

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

RECEIVED

1:14 pm, Jul 26, 2011 Alameda County Environmental Health

I have reviewed the attached report dated July 22, 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



5900 Hollis Street, Suite A Emeryville, California 94608

Telephone: (510) 420-0700 Fax: (510) 420-9170

http://www.craworld.com

July 22, 2011 Reference No. 060723

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

Re: Second Quarter 2011

Groundwater Monitoring and Sampling Report

UNOCAL #5781

Union Oil Company of California Facility ID No. 35-1640

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 *Second Quarter 2011 Groundwater Monitoring and Sampling Report* for the site referenced above (Figures 1 and 2). As of March 18, 2011 ("Effective Date"), ConocoPhillips Company transferred the management of the environmental remediation activities at UNOCAL #5781 to Union Oil Company of California ("Union Oil"). From the Effective Date forward, Union Oil (or its designees or representatives, including Chevron Environmental Management Company) will manage the day-to-day corrective action/remediation obligations related to the referenced case.

Groundwater monitoring and sampling was performed by TRC Solutions (TRC) of Irvine, California. TRC's June 17, 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' June 24, 2011 *Analytical Results* are included as Attachment B. Historical groundwater monitoring and sampling data is included as Attachment C.

Equal Employment Opportunity Employer



July 22, 2011 Reference No. 060723

RESULTS OF SECOND QUARTER 2011 EVENT

On June 7, 2011, TRC monitored and sampled the site wells per the established schedule.

Results of the current monitoring event indicate the following:

• Groundwater Flow Direction southeast

• Hydraulic Gradient 0.01

Approximate Depth to Groundwater
 11 to 14 feet below grade

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	0.57						
MW-4	<40	<50	< 0.50	< 0.50	<0.50	<1.0	1.6						
MW-5	3,700	40,000	32	2,300	1,500	16,000	24						
MW-6	<40	<50	< 0.50	< 0.50	< 0.50	<1.0	4.3						
MW-7	<40	<50	< 0.50	< 0.50	<0.50	<1.0	< 0.50						
MW-8	71	<50	< 0.50	< 0.50	<0.50	<1.0	3.6						
MW-9	<40	<50	< 0.50	< 0.50	< 0.50	<1.0	1.4						

TPHd Total petroleum hydrocarbons as diesel

TPHg Total petroleum hydrocarbons as gasoline

MTBE Methyl tertiary butyl ether $\mu g/L$ Micrograms per Liter

< x.x Not detected above laboratory reported practical quantitation limit</p>

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.



July 22, 2011 Reference No. 060723

CONCLUSIONS AND RECOMMENDATIONS

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

- Dissolved-phase hydrocarbon and oxygenate concentrations are below ESLs in all wells except MW-5.
- Dissolved hydrocarbons appear centered in the area around MW-5.

CRA recommends continuing quarterly groundwater monitoring and sampling to establish concentration trends over time. After four quarters of monitoring and sampling groundwater from the new wells, CRA will assess the results and likely recommend reducing monitoring and sampling frequency to semi-annual.

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.



July 22, 2011 Reference No. 060723

Please contact Kiersten Hoey at (510) 420-3347 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Can Auck

Ian Hull Jim Schneider, PG 7914

IH/mws/2

Encl.

Figure 1 Vicinity Map

Figure 2 Groundwater Elevation and Hydrocarbon Concentration Map

Table 1 Groundwater Monitoring and Sampling Data

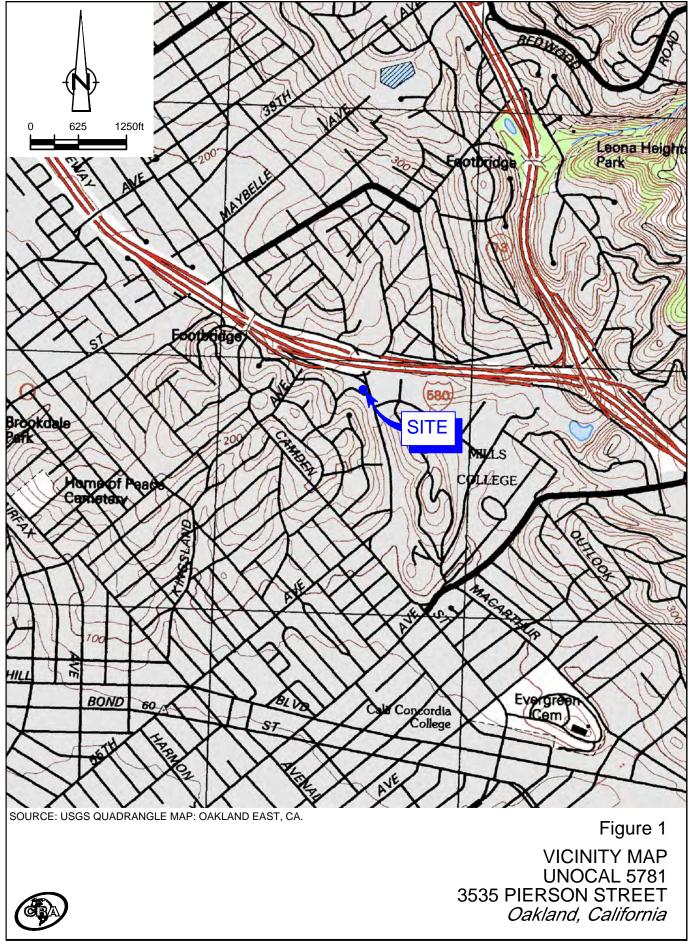
Attachment A Monitoring Data Package
Attachment B Laboratory Analytical Report

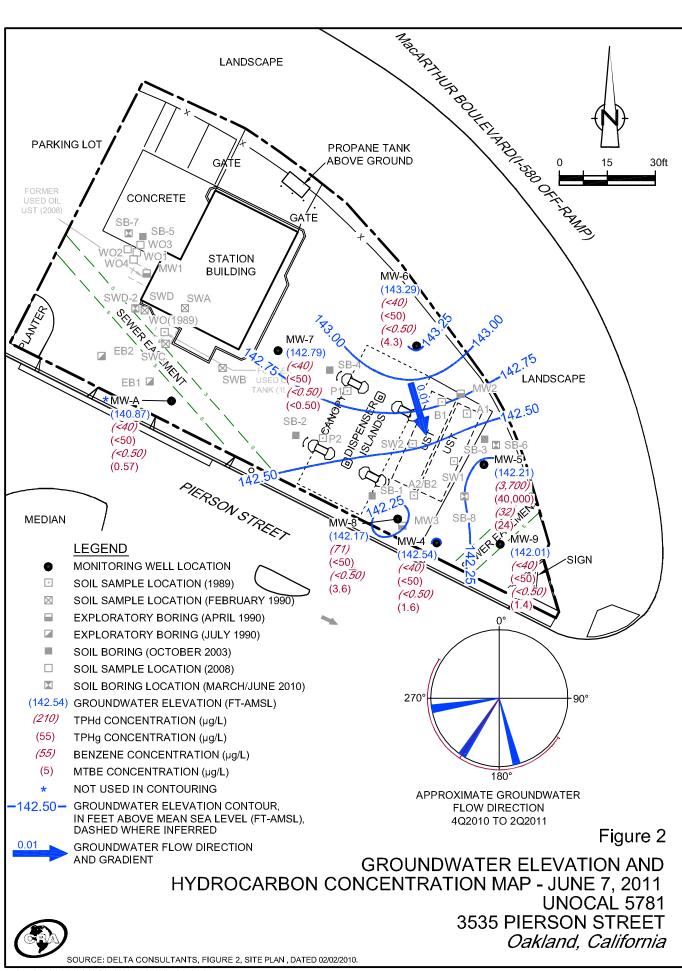
Attachment C Historical Groundwater Monitoring and Sampling Data

cc: Ms. Roya Kambin, Union Oil Company of California

United Brothers Enterprise, Inc., Property Owner

FIGURES





TABLE

TABLE 1 Page 1 of 2

GROUNDWATER MONITORING AND SAMPLING DATA UNOCAL SITE #5781 3535 PIERSON STREET OAKLAND, CALIFORNIA

				ĺ	HYDROC	CARBONS						PRI	MARY V	OCS .					
Location	Date	тос	DTW	GWE	TPH - Diesel	TPH - Gasoline	В	T	E	X	MTBE by SW8260	ТВА	ETBE	ОГРЕ	TAME	ЕDВ	1,2-DCA	Ethanol	Methanol
	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
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-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-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-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-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-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-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

Abbreviations and Notes:

TOC = Top of Casing

DTW = Depth to Water

GWE = Groundwater elevation

(ft-amsl) = Feet Above Mean sea level

TABLE 1 Page 2 of 2

GROUNDWATER MONITORING AND SAMPLING DATA UNOCAL SITE #5781 3535 PIERSON STREET OAKLAND, CALIFORNIA

ft = Feet

 μ g/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:

June 17, 2011

TO:

Kiersten Hoey

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 Ms. Hoey,

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 June 7, 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.

