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Alameda County  
Environmental Health

# THRIFTY OIL CO.

July 7, 2009

O.97649

Mr. Steven Plunkett  
Alameda County Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, 2nd Floor  
Alameda, CA 94502

Local #RO0000005  
RWQCB #01-1479  
EDF # 4614809334

RE: **Former Thrifty Oil Co. Station #063**  
**ARCO Products Company Station #9542**  
6125 Telegraph Avenue  
Oakland, CA  
***Second Quarter 2009, Status Report***

Dear Mr. Plunkett:

Presented herein is the Second Quarter 2009, Status Report prepared for former Thrifty Oil Co. (Thrifty) Station #063 located at 6125 Telegraph Avenue, Oakland, California (**Figure 1**). Presented in this report are the results of the quarterly groundwater-monitoring program and ongoing remediation conducted during the Second Quarter 2009. Thrifty has retained the services of Earth Management Company (EMC) to conduct quarterly monitoring and sampling, and remediation system operation and maintenance activities at this site.

On March 12, 2009, Thrifty submitted a *Request to Conduct Non-Purge Sampling* (NPS) letter requesting that all groundwater monitoring wells associated with the site be sampled using the non-purge method. Thrifty will commence non-purge groundwater sampling in accordance with the NPS letter as soon as the ACHCS grants approval.

On March 25, 2009, Thrifty submitted a *Request to Reduce Groundwater Sampling Frequency in Selected Monitoring Wells* Letter (the March 25, 2009 Letter). The March 25, 2009 Letter proposed a reduction in the frequency of sampling of wells MW-1, MW-5 and MW-8 from quarterly to semi-annually and a reduction in the frequency of sampling well MW-6 from quarterly to annually. Thrifty will commence the proposed reduction in the sampling schedule as soon as the ACHCS grants approval.

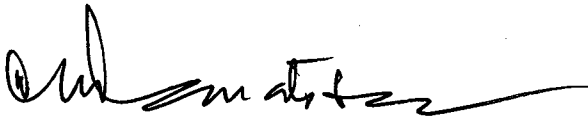
I declare, under penalty of perjury, that the information and/or recommendations contained in this document are true and correct to the best of my knowledge.



13116 Imperial Hwy, Santa Fe Springs, CA 90670-0138 • Ph: (562)921-3581

Should you have any questions regarding this report, please contact Simon Tregurtha (562) 921-3581 Ext. 260 or the undersigned at Ext 390.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Chris Panaitescu", with a long horizontal flourish extending to the right.

Chris Panaitescu  
General Manager  
Environmental Affairs

cc: BP West Coast Products LLC; Ms. Janet J. Wager  
File

## Summary of Monitoring and Sampling Activities

Thrifty Oil Co. Station #063

Second Quarter 2009

Reporting Period: 04/01/2009 to 06/30/2009

### Site Information:

Site address:	TOC SS #063 (ARCO #9542) 6125 Telegraph Avenue Oakland, CA
Global ID No.:	T0600101366
EDF Confirmation No.:	4614809334
Lead Agency No.:	Local #RO0000005
Lead Agency:	Alameda County Health Care Services
Agency Contact:	Mr. Steven Plunkett / 510 383-1767
Project Manager:	Simon Tregurtha / 562-921-3581 ext. 260

### Field Activity:

Groundwater wells onsite:	5
Groundwater wells offsite:	2
Date(s) monitored:	May 6, 2009
Date(s) sampled:	May 6, 2009
Groundwater wells gauged:	7
Groundwater wells sampled:	7
Purging method:	Bailer / Pump
Treatment / disposal method during sampling event:	Existing groundwater treatment system
Groundwater wells with free product:	0
Free product thickness (feet):	NA
Free product bailouts other than sampling event:	NA
Treatment / disposal method/free product bailouts:	NA

### Site Hydrogeology (based on May 6, 2009 data):

Depth to groundwater (feet bgs):	10.63 to 16.53
Groundwater elevation (feet above mean sea level):	132.35 to 137.75
Groundwater gradient and flow direction:	West- southwest at approximately 0.090 ft./ft.
Consistent with previous quarter:	Similar to previous quarter

### Groundwater Conditions (sample date: 5-6-09):

TPHg concentration (ug/L):	ND<6.6 to 15,400
Benzene concentration (ug/L):	ND<0.18 to 241
Toluene concentration (ug/L):	ND<0.24 to 1,110

Ethyl benzene concentration (ug/L):	ND<0.21 to 342
Total Xylenes concentration (ug/L):	ND<0.45 to 1,660
MTBE concentration (ug/L):	ND<0.19 to 10
DIPE concentration (ug/L):	ND<0.20 to ND <2.0
ETBE concentration (ug/L):	ND<0.23 to ND <2.3
TAME concentration (ug/L):	ND<0.19 to ND <1.9
TBA concentration (ug/L):	ND<5.2 to ND<52.0

### **Remediation Activity:**

System type:	GWPT
System start-up:	4/8/1991
GW discharge this quarter (gal.):	7,470 (03/08/09 to 05/29/09)
Total GW discharge (gal.):	3,285,309 (through May 29, 2009)

### **Groundwater Monitoring**

Depth to groundwater is measured in each monitoring well on a quarterly basis. Groundwater monitoring well locations are presented in **Figure 1**. A groundwater elevation contour map based on the May 6, 2009, groundwater monitoring data is presented in **Figure 2**. The groundwater flow direction is to the west-northwest at an approximate gradient of 0.090 feet/foot.

### **Quarterly Groundwater Sampling**

As part of the ongoing groundwater-monitoring program, groundwater samples were obtained from monitoring wells MW-1, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8 on May 6, 2009. Groundwater samples were collected by Earth Management Company (EMC) and delivered in a chilled state following strict Chain-of-Custody procedure to a state-certified laboratory. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015B, and for benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tert-butyl ether (MTBE) and other oxygenates by EPA Method 8260B. Laboratory analytical results are provided in the **Summary Table, Table 1** and **Table 2**. Copies of the Field Status Reports for groundwater sampling are presented in **Appendix A**, and copies of the laboratory analytical reports are contained in **Appendix B**.

Laboratory results for the groundwater samples collected on May 6, 2009 indicate that the highest concentrations of TPHg and benzene were detected in well MW-7 at 15,400 micrograms per liter ( $\mu\text{g/L}$ ) and 241  $\mu\text{g/L}$ , respectively. The highest concentration of MTBE was detected in well MW-3 at 10  $\mu\text{g/L}$ . TBA and all other oxygenated compounds were not detected at or above laboratory detection limits in any of the wells.

TPHg, benzene, MTBE, and TBA concentration results for the May 6, 2009 sample results are presented in **Figures 3, 4, 5, and 6**, respectively.

In general, Second Quarter 2009 concentrations in wells MW-3 and MW-4 decreased significantly when compared to First Quarter 2009 and Fourth Quarter 2009 laboratory results. Thrifty believes that the increased concentrations noted in wells MW-3 and MW-4 during the Fourth Quarter 2008 and First Quarter 2009 (when compared to the results of the last few years of sampling) may have been the result of the rising groundwater table, which may have caused groundwater to come into contact with adsorbed-phase petroleum hydrocarbons remaining in the subsurface soils in the source area. Alternatively, the increased concentrations could also have been due to dissolved hydrocarbons being drawn toward these wells during operation of the groundwater treatment system (wells MW-3 and MW-4 are the system extraction wells), as stated in the *Fourth Quarter 2008 Status Report and First Quarter 2009 Status Report*.

