

Water Column (feet): 7.00 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 14.30 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							1.68	121	
0819			2	730.1	20.2	6.32	1.90	130	
			4	747.2	20.1	6.33	1.18	127	
	0829		6	751.0	20.0	6.34	1.48	118	

Static at Time Sampled	Total Gallons Purged	Sample Time
13.70	6	1113

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Basilio

Site: 5781 Project No.: 183487.0035.1640 Date: 10-4-11

Well No. MW-6 Purge Method: 1" ~~1/2~~

Depth to Water (feet): 14.02 Depth to Product (feet): —

Total Depth (feet) 19.87 LPH & Water Recovered (gallons): —

Water Column (feet): 5.85 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 15.19 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							5.38	138	
0844			1	514.1	19.2	6.68	4.76	144	
			2	619.2	19.6	6.40	4.23	149	
	0848		3	717.3	19.5	6.40	3.67	148	

Static at Time Sampled	Total Gallons Purged	Sample Time
17.30	3	1137

Comments: Pre purge Sample 0839 Dry at 3 Gl. Did not recover 2hrs.

Well No. MW-4 Purge Method: Sub

Depth to Water (feet): 12.70 Depth to Product (feet): —

Total Depth (feet) 24.75 LPH & Water Recovered (gallons): —

Water Column (feet): 12.05 Casing Diameter (Inches): 4

80% Recharge Depth(feet): 15.11 1 Well Volume (gallons): 8

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							4.97	147	
0907			8	662.6	19.7	7.04	4.68	160	
			16	7520	19.9	6.74	3.98	159	
	0915		24	—	—	—	—	—	

Static at Time Sampled	Total Gallons Purged	Sample Time
19.38	16	1210

Comments: Pre purge Sample 0900 Dry at 16 Gl. Did not recover 2hrs.

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Basilio

Site: 5781 Project No.: 183487.0035.1640 Date: 10-4-11

Well No. MW-5 Purge Method: SVS

Depth to Water (feet): 13.72 Depth to Product (feet): —

Total Depth (feet) 19.92 LPH & Water Recovered (gallons): —

Water Column (feet): 6.20 Casing Diameter (Inches): 4

80% Recharge Depth(feet): 14.96 1 Well Volume (gallons): 5

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							1.08	129	
0932			5	713.2	19.7	6.60	0.58	25	
	0937		10	716.9	20.1	6.52	0.63	-15	
			15	—	—	—	—	—	

Static at Time Sampled	Total Gallons Purged	Sample Time
13.80	10	1230

Comments: Pre purge sample 0926 Dry at 10 GL. Did not recover - 45 min

Well No. _____ Purge Method: _____

Depth to Water (feet): _____ Depth to Product (feet): _____

Total Depth (feet) _____ LPH & Water Recovered (gallons): _____

Water Column (feet): _____ Casing Diameter (Inches): _____

80% Recharge Depth(feet): _____ 1 Well Volume (gallons): _____

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									

Static at Time Sampled	Total Gallons Purged	Sample Time

Comments:

TRC

WELL BOX CONDITION REPORT

SITE NO. 5781

ADDRESS 3535 Pierson Street

DATE 10-4-11

PERFOMED BY: Basilio

PAGE 1 OF 1

Well Name	Current Well Box Size	# of Ears	# of Stripped Ears	# of Broken Ears	# of Broken Bolts	# of Missing Bolts	Seal Damaged	Missing Lid	Broken Lid	Well Box is Exposed	Well Box is Below Grade	Unable to Access	Unable to Locate	Foundation Damaged	Paved Over	Street Well	Saw Cut Needed	System Well	USA Marked Well	Comments
MW 7	12"	2																		
MW A	8"	2																		
MW 9	12"	2																		
MW 8	12"	2																		
MW 6	12"	2												X						
MW 4	12"	2																		
MW 5	12"	2																		

TRC

CHAIN OF CUSTODY FORM

Union Oil Company of California ■ 6101 Bollinger Canyon Road ■ San Ramon, CA 94583

COC 1 of 1

Union Oil Site ID: 5781	Union Oil Consultant: CRA
Site Global ID: T0600101467	Consultant Contact: Ian Hull
Site Address: 3535 Pierson Street Oakland	Consultant Phone No.: 510-420-3341
	Sampling Company: TRC
Union Oil PM: Craig Karpinski	Sampled By (PRINT): Brian Lin
Union Oil PM Phone No.: 925 790-6270	
Charge Code: NWRTB- 0 351644 -0- LAB	Sampler Signature:
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.	BC Laboratories, Inc. Project Manager: Molly Meyers 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911

ANALYSES REQUIRED

Turnaround Time (TAT): Standard ☑ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐

Special Instructions

SAMPLE ID						TPH - Diesel by EPA 8015 w/ silica gel cleanup	TPH - G by GC/MS 8015	BTEX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B, DW Kit 52601	EPA 8260B Full List with OXYS	Methanol by 8015	Nitrate as Nitrate	Ferrous Iron	Methane			Notes / Comments
Field Point Name	Matrix	DTW	Date (~~yymmdd~~)	Sample Time	# of Containers												
MW-7	W-S-A		10-4-11	1010	15	X	X	X	X		X	X	X	X			
MW-A	W-S-A		"	1030	"	"	"	"	"		"	"	"	"			
MW-9	W-S-A		"	1054	"	"	"	"	"		"	"	"	"			
MW-8	W-S-A		"	1113	"	"	"	"	"		"	"	"	"			
MW-6	W-S-A		"	1137	"	"	"	"	"		"	"	"	"			
MW-4	W-S-A		"	1210	"	"	"	"	"		"	"	"	"			
MW-5	W-S-A		"	1230	"	"	"	"	"		"	"	"	"				
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																

Relinquished By	Company	Date / Time:
	TRC	10/4/11
Received By	Company	Date / Time:
Mary Logan	BC Labs	10-4-11 1330

Relinquished By	Company	Date / Time :
Received By	Company	Date / Time :

Relinquished By	Company	Date / Time:
Received By	Company	Date / Time:

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

20-Sep-11

Site ID:	5781	**Project No.:**	183487.0035.1640 / 00TA01
Address	3535 Pierson Street	**Client:**	Roya Kambin
City:	Oakland	**Contact #:**	925-790-6270
Cross Street:	Redding St.	**PM:**	Ian Hull CRA
		PM Contact #:	510-420-3344

Total number of wells:	7	**Min. Well Diameter (in.):**	2	**# of Techs, # of Hrs:**	1, 5
Depth to Water (ft.):	14	**Max. Well Diameter (in.):**	2	**Travel Time (hrs):**	
		Max. Well Depth (ft):	45		

ACTIVITIES:		**Frequency**	**Notes**
Gauging:	☑	Quarterly	
Purge/Sampling:	☑	Quarterly	
No Purge/Sample	☐		

RELATED ACTIVITIES		**Note**
Drums:	☑	
Other Activities:	☐	
Traffic Control:	☐	

PERMIT INFORMATION:

NOTIFICATIONS:

76 Station: 510-437-9837

SITE INFORMATION:

MW-4, MW-5, MW-6, MW-7 & MW-9 recover slow. Take pre-purge samples and then follow standard TRC purge and sample procedures. Submit pre-purge samples if monitoirng doesn't recover with enought water to collect the required bottles after two hours.