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: A. Vidrens	Job #/Task #: 183487.0035,1640	Date: 6/7/11
Site #57 <u>%</u> \	Project Manager AF	Pageof

Well#	тос	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
Nw-7	J	0544.	19.69	12.59	- 		0933	2."
Mw-A	ų	0600	44.43	13,92		<i></i>	0947	2"
Mw-9	√	0605	19-67	11.36			1006	2"
Mw-4-	✓	06/6	24.75	10.94	,		1016	4-"
MW-8	V	0625	19-88	11.54	, -		1025	2"
Mw-6	✓	0630	19.97	11.33			1048	2"
Mw-5	V	0642	19.43	11.4.5	<u> </u>		1036	4"
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FIELD DAT	A COMPI	ETE	QA/Q(COC		VELL BOX (CONDITION SHEETS
MANIFEST		DRUM II	NVENTO	RΥ	TRAFFIC	CONTROL		



		Tech	nnician:	A. Vidue	<u> </u>	•••			
Site: <u>58</u>	7.1	Proje	ect No.:_183	487,0035	1640		Date:	6/7/1	<u></u>
Well No	MW-5			Purge Method	d:	Sub		į į	
	•	11,45			fuct (feet):			·····	
		19.93			Recovered (ga				
Water Colu	mn (feet)	8.49							
				Casing Diam	eter (Inches):		7	····	
80% Recha	arge Depth(fe	eet): 13.15	 -	1 Well Volum	e (gallons):		<u> </u>		
Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F,C)	рН	D.O. (mg/L)	ÖRP	Turbidity
	Purge			·					
0852			<u>6</u>	630.0	19.0	6.33			
	0902		12	724.3	19,3	6.26		······································	
	10102	i i	18	740.6	19.7	6.3			
Sta	tic at Time S	ampled	Tota	al Gallons Pur	ged	1	Sample	Time	1
	11.48	1		18		V. 21 W. W.	1036		
Comment	s: Pre-jourg	e sample tak	en at 1	0648				·	*****
L	. 0								
							•		
Well No				Purge Metho	od:		···		
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					r Recovered (g				
					rtecovered (g reter (Inches):_				
	arge Depth(f	11			ne (gallons):	······································			
	J			· VVER VOIGH	ie (ganons)				
Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature	рН	D.O. (mg/L)	ORP	Turbidity
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	<u> </u>								
	<u> </u>	 							
				<u> </u>		 			
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Comment	s:		<u></u>				· · · · · · · · · · · · · · · · · · ·	<u> </u>	
			***************************************					······································	



		Те	chnician:	A. Vide	dr.s	MADE IN THE STATE OF THE STATE				
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Well No	MW-7		-	Purge Metho	d:	HB				
Depth to W	ater (feet):	12.59		Depth to Prod	duct (feet):					
Total Depth	(feet)	19.69		LPH & Water Casing Diam 1 Well Volum	Recovered (gailons):				
Water Colu	mn (feet):	7-10		Casing Diam	eter (Inches):		2	<u>-</u>		
80% Recha	irge Depth(fe	eet): [4.6]	**************************************	1 Well Volum	ie (gallons):	······································	2			
Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F,C)	e pH	D.O. (mg/L)	ÖRP	Turbidity	
9re-1	o736		T -	1-02	1/1 A	1/12				
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			ړ						,	
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Ota	15-79	amped	100	al Gallons Pur	ged		Sample			
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Dry at	3 g	illons.	Did not	recover	in 2 1	nours				
Well No	Mw-A			Purge Metho	d:	Sub				
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	ı (feet)					Recovered (g	***************************************			
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		30	Cannala	taken at	6 4	•		1006)	
Dry of	4 44	110	ns. Di	d not ut	leover in	2 hours	·····			···
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Well No	MW-4-				Purge Metho	d:	Sub	····		
Depth to W	ater (feet):_		10.94	·-··	Depth to Prod	duct (feet):	-			
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								67		
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Project No.			Tec	hnician:	4. Vidue	lars	·······					
Depth to Water (feet): 154	Site: 579	31	Proj	ect No.: <u>183</u>	487.0035.	640		Date:_	6/7/11			
Total Depth (feet) 14.98	Well No	Mw-8			Purge Method	l:	4β		! [
Total Depth (feet) 14.98	Depth to W	ater (feet):	11,54		Depth to Prod	uct (feet):	ş					
Water Column (feet):	Total Depth	(feet)	19.88		,			·				
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12.08		0000		<u> </u>	111.0	10.3	h					
12.08												
Well No. MW - 6 Purge Method: HB	Stat		ampled	Tot	al Gallons Pur	ged		Sample	Time			
Well No. MW - 6 Purge Method: HB Depth to Water (feet): 1.33 Depth to Product (feet):					6			102	5			
Depth to Water (feet): 1.33	Comments	s: Dry at	6 gallon	<u>C,</u>					······································			
Depth to Water (feet): 1.33	NAT-11 NI	May L					i ib	,				
Total Depth (feet) 19.47 LPH & Water Recovered (gallons): Water Column (feet): 8.64 Casing Diameter (Inches): Z 80% Recharge Depth(feet): 13.03 1 Well Volume (gallons): L Time Start Stop Water Purged (gallons) (µS/cm) (F,C) PH D.O. (mg/L) ORP Turbidity Pre-Purge (feet) (gallons) 18.3 6.41			.1		Purge Metho	d:	HR_	······································				
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Comments: Pre-purge sample taken at 0636				Tot		ged		Sample Time				
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Dry at 4 gallons. Did not recover in 2 hours				, , , , , , , , , , , , , , , , , , , ,		to 7						



WELL BOX CONDITION REPORT (NORTHERN CALIFORNIA)

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SITE NO. ADDRESS DATE	6/7	111	•													PAGE OF
Well Name	# 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	Comments
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CHAIN OF CUSTODY FORM

Union Oil Octobary of California a 6101 Bollinger Carryon Road a San Ramon, CA 94583

Union Oil Site ID: 57	81	g		Linion Oil Consultant: CK	² A	T		CANANA A CONTRA				ANA.	LY3	ES RI	EQUI	RED		10-10-10-1-10-10-1-1-10-10-1-10-10-10-10
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TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

16-May-11

Address	3535 P Oaklan	ierson Street			Project No.: Client: Contact #:	183487.0035.16 Roya Kambin 925-790-6270	40
City: Cross Street:					PM: PM Contact #	Kiersten Hoey	CRA
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SITE INFOR MW-4, MW-5, MW Submit pre-purge	/-6, MW-7	' & MW-9 recover	slow. T	ake pre-purge sam er with enought wa	oles and then follow ter to collect the re	v standard TRC purge a quired bottles after two	and sample procedures. hours.
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TRC SOLUTIONS **TECHNICAL SERVICES REQUEST FORM**

16-May-11

Site ID:

5781

Address

3535 Pierson Street

City:

Oakland

Cross Street: Redding St.

Project No.:

183487.0035.1640

Client: Contact #:

Roya Kambin

925-790-6270

PM:

Kiersten Hoev

CRA

PM Contact #: 510-420-3347

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/HCI]

BTEX/MTBE/OXYS by 8260B, EDB/EDC by 8260B, Ethanol by 8260B [Containers: 3 voas w/HCl] Methanol by 8015 [Containers: 3 voas unpreserved]

Note on COC: Please e-mail a copy of the results to Jan Wagoner at-jwagoner@doltaenv.com.

Jan . wagoner@anteagroup.com

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

16-May-11

Site ID.: Address

5781 3535 Pierson Street

City:

Oakland

Cross Street Redding St.