On March 12, 2009, Thrifty submitted a *Request to Conduct Non-Purge Sampling (NPS)* letter requesting that all groundwater monitoring wells associated with the site be sampled using the non-purge method. On March 25, 2009, Thrifty submitted a *Request to Reduce Groundwater Sampling Frequency in Selected Monitoring Wells*. Thrifty will commence non-purge groundwater sampling and groundwater sampling reduction as soon as the ACHCS grants approval of these requests.

### **Remediation Status**

Site remedial activities were initiated in April 1991. Currently, the remediation system consists of a Groundwater Treatment System that extracts groundwater from monitoring wells MW-3 and MW-4 with treatment utilizing activated carbon. System operational data is included in **Table 3**. Copies of the Field Status Reports for groundwater remediation system are presented in **Appendix C**, and copies of the laboratory analytical reports are contained in **Appendix D**. During the current reporting period (from March 08 through May 29, 2009), the groundwater treatment system processed approximately 7,470 gallons of groundwater and has treated approximately 3,285,309 gallons of groundwater since start-up (April 1991). The system was upgraded in the 2nd Quarter 2005, when a pump was replaced in well MW-3 and MW-4 was added to the extraction well array.

### **Other Activities**

In a letter received by Thrifty dated December 7, 2005, the Alameda County Health Care Services (ACHCS) requested site information including depth to water, groundwater flow direction, dissolved constituents concentrations, well screen levels, plume stability, and if active remediation was occurring onsite. Thrifty provided the requested information on January 10, 2006. The ACHCS also requested that a site conceptual model (SCM) be prepared for the site; Thrifty uploaded the SCM to the ACHCS FTP website and to Geotracker on April 26, 2006.

In a letter received by Thrifty dated October 24, 2006, the ACHCS requested a Revised SCM (RSCM) and an offsite investigation workplan (Workplan). On behalf of Thrifty, Equipose Corporation uploaded the RSCM and Workplan to the California Geotracker website and the ACHCS FTP website on November 29, 2006. Subsequently, the ACHCS sent a letter to Thrifty dated December 21, 2006 approving the Workplan for down-gradient off-site assessment. On

February 22, 2007, two downgradient groundwater monitoring wells (MW-7 and MW-8) were installed on the adjacent property located to the south of the Site by Test America of Rancho Cordova, California under the supervision of Equipoise Corporation. Results of the additional site assessment were presented in a *Site Assessment/Well Installation Report*, submitted to ACHCS on April 5, 2007.

In an effort to reduce hydrocarbon contamination in the soil and groundwater beneath the site and to move the site towards closure, Thrifty proposed the implementation of a continuous 5-day high vacuum dual-phase extraction (HVDPE) event (with possible additional events to be performed based upon results). The HVDPE was proposed in the Second Quarter 2008 Status Report dated July 2, 2008 and at that time Thrifty indicated that it would submit a workplan detailing the proposed Interim Remedial Action upon your approval. The ACEHS did not respond to Thrifty's proposal and on September 2, 2008 (after waiting 60-days and under the 60-day rule) Thrifty submitted a Remedial Action Plan (RAP). The RAP proposed performing a five consecutive day (24-hours/day) multi-phase extraction (MPE) event to reduce the hydrocarbon concentrations beneath the site. As an alternative to the HVDPE event proposed in the Second Quarter 2008 Status Report, the RAP proposed to utilize the existing groundwater treatment system in combination with a mobile soil vapor extraction (SVE) unit to facilitate the MPE event. The proposed MPE event would be as technically effective as the HVDPE and much more cost-effective by utilizing the existing system for treatment and discharge of groundwater to the sewer (rather than incurring Baker Tank and offsite disposal costs).

In a letter dated December 29, 2008 (the Letter) the Alameda County Health Care Services (ACHCS) indicated that they would not approve the RAP until several outstanding issues have been addressed, including delineating the downgradient extent of the contamination plume and evaluating the associated human health risks.

On February 4, 2009, Thrifty submitted a Response Letter that addressed several statements and comments included in Item 4 of the Technical Comments Section of the December 29, 2008 ACHCS Letter. The Response Letter included clarification of statements made by both Thrifty and the ACHCS regarding peak concentrations detected in the influent stream of the groundwater extraction system.

On February 18, 2009, Thrifty submitted an *Additional Site Assessment Workplan* (ASAW). The Workplan was also prepared in response to the December 29, 2008 ACHCS Letter, which requested that Thrifty propose a scope of work to: (1) evaluate the lateral and vertical extent of the source area soil contamination; (2) evaluate the lateral and vertical extent of the dissolved phase plume downgradient of the site; (3) collect soil vapor samples to assess the potential risk to on-site and offsite receptors. To comply with the directives in the Letter, the ASAW proposed collecting four soil vapor samples (SV-1 through SV-4) at approximately 3-feet below ground surface (bgs), advancing four soil borings (SB-1 through SB-4) to approximately 30-feet bgs, and installing one offsite groundwater monitoring well (MW-9) to approximately 30-feet bgs (**Figures 1A and 1B**).

**Activities Planned for Third Quarter 2009**

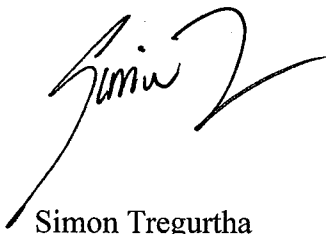
The following activities are planned for next reporting period (Third Quarter 2009):

- Continue groundwater monitoring and sampling;
- Continue operations of the groundwater remediation system;
- Upon your approval, Thrifty will implement the September 2, 2008 RAP;
- Upon your approval, Thrifty will implement the February 18, 2009 ASAW;
- Upon your approval, Thrifty will commence non-purge groundwater sampling in accordance with the NPS letter dated March 12, 2009; and
- Upon your approval, Thrifty will reduce the sampling frequency wells MW-1, MW-5 and MW-8 from quarterly to semi-annually and reduce the frequency of sampling well MW-6 from quarterly to annually.

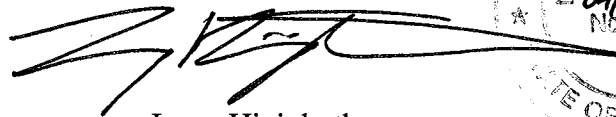
**Closing Comments**

Interpretations expressed herein are based solely upon data collected and provided by EMC and Associated Laboratories. Should you have any questions regarding this report or require any additional information, please contact Simon Tregurtha at 562-921-3581, Ext. 260.