Collect DO and ORP measurements pre-purge and after each purge volume.

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

20-Sep-11

Site ID:	5781	**Project No.:**	183487.0035.1640 / 00TA01
Address	3535 Pierson Street	**Client:**	Roya Kambin
City:	Oakland	**Contact #:**	925-790-6270
Cross Street:	Redding St.	**PM:**	Ian Hull CRA
		PM Contact #:	510-420-3344

LAB INFORMATION:

Global ID: T0600101467

Lab WO: 351640

Lab Used: BC Labs

Lab Notes: Lab Analyses:
TPH-D by 8015M w/silica gel clean-up [Containers: two 1L ambers unpreserved]
TPH-G by 8015 [Containers: 3 voas w/HCl]
BTEX/MTBE/OXYS by 8260B, EDB/EDC by 8260B, Ethanol by 8260B [Containers: 3 voas w/HCl]
Methanol by 8015 [Containers: 3 voas unpreserved]
Nitrate, Sulfate [Container: one 500 mL poly unpreserved]
Ferrous Iron [Container: one 500 mL poly w/ HCl]
Methane [Containers: 2 voas unpreserved]

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

20-Sep-11

Site ID.: 5781
Address 3535 Pierson Street
City: Oakland
Cross Street Redding St.

			Gauging				Sampling				Field Measurements			
Well IDs	Benz.	MTBE	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Pre-Purge	Post-Purge	Type	**Comments**
MW-7	0	0	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	D.O., ORP	2" casing
MW-A	0	0.61	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	D.O., ORP	2" casing
MW-9	0	2.1	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	D.O., ORP	2" casing
MW-8	0	2.1	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	D.O., ORP	2" casing
MW-6	0	2.4	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	D.O., ORP	2" casing
MW-4	0	4	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	D.O., ORP	4" casing
MW-5	29	56	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	D.O., ORP	4" casing

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 10/20/2011

Ian Hull

Conestoga-Rovers & Associates
5900 Hollis St. Suite A
Emeryville, CA 94608

Project:	5781
BC Work Order:	1116133
Invoice ID:	B109722

Enclosed are the results of analyses for samples received by the laboratory on 10/4/2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Table of Contents

Table of Contents

11-16133

CHK BY [ ] DISTRIBUTION [ ] SUB-OUT [ ]

SHORT HOLDING TIME				
Cr^{+6}	NO_2	NO_3	OP	SS
DO	Cl_2	BOD	MBAS	COT

CHAIN OF CUSTODY FORM

Union Oil Company of California ■ 6101 Bollinger Canyon Road ■ San Ramon, CA 94583

COC 1 of 1

Union Oil Site ID: 5781	Union Oil Consultant: CRA
Site Global ID: T0600101467	Consultant Contact: IAN Hull
Site Address: 3535 Pierson Street Oakland	Consultant Phone No.: 510-420-3344
	Sampling Company: TRC
Union Oil PM: Roya Kambin	Sampled By (PRINT): BASILIO
Union Oil PM Phone No.: 925-790-6270	Sampler Signature:
Charge Code: NWRTB-0 351640-0-LAB	BC Laboratories, Inc.
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.	Project Manager: Molly Meyers 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911

ANALYSES REQUIRED

Turnaround Time (TAT): Standard ☑ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐

Special Instructions

SAMPLE ID						TPH - Diesel by EPA 8015 w/silica gel cleanup	TPH - G by GC/MS 8015	BTEX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B, EDB/DBCP by 8260B	EPA 8260B Full List with OXYS	Methanol by 8015	Nitrate, Sulfate	Ferrous Iron	Methane			Notes / Comments
Field Point Name	Matrix	DTW	Date (~~yymmdd~~)	Sample Time	# of Containers												
MW-7	W-S-A	-1	10-4-11	1010	15	X	X	X	X		X	X	X	X			
MW-A	W-S-A	-2		1030													
MW-9	W-S-A	-3		1054													
MW-8	W-S-A	-4		1113													
MW-6	W-S-A	-5		1137													
MW-4	W-S-A	-6		1210													
MW-5	W-S-A	-7		1230													
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time :	Relinquished By	Company	Date / Time:
	TRC	10/4/11	Harry Bogan	BCLABS	10-4-11 1845	Idell G	BCL	10-4-11 23:10
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time :**	**Received By**	**Company**	**Date / Time:**
Harry Bogan	BCLABS	10-4-11 19:30	Idell G	BCL	10-4-11 19:00		BCL	10-4-11 2310

Chain of Custody and Cooler Receipt Form for 1116133 Page 2 of 3

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 2

Submission #: 11-16133

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.97 Container: ptfe Thermometer ID: 177

Temperature: A 3.8 °C / C 4.1 °C

Date/Time 10-4-11 2320

Analyst Init JNW

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED	C	C	C							
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A (6)	A (6)	A (6)	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL-504	B (5)	B (5)	B (5)							
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER	E,F	E,F	E,F							
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON	D	D	D							
ENCORE										

Comments:
Sample Numbering Completed By: MM Date/Time: 10/5/11 1/24

A = Actual / C = Corrected

[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

Chain of Custody and Cooler Receipt Form for 1116133 Page 3 of 3

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 2 of 2

Submission #: 11-16133

SHIPPING INFORMATION	SHIPPING CONTAINER
Federal Express ☐ UPS ☐ Hand Delivery ☐	Ice Chest ☑ None ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____	Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.97 Container: ptpe Thermometer ID: 177

Temperature: A 4.4 °C / C 4.7 °C

Date/Time 10/4/11 2320

Analyst Init JNW

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED				C	C	C	C			
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL				A (6)	A (6)	A (6)	A (6)			
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL				B5	B5	B(5)	B(5)			
40 ml VOA VIAL -504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER				E,F	E,F	EF	EF			
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON				D	D	D	D			
ENCORE										

Comments:

Sample Numbering Completed By: [illegible] Date/Time: 10/5/11 1124

A = Actual / C = Corrected

[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

Conestoga-Rovers & Associates
5900 Hollis St. Suite A
Emeryville, CA 94608

Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1116133-01	**COC Number:**	---	**Receive Date:** 10/04/2011 23:10
	Project Number:	5781	**Sampling Date:** 10/04/2011 10:10
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-7-W-111004	**Lab Matrix:** Water
	Sampled By:	TRCI	**Sample Type:** Water
			Delivery Work Order:
			Global ID: T0600101467
			Location ID (FieldPoint): MW-7
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1116133-02	**COC Number:**	---	**Receive Date:** 10/04/2011 23:10
	Project Number:	5781	**Sampling Date:** 10/04/2011 10:30
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-A-W-111004	**Lab Matrix:** Water
	Sampled By:	TRCI	**Sample Type:** Water
			Delivery Work Order:
			Global ID: T0600101467
			Location ID (FieldPoint): MW-A
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1116133-03	**COC Number:**	---	**Receive Date:** 10/04/2011 23:10
	Project Number:	5781	**Sampling Date:** 10/04/2011 10:54
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-9-W-111004	**Lab Matrix:** Water
	Sampled By:	TRCI	**Sample Type:** Water
			Delivery Work Order:
			Global ID: T0600101467
			Location ID (FieldPoint): MW-9
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Conestoga-Rovers & Associates
5900 Hollis St. Suite A
Emeryville, CA 94608

Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1116133-04	**COC Number:**	---	**Receive Date:**	10/04/2011 23:10
	Project Number:	5781	**Sampling Date:**	10/04/2011 11:13
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-8-W-111004	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101467	
			Location ID (FieldPoint): MW-8	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1116133-05	**COC Number:**	---	**Receive Date:**	10/04/2011 23:10
	Project Number:	5781	**Sampling Date:**	10/04/2011 11:37
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-6-W-111004	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101467	
			Location ID (FieldPoint): MW-6	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1116133-06	**COC Number:**	---	**Receive Date:**	10/04/2011 23:10
	Project Number:	5781	**Sampling Date:**	10/04/2011 12:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-4-W-111004	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101467	
			Location ID (FieldPoint): MW-4	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Conestoga-Rovers & Associates
5900 Hollis St. Suite A
Emeryville, CA 94608

Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information

1116133-07

COC Number: ---
Project Number: 5781
Sampling Location: ---
Sampling Point: MW-5-W-111004
Sampled By: TRCI

Receive Date: 10/04/2011 23:10
Sampling Date: 10/04/2011 12:30
Sample Depth: ---
Lab Matrix: Water
Sample Type: Water
Delivery Work Order:
Global ID: T0600101467
Location ID (FieldPoint): MW-5
Matrix: W
Sample QC Type (SACode): CS
Cooler ID:

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Emeryville, CA 94608

Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Solvent Scan (EPA Method 8015)

BCL Sample ID: 1116133-01 | **Client Sample Name:** 5781, MW-7-W-111004, 10/4/2011 10:10:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methanol	ND	ug/L	100	EPA-8015B	ND		1
2-Chloroacrylonitrile (Surrogate)	59.4	%	60 - 140 (LCL - UCL)	EPA-8015B		S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	10/06/11	10/06/11 14:12	LRS	GC-12	1	BUJ0662

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1116133-01 | **Client Sample Name:** 5781, MW-7-W-111004, 10/4/2011 10:10:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	90.8	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.4	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	10/05/11	10/07/11 02:35	KEA	HPCHEM	1	BUJ0289

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1116133-01 | **Client Sample Name:** 5781, MW-7-W-111004, 10/4/2011 10:10:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	93.3	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	10/07/11	10/11/11 20:15	jjh	GC-V4	1	BUJ0424

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1116133-01 | **Client Sample Name:** 5781, MW-7-W-111004, 10/4/2011 10:10:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	113	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	10/10/11	10/17/11 15:25	MWB	GC-5	1	BUJ1180

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Gas Testing in Water

BCL Sample ID: 1116133-01 | **Client Sample Name:** 5781, MW-7-W-111004, 10/4/2011 10:10:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	ND	mg/L	0.0010	RSK-175M	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	10/07/11	10/11/11 08:53	JMC	GC-V1	1	BUJ0374

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Water Analysis (General Chemistry)

BCL Sample ID: 1116133-01 | **Client Sample Name:** 5781, MW-7-W-111004, 10/4/2011 10:10:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**4.2**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**100**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	ND	ug/L	500	SM-3500-FeD	ND	A10	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	10/05/11	10/06/11 00:12	LD1	IC2	1	BUJ0336
2	SM-3500-FeD	10/05/11	10/05/11 19:30	MRM2	SPEC05	5	BUJ0277

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Solvent Scan (EPA Method 8015)

BCL Sample ID: 1116133-02 | **Client Sample Name:** 5781, MW-A-W-111004, 10/4/2011 10:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methanol	ND	ug/L	100	EPA-8015B	ND		1
2-Chloroacrylonitrile (Surrogate)	59.8	%	60 - 140 (LCL - UCL)	EPA-8015B		S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	10/06/11	10/06/11 14:34	LRS	GC-12	1	BUJ0662

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1116133-02 | **Client Sample Name:** 5781, MW-A-W-111004, 10/4/2011 10:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**0.72**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	99.8	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	10/05/11	10/06/11 23:54	KEA	HPCHEM	1	BUJ0289

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1116133-02 | **Client Sample Name:** 5781, MW-A-W-111004, 10/4/2011 10:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	95.1	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	10/07/11	10/11/11 20:37	jjh	GC-V4	1	BUJ0424

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1116133-02 | **Client Sample Name:** 5781, MW-A-W-111004, 10/4/2011 10:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	121	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	10/10/11	10/17/11 15:39	MWB	GC-5	1	BUJ1180

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Gas Testing in Water

BCL Sample ID: 1116133-02 | **Client Sample Name:** 5781, MW-A-W-111004, 10/4/2011 10:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	ND	mg/L	0.0010	RSK-175M	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	10/07/11	10/11/11 08:49	JMC	GC-V1	1	BUJ0374

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Water Analysis (General Chemistry)

BCL Sample ID: 1116133-02 | **Client Sample Name:** 5781, MW-A-W-111004, 10/4/2011 10:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**13**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**69**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	10/05/11	10/06/11 01:47	LD1	IC2	1	BUJ0336
2	SM-3500-FeD	10/05/11	10/05/11 19:30	MRM2	SPEC05	1	BUJ0277

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Solvent Scan (EPA Method 8015)

BCL Sample ID: 1116133-03 | **Client Sample Name:** 5781, MW-9-W-111004, 10/4/2011 10:54:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methanol	ND	ug/L	100	EPA-8015B	ND		1
2-Chloroacrylonitrile (Surrogate)	63.6	%	60 - 140 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	10/06/11	10/06/11 14:54	LRS	GC-12	1	BUJ0662

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Emeryville, CA 94608

Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1116133-03 | **Client Sample Name:** 5781, MW-9-W-111004, 10/4/2011 10:54:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**2.4**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	10/05/11	10/06/11 23:30	KEA	HPCHEM	1	BUJ0289

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1116133-03 | **Client Sample Name:** 5781, MW-9-W-111004, 10/4/2011 10:54:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	95.1	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	10/07/11	10/11/11 20:58	jjh	GC-V4	1	BUJ0424

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1116133-03 | **Client Sample Name:** 5781, MW-9-W-111004, 10/4/2011 10:54:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	118	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	10/10/11	10/17/11 15:54	MWB	GC-5	0.960	BUJ1180