		1	ī	Gau	ıging			Sam	pling			Field Measuren	nents	,
Well IDs	Benz. N	VITBE	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Pre-Purge	Post-Purge	Туре	Comments
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MW-A	0	0.56	Y	V	V	V	Y	~	V	~		П		2" casing
MW-9	0	0.9	V	V	V	V	V	V	V	V		П		2" casing
MW-4	0	2.2	V	V	V	V	V	Y	V	V		П	***************************************	4" casing
MW-8	0	2.3	V	V	~	V	V	V	~	V		П	***************************************	2" casing
MVV-6	0	4.6	V	V	V	V	V	7	V	V				2" casing
MW-5	69	0	V	V	V	V	V	V	V	V				4" casing

ATTACHMENT B

LABORATORY ANALYTICAL REPORT



Date of Report: 06/24/2011

Kiersten Hoey

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

Project: 5781

BC Work Order: 1109156 Invoice ID: B102776

Enclosed are the results of analyses for samples received by the laboratory on 6/8/2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers

Molly Meyers

Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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DISTRIBUTION СЫК ВҮ SUB-OUT [CHAIN OF CUSTODY FORM coc__i__oi__1 Union Cil Company of California # 6101 Bollinger Canyon Road # San Ramon, CA 94583 Union Oil Consellant: CRA ANALYSES REQUIRED Consultant Contact: Klersten Hoey BOTOW SIRCY GE CROWN Tumacound Time (TAT): T0600101467 Site Global ID: Site Address: 3535 Pierson St. Cakland, CA Consultant Phone No.: 510 420 3347 Standard X 24 Hours of 48 Hours a 72 Hours a Sampling Company: TRC Special Instructions Roya Kambin ∞ Union Oil PM: Sampled By (PRINT): Videlins STEX/MTBE/OXYS by EPA 52506 87601 Please e-mail copy Andrew Union Oil PM Phone No.: 925 790 6270 EPA 8260B Full List with OXYS 8015 of results to Sampler Signature Jan Waganer at Jan, waganer a Charge Code: NWRTB- 0 35 | 64 0 -0-LAB Ethanol by EPA 82605 ⊞C Laboratories, Inc. TFH - Diesel by EPA Project manager; mony meyers This is a LEGAL document. ALL falls must be filled out CORRECTLY only anteggroup.com 4109 Atlas Court, Bakersfield, CA. COMPLETELY. XTPH-G Dagen Ma + 48.643-307-49.44 SAMPLE ID Date Notes / Comments # of Containers Sample Time Field Point Name Watrix DTW (yyramcid) X 0933 Mw-7 110607 W 0447 Mw - A W 1006 Mw-9 W 1016 MW-4. W 1025 MW-9 W 1049 W 1036 MW-5 W W V۷ W W W Date / Time: Relinquished By Company Date / Time Company Resolved By Company Date / Time: Received By Company Date / Time .

RESOLVED DURING BCLAR 68-11 1345 Ruly 16-8 11 1830 U.S.11 2200



Chain of Custody and Cooler Receipt Form for 1109156 Page 2 of 2

Refrigerant: Ice Blue Ice Nor Custody Seals Ice Chest Contai Intact? Yes No Intact? Yes No All samples received? Yes No Emissivity COC Received Emissivity Temperatu SAMPLE CONTAINERS 1 OT GENERAL MINERAL GENERAL PHYSICAL PT PE UNPRESERVED OT INORGANIC CHEMICAL METALS PT INORGANIC CHEMICAL METALS PT INTROGEN FORMS PT TOTAL SULFIDE Oz. NITRATE / NITRITE PT TOTAL ORGANIC CARBON PT TOX PT CHEMICAL OXYGEN DEMAND PTA PHENOLICS 10mi VOA VIAL OT EPA 11J., 11J.2, 11S.1 PT ODOR RADIOLOGICAL BACTERIOLOGICAL 10 mi VOA VIAL-961 NO POSSE CUE O OT EPA 51S.1/8150 OT EPA 51S.1/8150 OT EPA 51S.1/8150 OT EPA 525	ne	Other N	Ione d	omments Commen SPONO JOO TO COMMEN 4	e Chest ⊠ ®Bok □ :: ::	Description of the control of the co	None Other	Date/Time		. i
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SAMPLE CONTAINERS 1 DIT GENERAL MINERAL/ GENERAL PHYSICAL PT PE UNPRESERVED OIT INORGANIC CHEMICAL METALS PIT INORGANIC CHEMICAL METALS PIT INORGANIC CHEMICAL METALS PIT OTAL SULFIDE 201. NITRATE / NITRITE PIT TOTAL ORGANIC CARBON PIT TOTAL ORGANIC CARBON PIT TOTAL ORGANIC CARBON PIT TOYAL OXYGEN DEMAND PLA PHENOLICS 1001 YOA VIAL TRAVEL BLANK 1001 YOA VIAL OIT EPA 413.1, 413.2, 413.1 PIT ODOR RADIOLOGICAL BACTERIOLOGICAL 40 ml VOA VIAL-801 AND CESE CUECH OIT EPA 508403/8080 OIT EPA 515.1/8150 OIT EPA 525	2		2	4	SAMPLE N	umbers 6	201	8		
OT GENERAL MINERAL/ GENERAL PHYSICAL PT PE UNPRESERVED OT INORGANIC CHEMICAL METALS PT INORGANIC CHEMICAL METALS PT CYANIDE PT NITROGEN FORMS PT TOTAL SULFIDE LOG. NITRATE / NITRITE PT TOTAL ORGANIC CARBON PT TOX PT CHEMICAL OXYGEN DEMAND PLA PHENOLICS 1003 VOA VIAL TRAVEL BLANK 1003 VOA VIAL OT EPA 11.1, 11.1.2, 118.1 PT ODOR RADIOLOGICAL BACTERIOLOGICAL 10 ml VOA VIAL 1801 OT EPA 508408/8880 OT EPA 515.1/8150 OT EPA 525					5	6	201	8	\$	10
DT GENERAL MINERAL/ GENERAL PHYSICAL PT PE UNPRESERVED DT INORGANIC CHEMICAL METALS PT INORGANIC CHEMICAL METALS PT CYANIDE PT NITROGEN FORMS PT TOTAL SULFIDE DOL. NITRATE / NITRITE PT TOTAL ORGANIC CARBON PT TOX PT CHEMICAL OXYGEN DEMAND PLA PHENOLICS 10mi VOA VIAL TRAVEL BLANK 10mi VOA VIAL OT EPA 11.1, 11.1.2, 118.1 PT ODOR RADIOLOGICAL BACTERIOLOGICAL 10 mi VOA VIAL-901							201	8	5	10
PT PE UNPRESERVED OT INORGANIC CHEMICAL METALS PT INORGANIC CHEMICAL METALS PT INORGANIC CHEMICAL METALS PT CYANIDE PT NITROGEN FORMS PT TOTAL SULFIDE OF NITRATE / NITRITE PT TOTAL ORGANIC CARBON PT TOX PT TOX PT CHEMICAL OXYGEN DEMAND PLA PHENOLICS 10mi VOA VIAL TRAVEL BLANK 10mi VOA VIAL PT ODOR RADIOLOGICAL BACTERIOLOGICAL 10 mi VOA VIAL 1001	N W	،نه	A C	1A 10	φ 6	A ila	(d) A			
OT INORGANIC CHEMICAL METALS PT INORGANIC CHEMICAL METALS PT CYANIDE PT NITROGEN FORMS PT TOTAL SULFIDE DOLINITRATE / NITRITE PT TOTAL ORGANIC CARBON PT TOX PT CHEMICAL OXYGEN DEMAND PLA PHENOLICS 10ml VOA VIAL TRAVEL BLANK 10ml VOA VIAL OT EPA 11.1, 411.2, 418.1 PT ODOR RADIOLOGICAL BACTERIOLOGICAL 10 ml VOA VIAL 1891 AND POSSECUES OT EPA 508408/8880 OT EPA 515.1/8150 OT EPA 525	N W	۰٬۵۵	A C	1A 10	A 6	A ila) (b) A			
PT INORGANIC CHEMICAL METALS PT CYANIDE PT NITROGEN FORMS PT TOTAL SULFIDE Por NITRATE / NITRITE PT TOTAL ORGANIC CARBON PT TOX PT CHEMICAL OXYGEN DEMAND PTA PHENOLICS 10mi VOA VIAL TRAVEL BLANK 10mi VOA VIAL OT EPA 413.1, 413.2, 413.1 PT ODOR RADIOLOGICAL BACTERIOLOGICAL 10 mi VOA VIAL 1801 - AND CESE CARC OT EPA 508:608:680 OT EPA 515.1/8150 OT EPA 525	N W	۰٬۵۵	A C	1A 10	A 6	A ila	A (lo)			
PT CYANIDE PT NITROGEN FORMS PT TOTAL SULFIDE LOL NITRATE / NITRITE PT TOTAL ORGANIC CARBON PT TOX PT CHEMICAL OXYGEN DEMAND PLA PHENOLICS 10mi VOA VIAL TRAVEL BLANK 10mi VOA VIAL OT EPA 411.1, 411.2, 418.1 PT ODOR RADIOLOGICAL BACTERIOLOGICAL 10 mi VOA VIAL 10 mi VOA VI	N N	, (4)	A (0	1A 10	φ 6	A ila	A (lo) A			
PT NITROGEN FORMS PT TOTAL SULFIDE POR NITRATE / NITRITE PT TOTAL ORGANIC CARBON PT TOX PT CHEMICAL OXYGEN DEMAND PLA PHENOLICS 10ml VOA VIAL TRAVEL BLANK 10ml VOA VIAL OT EPA 411.1, 411.2, 418.1 PT ODOR RADIOLOGICAL BACTERIOLOGICAL 10 ml VOA VIAL 50ml VOA VIAL 5	N N	, \Q	A 40	1A 10	A 6	A ila	ob A			
PT TOTAL SULFIDE Total ORGANIC CARBON PT TOTAL ORGANIC CARBON PT TOX PT CHEMICAL OXYGEN DEMAND PLA PHENOLICS HOMI VOA VIAL TRAVEL BLANK HOMI VOA VIAL PT ODOR RADIOLOGICAL BACTERIOLOGICAL HO MI VOA VIAL-901 - WALPESE CUECK OT EPA 508/608/800 OT EPA 515.1/8150 OT EPA 525	A W	, Va	A 40	A 10	A 6	A ila	ob A			
POR NITRATE / NITRITE PT TOTAL ORGANIC CARBON PT TOX PT CHEMICAL OXYGEN DEMAND POR PHENOLICS 10001 VOA VIAL TRAVEL BLANK 10001 VOA VIAL OT EPA 11.1, 11.2, 115.1 PT ODOR RADIOLOGICAL BACTERIOLOGICAL 10 mil VOA VIAL-501 - WOOPESE CUEC OT EPA 508/608/8080 OT EPA 515.1/8150 OT EPA 525	A Q	٠,٧۵	A 6	A 16	A W	A ila	ob A			
PT TOTAL ORGANIC CARBON PT TOX PT CHEMICAL OXYGEN DEMAND PLA PHENOLICS 10mi VOA VIAL TRAVEL BLANK 10mi VOA VIAL	A V	, (a	A (0	1A 10	A 6	A :la	W A			
PT TOX PT CHEMICAL OXYGEN DEMAND PAN PHENOLICS 40mi VOA VIAL TRAVEL BLANK 40mi VOA VIAL OT EPA 413.1, 413.2, 418.1 PT ODOR RADIOLOGICAL BACTERIOLOGICAL 40 mi VOA VIAL-901- UNDORSE CUED OT EPA 508/608/800 OT EPA 515.1/8150 OT EPA 525	W A	, Va	A G	1A 10	A W	A :la	W A			
PT CHEMICAL OXYGEN DEMAND PAA PHENOLICS 40mi VOA VIAL TRAVEL BLANK 40mi VOA VIAL OT EPA 413.1, 413.2, 418.1 PT ODOR RADIOLOGICAL BACTERIOLOGICAL 40 mi VOA VIAL-901- UNDORSE CUED OT EPA 508/608/8080 OT EPA 515.1/8150 OT EPA 525	AV	, la	A (6	IA NO	A 6	A :la	W A			
PEA PHENOLICS 40mi VOA VIAL TRAVEL BLANK 40mi VOA VIAL OT EPA 413.1, 413.2, 418.1 PT ODOR RADIOLOGICAL BACTERIOLOGICAL 40 mi VOA VIAL-901- UNDORSE CUED OT EPA 508/608/0800 OT EPA 515.1/8150 OT EPA 525	WA	, Va	A (0	A 10	A W	A :la	d) A			
40mi VOA VIAL TRAVEL BLANIC 40mi VOA VIAL OT EPA 413.1, 413.2, 418.1 PT ODOR RADIOLOGICAL BACTERIOLOGICAL 40 mi VOA VIAL-901- UN OPERSE CUECO OT EPA 508.408.0080 OT EPA 515.1/8150 OT EPA 525	W A	ı (a	A 16	A W	A 6	A ila	d) A			
40mi VOA VIAL OT EPA 413.1, 413.2, 418.1 PT ODOR RADIOLOGICAL BACTERIOLOGICAL 40 mi VOA VIAL-901- VA OPPESE CUEC OT EPA 508/608/8080 OT EPA 515.1/8150 OT EPA 525	AW	ι (a	A 6	A V	A 6	A la	di A			
OT EPA 4(1.1, 4(1.2, 4(8.1) PT ODOR RADIOLOGICAL BACTERIOLOGICAL 40 mi VOA VIAL-901 - UNDORSE CUECO OT EPA 508/608/0800 OT EPA 515.1/8150 OT EPA 525	WH	, Va	H (O	# 10	17 W	H :(0)	14 W			4 ()
PT ODOR RADIOLOGICAL BACTERIOLOGICAL 40 ml VOA VIAL-864 - Un preserved OT EPA 508/08/8080 OT EPA 515.1/8150 OT EPA 525	_	\rightarrow		l			-11		\ '	1
RADIOLOGICAL BACTERIOLOGICAL 40 ml VOA VIAL-864 - Un preserved BC OT EPA 508/03/8880 OT EPA 515.1/8150 OT EPA 525	+								 	+
BACTERIOLOGICAL 40 mi VOA VIAL-961 UNDPESSOURD OT EPA 508/03/8880 OT EPA 515.1/8150 OT EPA 525	- 1	-						-	 	+
40 mi VOA VIAL-901 UNDESERVED BO OT EPA 508/408/8800 OT EPA 515.1/8150 OT EPA 525		\rightarrow		<u> </u>						-
OT EPA 508/608/8880 OT EPA 515.1/8150 OT EPA 525	-N 5	151	0 (0)	0.73	B (3)	0./2	12/2		+	 -
OT EPA 515.1/8150 OT EPA 525	طرف	رکا	16(3	10(3)	15 (3)	10(3)	000	P	 	+
OT EPA 525	-	-								
								-		1
				-					_	
QT EPA 525 TRAVEL BLANK				-				-	7	
100ml EPA 547	-				-				1	f
100ml EPA 531.1					-			-	1	1
QT EPA 548					-		-	+		_
QT EPA 549	_	_			-				1	
QT EPA 632					-					
QT EPA BOISM	100		0.2	0 5	100	0 0	00	,	1	
OT AMBER C,	- C1	2	C,D_	الربك	C,D	صرت إ	1-,1	1	+	
8 OZ. JAR				-				+		1
32 OZ. JAR				+	-					
SOIL SLEEVE				-	-	-	-	+	+	
PCB VIAL				-				+	_	
PLASTIC BAG				+				+	+	
FERROUS IRON			-		-	+	-	+	_	
ENCORE										
Comments:				o/11@						