Sincerely:



Simon Tregurtha  
Project Geologist



Larry Higinbotham  
Registered Geologist



# ***TABLES***



**SUMMARY TABLE  
CURRENT PERIOD GROUNDWATER DATA  
THRIFTY OIL STATION #063, OAKLAND, CA, 94609  
T0600101366**

WELL	STATUS	Monit/ Sampl. Date	ANALYTICAL PARAMETERS										MONITORING PARAMETERS				ELEVATION		WELL SCREEN (feet)
			TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	DTP (feet)	DTW (feet)	DTB (feet)	PT (feet)	CASING (feet)	GW (feet)	
MW-1	ACT	05/06/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	<0.20	<0.23	<0.19	<5.2	NP	15.52	28.94	0.00	148.43	132.91	15 - 30
MW-3	ACT	05/06/09	119	<0.18	2.3 J	2.7 J	22	10	<0.20	<0.23	<0.19	<5.2	NP	15.26	28.20	0.00	148.94	133.68	15 - 30
MW-4	ACT	05/06/09	2,660	8.7	184	76	452	3.4	<0.20	<0.23	<0.19	<5.2	NP	16.53	29.07	0.00	148.88	132.35	9 - 29
MW-5	ACT	05/06/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	<0.20	<0.23	<0.19	<5.2	NP	14.09	26.23	0.00	149.62	135.53	7 - 27
MW-6	ACT	05/06/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	<0.20	<0.23	<0.19	<5.2	NP	10.63	26.78	0.00	148.38	137.75	7 - 27
MW-7	ACT	05/06/09	15,400	241	1,110	342	1,660	<1.9	<2.0	<2.3	<1.9	<52.0	NP	12.33	17.45	0.00	148.20	135.87	8 - 18
MW-8	ACT	05/06/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	<0.20	<0.23	<0.19	<5.2	NP	14.93	18.29	0.00	147.31	132.38	8 - 18

**NOTE:**

ACT	Groundwater well currently used for monitoring	TPHg	= Total Petroleum Hydrocarbons as gasoline	MTBE	= Methyl-tert-butyl ether	DTP	= Depth To Product	" - "	= Not analyzed / Not available
INACT	Groundwater well is NOT included in monitoring program	TPHd	= Total Petroleum Hydrocarbons as diesel	DIPE	= Isopropyl ether	DTW	= Depth To Water	" < "	= Less than detection level indicated
DRY	Groundwater well is dry and/or cannot be sampled	B	= Benzene	ETBE	= Ethyl-tert-butyl ether	DTB	= Depth To Bottom	" J "	= Flag indicating value
NOACC	Presently no access to groundwater well	T	= Toluene	TAME	= Tert-amyl methyl ether	PT	= Product Thickness		between MDL & PQL
DEST	Well has been properly destroyed, no longer a conduit to subsurf	E	= Ethylbenzene	TBA	= Tertiary butyl alcohol	GW	= Groundwater	NP	= No free product
AB	Groundwater well is abandoned, but not yet destroyed	X	= Total Xylenes						

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #063, OAKLAND, CA**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
<b>MONITORING WELL #MW-1</b>											
<i>Screen Interval = 15 to 30 feet</i>											
11/21/86	-	-	-	-	-	-	NP	15.42	0.00	99.34	83.92
07/22/91	-	-	-	-	-	-	FILM	20.41	0.00	99.34	78.93
10/24/91	-	-	-	-	-	-	SHEEN	19.06	0.00	99.34	80.28
01/22/92	-	-	-	-	-	-	SHEEN	18.78	0.00	99.34	80.56
03/24/92	-	-	-	-	-	-	SHEEN	13.55	0.00	99.34	85.79
07/15/92	-	-	-	-	-	-	FILM	18.90	0.00	99.34	80.44
10/05/92	-	-	-	-	-	-	FILM	20.50	0.00	99.34	78.84
01/06/93	-	-	-	-	-	-	FILM	14.93	0.00	99.34	84.41
07/13/93	-	-	-	-	-	-	FILM	15.44	0.00	99.34	83.90
10/11/93	-	-	-	-	-	-	FILM	20.36	0.00	99.34	78.98
01/11/94	-	-	-	-	-	-	FILM	19.50	0.00	99.34	79.84
04/12/94	-	-	-	-	-	-	FILM	18.10	0.00	99.34	81.24
07/14/94	-	-	-	-	-	-	FILM	20.03	0.00	99.34	79.31
01/15/96	11,000	2,800	150	780	770	-	NP	19.02	0.00	99.34	80.32
04/15/96	17,000	3,600	330	1,500	3,400	-	NP	18.82	0.00	99.34	80.52
07/15/96	12,000	1,300	200	1,200	4,600	250	NP	#N/A	-	-	-
10/09/96	-	-	-	-	-	-	NP	14.87	0.00	99.34	84.47
01/13/97	27,000	810	6,000	570	4,100	2,700	NP	10.20	0.00	99.34	89.14
04/14/97	2,900	3.0	2.9	<0.3	1.7	9,900	NP	#N/A	-	-	-
07/07/97	5,200	0.57	0.57	<0.3	0.71	16,000	NP	18.75	0.00	99.34	80.59
10/16/97	680	<0.3	0.55	<0.3	<0.5	-	NP	17.92	0.00	99.34	81.42
01/07/98	42,000	980	2,800	1,200	5,200	1.3	NP	9.80	0.00	99.34	89.54
04/06/98	7,100	700	340	170	2,600	1,000	NP	9.60	0.00	99.34	89.74
07/14/98	19,000	2,100	400	890	5,800	1,600	NP	13.70	0.00	99.34	85.64
10/15/98	490	<0.3	<0.3	<0.3	<0.5	1,300	NP	15.25	0.00	99.34	84.09
01/20/99	350	<0.3	<0.3	<0.3	<0.5	* 670 / 820	NP	12.20	0.00	99.34	87.14
04/16/99	320	<0.3	<0.3	<0.3	<0.5	* 540 / 630	NP	12.20	0.00	99.34	87.14
07/14/99	290	<0.3	<0.3	<0.3	<0.5	*590 / 580	NP	13.75	0.00	99.34	85.59
10/07/99	130	<0.3	<0.3	<0.3	<0.5	270	NP	12.15	0.00	99.34	87.19
01/26/00	13,000	460	54	290	3,700	940	NP	13.14	0.00	99.34	86.20
04/19/00	546	<0.25	<0.25	<0.25	<0.5	*430 / 606	NP	10.63	0.00	99.34	88.71
05/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5.0	NP	9.11	0.00	99.34	90.23
07/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5.0	NP	9.10	0.00	99.34	90.24
10/25/00	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	9.08	0.00	99.34	90.26
01/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	12.16	0.00	99.34	87.18
04/23/01	18,100	740	55	650	4,000	*1,850 / 842	NP	10.60	0.00	99.34	88.74
07/16/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	9.07	0.00	99.34	90.27
10/17/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	12.16	0.00	99.34	87.18
01/23/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	15.23	0.00	99.34	84.11
04/10/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	15.17	0.00	99.34	84.17
07/24/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	16.71	0.00	99.34	82.63
10/30/02	<50	2.2	<0.14	<0.18	<0.26	13	NP	15.16	0.00	99.34	84.18
01/15/03	465 J	<0.14	<0.07	<0.08	<0.35	147	NP	16.70	0.00	99.34	82.64
04/16/03	<15	<0.04	<0.02	<0.02	<0.06	<0.03	NP	15.16	0.00	99.34	84.18
07/14/03	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	13.64	0.00	99.34	85.70
10/08/03	761	11	<0.32	1.4 J	2.9 J	653	NP	15.50	0.00	99.34	83.84
01/15/04	853	<0.04	<0.02	<0.02	<0.06	*1,100 / 558	NP	14.20	0.00	99.34	85.14
04/14/04	494	<2.2	<3.2	<3.1	<4.0	843	NP	12.93	0.00	99.34	86.41
07/29/04	1,040	<2.2	<3.2	<3.1	<4.0	1,070	NP	14.73	0.00	99.34	84.61
10/14/04	3,250	266	<0.32	59	78	811	NP	15.26	0.00	99.34	84.08
01/06/05	197	<0.22	<0.32	<0.31	<0.4	406	NP	15.14	0.00	99.34	84.20
04/13/05	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	9.40	0.00	99.34	89.94