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Gas Testing in Water

BCL Sample ID: 1116133-03 | **Client Sample Name:** 5781, MW-9-W-111004, 10/4/2011 10:54:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	ND	mg/L	0.0010	RSK-175M	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	10/07/11	10/11/11 08:45	JMC	GC-V1	1	BUJ0374

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Water Analysis (General Chemistry)

BCL Sample ID: 1116133-03 | **Client Sample Name:** 5781, MW-9-W-111004, 10/4/2011 10:54:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**3.2**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**47**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	ND	ug/L	200	SM-3500-FeD	ND	A10	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	10/05/11	10/06/11 02:01	LD1	IC2	1	BUJ0336
2	SM-3500-FeD	10/05/11	10/05/11 19:30	MRM2	SPEC05	2	BUJ0277

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Solvent Scan (EPA Method 8015)

BCL Sample ID: 1116133-04 | **Client Sample Name:** 5781, MW-8-W-111004, 10/4/2011 11:13:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methanol	ND	ug/L	100	EPA-8015B	ND		1
2-Chloroacrylonitrile (Surrogate)	86.8	%	60 - 140 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	10/06/11	10/06/11 15:15	LRS	GC-12	1	BUJ0662

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1116133-04 | **Client Sample Name:** 5781, MW-8-W-111004, 10/4/2011 11:13:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**1.5**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	99.4	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	10/05/11	10/06/11 23:07	KEA	HPCHEM	1	BUJ0289

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1116133-04 | **Client Sample Name:** 5781, MW-8-W-111004, 10/4/2011 11:13:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	94.9	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	10/07/11	10/11/11 21:20	jjh	GC-V4	1	BUJ0424

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1116133-04 | **Client Sample Name:** 5781, MW-8-W-111004, 10/4/2011 11:13:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	104	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	10/10/11	10/17/11 16:08	MWB	GC-5	1	BUJ1180

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5900 Hollis St. Suite A
Emeryville, CA 94608

Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Gas Testing in Water

BCL Sample ID: 1116133-04 | **Client Sample Name:** 5781, MW-8-W-111004, 10/4/2011 11:13:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	ND	mg/L	0.0010	RSK-175M	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	10/07/11	10/11/11 08:41	JMC	GC-V1	1	BUJ0374

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Emeryville, CA 94608

Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Water Analysis (General Chemistry)

BCL Sample ID: 1116133-04 | **Client Sample Name:** 5781, MW-8-W-111004, 10/4/2011 11:13:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**2.8**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**67**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	**190**	**ug/L**	**100**	**SM-3500-FeD**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	10/05/11	10/06/11 02:15	LD1	IC2	1	BUJ0336
2	SM-3500-FeD	10/05/11	10/05/11 19:30	MRM2	SPEC05	1	BUJ0277

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Solvent Scan (EPA Method 8015)

BCL Sample ID: 1116133-05 | **Client Sample Name:** 5781, MW-6-W-111004, 10/4/2011 11:37:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methanol	ND	ug/L	100	EPA-8015B	ND		1
2-Chloroacrylonitrile (Surrogate)	107	%	60 - 140 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	10/06/11	10/06/11 15:37	LRS	GC-12	1	BUJ0662

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1116133-05 | **Client Sample Name:** 5781, MW-6-W-111004, 10/4/2011 11:37:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**3.1**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.9	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	10/05/11	10/06/11 22:44	KEA	HPCHEM	1	BUJ0289

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1116133-05 | **Client Sample Name:** 5781, MW-6-W-111004, 10/4/2011 11:37:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	94.8	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	10/10/11	10/11/11 21:42	jjh	GC-V4	1	BUJ0423

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1116133-05 | **Client Sample Name:** 5781, MW-6-W-111004, 10/4/2011 11:37:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	113	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	10/10/11	10/17/11 16:23	MWB	GC-5	0.960	BUJ1180

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Gas Testing in Water

BCL Sample ID: 1116133-05 | **Client Sample Name:** 5781, MW-6-W-111004, 10/4/2011 11:37:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	ND	mg/L	0.0010	RSK-175M	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	10/07/11	10/11/11 08:37	JMC	GC-V1	1	BUJ0374

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Water Analysis (General Chemistry)

BCL Sample ID: 1116133-05 | **Client Sample Name:** 5781, MW-6-W-111004, 10/4/2011 11:37:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**24**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**78**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	**100**	**ug/L**	**100**	**SM-3500-FeD**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	10/05/11	10/06/11 02:28	LD1	IC2	1	BUJ0336
2	SM-3500-FeD	10/05/11	10/05/11 19:30	MRM2	SPEC05	1	BUJ0277

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Solvent Scan (EPA Method 8015)

BCL Sample ID: 1116133-06 | **Client Sample Name:** 5781, MW-4-W-111004, 10/4/2011 12:10:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methanol	ND	ug/L	100	EPA-8015B	ND		1
2-Chloroacrylonitrile (Surrogate)	98.3	%	60 - 140 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	10/06/11	10/06/11 15:59	LRS	GC-12	1	BUJ0662

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1116133-06 | **Client Sample Name:** 5781, MW-4-W-111004, 10/4/2011 12:10:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**3.8**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	95.7	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.0	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	99.2	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	10/05/11	10/11/11 15:36	KEA	HPCHEM	1	BUJ0289

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1116133-06 | **Client Sample Name:** 5781, MW-4-W-111004, 10/4/2011 12:10:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	94.6	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	10/10/11	10/11/11 22:04	jjh	GC-V4	1	BUJ0423

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1116133-06 | **Client Sample Name:** 5781, MW-4-W-111004, 10/4/2011 12:10:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	106	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	10/10/11	10/17/11 17:22	MWB	GC-5	1	BUJ1180

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Gas Testing in Water

BCL Sample ID: 1116133-06 | **Client Sample Name:** 5781, MW-4-W-111004, 10/4/2011 12:10:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**0.030**	**mg/L**	**0.0010**	**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	10/07/11	10/11/11 08:33	JMC	GC-V1	1	BUJ0374

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Emeryville, CA 94608

Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Water Analysis (General Chemistry)

BCL Sample ID: 1116133-06 | **Client Sample Name:** 5781, MW-4-W-111004, 10/4/2011 12:10:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**4.3**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**50**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	**100**	**ug/L**	**100**	**SM-3500-FeD**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	10/05/11	10/06/11 02:42	LD1	IC2	1	BUJ0336
2	SM-3500-FeD	10/05/11	10/05/11 19:30	MRM2	SPEC05	1	BUJ0277

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Solvent Scan (EPA Method 8015)

BCL Sample ID: 1116133-07 | **Client Sample Name:** 5781, MW-5-W-111004, 10/4/2011 12:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methanol	ND	ug/L	100	EPA-8015B	ND		1
2-Chloroacrylonitrile (Surrogate)	63.3	%	60 - 140 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	10/06/11	10/06/11 17:25	LRS	GC-12	1	BUJ0662