5900 Hollis St. Suite A Emeryville, CA 94608 **Reported:** 06/24/2011 9:46

Project: 5781
Project Number: 351640
Project Manager: Kiersten Hoey

Laboratory / Client Sample Cross Reference

Laboratory Client Sample Information

1109156-01 COC Number: --

Project Number: 5781 Sampling Location: ---

Sampling Point: MW-7-W-110607

Sampled By: TRCI

Receive Date: 06/08/2011 22:00 **Sampling Date:** 06/07/2011 09:33

Sample Depth: ---

Lab Matrix: Water Sample Type:

Delivery Work Order: Global ID: T0600101467

Location ID (FieldPoint): MW-7

Matrix: W

Sample QC Type (SACode): CS

Cooler ID:

1109156-02 COC Number: ---

Project Number: 5781
Sampling Location: ---

Sampling Point: MW-A-W-110607

Sampled By: TRCI

Receive Date: 06/08/2011 22:00 **Sampling Date:** 06/07/2011 09:47

Sample Depth: --Lab Matrix: Water

Sample Type:
Delivery Work Order:
Global ID: T0600101467

Matrix: W

Sample QC Type (SACode): CS

Location ID (FieldPoint): MW-A

Cooler ID:

1109156-03 COC Number: ---

Project Number: 5781 Sampling Location: ---

Sampling Point: MW-9-W-110607

Sampled By: TRCI

Receive Date: 06/08/2011 22:00

Sampling Date: 06/07/2011 10:06

Sample Depth: --Lab Matrix: Water

Sample Type:
Delivery Work Order:
Global ID: T0600101467
Location ID (FieldPoint): MW-9

Matrix: W

Sample QC Type (SACode): CS

Cooler ID:



5900 Hollis St. Suite A Emeryville, CA 94608

Reported: 06/24/2011 9:46

Project: 5781 Project Number: 351640 Project Manager: Kiersten Hoey

Laboratory / Client Sample Cross Reference

Laboratory **Client Sample Information**

1109156-04 **COC Number:**

> **Project Number:** 5781 Sampling Location:

Sampling Point: MW-4-W-110607

Sampled By: **TRCI**

06/08/2011 22:00 Receive Date: Sampling Date: 06/07/2011 10:16

Sample Depth: Lab Matrix: Water

Sample Type:

Delivery Work Order: Global ID: T0600101467 Location ID (FieldPoint): MW-4

Matrix: W

Sample QC Type (SACode): CS

Cooler ID:

1109156-05 **COC Number:**

> **Project Number:** 5781 Sampling Location:

MW-8-W-110607 Sampling Point:

TRCI Sampled By:

06/08/2011 22:00 Receive Date: 06/07/2011 10:25 Sampling Date:

Sample Depth: Water Lab Matrix:

Sample Type: Delivery Work Order: Global ID: T0600101467 Location ID (FieldPoint): MW-8

Matrix: W

Sample QC Type (SACode): CS

Cooler ID:

1109156-06 COC Number:

> 5781 **Project Number:** Sampling Location:

MW-6-W-110607 Sampling Point:

TRCI Sampled By:

Receive Date: 06/08/2011 22:00

06/07/2011 10:48 Sampling Date:

Sample Depth: Water Lab Matrix:

Sample Type: Delivery Work Order: Global ID: T0600101467 Location ID (FieldPoint): MW-6