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #063, OAKLAND, CA**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
07/27/05	<2.9	<0.32	<0.10	<0.24	<0.30	<0.63	NP	16.65	0.00	99.34	82.69
10/12/05	<2.9	<0.32	<0.10	<0.24	<0.30	<0.63	NP	18.19	0.00	99.34	81.15
01/19/06	1,380	58	<0.10	62	113	33	NP	9.37	0.00	99.34	89.97
04/12/06	<5.6	<0.32	<0.10	<0.24	<0.30	<0.63	NP	10.02	0.00	99.34	89.32
07/26/06	8,850	151	649	178	778	133	NP	15.18	0.00	99.34	84.16
10/25/06	<5.6	<0.32	<0.10	<0.24	<0.3	75	NP	15.13	0.00	99.34	84.21
01/24/07	<5.6	<0.32	3.1 J	1.2 J	6.4	<0.63	NP	13.60	0.00	148.43	132.82
04/24/07	3,090	133	3.2 J	114	116	72	NP	15.61	0.00	148.43	132.82
07/25/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	14.67	0.00	148.43	133.76
10/24/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	14.26	0.00	148.43	134.17
01/23/08	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	15.60	0.00	148.43	132.83
04/29/08	<6.6	<0.18	1.4 J	<0.21	1.4 J	<0.19	NP	16.32	0.00	148.43	132.11
07/30/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	15.04	0.00	148.43	133.39
10/29/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	14.23	0.00	148.43	134.20
01/29/09	<6.6	<0.18	1.3 J	<0.21	<0.45	<0.19	NP	14.24	0.00	148.43	134.19
05/06/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	15.52	0.00	148.43	132.91
<b>MONITORING WELL #MW-2</b> Screen Interval = 15 to 30 feet											
11/21/86	-	-	-	-	-	-	0.11	14.90	14.79	100.01	96.28
07/22/91	-	-	-	-	-	-	0.38	17.84	17.46	100.01	95.35
10/24/91	-	-	-	-	-	-	16.97	17.00	0.03	100.01	83.03
01/22/92	-	-	-	-	-	-	FILM	16.72	0.00	100.01	83.29
03/24/92	-	-	-	-	-	-	11.98	15.81	3.83	100.01	87.09
07/15/92	-	-	-	-	-	-	FILM	16.37	0.00	100.01	83.64
10/05/92	-	-	-	-	-	-	18.09	18.41	0.32	100.01	81.84
01/06/93	-	-	-	-	-	-	FILM	12.37	0.00	100.01	87.64
07/13/93	-	-	-	-	-	-	FILM	15.19	0.00	100.01	84.82
10/11/93	-	-	-	-	-	-	0.10	18.05	17.95	100.01	95.51
01/11/94	-	-	-	-	-	-	0.03	16.98	16.95	100.01	95.83
04/12/94	-	-	-	-	-	-	FILM	15.54	0.00	100.01	84.47
07/14/94	-	-	-	-	-	-	FILM	17.93	0.00	100.01	82.08
01/15/96	7,100	720	280	48	660	-	NP	17.20	0.00	100.01	82.81
04/15/96	11,000	600	59	420	870	-	NP	17.26	0.00	100.01	82.75
07/15/96	19,000	360	51	610	1,600	<250	-	#N/A	-	-	-
10/09/96	-	-	-	-	-	-	NP	14.42	0.00	100.01	85.59
01/13/97	11,000	230	30	91	700	56	NP	10.25	0.00	100.01	89.76
04/14/97	141	1.2	0.33	0.44	<0.5	20	-	#N/A	-	-	-
07/07/97	<50	<0.3	<0.3	<0.3	<0.5	<20	NP	17.20	0.00	100.01	82.81
10/16/97	<50	<0.3	<0.3	<0.3	<0.5	<0.5	NP	16.20	0.00	100.01	83.81
01/07/98	-	-	-	-	-	-	16.18	16.26	0.08	100.01	83.81
Well Abandoned 1/30/98											
<b>MONITORING WELL #MW-3</b> Screen Interval = 15 to 30 feet (GROUNDWATER SYSTEM'S PUMPING WELL)											
11/21/86	-	100	5.1	<1.0	25	-	0.10	16.25	16.15	99.76	95.70
07/22/91	-	-	-	-	-	-	NP	24.00	0.00	99.76	75.76
10/24/91	-	-	-	-	-	-	NP	18.10	0.00	99.76	81.66
01/22/92	-	-	-	-	-	-	SHEEN	25.80	0.00	99.76	73.96
03/24/92	-	-	-	-	-	-	NP	15.60	0.00	99.76	84.16
07/15/92	-	-	-	-	-	-	FILM	25.10	0.00	99.76	74.66
10/05/92	-	-	-	-	-	-	NP	25.20	0.00	99.76	74.56
01/06/93	-	-	-	-	-	-	NP	25.45	0.00	99.76	74.31