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Emeryville, CA 94608

Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1116133-07 | **Client Sample Name:** 5781, MW-5-W-111004, 10/4/2011 12:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**21**	**ug/L**	**12**	**EPA-8260**	ND	**A01**	1
1,2-Dibromoethane	ND	ug/L	12	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	ug/L	12	EPA-8260	ND	A01	1
Ethylbenzene	**2400**	**ug/L**	**12**	**EPA-8260**	ND	**A01**	1
Methyl t-butyl ether	**42**	**ug/L**	**12**	**EPA-8260**	ND	**A01**	1
Toluene	**2400**	**ug/L**	**12**	**EPA-8260**	ND	**A01**	1
Total Xylenes	**20000**	**ug/L**	**200**	**EPA-8260**	ND	**A01**	2
t-Amyl Methyl ether	ND	ug/L	12	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	ug/L	250	EPA-8260	ND	A01	1
Diisopropyl ether	ND	ug/L	12	EPA-8260	ND	A01	1
Ethanol	ND	ug/L	6200	EPA-8260	ND	A01	1
Ethyl t-butyl ether	ND	ug/L	12	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	95.9	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	88.4	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	96.3	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	94.2	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	10/05/11	10/06/11 21:57	KEA	HPCHEM	25	BUJ0289
2	EPA-8260	10/05/11	10/11/11 15:58	KEA	HPCHEM	200	BUJ0289

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1116133-07 | **Client Sample Name:** 5781, MW-5-W-111004, 10/4/2011 12:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**42000**	**ug/L**	**2500**	**EPA-8015B**	ND	**A01**	1
a,a,a-Trifluorotoluene (FID Surrogate)	99.6	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	10/10/11	10/12/11 17:33	jjh	GC-V4	50	BUJ0423

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1116133-07 | **Client Sample Name:** 5781, MW-5-W-111004, 10/4/2011 12:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**20000**	**ug/L**	**1000**	**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	146	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	10/10/11	10/18/11 14:08	MWB	GC-5	24.500	BUJ1180

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Gas Testing in Water

BCL Sample ID: 1116133-07 | **Client Sample Name:** 5781, MW-5-W-111004, 10/4/2011 12:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**1.9**	**mg/L**	**0.025**	**RSK-175M**	ND	**A01**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	10/07/11	10/11/11 08:30	JMC	GC-V1	25	BUJ0374

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Water Analysis (General Chemistry)

BCL Sample ID: 1116133-07 | **Client Sample Name:** 5781, MW-5-W-111004, 10/4/2011 12:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		1
Sulfate	**1.3**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	**17000**	**ug/L**	**1000**	**SM-3500-FeD**	ND	**A01**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	10/05/11	10/06/11 02:55	LD1	IC2	1	BUJ0336
2	SM-3500-FeD	10/05/11	10/05/11 19:30	MRM2	SPEC05	10	BUJ0277

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Solvent Scan (EPA Method 8015)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUJ0662						
Methanol	BUJ0662-BLK1	ND	ug/L	100		
2-Chloroacrylonitrile (Surrogate)	BUJ0662-BLK1	57.8	%	60 - 140 (LCL - UCL)		

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Solvent Scan (EPA Method 8015)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUJ0662										
Methanol	BUJ0662-BS1	LCS	2177.3	2000.0	ug/L	109		50 - 150		
2-Chloroacrylonitrile (Surrogate)	BUJ0662-BS1	LCS	2365.9	4000.0	ug/L	59.1		60 - 140		S09

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Solvent Scan (EPA Method 8015)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUJ0662	Used client sample: N										
Methanol	MS	1115418-30	ND	2172.3	2000.0	ug/L		109		50 - 150	
	MSD	1115418-30	ND	2071.8	2000.0	ug/L	4.7	104	30	50 - 150	
2-Chloroacrylonitrile (Surrogate)	MS	1115418-30	ND	2411.0	4000.0	ug/L		60.3		60 - 140	
	MSD	1115418-30	ND	2241.8	4000.0	ug/L	7.3	56.0		60 - 140	S09

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUJ0289						
Benzene	BUJ0289-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BUJ0289-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BUJ0289-BLK1	ND	ug/L	0.50		
Ethylbenzene	BUJ0289-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BUJ0289-BLK1	ND	ug/L	0.50		
Toluene	BUJ0289-BLK1	ND	ug/L	0.50		
Total Xylenes	BUJ0289-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BUJ0289-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BUJ0289-BLK1	ND	ug/L	10		
Diisopropyl ether	BUJ0289-BLK1	ND	ug/L	0.50		
Ethanol	BUJ0289-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BUJ0289-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	BUJ0289-BLK1	108	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BUJ0289-BLK1	100	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BUJ0289-BLK1	102	%	86 - 115 (LCL - UCL)		

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Reported: 10/20/2011 11:50
Project: 5781
Project Number: 351640
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUJ0289										
Benzene	BUJ0289-BS1	LCS	28.940	25.000	ug/L	116		70 - 130		
Toluene	BUJ0289-BS1	LCS	27.310	25.000	ug/L	109		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUJ0289-BS1	LCS	10.510	10.000	ug/L	105		76 - 114		
Toluene-d8 (Surrogate)	BUJ0289-BS1	LCS	10.260	10.000	ug/L	103		88 - 110		
4-Bromofluorobenzene (Surrogate)	BUJ0289-BS1	LCS	9.6000	10.000	ug/L	96.0		86 - 115		

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Reported: 10/20/2011 11:50
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Project Number: 351640
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUJ0289	Used client sample: N										
Benzene	MS	1115418-44	ND	28.830	25.000	ug/L		115		70 - 130	
	MSD	1115418-44	ND	27.860	25.000	ug/L	3.4	111	20	70 - 130	
Toluene	MS	1115418-44	ND	27.760	25.000	ug/L		111		70 - 130	
	MSD	1115418-44	ND	26.030	25.000	ug/L	6.4	104	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1115418-44	ND	9.8300	10.000	ug/L		98.3		76 - 114	
	MSD	1115418-44	ND	10.240	10.000	ug/L	4.1	102		76 - 114	
Toluene-d8 (Surrogate)	MS	1115418-44	ND	10.220	10.000	ug/L		102		88 - 110	
	MSD	1115418-44	ND	10.110	10.000	ug/L	1.1	101		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1115418-44	ND	9.5900	10.000	ug/L		95.9		86 - 115	
	MSD	1115418-44	ND	9.8300	10.000	ug/L	2.5	98.3		86 - 115	

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUJ0423						
Gasoline Range Organics (C4 - C12)	BUJ0423-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BUJ0423-BLK1	91.8	%	70 - 130 (LCL - UCL)		
QC Batch ID: BUJ0424						
Gasoline Range Organics (C4 - C12)	BUJ0424-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BUJ0424-BLK1	96.2	%	70 - 130 (LCL - UCL)		