Matrix: W

Sample QC Type (SACode): CS

Cooler ID:



5900 Hollis St. Suite A Emeryville, CA 94608 **Reported:** 06/24/2011 9:46

Project S781
Project Number: 351640
Project Manager: Kiersten Hoey

Laboratory / Client Sample Cross Reference

Laboratory Client Sample Information

1109156-07 COC Number: ---

Project Number: 5781 Sampling Location: ---

Sampling Point: MW-5-W-110607

Sampled By: TRCI

Receive Date: 06/08/2011 22:00 **Sampling Date:** 06/07/2011 10:36

Sample Depth: ---

Lab Matrix: Water Sample Type:

Delivery Work Order: Global ID: T0600101467

Location ID (FieldPoint): MW-5

Matrix: W

Sample QC Type (SACode): CS

Cooler ID:



5900 Hollis St. Suite A Emeryville, CA 94608 **Reported:** 06/24/2011 9:46

Project: 5781
Project Number: 351640

Project Manager: Kiersten Hoey

Solvent Scan (EPA Method 8015)

BCL Sample ID:	Client Sampl	e Name:	5781, MW-7-W-110	607, 6/7/2011 9	:33:00AM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
Methanol		ND	ug/L	100	EPA-8015B	ND		1
2-Chloroacrylonitrile (S	Surrogate)	155	%	60 - 140 (LCL - UCL)	EPA-8015B		S09	1

				Run				QC
R	lun#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID
	1	EPA-8015B	06/14/11	06/15/11 08:21	MWB	GC-12	1	BUF1004

5900 Hollis St. Suite A Emeryville, CA 94608 **Reported:** 06/24/2011 9:46

Project: 5781
Project Number: 351640

Project Manager: Kiersten Hoey

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 110	09156-01 C	Client Sample Name:		5781, MW-7-W-110	607, 6/7/2011 9	:33:00AM		
Constituent	<u> </u>	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 (Surrog	gate)	103	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		97.9	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surro	gate)	102	%	86 - 115 (LCL - UCL)	EPA-8260			1

					QC			
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/21/11	06/21/11 11:38	KEA	MS-V10	1	BUF1322	

5900 Hollis St. Suite A Emeryville, CA 94608

06/24/2011 9:46 Reported:

Project: 5781

Project Number: 351640 Project Manager: Kiersten Hoey

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	1109156-01	Client Sampl	e Name:	5781, MW-7-W-110	607, 6/7/2011 9	:33:00AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organ	nics (C4 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene	(FID Surrogate)	91.6	%	70 - 130 (LCL - UCL)	EPA-8015B			1

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B	06/14/11	06/14/11 14:03	jjh	GC-V4	1	BUF0891	

5900 Hollis St. Suite A Emeryville, CA 94608 **Reported:** 06/24/2011 9:46

Project: 5781

Project Number: 351640
Project Manager: Kiersten Hoey

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID:	1109156-01	Client Sampl	e Name:	5781, MW-7-W-110	607, 6/7/2011 9:3	3:00AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organic	s (C12 - C24)	ND	ug/L	40	EPA-8015B/TPH d	ND		1
Tetracosane (Surroga	te)	93.9	%	28 - 139 (LCL - UCL)	EPA-8015B/TPH d			1

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/TPHd	06/14/11	06/18/11 00:52	MWB	GC-5	1	BUF1146	



5900 Hollis St. Suite A Emeryville, CA 94608 Reported: 06/24/2011 9:46

Project S781
Project Number: 351640
Project Manager: Kiersten Hoey

Solvent Scan (EPA Method 8015)

BCL Sample ID:	1109156-02	Client Sampl	e Name:	5781, MW-A-W-110	607, 6/7/2011	9:47:00AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
Methanol		ND	ug/L	100	EPA-8015B	ND		1
2-Chloroacrylonitrile (S	Surrogate)	108	%	60 - 140 (LCL - UCL)	EPA-8015B			1

	Run Prop Dato Dato/Timo Analyst					QC		
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B	06/14/11	06/15/11 08:42	MWB	GC-12	1	BUF1004	

5900 Hollis St. Suite A Emeryville, CA 94608 **Reported:** 06/24/2011 9:46

Project 5781
Project Number: 351640
Project Manager: Kiersten Hoey

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1	109156-02	Client Sample	e Name:	5781, MW-A-W-110	607, 6/7/2011	9:47:00AM		
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		0.57	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 (Suri	rogate)	111	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		99.0	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Sur	rrogate)	98.5	%	86 - 115 (LCL - UCL)	EPA-8260			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/17/11	06/17/11 17:32	KEA	MS-V10	1	BUF1152	

5900 Hollis St. Suite A Emeryville, CA 94608 **Reported:** 06/24/2011 9:46

Project: 5781

Project Number: 351640 Project Manager: Kiersten Hoey

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	1109156-02	Client Sampl	e Name:	5781, MW-A-W-110	607, 6/7/2011	9:47:00AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organ	nics (C4 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene	(FID Surrogate)	90.3	%	70 - 130 (LCL - UCL)	EPA-8015B			1

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B	06/14/11	06/14/11 14:25	jjh	GC-V4	1	BUF0891	

5900 Hollis St. Suite A Emeryville, CA 94608 **Reported:** 06/24/2011 9:46

Project: 5781
Project Number: 351640

Project Manager: Kiersten Hoey

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID:	1109156-02	Client Sampl	e Name:	5781, MW-A-W-110	607, 6/7/2011 9:4	7:00AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organic	s (C12 - C24)	ND	ug/L	40	EPA-8015B/TPH d	ND		1
Tetracosane (Surroga	te)	103	%	28 - 139 (LCL - UCL)	EPA-8015B/TPH d			1

	Run Prop Date - Date(Time - Analyst						QC
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID
1	EPA-8015B/TPHd	06/14/11	06/18/11 01:07	MWB	GC-5	1	BUF1146



5900 Hollis St. Suite A Emeryville, CA 94608 **Reported:** 06/24/2011 9:46

Project: 5781

Project Number: 351640
Project Manager: Kiersten Hoey

Solvent Scan (EPA Method 8015)

BCL Sample ID:	1109156-03	Client Sampl	e Name:	5781, MW-9-W-110	607, 6/7/2011 10	:06:00AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methanol		ND	ug/L	100	EPA-8015B	ND		1
2-Chloroacrylonitrile (S	Surrogate)	175	%	60 - 140 (LCL - UCL)	EPA-8015B		S09	1

	Run						QC		
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-8015B	06/14/11	06/15/11 09:04	MWB	GC-12	1	BUF1004		

5900 Hollis St. Suite A Emeryville, CA 94608 **Reported:** 06/24/2011 9:46

Project: 5781
Project Number: 351640
Project Manager: Kiersten Hoey

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1	109156-03	Client Sampl	e Name:	5781, MW-9-W-110	607, 6/7/2011 10	0:06:00AM		
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		1.4	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 (Surro	ogate)	112	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		96.7	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surr	rogate)	103	%	86 - 115 (LCL - UCL)	EPA-8260			1

	Run						QC		
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-8260	06/17/11	06/17/11 17:14	KEA	MS-V10	1	BUF1152		

5900 Hollis St. Suite A Emeryville, CA 94608 **Reported:** 06/24/2011 9:46

Project: 5781

Project Number: 351640 Project Manager: Kiersten Hoey

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	1109156-03	Client Sampl	e Name:	5781, MW-9-W-110	607, 6/7/2011 10	:06:00AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organ	nics (C4 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene	(FID Surrogate)	89.4	%	70 - 130 (LCL - UCL)	EPA-8015B			1

	Run					QC				
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	EPA-8015B	06/14/11	06/14/11 14:48	jjh	GC-V4	1	BUF0891			

5900 Hollis St. Suite A Emeryville, CA 94608 **Reported:** 06/24/2011 9:46

Project: 5781

Project Number: 351640
Project Manager: Kiersten Hoey

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID:	1109156-03	Client Sampl	e Name:	5781, MW-9-W-110607, 6/7/2011 10:06:00AM				
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organic	s (C12 - C24)	ND	ug/L	40	EPA-8015B/TPH d	ND		1
Tetracosane (Surroga	te)	98.7	%	28 - 139 (LCL - UCL)	EPA-8015B/TPH d			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/TPHd	06/14/11	06/18/11 01:51	MWB	GC-5	1	BUF1146	



5900 Hollis St. Suite A Emeryville, CA 94608 **Reported:** 06/24/2011 9:46

Project: 5781

Project Number: 351640
Project Manager: Kiersten Hoey

Solvent Scan (EPA Method 8015)

BCL Sample ID:	1109156-04	Client Sampl	e Name:	5781, MW-4-W-110	607, 6/7/2011 10	:16:00AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
Methanol		ND	ug/L	100	EPA-8015B	ND		1
2-Chloroacrylonitrile (S	Surrogate)	135	%	60 - 140 (LCL - UCL)	EPA-8015B			1