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #063, OAKLAND, CA**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
07/13/93	-	-	-	-	-	-	NP	14.24	0.00	99.76	85.52
10/11/93	-	-	-	-	-	-	NP	25.60	0.00	99.76	74.16
01/11/94	-	-	-	-	-	-	NP	25.90	0.00	99.76	73.86
04/12/94	-	-	-	-	-	-	NP	25.70	0.00	99.76	74.06
07/14/94	-	-	-	-	-	-	NP	25.10	0.00	99.76	74.66
01/15/96	-	-	-	-	-	-	NP	26.04	0.00	99.76	73.72
04/15/96	-	-	-	-	-	-	NP	21.03	0.00	99.76	78.73
07/15/96	5,900	240	30	270	730	780	#N/A	-	-	-	-
10/09/96	-	-	-	-	-	-	NP	21.43	0.00	99.76	78.33
01/13/97	-	-	-	-	-	-	NP	11.20	0.00	99.76	88.56
07/07/97	-	-	-	-	-	-	NP	23.40	0.00	99.76	76.36
10/16/97	-	-	-	-	-	-	NP	22.30	0.00	99.76	77.46
01/07/98	-	-	-	-	-	-	NP	20.10	0.00	99.76	79.66
07/14/98	-	-	-	-	-	-	NP	14.40	0.00	99.76	85.36
10/15/98	-	-	-	-	-	-	#N/A	-	-	-	-
01/20/99	-	-	-	-	-	-	#N/A	-	-	-	-
04/16/99	-	-	-	-	-	-	NP	11.20	0.00	99.76	88.56
07/14/99	5,600	9.6	1.3	3.5	8.1	*14,000 / 14,000	NP	25.87	0.00	99.76	73.89
10/07/99	-	-	-	-	-	-	NP	15.40	0.00	99.76	84.36
01/26/00	-	-	-	-	-	-	NP	14.25	0.00	99.76	85.51
04/19/00	-	-	-	-	-	-	NP	14.20	0.00	99.76	85.56
05/26/00	-	-	-	-	-	-	NP	15.12	0.00	99.76	84.64
07/26/00	-	-	-	-	-	-	NP	14.30	0.00	99.76	85.46
10/25/00	-	-	-	-	-	-	NP	14.32	0.00	99.76	85.44
01/10/01	-	-	-	-	-	-	NP	13.46	0.00	99.76	86.30
04/23/01	-	-	-	-	-	-	#N/A	-	-	-	-
07/16/01	-	-	-	-	-	-	NP	12.80	0.00	99.76	86.96
10/17/01	-	-	-	-	-	-	NP	15.30	0.00	99.76	84.46
01/23/02	-	-	-	-	-	-	#N/A	-	-	-	-
04/10/02	-	-	-	-	-	-	NP	13.22	0.00	99.76	86.54
07/24/02	-	-	-	-	-	-	NP	14.32	0.00	99.76	85.44
10/30/02	-	-	-	-	-	-	NP	16.20	0.00	99.76	83.56
01/15/03	-	-	-	-	-	-	NP	14.10	0.00	99.76	85.66
04/16/03	-	-	-	-	-	-	#N/A	-	-	99.76	-
07/14/03	2,490	<0.22	<0.32	<0.31	1.3 J	2,050	NP	18.30	0.00	99.76	81.46
10/08/03	3,330	<0.22	<0.32	<0.31	<0.4	4,070	NP	16.65	0.00	99.76	83.11
01/15/04	102	2.1	3.5	<0.02	12	*28 / 17	NP	14.18	0.00	99.76	85.58
04/14/04	464	63	18	<0.31	16	189	NP	13.45	0.00	99.76	86.32
07/29/04	1,560	74	<3.2	30 J	<4.0	729	NP	15.94	0.00	99.76	83.82
10/14/04	2,490	25	<0.32	<0.31	<0.4	2,530	NP	16.11	0.00	99.76	83.65
01/06/05	394	12	<0.32	1.5 J	<0.4	51	NP	15.61	0.00	99.76	84.15
04/13/05	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	9.19	0.00	99.76	90.57
07/27/05	383	5.6	<0.10	17	2.4 J	125	NP	16.63	0.00	99.76	83.13
10/12/05	<2.9	<0.32	<0.10	<0.24	<0.30	<0.63	NP	16.97	0.00	99.76	82.79
01/19/06	2,050	93	2.2 J	103	55	273	NP	10.92	0.00	99.76	88.84
04/12/06	70	<0.32	<0.10	<0.24	<0.30	265	NP	12.55	0.00	99.76	87.21
07/26/06	228	<0.32	<0.10	<0.24	26	389	NP	14.94	0.00	99.76	84.82
10/25/06	87,100	26	4,880	2,390	18,500	<6.3	NP	17.49	0.00	99.76	82.27
01/24/07	4,770	1.5	98	86	604	<0.63	NP	13.40	0.00	148.94	135.54
04/24/07	15,700	42	<2.4	404	1,250	<1.9	NP	16.76	0.00	148.94	132.18
07/25/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	15.72	0.00	148.94	133.22
10/24/07	2,100	120	1.5 J	36	4.0 J	499	NP	15.43	0.00	148.94	133.51
01/23/08	59	<0.18	<0.24	<0.21	3.2 J	25	NP	15.43	0.00	148.94	133.51

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GROUNDWATER DATA  
THRIFTY OIL STATION #063, OAKLAND, CA**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
04/29/08	1,770	34	273	60	361	11	NP	16.30	0.00	148.94	132.64
07/30/08	<6.6	<0.18	<0.24	<0.21	1.9 J	<0.19	NP	15.61	0.00	148.94	133.33
10/29/08	13,500	84	1,190	615	4,080	28	NP	15.42	0.00	148.94	133.52
01/29/09	2,510	81	449	67	448	<1.9	NP	15.40	0.00	148.94	133.54
05/06/09	119	<0.18	2.3 J	2.7 J	22	10	NP	15.26	0.00	148.94	133.68
<b>MONITORING WELL #MW-4</b>											
Screen Interval = 9 to 29 feet											
11/21/86	100,000	3,200	2,700	2,400	14,000	-	FILM	16.22	0.00	99.48	83.26
07/22/91	-	-	-	-	-	-	21.35	21.80	0.45	99.48	78.02
10/24/91	-	-	-	-	-	-	SHEEN	20.02	0.00	99.48	79.46
01/22/92	-	-	-	-	-	-	SHEEN	19.78	0.00	99.48	79.70
03/24/92	-	-	-	-	-	-	FILM	13.94	0.00	99.48	85.54
07/15/92	-	-	-	-	-	-	FILM	19.27	0.00	99.48	80.21
10/05/92	-	-	-	-	-	-	FILM	21.44	0.00	99.48	78.04
01/06/93	-	-	-	-	-	-	FILM	14.08	0.00	99.48	85.40
07/13/93	-	-	-	-	-	-	FILM	16.09	0.00	99.48	83.39
10/11/93	-	-	-	-	-	-	FILM	21.33	0.00	99.48	78.15
01/11/94	-	-	-	-	-	-	FILM	20.45	0.00	99.48	79.03
04/12/94	-	-	-	-	-	-	FILM	19.05	0.00	99.48	80.43
07/14/94	-	-	-	-	-	-	FILM	20.41	0.00	99.48	79.07
01/15/96	5,000	370	38	300	390	-	NP	19.89	0.00	99.48	79.59
04/15/96	38,000	300	78	540	470	-	NP	19.62	0.00	99.48	79.86
07/15/96	13,000	880	69	820	1,100	3,600	#N/A	-	-	-	-
10/09/96	-	-	-	-	-	-	NP	15.32	0.00	99.48	84.16
01/13/97	47,000	2,500	2,500	1,100	2,800	70,000	NP	10.80	0.00	99.48	88.68
04/14/97	8,700	<0.3	0.45	<0.3	0.64	29,000	#N/A	-	-	-	-
07/07/97	12,000	<0.3	<0.3	<0.3	<0.5	-	NP	18.80	0.00	99.48	80.68
10/16/97	770	<0.3	<0.3	<0.3	<0.5	-	NP	17.76	0.00	99.48	81.72
01/07/98	75,000	3,000	900	1,400	2,500	110	NP	11.60	0.00	99.48	87.88
04/08/98	18,000	1,200	130	710	1,400	22,000	NP	10.10	0.00	99.48	89.38
07/14/98	21,000	1,300	58	1,200	1,100	23,000	NP	16.30	0.00	99.48	83.18
10/15/98	9,100	1.1	0.62	<0.3	<0.5	30,000	NP	16.90	0.00	99.48	82.58
01/20/99	16,000	<0.3	0.91	0.72	1.4	* 43,000 / 42,000	NP	15.35	0.00	100.48	85.13
04/16/99	17,000	0.48	0.92	0.54	1.4	* 28,000 / 26,000	NP	15.30	0.00	100.48	85.18
07/14/99	8,500	<6.0	<6.0	<6.0	<10	*21,000 / 16,000	NP	18.40	0.00	100.48	82.08
10/07/99	2,500	<1.5	3.1	<1.5	<2.5	4,800	NP	16.89	0.00	100.48	83.59
01/26/00	9,900	350	9.0	460	460	2,800	NP	12.62	0.00	100.48	87.86
04/19/00	8,990	0.7	<0.25	<0.25	<0.5	*3,240 / 5,450	NP	12.28	0.00	100.48	88.20
05/26/00	94	<0.3	<0.3	<0.3	<0.6	*746 / 419	NP	13.81	0.00	100.48	86.67
07/26/00	<50	<0.3	<0.3	<0.3	<0.6	3,110 / 2,060	NP	12.29	0.00	100.48	88.19
10/25/00	2,480	<0.18	<0.14	<0.18	<0.26	*3,690 / 3,040	NP	12.26	0.00	100.48	88.22
01/10/01	<50	<0.18	2.0	<0.18	1.0	962	NP	10.75	0.00	100.48	89.73
04/23/01	482	<0.18	<0.14	<0.18	<0.26	*875 / 453	NP	12.26	0.00	100.48	88.22
07/16/01	71,700	9,440	12,600	514	8,980	*1,330 / 389	NP	13.80	0.00	100.48	86.68
10/17/01	13,500	1,950	425	<5.94	1,110	*829 / 329	NP	16.87	0.00	100.48	83.61
01/23/02	12,100	196	57	68	2,090	*688/738	NP	12.28	0.00	100.48	88.20
04/10/02	655	7.0	8.0	1.0	1.0	587	NP	13.80	0.00	100.48	86.68
07/24/02	17,400	<0.18	1.9	1.4	2.2	12,800	NP	15.33	0.00	100.48	85.15
10/30/02	17,300	400	47	748	131	12,300	NP	17.00	0.00	100.48	83.48
01/15/03	23,000	568	39	832	268	18,300	NP	16.84	0.00	100.48	83.64
04/16/03	15,800	411	15	26	14	18,200	NP	16.86	0.00	100.48	83.62