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUJ0423										
Gasoline Range Organics (C4 - C12)	BUJ0423-BS1	LCS	972.35	1000.0	ug/L	97.2		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BUJ0423-BS1	LCS	40.919	40.000	ug/L	102		70 - 130		
QC Batch ID: BUJ0424										
Gasoline Range Organics (C4 - C12)	BUJ0424-BS1	LCS	1017.3	1000.0	ug/L	102		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BUJ0424-BS1	LCS	42.303	40.000	ug/L	106		70 - 130		

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Project Number: 351640
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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUJ0423	Used client sample: N										
Gasoline Range Organics (C4 - C12)	MS	1115418-40	ND	977.01	1000.0	ug/L		97.7		70 - 130	
	MSD	1115418-40	ND	1010.0	1000.0	ug/L	3.3	101	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1115418-40	ND	40.413	40.000	ug/L		101		70 - 130	
	MSD	1115418-40	ND	40.431	40.000	ug/L	0.0	101		70 - 130	
QC Batch ID: BUJ0424	Used client sample: N										
Gasoline Range Organics (C4 - C12)	MS	1115418-41	ND	1012.3	1000.0	ug/L		101		70 - 130	
	MSD	1115418-41	ND	1056.8	1000.0	ug/L	4.3	106	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1115418-41	ND	41.263	40.000	ug/L		103		70 - 130	
	MSD	1115418-41	ND	42.416	40.000	ug/L	2.8	106		70 - 130	

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Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUJ1180						
Diesel Range Organics (C12 - C24)	BUJ1180-BLK1	ND	ug/L	40		
Tetracosane (Surrogate)	BUJ1180-BLK1	89.3	%	28 - 139 (LCL - UCL)		

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Project Manager: Ian Hull

Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUJ1180										
Diesel Range Organics (C12 - C24)	BUJ1180-BS1	LCS	334.03	500.00	ug/L	66.8		48 - 125		
Tetracosane (Surrogate)	BUJ1180-BS1	LCS	21.220	20.000	ug/L	106		28 - 139		

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Project Number: 351640
Project Manager: Ian Hull

Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUJ1180	Used client sample: N										
Diesel Range Organics (C12 - C24)	MS	1115418-17	ND	268.80	500.00	ug/L		53.8		36 - 130	
	MSD	1115418-17	ND	329.25	500.00	ug/L	20.2	65.9	30	36 - 130	
Tetracosane (Surrogate)	MS	1115418-17	ND	19.389	20.000	ug/L		96.9		28 - 139	
	MSD	1115418-17	ND	23.104	20.000	ug/L	17.5	116		28 - 139	

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Gas Testing in Water

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUJ0374						
Methane	BUJ0374-BLK1	ND	mg/L	0.0010		

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Gas Testing in Water

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUJ0374										
Methane	BUJ0374-BS1	LCS	0.010105	0.010843	mg/L	93.2		80 - 120		
	BUJ0374-BSD1	LCSD	0.010274	0.010843	mg/L	94.8	1.7	80 - 120	20	

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Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUJ0277						
Iron (II) Species	BUJ0277-BLK1	ND	ug/L	100		
QC Batch ID: BUJ0336						
Nitrate as NO3	BUJ0336-BLK1	ND	mg/L	0.44		
Sulfate	BUJ0336-BLK1	ND	mg/L	1.0		

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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUJ0277										
Iron (II) Species	BUJ0277-BS1	LCS	2043.9	2000.0	ug/L	102		90 - 110		
QC Batch ID: BUJ0336										
Nitrate as NO3	BUJ0336-BS1	LCS	21.209	22.134	mg/L	95.8		90 - 110		
Sulfate	BUJ0336-BS1	LCS	100.51	100.00	mg/L	101		90 - 110		

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Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUJ0277	Used client sample: Y - Description: MW-7-W-111004, 10/04/2011 10:10										
Iron (II) Species	DUP	1116133-01	ND	ND		ug/L			10		
QC Batch ID: BUJ0336	Used client sample: Y - Description: MW-7-W-111004, 10/04/2011 10:10										
Nitrate as NO3	DUP	1116133-01	4.2055	4.5330		mg/L	7.5		10		
	MS	1116133-01	4.2055	26.529	22.358	mg/L		99.8		80 - 120	
	MSD	1116133-01	4.2055	26.556	22.358	mg/L	0.1	100	10	80 - 120	
Sulfate	DUP	1116133-01	100.30	99.949		mg/L	0.4		10		
	MS	1116133-01	100.30	207.78	101.01	mg/L		106		80 - 120	
	MSD	1116133-01	100.30	207.38	101.01	mg/L	0.2	106	10	80 - 120	

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Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A10	PQL's and MDL's were raised due to matrix interference.
A52	Chromatogram not typical of diesel.
S09	The surrogate recovery on the sample for this compound was not within the control limits.

ATTACHMENT C

HISTORICAL GROUNDWATER MONITORING AND SAMPLING DATA

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

March 10, 2011
76 Station 5781

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G 8015 (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-4														
6/16/2010	153.48	11.13	0	142.35	--	ND<50	58	ND<0.50	9.7	1.3	16	--	5.4	
9/29/2010	153.48	12.62	0	140.86	-1.49	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	7.3	
12/21/2010	153.48	11.17	0	142.31	1.45	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/10/2011	153.48	10.57	0	142.91	0.60	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.2	
MW-5														
6/16/2010	153.66	11.95	0	141.71	--	3000	29000	580	6800	850	7200	--	ND<50	
9/29/2010	153.66	13.67	0	139.99	-1.72	64000	29000	220	4100	2500	23000	--	52	
12/21/2010	153.66	11.17	0	142.49	2.50	11000	50000	81	4800	2200	22000	--	ND<50	
3/10/2011	153.66	11.35	0	142.31	-0.18	4900	48000	69	3600	1700	20000	--	ND<50	
MW-6														
12/21/2010	154.62	12.10	0	142.52	--	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	32	
3/10/2011	154.62	11.36	0	143.26	0.74	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.6	
MW-7														
12/21/2010	155.38	13.46	0	141.92	--	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/10/2011	155.38	12.07	0	143.31	1.39	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-8														
12/21/2010	153.71	11.63	0	142.08	--	81	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.9	
3/10/2011	153.71	11.38	0	142.33	0.25	61	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.3	
MW-9														
12/21/2010	153.37	10.53	0	142.84	--	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.2	
3/10/2011	153.37	10.86	0	142.51	-0.33	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.90	
MW-A														
12/18/1990	--	--	--	--	--	73	ND	ND	ND	ND	ND	--		
5/3/1991	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--		
8/7/1991	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--		
11/8/1991	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--		
2/6/1992	151.80	19.88	0	131.92	--	ND	ND	ND	ND	ND	ND	--		
8/4/1992	151.80	18.95	0	132.85	0.93	ND	ND	ND	ND	ND	0.51	--		
2/10/1993	151.80	17.71	0	134.09	1.24	ND	ND	ND	ND	ND	ND	--		
2/10/1994	151.80	15.25	0	136.55	2.46	ND	ND	ND	0.52	ND	0.92	--		
2/9/1995	151.80	15.68	0	136.12	-0.43	ND	ND	ND	ND	ND	ND	--		
2/6/1996	151.80	12.52	0	139.28	3.16	120	ND	ND	ND	ND	2.1	--		
2/5/1997	151.80	13.01	0	138.79	-0.49	61	ND	ND	ND	ND	ND	--	ND	
2/2/1998	151.80	11.91	0	139.89	1.10	ND	ND	ND	ND	ND	ND	--	ND	
2/22/1999	151.80	11.24	0	140.56	0.67	ND	ND	ND	ND	ND	ND	--	ND	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