			Run				QC
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID
1	EPA-8015B	06/14/11	06/15/11 10:30	MWB	GC-12	1	BUF1004

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Project 5781
Project Number: 351640
Project Manager: Kiersten Hoey

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1	109156-04	Client Sample	e Name:	5781, MW-4-W-110	607, 6/7/2011 10):16:00AM		
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		1.6	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 (Surr	rogate)	112	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		99.7	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Sur	rogate)	96.3	%	86 - 115 (LCL - UCL)	EPA-8260			1

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/17/11	06/17/11 16:56	KEA	MS-V10	1	BUF1152	

5900 Hollis St. Suite A Emeryville, CA 94608 **Reported:** 06/24/2011 9:46

Project: 5781
Project Number: 351640

Project Manager: Kiersten Hoey

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	1109156-04	Client Sampl	e Name:	5781, MW-4-W-110	607, 6/7/2011 10	:16:00AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organ	nics (C4 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene	(FID Surrogate)	90.4	%	70 - 130 (LCL - UCL)	EPA-8015B			1

				QC				
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B	06/14/11	06/14/11 15:10	jjh	GC-V4	1	BUF0891	

5900 Hollis St. Suite A Emeryville, CA 94608

06/24/2011 9:46 Reported:

Project: 5781

Project Number: 351640 Project Manager: Kiersten Hoey

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID:	1109156-04	Client Sampl	e Name:	5781, MW-4-W-110	607, 6/7/2011 10:1	6:00AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organic	s (C12 - C24)	ND	ug/L	40	EPA-8015B/TPH d	ND		1
Tetracosane (Surroga	te)	94.8	%	28 - 139 (LCL - UCL)	EPA-8015B/TPH d			1

	Run Pren Date Date/Time Analyst				QC		
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID
1	EPA-8015B/TPHd	06/14/11	06/18/11 02:06	MWB	GC-5	1	BUF1146



5900 Hollis St. Suite A Emeryville, CA 94608 **Reported:** 06/24/2011 9:46

Project: 5781

Project Number: 351640
Project Manager: Kiersten Hoey

Solvent Scan (EPA Method 8015)

BCL Sample ID:	1109156-05	Client Sampl	e Name:	5781, MW-8-W-110	607, 6/7/2011 10	:25:00AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methanol		ND	ug/L	100	EPA-8015B	ND		1
2-Chloroacrylonitrile (S	Surrogate)	202	%	60 - 140 (LCL - UCL)	EPA-8015B		S09	1

	Run Pren Date Date/Time Analyst						QC			
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	EPA-8015B	06/14/11	06/15/11 10:51	MWB	GC-12	1	BUF1004			

5900 Hollis St. Suite A Emeryville, CA 94608 **Reported:** 06/24/2011 9:46

Project: 5781
Project Number: 351640

Project Manager: Kiersten Hoey

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1	109156-05	Client Sample	e Name:	5781, MW-8-W-110	607, 6/7/2011 10):25:00AM		
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		3.6	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 (Sur	rogate)	110	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		97.1	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Sur	rrogate)	95.8	%	86 - 115 (LCL - UCL)	EPA-8260			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/20/11	06/20/11 12:44	KEA	MS-V10	1	BUF1152	

5900 Hollis St. Suite A Emeryville, CA 94608 **Reported:** 06/24/2011 9:46

Project: 5781

Project Number: 351640 Project Manager: Kiersten Hoey

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	1109156-05	Client Sampl	e Name:	5781, MW-8-W-110	607, 6/7/2011 10	:25:00AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organ	nics (C4 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene	(FID Surrogate)	89.8	%	70 - 130 (LCL - UCL)	EPA-8015B			1

				QC				
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B	06/14/11	06/14/11 15:32	jjh	GC-V4	1	BUF0891	

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Project: 5781

Project Number: 351640
Project Manager: Kiersten Hoey

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID:	1109156-05	Client Sampl	e Name:	5781, MW-8-W-110	607, 6/7/2011 10:2	25:00AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organic	cs (C12 - C24)	71	ug/L	40	EPA-8015B/TPH d	ND		1
Tetracosane (Surrogat	te)	100	%	28 - 139 (LCL - UCL)	EPA-8015B/TPH d			1

			Run		QC			
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/TPHd	06/14/11	06/18/11 02:20	MWB	GC-5	1	BUF1146	



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06/24/2011 9:46 Reported:

Project: 5781

Project Number: 351640 Project Manager: Kiersten Hoey

Solvent Scan (EPA Method 8015)

BCL Sample ID:	1109156-06	Client Sampl	e Name:	5781, MW-6-W-110	607, 6/7/2011 10	:48:00AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methanol		ND	ug/L	100	EPA-8015B	ND		1
2-Chloroacrylonitrile (S	Surrogate)	144	%	60 - 140 (LCL - UCL)	EPA-8015B		S09	1

			Run				QC
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID
1	EPA-8015B	06/14/11	06/15/11 11:13	MWB	GC-12	1	BUF1004

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Project: 5781
Project Number: 351640

Project Manager: Kiersten Hoey

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1	109156-06	Client Sample	e Name:	5781, MW-6-W-110	607, 6/7/2011 10	0:48:00AM		
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		4.3	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 (Surr	rogate)	106	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		99.3	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Sur	rogate)	96.9	%	86 - 115 (LCL - UCL)	EPA-8260			1

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/20/11	06/20/11 12:26	KEA	MS-V10	1	BUF1152	

5900 Hollis St. Suite A Emeryville, CA 94608 **Reported:** 06/24/2011 9:46

Project: 5781

Project Number: 351640
Project Manager: Kiersten Hoey

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	1109156-06	Client Sampl	e Name:	5781, MW-6-W-110	607, 6/7/2011 10	:48:00AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organ	nics (C4 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene	(FID Surrogate)	89.4	%	70 - 130 (LCL - UCL)	EPA-8015B			1

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B	06/14/11	06/14/11 15:55	jjh	GC-V4	1	BUF0891	

5900 Hollis St. Suite A Emeryville, CA 94608

06/24/2011 9:46 Reported:

Project: 5781

Project Number: 351640 Project Manager: Kiersten Hoey

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID:	1109156-06	Client Sampl	e Name:	5781, MW-6-W-110	607, 6/7/2011 10:4	A-8015B/TPH ND 1		
Constituent		Result	Units	PQL	Method			Run #
Diesel Range Organic	s (C12 - C24)	ND	ug/L	40	EPA-8015B/TPH d	ND		1
Tetracosane (Surroga	te)	93.2	%	28 - 139 (LCL - UCL)	EPA-8015B/TPH d			1

					QC			
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/TPHd	06/14/11	06/18/11 02:34	MWB	GC-5	1	BUF1146	



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Project: 5781

Project Number: 351640
Project Manager: Kiersten Hoey

Solvent Scan (EPA Method 8015)

BCL Sample ID:	1109156-07	Client Sampl	e Name:	5781, MW-5-W-110	607, 6/7/2011 10	:36:00AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
Methanol		ND	ug/L	100	EPA-8015B	ND		1
2-Chloroacrylonitrile (S	Surrogate)	133	%	60 - 140 (LCL - UCL)	EPA-8015B			1

			Run				QC
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID
1	EPA-8015B	06/14/11	06/15/11 11:34	MWB	GC-12	1	BUF1004

5900 Hollis St. Suite A Emeryville, CA 94608 **Reported:** 06/24/2011 9:46

Project S781
Project Number: 351640
Project Manager: Kiersten Hoey

Volatile Organic Analysis (EPA Method 8260)

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
Benzene	32	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	1500	ug/L	25	EPA-8260	ND	A01	2
Methyl t-butyl ether	24	ug/L	0.50	EPA-8260	ND		1
Toluene	2300	ug/L	25	EPA-8260	ND	A01	2
Total Xylenes	16000	ug/L	100	EPA-8260	ND	A01	3
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	150	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	330	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)	110	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	114	%	76 - 114 (LCL - UCL)	EPA-8260			2
1,2-Dichloroethane-d4 (Surrogate)	108	%	76 - 114 (LCL - UCL)	EPA-8260			3
Toluene-d8 (Surrogate)	96.4	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.6	%	88 - 110 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)	EPA-8260			3
4-Bromofluorobenzene (Surrogate)	110	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.4	%	86 - 115 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	98.6	%	86 - 115 (LCL - UCL)	EPA-8260			3

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/17/11	06/17/11 16:03	KEA	MS-V10	1	BUF1151	
2	EPA-8260	06/17/11	06/20/11 13:02	KEA	MS-V10	50	BUF1151	
3	EPA-8260	06/17/11	06/20/11 13:55	KEA	MS-V10	100	BUF1151	