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	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
07/14/03	13,300	145	26	2.8 J	12	17,600	NP	10.69	0.00	100.48	89.79
10/08/03	12,500	64	<3.2	359	24 J	11,400	NP	16.32	0.00	100.48	84.16
01/15/04	12,300	11	4.4	66	4.0	*17,000 / 9,560	NP	14.67	0.00	100.48	85.81
04/14/04	7,340	<11	<16	<15.5	<20	13,500	NP	13.68	0.00	100.48	86.80
07/29/04	5,400	<2.2	<3.2	57	<4.0	6,730	NP	15.50	0.00	100.48	84.98
10/14/04	10,200	197	<3.2	233	13 J	3,940	NP	16.08	0.00	100.48	84.40
01/06/05	4,880	60	<3.2	74	<4.0	4,760	NP	15.24	0.00	100.48	85.24
04/13/05	2,780	57	35	20	251	3,650	NP	9.64	0.00	100.48	90.84
07/27/05	1,990	<0.32	<0.10	<0.24	<0.30	2,590	NP	16.79	0.00	100.48	83.69
10/12/05	25,700	177	<1.0	941	<3.0	4,810	NP	16.78	0.00	100.48	83.70
01/19/06	4,780	96	1.9 J	183	57	210	NP	10.46	0.00	100.48	90.02
04/12/06	1,860	<0.32	<0.10	<0.24	<0.30	192	NP	12.69	0.00	100.48	87.79
07/26/06	6,390	133	343	94	363	1,160	NP	15.18	0.00	100.48	85.30
10/25/06	12,100	51	162	<2.4	2,380	2,050	NP	14.88	0.00	100.48	85.60
01/24/07	21,600	2.9	256	205	1,710	123	NP	13.74	0.00	148.88	135.14
04/24/07	1,840	25	<0.24	80	14	754	NP	16.67	0.00	148.88	132.21
07/25/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	15.44	0.00	148.88	133.44
10/24/07	106	13	<0.24	1.4 J	<0.45	44	NP	15.17	0.00	148.88	133.71
01/23/08	1,520	41	100	18	152	428	NP	16.57	0.00	148.88	132.31
04/29/08	4,340	76	498	138	817	<1.9	NP	17.58	0.00	148.88	131.30
07/30/08	1,280	28	105	26	150	<0.19	NP	16.54	0.00	148.88	132.34
10/29/08	31,500	130	1,870	926	5,510	<19	NP	15.14	0.00	148.88	133.74
01/29/09	184,000	1,620	30,600	5,250	24,000	<4.75	NP	15.15	0.00	148.88	133.73
02/16/09	42,900	525	5,570	<5.25	7,560	<4.75	NP	11.38	0.00	148.88	137.50
05/06/09	2,660	8.7	184	76	452	3.4	NP	16.53	0.00	148.88	132.35
<b>MONITORING WELL #MW-5</b> Screen Interval = 7 to 27 feet											
11/21/86	<1,000	4.8	2.1	<0.5	7.4	-	NP	16.10	0.00	100.98	84.88
07/22/91	-	<0.5	1.6	<1.0	2.0	-	NP	18.20	0.00	100.98	82.78
10/24/91	-	-	-	-	-	-	NP	17.67	0.00	100.98	83.31
01/22/92	600	21.0	8.0	2.0	17.0	-	#N/A	-	-	-	-
03/24/92	-	-	-	-	-	-	NP	12.98	0.00	100.98	88.00
07/15/92	<200	<0.5	<0.5	<0.5	<0.5	-	NP	17.29	0.00	100.98	83.69
10/05/92	-	-	-	-	-	-	NP	18.92	0.00	100.98	82.06
01/06/93	300	2.7	<0.5	1.3	26.0	-	NP	13.12	0.00	100.98	87.86
07/13/93	<100	1.1	0.5	1.0	1.5	-	NP	16.15	0.00	100.98	84.83
10/11/93	130	1.2	<0.3	<0.3	<0.6	-	NP	18.75	0.00	100.98	82.23
01/11/94	<50	1.5	<0.3	<0.3	<0.5	-	NP	17.80	0.00	100.98	83.18
04/12/94	<50	<0.3	<0.3	<0.3	<0.5	-	NP	13.59	0.00	100.98	87.39
07/14/94	<50	0.42	<0.3	<0.3	<0.5	-	NP	18.26	0.00	100.98	82.72
07/15/95	100	1.2	<0.5	0.8	<1.0	-	#N/A	-	-	-	-
01/15/96	1,900	21	13	6.2	6.8	-	NP	13.09	0.00	100.98	87.89
04/15/96	250	5.1	2.7	1.7	1.1	-	NP	13.16	0.00	100.98	87.82
07/15/96	270	6.5	1.4	1.8	1.4	230	#N/A	-	-	-	-
10/09/96	-	-	-	-	-	-	NP	15.37	0.00	100.98	85.61
01/13/97	25,000	780	5,700	560	4,000	24,000	NP	10.90	0.00	100.98	90.08
04/14/97	6,300	260	1,600	28	550	9,000	#N/A	-	-	-	-
07/07/97	7,500	300	1,500	12	110	16,000	NP	14.70	0.00	100.98	86.28
10/16/97	4,600	<0.3	0.65	<0.3	<0.5	-	NP	13.60	0.00	100.98	87.38
01/07/98	2,700	33	11	37	580	7.3	NP	10.97	0.00	100.98	90.01
04/08/98	300	9.1	<0.3	<0.3	<0.5	650	NP	10.90	0.00	100.98	90.08