March 10, 2011
76 Station 5781

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G 8015 (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
2/26/2000	151.80	12.16	0	139.64	-0.92	ND	ND	ND	1.01	ND	ND	--	ND	
3/7/2001	151.80	11.91	0	139.89	0.25	131	ND	ND	ND	ND	ND	ND	ND	
2/22/2002	151.80	14.08	0	137.72	-2.17	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<5.0	
2/22/2003	151.80	14.41	0	137.39	-0.33	93	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<2.0	
2/3/2004	151.80	14.32	0	137.48	0.09	60	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0	
2/18/2005	151.80	14.21	0	137.59	0.11	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<0.50	
3/29/2006	151.80	12.72	0	139.08	1.49	ND<200	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	0.54	
3/28/2007	151.80	13.98	0	137.82	-1.26	92	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	ND<0.50	
3/22/2008	151.80	12.68	0	139.12	1.30	ND<50	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	ND<0.50	
3/27/2009	151.80	14.35	0	137.45	-1.67	53	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	ND<0.50	
3/23/2010	151.80	19.55	0	132.25	-5.20	ND<58	--	--	--	--	--	--		
6/16/2010	154.79	17.85	0	136.94	4.69	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/29/2010	154.79	15.50	0	139.29	2.35	ND<1200	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.63	
12/21/2010	154.79	14.43	0	140.36	1.07	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.65	
3/10/2011	154.79	17.70	0	137.09	-3.27	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.56	

Table 2a
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 5781

Date Sampled	TPH-G (GC/MS) ()	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Methanol (µg/l)	Total Oil and Grease (mg/l)	TRPH (mg/l)	Bromo-dichloro-methane (µg/l)	Comments
MW-4													
6/16/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--	
9/29/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--	
12/21/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--	
3/10/2011	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--	
MW-5													
6/16/2010	--	ND<1000	ND<25000	ND<50	ND<50	ND<50	ND<50	ND<50	ND<100	--	--	--	
9/29/2010	--	ND<1000	ND<25000	ND<50	ND<50	ND<50	ND<50	ND<50	ND<1000	--	--	--	
12/21/2010	--	ND<1000	ND<25000	ND<50	ND<50	ND<50	ND<50	ND<50	ND<100	--	--	--	
3/10/2011	--	ND<1000	ND<25000	ND<50	ND<50	ND<50	ND<50	ND<50	ND<100	--	--	--	
MW-6													
12/21/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--	
3/10/2011	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--	
MW-7													
12/21/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--	
3/10/2011	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--	
MW-8													
12/21/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--	
3/10/2011	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--	
MW-9													
12/21/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--	
3/10/2011	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--	
MW-A													
2/6/1996	--	--	--	--	--	--	--	--	--	--	--	--	
2/5/1997	--	--	--	--	--	--	--	--	--	--	--	--	
3/7/2001	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	
2/22/2003	--	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
2/3/2004	--	ND<100	ND<500	ND<2.0	ND<0.50	ND<2.0	ND<2.0	ND<2.0	--	--	ND<1.0	ND<0.50	
2/18/2005	--	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<2.0	--	ND<0.50	
3/29/2006	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	ND<0.50	
3/28/2007	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<5.0	--	ND<0.50	
3/22/2008	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<5.0	--	ND<0.50	
3/27/2009	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<5.0	--	ND<0.50	
6/16/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--	
9/29/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--	
12/21/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--	
3/10/2011	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--	

Table 2b
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 5781

Date Sampled	Bromo-form (µg/l)	Bromo-methane (µg/l)	Carbon Tetra-chloride (µg/l)	Chloro-benzene (µg/l)	Chloro-ethane (µg/l)	2-Chloroethyl vinyl ether (µg/l)	Chloroform (µg/l)	Chloro-methane (µg/l)	Dibromo-chloro-methane (µg/l)	1,2-Dichloro-benzene (µg/l)	1,3-Dichloro-benzene (µg/l)	1,4-Dichloro-benzene (µg/l)	Comments
MW-4													
6/16/2010	--	--	--	--	--	--	--	--	--	--	--	--	
9/29/2010	--	--	--	--	--	--	--	--	--	--	--	--	
12/21/2010	--	--	--	--	--	--	--	--	--	--	--	--	
3/10/2011	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5													
6/16/2010	--	--	--	--	--	--	--	--	--	--	--	--	
9/29/2010	--	--	--	--	--	--	--	--	--	--	--	--	
12/21/2010	--	--	--	--	--	--	--	--	--	--	--	--	
3/10/2011	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6													
12/21/2010	--	--	--	--	--	--	--	--	--	--	--	--	
3/10/2011	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7													
12/21/2010	--	--	--	--	--	--	--	--	--	--	--	--	
3/10/2011	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8													
12/21/2010	--	--	--	--	--	--	--	--	--	--	--	--	
3/10/2011	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9													
12/21/2010	--	--	--	--	--	--	--	--	--	--	--	--	
3/10/2011	--	--	--	--	--	--	--	--	--	--	--	--	
MW-A													
2/6/1996	--	--	--	--	--	--	--	--	--	--	--	--	
2/5/1997	--	--	--	--	--	--	--	--	--	--	--	--	
3/7/2001	--	--	--	--	--	--	--	--	--	--	--	--	
2/22/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/3/2004	ND<2.0	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<2.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
2/18/2005	ND<2.0	ND<1.0	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
3/29/2006	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
3/28/2007	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
3/22/2008	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
3/27/2009	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
6/16/2010	--	--	--	--	--	--	--	--	--	--	--	--	
9/29/2010	--	--	--	--	--	--	--	--	--	--	--	--	
12/21/2010	--	--	--	--	--	--	--	--	--	--	--	--	

Table 2b
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 5781

Date Sampled	Bromo-form (µg/l)	Bromo-methane (µg/l)	Carbon Tetra-chloride (µg/l)	Chloro-benzene (µg/l)	Chloro-ethane (µg/l)	2-Chloroethyl vinyl ether (µg/l)	Chloroform (µg/l)	Chloro-methane (µg/l)	Dibromo-chloro-methane (µg/l)	1,2-Dichloro-benzene (µg/l)	1,3-Dichloro-benzene (µg/l)	1,4-Dichloro-benzene (µg/l)	Comments
3/10/2011	--	--	--	--	--	--	--	--	--	--	--	--	