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Project: 5781

Project Number: 351640 Project Manager: Kiersten Hoey

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	1109156-07	Client Sampl	e Name:	5781, MW-5-W-110	607, 6/7/2011 10	:36:00AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (C4 - C12)	40000	ug/L	2500	EPA-8015B	ND	A01	1
a,a,a-Trifluorotoluene	(FID Surrogate)	97.0	%	70 - 130 (LCL - UCL)	EPA-8015B			1

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B	06/14/11	06/15/11 09:42	jjh	GC-V4	50	BUF0891	

5900 Hollis St. Suite A Emeryville, CA 94608 **Reported:** 06/24/2011 9:46

Project: 5781

Project Number: 351640 Project Manager: Kiersten Hoey

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1109156-07 Client Sample Name: 5781, MW-5-W-110607, 6/7/2011 10:36:00Al								
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organio	cs (C12 - C24)	3700	ug/L	400	EPA-8015B/TPH d	ND	A01	1
Tetracosane (Surroga	te)	14.0	%	28 - 139 (LCL - UCL)	EPA-8015B/TPH d		A01	1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/TPHd	06/14/11	06/20/11 15:52	MWB	GC-13	10	BUF1146	



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Project S781
Project Number: 351640
Project Manager: Kiersten Hoey

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: BUF1004						
Methanol	BUF1004-BLK1	ND	ug/L	100		
2-Chloroacrylonitrile (Surrogate)	BUF1004-BLK1	85.7	%	60 - 140	(LCL - UCL)	



5900 Hollis St. Suite A Emeryville, CA 94608 Reported: 06/24/2011 9:46

Project: 5781
Project Number: 351640

Project Manager: Kiersten Hoey

Solvent Scan (EPA Method 8015)

Quality Control Report - Laboratory Control Sample

							Control Limi				
				Spike		Percent		Percent		Lab	
Constituent	QC Sample ID	Type	Result	Level	Units	Recovery	RPD	Recovery	RPD	Quals	
QC Batch ID: BUF1004											
Methanol	BUF1004-BS1	LCS	1674.1	2000.0	ug/L	83.7		50 - 150			



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Project: 5781
Project Number: 351640

Project Number: 351640
Project Manager: Kiersten Hoey

Solvent Scan (EPA Method 8015)

Quality Control Report - Precision & Accuracy

									Cont		
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Туре	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
QC Batch ID: BUF1004	Use	d client samp	ole: N								
Methanol	MS	1107512-71	ND	1712.2	2000.0	ug/L		85.6		50 - 150	
	MSD	1107512-71	ND	1851.9	2000.0	ug/L	7.8	92.6	30	50 - 150	
2-Chloroacrylonitrile (Surrogate)	MS	1107512-71	ND	3908.0	4000.0	ug/L		97.7		60 - 140	
	MSD	1107512-71	ND	3749.7	4000.0	ug/L	4.1	93.7		60 - 140	



5900 Hollis St. Suite A Emeryville, CA 94608 Reported: 06/24/2011 9:46

Project S781
Project Number: 351640
Project Manager: Kiersten Hoey

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: BUF1151						
Benzene	BUF1151-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BUF1151-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BUF1151-BLK1	ND	ug/L	0.50		
Ethylbenzene	BUF1151-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BUF1151-BLK1	ND	ug/L	0.50		
Toluene	BUF1151-BLK1	ND	ug/L	0.50		
Total Xylenes	BUF1151-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BUF1151-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BUF1151-BLK1	ND	ug/L	10		
Diisopropyl ether	BUF1151-BLK1	ND	ug/L	0.50		
Ethanol	BUF1151-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BUF1151-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	BUF1151-BLK1	109	%	76 - 114	(LCL - UCL)	
Toluene-d8 (Surrogate)	BUF1151-BLK1	99.8	%	88 - 110	(LCL - UCL)	
4-Bromofluorobenzene (Surrogate)	BUF1151-BLK1	99.4	%	86 - 115	(LCL - UCL)	
QC Batch ID: BUF1152						
Benzene	BUF1152-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BUF1152-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BUF1152-BLK1	ND	ug/L	0.50		
Ethylbenzene	BUF1152-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BUF1152-BLK1	ND	ug/L	0.50		
Toluene	BUF1152-BLK1	ND	ug/L	0.50		
Total Xylenes	BUF1152-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BUF1152-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BUF1152-BLK1	ND	ug/L	10		
Diisopropyl ether	BUF1152-BLK1	ND	ug/L	0.50		
Ethanol	BUF1152-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BUF1152-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	BUF1152-BLK1	112			(LCL - UCL)	
Toluene-d8 (Surrogate)	BUF1152-BLK1	98.2	%		(LCL - UCL)	
4-Bromofluorobenzene (Surrogate)	BUF1152-BLK1	97.5	%		(LCL - UCL)	
	DOT THE DEIXT	07.0	/0	00 110	(_0	
QC Batch ID: BUF1322						
Benzene	BUF1322-BLK1	ND	ug/L	0.50		



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Project: 5781

Project Number: 351640 Project Manager: Kiersten Hoey

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: BUF1322						
1,2-Dibromoethane	BUF1322-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BUF1322-BLK1	ND	ug/L	0.50		
Ethylbenzene	BUF1322-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BUF1322-BLK1	ND	ug/L	0.50		
Toluene	BUF1322-BLK1	ND	ug/L	0.50		
Total Xylenes	BUF1322-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BUF1322-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BUF1322-BLK1	ND	ug/L	10		
Diisopropyl ether	BUF1322-BLK1	ND	ug/L	0.50		
Ethanol	BUF1322-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BUF1322-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	BUF1322-BLK1	102	%	76 - 114	4 (LCL - UCL)	
Toluene-d8 (Surrogate)	BUF1322-BLK1	101	%	88 - 110	(LCL - UCL)	
4-Bromofluorobenzene (Surrogate)	BUF1322-BLK1	99.8	%	86 - 115	5 (LCL - UCL)	



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Project: 5781
Project Number: 351640
Project Manager: Kiersten Hoey

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

								Control Lim		
		_	- "	Spike		Percent		Percent		Lab
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Quals
QC Batch ID: BUF1151										
Benzene	BUF1151-BS1	LCS	17.990	25.000	ug/L	72.0		70 - 130		
Toluene	BUF1151-BS1	LCS	20.340	25.000	ug/L	81.4		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUF1151-BS1	LCS	10.400	10.000	ug/L	104		76 - 114		
Toluene-d8 (Surrogate)	BUF1151-BS1	LCS	10.100	10.000	ug/L	101		88 - 110		<u> </u>
4-Bromofluorobenzene (Surrogate)	BUF1151-BS1	LCS	9.8700	10.000	ug/L	98.7		86 - 115		
QC Batch ID: BUF1152										
Benzene	BUF1152-BS1	LCS	20.710	25.000	ug/L	82.8		70 - 130		
Toluene	BUF1152-BS1	LCS	23.550	25.000	ug/L	94.2		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUF1152-BS1	LCS	10.790	10.000	ug/L	108		76 - 114		
Toluene-d8 (Surrogate)	BUF1152-BS1	LCS	10.180	10.000	ug/L	102		88 - 110		
4-Bromofluorobenzene (Surrogate)	BUF1152-BS1	LCS	10.230	10.000	ug/L	102		86 - 115		
QC Batch ID: BUF1322										
Benzene	BUF1322-BS1	LCS	22.190	25.000	ug/L	88.8		70 - 130		
Toluene	BUF1322-BS1	LCS	24.550	25.000	ug/L	98.2		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUF1322-BS1	LCS	10.170	10.000	ug/L	102		76 - 114		
Toluene-d8 (Surrogate)	BUF1322-BS1	LCS	9.8900	10.000	ug/L	98.9		88 - 110		
4-Bromofluorobenzene (Surrogate)	BUF1322-BS1	LCS	9.6900	10.000	ug/L	96.9		86 - 115		
· <u>·</u>	·		·			·				

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Project S781
Project Number: 351640
Project Manager: Kiersten Hoey