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #063, OAKLAND, CA**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
07/14/98	670	5.9	<0.3	<0.3	0.53	2,300	NP	15.20	0.00	100.98	85.78
10/15/98	<50	<0.3	<0.3	<0.3	<0.5	19	NP	15.90	0.00	100.98	85.08
01/20/99	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	15.20	0.00	101.98	86.78
04/16/99	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	15.25	0.00	101.98	86.73
07/14/99	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	15.96	0.00	101.98	86.02
10/07/99	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	16.33	0.00	101.98	85.65
01/26/00	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	14.80	0.00	101.98	87.18
04/19/00	965	<0.25	<0.25	<0.25	<0.5	<5.0	NP	10.97	0.00	101.98	91.01
05/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5.0	NP	14.43	0.00	101.98	87.55
07/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5.0	NP	14.02	0.00	101.98	87.96
10/25/00	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	14.04	0.00	101.98	87.94
01/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	14.80	0.00	101.98	87.18
04/23/01	<50	<0.18	<0.14	<0.18	<0.26	*10 / 4.2	NP	10.97	0.00	101.98	91.01
07/16/01	3,360	430	603	53	429	*41 / 4.2	NP	14.80	0.00	101.98	87.18
10/17/01	<50	<0.18	<0.14	<0.18	<0.26	*16 / 5.2	NP	16.71	0.00	101.98	85.27
01/23/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	14.80	0.00	101.98	87.18
04/10/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	14.42	0.00	101.98	87.56
07/24/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	14.78	0.00	101.98	87.20
10/30/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	15.93	0.00	101.98	86.05
01/15/03	<50	<0.14	<0.07	<0.08	<0.35	<2.0	NP	15.55	0.00	101.98	86.43
04/16/03	<15	<0.04	<0.02	<0.02	<0.06	<0.03	NP	15.55	0.00	101.98	86.43
07/14/03	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	15.93	0.00	101.98	86.05
10/08/03	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	16.35	0.00	101.98	85.63
01/15/04	<15	<0.04	<0.02	<0.02	<0.06	<0.03	NP	15.06	0.00	101.98	86.92
04/14/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	13.96	0.00	101.98	88.02
07/29/04	659	<2.2	<3.2	<3.1	<4.0	606	NP	15.60	0.00	101.98	86.38
10/14/04	411	<0.22	<0.32	<0.31	<0.4	425	NP	16.17	0.00	101.98	85.81
01/06/05	433	<0.22	<0.32	<0.31	<0.4	491	NP	15.52	0.00	101.98	86.46
04/13/05	161	<0.22	<0.32	<0.31	<0.4	465	NP	10.12	0.00	101.98	91.86
07/27/05	237	<0.32	<0.10	<0.24	<0.30	243	NP	16.66	0.00	101.98	85.32
10/12/05	149	<0.32	<0.10	<0.24	<0.30	183	NP	16.66	0.00	101.98	85.32
01/19/06	66	<0.32	<0.10	<0.24	<0.30	5.9	NP	9.96	0.00	101.98	92.02
04/12/06	<5.6	<0.32	<0.10	<0.24	<0.30	<0.63	NP	11.69	0.00	101.98	90.29
07/26/06	<5.6	<0.32	<0.10	<0.24	<0.30	<0.63	NP	15.53	0.00	101.98	86.45
10/25/06	<5.6	<0.32	<0.10	<0.24	<0.3	<0.63	NP	12.96	0.00	101.98	89.02
01/24/07	60	<0.32	16	3.8 J	17	<0.63	NP	14.37	0.00	149.62	135.25
04/24/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	14.12	0.00	149.62	135.50
07/25/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	17.06	0.00	149.62	132.56
10/24/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	16.50	0.00	149.62	133.12
01/23/08	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	14.16	0.00	149.62	135.46
04/29/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	14.89	0.00	149.62	134.73
07/30/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	15.96	0.00	149.62	133.66
10/29/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	16.47	0.00	149.62	133.15
01/29/09	<6.6	<0.18	1.9 J	<0.21	<0.45	<0.19	NP	16.47	0.00	149.62	133.15
05/06/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	14.09	0.00	149.62	135.53
<b>MONITORING WELL #MW-6</b>											
<b>Screen Interval = 7 to 27 feet</b>											
11/21/86	<1,000	<2.0	<2.0	<2.0	<2.0	-	NP	12.64	0.00	99.44	86.80
07/22/91	-	-	-	-	-	-	-	#N/A	-	-	-
01/22/92	<200	<0.5	<0.5	<0.5	1.5	-	-	#N/A	-	-	-
03/24/92	-	-	-	-	-	-	NP	10.04	0.00	99.44	89.40

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #063, OAKLAND, CA**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
07/15/92	<200	<0.5	<0.5	<0.5	<0.5	-	NP	13.29	0.00	99.44	86.15
10/05/92	-	-	-	-	-	-	NP	14.69	0.00	99.44	84.75
01/06/93	<200	<0.5	<0.5	<0.5	<1.0	-	NP	10.87	0.00	99.44	88.57
07/13/93	<100	<0.5	<0.5	<0.5	<1.0	-	NP	13.10	0.00	99.44	86.34
10/11/93	<60	<0.3	<0.3	<0.3	<0.6	-	NP	14.43	0.00	99.44	85.01
01/11/94	<50	<0.3	<0.3	<0.3	<0.5	-	NP	13.56	0.00	99.44	85.88
04/12/94	<50	<0.3	<0.3	<0.3	<0.3	-	NP	12.10	0.00	99.44	87.34
07/14/94	<50	<0.3	<0.3	<0.3	<0.3	-	NP	14.16	0.00	99.44	85.28
07/15/95	140	<0.5	<0.5	<0.5	<1	-	NP	#N/A	-	-	-
01/15/96	56	0.38	0.33	<0.3	<0.5	-	NP	14.29	0.00	99.44	85.15
04/15/96	96	4.5	<0.3	<0.3	0.53	-	NP	14.32	0.00	99.44	85.12
07/15/96	140	2.4	0.44	<0.3	0.70	110	NP	#N/A	-	-	-
10/09/96	-	-	-	-	-	-	NP	12.09	0.00	99.44	87.35
01/13/97	210	<0.3	1.2	<0.3	0.68	270	NP	9.85	0.00	99.44	89.59
04/14/97	<50	<0.3	<0.3	<0.3	<0.5	<20	NP	#N/A	-	-	-
07/07/97	<50	<0.3	<0.3	<0.3	<0.5	<20	NP	14.20	0.00	99.44	85.24
10/16/97	<50	<0.3	<0.3	<0.3	<0.5	-	NP	13.10	0.00	99.44	86.34
01/07/98	<50	<0.3	<0.3	<0.3	<0.5	0.10	NP	9.80	0.00	99.44	89.64
07/14/98	330	<0.3	<0.3	<0.3	<0.5	380	NP	12.30	0.00	99.44	87.14
10/15/98	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	14.30	0.00	99.44	85.14
01/20/99	<50	0.47	<0.3	<0.3	<0.5	<5.0	NP	13.60	0.00	100.44	86.84
04/16/99	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	13.50	0.00	100.44	86.94
07/14/99	<50	<0.3	<0.3	<0.3	<0.5	*5.4 / <5.0	NP	14.65	0.00	100.44	85.79
10/07/99	<50	<0.3	0.96	0.35	1.8	<5.0	NP	15.39	0.00	100.44	85.05
01/26/00	<50	<0.3	<0.3	<0.3	0.63	<5.0	NP	13.85	0.00	100.44	86.59
04/19/00	83.1	<0.25	<0.25	<0.25	<0.5	*11 / <5.0	NP	9.65	0.00	100.44	90.79
05/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5.0	NP	13.10	0.00	100.44	87.34
07/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5.0	NP	12.35	0.00	100.44	88.09
10/25/00	<50	<0.18	<0.14	<0.18	<0.26	*7 / 10	NP	12.30	0.00	100.44	88.14
01/10/01	<50	<0.18	<0.14	<0.18	<0.26	78	NP	13.45	0.00	100.44	86.99
04/23/01	<50	<0.18	<0.14	<0.18	<0.26	*9 / 4	NP	9.65	0.00	100.44	90.79
07/16/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	13.09	0.00	100.44	87.35
10/17/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	15.37	0.00	100.44	85.07
01/23/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	13.27	0.00	100.44	87.17
04/10/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	13.07	0.00	100.44	87.37
07/24/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	13.86	0.00	100.44	86.58
10/30/02	<50	1.6	<0.14	<0.18	<0.26	6.4	NP	14.20	0.00	100.44	86.24
01/15/03	<50	<0.14	<0.07	<0.08	0.84	<2.0	NP	15.35	0.00	100.44	85.09
04/16/03	<15	<0.04	<0.02	<0.02	<0.06	<0.03	NP	14.58	0.00	100.44	85.86
07/14/03	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	15.35	0.00	100.44	85.09
10/08/03	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	13.80	0.00	100.44	86.64
01/15/04	<15	<0.04	<0.02	<0.02	<0.06	<0.03	NP	13.51	0.00	100.44	86.93
04/14/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	11.62	0.00	100.44	88.82
07/29/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	13.12	0.00	100.44	87.32
10/14/04	346	<0.22	<0.32	<0.31	<0.4	159	NP	13.53	0.00	100.44	86.91
01/06/05	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	13.02	0.00	100.44	87.42
04/13/05	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	9.32	0.00	100.44	91.12
07/27/05	<2.9	<0.32	<0.10	<0.24	<0.30	<0.63	NP	13.17	0.00	100.44	87.27
10/12/05	<2.9	<0.32	<0.10	<0.24	<0.30	<0.63	NP	14.55	0.00	100.44	85.89
01/19/06	72	<0.32	<0.10	<0.24	<0.30	12	NP	8.74	0.00	100.44	91.70
04/12/06	<5.6	<0.32	<0.10	<0.24	<0.30	<0.63	NP	9.96	0.00	100.44	90.48
07/26/06	55	<0.32	<0.10	<0.24	<0.30	57	NP	12.56	0.00	100.44	87.88
10/25/06	<5.6	<0.32	<0.10	<0.24	<0.3	<0.63	NP	13.00	0.00	100.44	87.44