Table 2c
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 5781

Date Sampled	Dichloro-difluoro-methane (µg/l)	1,1-DCA (µg/l)	1,1-DCE (µg/l)	cis-1,2-DCE (µg/l)	trans-1,2-DCE (µg/l)	1,2-Dichloro-propane (µg/l)	cis-1,3-Dichloro-propene (µg/l)	trans-1,3-Dichloro-propene (µg/l)	Methylene chloride (µg/l)	1,1,2,2-Tetrachloro-ethane (µg/l)	Tetrachloro-ethene (PCE) (µg/l)	Trichloro-trifluoro-ethane (µg/l)	Comments
MW-4													
6/16/2010	--	--	--	--	--	--	--	--	--	--	--	--	
9/29/2010	--	--	--	--	--	--	--	--	--	--	--	--	
12/21/2010	--	--	--	--	--	--	--	--	--	--	--	--	
3/10/2011	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5													
6/16/2010	--	--	--	--	--	--	--	--	--	--	--	--	
9/29/2010	--	--	--	--	--	--	--	--	--	--	--	--	
12/21/2010	--	--	--	--	--	--	--	--	--	--	--	--	
3/10/2011	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6													
12/21/2010	--	--	--	--	--	--	--	--	--	--	--	--	
3/10/2011	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7													
12/21/2010	--	--	--	--	--	--	--	--	--	--	--	--	
3/10/2011	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8													
12/21/2010	--	--	--	--	--	--	--	--	--	--	--	--	
3/10/2011	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9													
12/21/2010	--	--	--	--	--	--	--	--	--	--	--	--	
3/10/2011	--	--	--	--	--	--	--	--	--	--	--	--	
MW-A													
2/6/1996	--	--	--	--	--	--	--	--	--	--	--	--	
2/5/1997	--	--	--	--	--	--	--	--	--	--	--	--	
3/7/2001	--	--	--	--	--	--	--	--	--	--	--	--	
2/22/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/3/2004	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	
2/18/2005	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	
3/29/2006	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	
3/28/2007	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	
3/22/2008	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	
3/27/2009	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	
6/16/2010	--	--	--	--	--	--	--	--	--	--	--	--	
9/29/2010	--	--	--	--	--	--	--	--	--	--	--	--	
12/21/2010	--	--	--	--	--	--	--	--	--	--	--	--	
3/10/2011	--	--	--	--	--	--	--	--	--	--	--	--	

Table 2d
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 5781

Date Sampled	1,1,1-Trichloro-ethane (µg/l)	1,1,2-Trichloro-ethane (µg/l)	Trichloro-ethene (TCE) (µg/l)	Trichloro-fluoro-methane (µg/l)	Vinyl chloride (µg/l)	Comments
MW-4						
6/16/2010	--	--	--	--	--	
9/29/2010	--	--	--	--	--	
12/21/2010	--	--	--	--	--	
3/10/2011	--	--	--	--	--	
MW-5						
6/16/2010	--	--	--	--	--	
9/29/2010	--	--	--	--	--	
12/21/2010	--	--	--	--	--	
3/10/2011	--	--	--	--	--	
MW-6						
12/21/2010	--	--	--	--	--	
3/10/2011	--	--	--	--	--	
MW-7						
12/21/2010	--	--	--	--	--	
3/10/2011	--	--	--	--	--	
MW-8						
12/21/2010	--	--	--	--	--	
3/10/2011	--	--	--	--	--	
MW-9						
12/21/2010	--	--	--	--	--	
3/10/2011	--	--	--	--	--	
MW-A						
2/6/1996	--	--	--	--	--	
2/5/1997	--	--	--	--	--	
3/7/2001	--	--	--	--	--	
2/22/2003	--	--	--	--	--	
2/3/2004	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	
2/18/2005	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	
3/29/2006	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
3/28/2007	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
3/22/2008	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
3/27/2009	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
6/16/2010	--	--	--	--	--	
9/29/2010	--	--	--	--	--	
12/21/2010	--	--	--	--	--	
3/10/2011	--	--	--	--	--	

TABLE KEY

STANDARD ABBREVIATIONS

--	=	not analyzed, measured, or collected
LPH	=	liquid-phase hydrocarbons
µg/l	=	micrograms per liter (approx equivalent to parts per billion, ppb)
mg/l	=	milligrams per liter (approx equivalent to parts per million, ppm)
ND<	=	not detected at or above laboratory detection limit
TOC	=	top of casing (surveyed reference elevation)
D	=	duplicate
P	=	no-purge sample

ANALYTES

DIPE	=	di-isopropyl ether
ETBE	=	ethyl tertiary butyl ether
MTBE	=	methyl tertiary butyl ether
PCB	=	polychlorinated biphenyls
PCE	=	tetrachloroethene
TBA	=	tertiary butyl alcohol
TCA	=	trichloroethane
TCE	=	trichloroethene
TPH-G	=	total petroleum hydrocarbons with gasoline distinction
TPH-G (GC/MS)	=	total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B
TPH-D	=	total petroleum hydrocarbons with diesel distinction
TRPH	=	total recoverable petroleum hydrocarbons
TAME	=	tertiary amyl methyl ether
1,2-DCA	=	1,2-dichloroethane (same as EDC, ethylene dichloride)

NOTES

1 Elevations are in feet above mean sea level Depths are in feet below surveyed top-of-casing

2 Groundwater elevations for wells with LPH are calculated as Surface Elevation – Measured Depth to Water + (Dp x LPH Thickness), where Dp is the density of the LPH, if known A value of 0 75 is used for gasoline and when the density is not known A value of 0 83 is used for diesel

3 Wells with LPH are generally not sampled for laboratory analysis (see General Field Procedures)

4 Comments shown on tables are general Additional explanations may be included in field notes and laboratory reports, both of which are included as part of this report

5 A "J" flag indicates that a reported analytical result is an estimated concentration value between the method detection limit (MDL) and the practical quantification limit (PQL) specified by the laboratory

6 Other laboratory flags (qualifiers) may have been reported See the official laboratory report (attached) for a complete list of laboratory flags

7 Concentration graphs based on tables (presented following Figures) show non-detect results prior to the Second Quarter 2000 plotted at fixed values for graphical display Non-detect results reported since that time are plotted at reporting limits stated in the official laboratory report

8 Prior to the 1st quarter 2010, the word "monitor" was used in table comments interchangeably with the word "gauge" Starting in the 1st quarter 2010, the word "monitor" is used to include both "gauge" and "sample"

REFERENCE

TRC began groundwater monitoring and sampling for 76 Station 5781 in October 2003 Historical data compiled prior to that time were provided by Gettler-Ryan Inc