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

									Control Limits			
		Source	Source		Spike			Percent		Percent	Lab	
Constituent	Туре	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals	
QC Batch ID: BUF1151	Use	d client samp	ole: N									
Benzene	MS	1109032-02	ND	18.800	25.000	ug/L		75.2		70 - 130		
	MSD	1109032-02	ND	17.620	25.000	ug/L	6.5	70.5	20	70 - 130		
Toluene	MS	1109032-02	ND	19.000	25.000	ug/L		76.0		70 - 130		
	MSD	1109032-02	ND	18.310	25.000	ug/L	3.7	73.2	20	70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	MS	1109032-02	ND	11.170	10.000	ug/L		112		76 - 114		
	MSD	1109032-02	ND	10.690	10.000	ug/L	4.4	107		76 - 114		
Toluene-d8 (Surrogate)	MS	1109032-02	ND	9.8200	10.000	ug/L		98.2		88 - 110		
	MSD	1109032-02	ND	9.8100	10.000	ug/L	0.1	98.1		88 - 110		
4-Bromofluorobenzene (Surrogate)	MS	1109032-02	ND	10.330	10.000	ug/L		103		86 - 115		
	MSD	1109032-02	ND	9.7700	10.000	ug/L	5.6	97.7		86 - 115		
QC Batch ID: BUF1152	Use	d client samp	ole: N									
Benzene	MS	1107512-90	ND	21.360	25.000	ug/L		85.4		70 - 130		
	MSD	1107512-90	ND	20.560	25.000	ug/L	3.8	82.2	20	70 - 130		
Toluene	MS	1107512-90	ND	23.190	25.000	ug/L		92.8		70 - 130		
	MSD	1107512-90	ND	23.340	25.000	ug/L	0.6	93.4	20	70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	MS	1107512-90	ND	10.440	10.000	ug/L		104		76 - 114		
	MSD	1107512-90	ND	10.450	10.000	ug/L	0.1	104		76 - 114		
Toluene-d8 (Surrogate)	MS	1107512-90	ND	10.350	10.000	ug/L		104		88 - 110		
	MSD	1107512-90	ND	10.230	10.000	ug/L	1.2	102		88 - 110		
4-Bromofluorobenzene (Surrogate)	MS	1107512-90	ND	9.9400	10.000	ug/L		99.4		86 - 115		
	MSD	1107512-90	ND	9.8500	10.000	ug/L	0.9	98.5		86 - 115		
QC Batch ID: BUF1322	Use	d client samp	ole: N									
Benzene	_ MS	1107512-92	ND	21.170	25.000	ug/L		84.7		70 - 130		
	MSD	1107512-92	ND	19.780	25.000	ug/L	6.8	79.1	20	70 - 130		
Toluene	MS	1107512-92	ND	24.190	25.000	ug/L		96.8		70 - 130		
	MSD	1107512-92	ND	22.120	25.000	ug/L	8.9	88.5	20	70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	MS	1107512-92	ND	9.9800	10.000	ug/L		99.8		76 - 114		
	MSD	1107512-92	ND	9.8000	10.000	ug/L	1.8	98.0		76 - 114		
Toluene-d8 (Surrogate)	MS	1107512-92	ND	10.360	10.000	ug/L		104		88 - 110		
•	MSD	1107512-92	ND	10.050	10.000	ug/L	3.0	100		88 - 110		
4-Bromofluorobenzene (Surrogate)	MS	1107512-92	ND	9.9300	10.000	ug/L		99.3		86 - 115		
	MSD	1107512-92	ND	9.9000	10.000	ug/L	0.3	99.0		86 - 115		



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Project: 5781

Project Number: 351640
Project Manager: Kiersten Hoey

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: BUF0891						
Gasoline Range Organics (C4 - C12)	BUF0891-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BUF0891-BLK1	92.7	%	70 - 130	(LCL - UCL)	



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Project S781
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Project Manager: Kiersten Hoey

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

								Control Limits			
				Spike		Percent			Lab		
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Quals	
QC Batch ID: BUF0891											
	_										
Gasoline Range Organics (C4 - C12)	BUF0891-BS1	LCS	936.54	1000.0	ug/L	93.7		85 - 115			



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Project Number: 351640
Project Manager: Kiersten Hoey

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

								Control Limits				
		Source	Source		Spike			Percent		Percent	Lab	
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals	
QC Batch ID: BUF0891	Use	Used client sample: N										
Gasoline Range Organics (C4 - C12)	MS	1107512-72	ND	892.89	1000.0	ug/L		89.3		70 - 130		
	MSD	1107512-72	ND	938.29	1000.0	ug/L	5.0	93.8	20	70 - 130		
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1107512-72	ND	40.394	40.000	ug/L		101		70 - 130		
	MSD	1107512-72	ND	40.022	40.000	ug/L	0.9	100		70 - 130		



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Project: 5781

Project Number: 351640 Project Manager: Kiersten Hoey

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: BUF1146						
Diesel Range Organics (C12 - C24)	BUF1146-BLK1	ND	ug/L	40		
Tetracosane (Surrogate)	BUF1146-BLK1	101	%	28 - 139	(LCL - UCL)	



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Project: 5781

Project Number: 351640 Project Manager: Kiersten Hoey

Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Laboratory Control Sample

								Control L	imits		
Constituent	OC Sample ID	Tuna	Popult	Spike	Unito	Percent	BBD	Percent	BBD	Lab	
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Quals	
QC Batch ID: BUF1146											
Diesel Range Organics (C12 - C24)	BUF1146-BS1	LCS	379.92	500.00	ug/L	76.0		48 - 125			



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Project Number: 351640
Project Manager: Kiersten Hoey

Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Precision & Accuracy

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Туре	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
QC Batch ID: BUF1146	Use	d client samp	ole: N								
Diesel Range Organics (C12 - C24)	MS	1107512-31	ND	394.52	500.00	ug/L		78.9		36 - 130	
	MSD	1107512-31	ND	393.44	500.00	ug/L	0.3	78.7	30	36 - 130	
Tetracosane (Surrogate)	MS	1107512-31	ND	20.778	20.000	ug/L		104		28 - 139	
	MSD	1107512-31	ND	18.262	20.000	ug/L	12.9	91.3		28 - 139	



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Project: 5781 Project Number: 351640 Project Manager: Kiersten Hoey

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

PQL's and MDL's are raised due to sample dilution. A01

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
HISTORICT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

March 10, 2011 76 Station 5781

				Ground-										
Date	TOC	Depth to	LPH	Water	Change in		TPH-G			Ethyl-	Total	MTBE	MTBE	
Sampled	Elevation	Water	Thickness	Elevation	Elevation	TPH-D	8015	Benzene	Toluene	benzene	Xylenes	(8021B)	(8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	$(\mu g/l)$	$(\mu g/l)$	$(\mu g/l)$	(µg/l)	$(\mu g/l)$	$(\mu g/l)$	$(\mu g/l)$	$(\mu g/l)$	
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		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		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		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		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 Page	ND 1 of 2	ND	ND	ND		ND	

Table 2 HISTORICT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

							March 1	10, 2011					
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

				Ethylene-								Bromo-	
Date	TPH-G		Ethanol	dibromide	1,2-DCA					Total Oil		dichloro-	
Sampled	(GC/MS)	TBA	(8260B)	(EDB)	(EDC)	DIPE	ETBE	TAME	Methanol	and Grease	TRPH	methane	Comments
	()	$(\mu g/l)$	$(\mu g/l)$	$(\mu g/l)$	(mg/l)	(mg/l)	$(\mu g/l)$						
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 Page		ND<100				
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Table 2b ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 5781

			Carbon			2-			Dibromo-	1,2-	1,3-	1,4-	
Date	Bromo-	Bromo-	Tetra-	Chloro-		Chloroethyl		Chloro-	chloro-	Dichloro-	Dichloro-	Dichloro-	
Sampled	form (μg/l)	methane (µg/l)	chloride (µg/l)	benzene (µg/l)	ethane (µg/l)	vinyi etner (μg/l)	Chloroform $(\mu g/l)$	methane (µg/l)	methane (μg/l)	benzene (µg/l)	benzene (µg/l)	benzene (µg/l)	Comments
MW-4	(μg/1)	(μg/1)	(μg/1)	(μg/1)	(μg/1)	(μg/1)	(μg/1)	(μg/1)	(μg/1)	(μg/1)	(μg/1)	(μg/1)	
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	 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	
2/3/2004 2/18/2005	ND<2.0 ND<2.0	ND<1.0 ND<1.0	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<1.0 ND<1.0	ND<0.50	ND<0.50 ND<0.50	ND<2.0 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	
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	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	
3/22/2008 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	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
6/16/2010	ND<0.50	ND<1.0			ND<0.50				ND<0.50	ND<0.50	ND<0.50	ND<0.50	
9/29/2010													
12/21/2010													
12/21/2010							Page 1	of 2					

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Table 2b ADDITIONAL HISTORIC ANALYTICAL RESULTS

3/10/2011 -- -- -- -- -- -- -- -- -- -- --

Table 2c ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 5781

	Dichloro-					1,2-	cis-1,3-	trans-1,3-			Tetrachloro		
Date	difluoro-			cis-	trans-	Dichloro-	Dichloro-	Dichloro-		Tetrachloro-		trifluoro-	_
Sampled	methane (µg/l)	1,1-DCA (μg/l)	1,1-DCE (µg/l)	1,2-DCE (μg/l)	1,2-DCE (μg/l)	propane (μg/l)	propene (μg/l)	propene (μg/l)	chloride (µg/l)	ethane (µg/l)	(PCE) (µg/l)	ethane (µg/l)	Comments
MW-4	(μg/1)	(μg/1)	(μg/1)	(μg/1)									
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<5.0	ND<0.50	ND<0.50	ND<0.50							
2/18/2005	ND<1.0	ND<0.50	ND<5.0	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								
3/28/2007	ND<0.50	ND<1.0	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								
3/27/2009	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							 Do 1	 1 of 1					
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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							Page 1 of 1

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