**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #063, OAKLAND, CA**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
01/24/07	<5.6	<0.32	2.2 J	1.1 J	5.6	<0.63	NP	11.87	0.00	148.38	136.51
04/24/07	<5.6	<0.18	<0.24	<0.21	1.5 J	5.7	NP	10.63	0.00	148.38	137.75
07/25/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	13.04	0.00	148.38	135.34
10/24/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	12.53	0.00	148.38	135.85
01/23/08	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	10.70	0.00	148.38	137.68
04/29/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	11.43	0.00	148.38	136.95
07/30/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	13.36	0.00	148.38	135.02
10/29/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	12.51	0.00	148.38	135.87
01/29/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	12.50	0.00	148.38	135.88
05/06/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	10.63	0.00	148.38	137.75
<b>MONITORING WELL #MW-7</b> Screen Interval = 8 to 18 feet											
03/05/07	3,110	.16	<0.10	125	725	10	NP	10.84	0.00	148.20	137.36
04/24/07	15,500	42	<2.4	381	1,230	<1.9	NP	15.03	0.00	148.20	133.17
07/25/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	15.03	0.00	148.20	133.17
10/24/07	1,100	72	<0.24	18	1.6 J	221	NP	14.54	0.00	148.20	133.66
01/23/08	149	<0.18	14	4.4 J	25	<0.19	NP	15.00	0.00	148.20	133.20
04/29/08	978	<0.18	4.2 J	25	165	<0.19	NP	13.14	0.00	148.20	135.06
07/30/08	181	<0.18	<0.24	<0.21	22	<0.19	NP	15.13	0.00	148.20	133.07
10/29/08	13,200	108	987	400	2,550	<0.19	NP	14.52	0.00	148.20	133.68
01/29/09	11,100	176	1,360	374	2,380	<1.9	NP	14.51	0.00	148.20	133.69
05/06/09	15,400	241	1,110	342	1,660	<1.9	NP	12.33	0.00	148.20	135.87
<b>MONITORING WELL #MW-8</b> Screen Interval = 8 to 18 feet											
03/05/07	<5.6	<0.32	<0.10	<0.24	<0.3	22	NP	11.90	0.00	147.31	135.41
04/24/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	12.37	0.00	147.31	134.94
07/25/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	13.42	0.00	147.31	133.89
10/24/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	12.93	0.00	147.31	134.38
01/23/08	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	12.40	0.00	147.31	134.91
04/29/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	15.73	0.00	147.31	131.58
07/30/08	<6.6	<0.18	1.3 J	<0.21	1.1 J	<0.19	NP	13.50	0.00	147.31	133.81
10/29/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	12.92	0.00	147.31	134.39
01/29/09	<6.6	<0.18	4.8 J	<0.21	1.7 J	<0.19	NP	12.89	0.00	147.31	134.42
05/06/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	14.93	0.00	147.31	132.38

**NOTE:** Monitoring wells MW-1 through MW-8 were surveyed on 3/5/2007

^ Top of casing elevation estimated to be 6 inches below well rim

NP = No free hydrocarbon product

\* - \* = Not analyzed / Not available

\* MTBE 8020 / 8260

Benzene, toluene, ethylbenzene, and xylene analyzed by EPA method 8020/8021B.

Total petroleum hydrocarbons (TPH) analyzed by EPA method 8015 modified for gasoline

Methyl-tert Butyl Ether (MTBE) analyzed by EPA method 8020/8021B

On 10/8/03 & 7/14/2003, BTEX and MTBE analyzed by 8260B

Beginning 4/14/2004, BTEX and MTBE analyzed by 8260B

**TABLE 2  
OXYGENATE DATA IN GROUNDWATER  
THRIFTY OIL STATION # 063, OAKLAND, CA.**

DATE SAMPLED	OXYGENATES					
	Di-Isopropyl Ether (DIPE) (ug/L)	Ethyl-Tert-Butyl Ether (ETBE) (ug/L)	Tert-Amyl Methyl Ether (TAME) (ug/L)	Tert-Butyl Alcohol (TBA) (ug/L)	Ethaanol (ETH) (mg/L)	Methanol (METH) (mg/L)
<b>MONITORING WELL # MW-1</b>						
10/16/97	<20	<20	<20	3,900		
01/07/98	<20	<20	92	<500		
04/03/98	<20	<20	65	<500		
07/14/03	<0.29	<0.17	<0.28	<10		
10/08/03	<0.29	<0.17	15	487		
01/15/04	-	-	-	-		
04/14/04	-	-	-	-		
07/29/04	-	-	-	-		
10/14/04	-	-	-	-		
07/27/05	<0.29	<0.17	<0.28	<10	<20	<20
10/12/05	<0.29	<0.17	<0.28	<10	<20	<20
01/19/06	<0.29	<0.17	<0.28	27	<20	<20
04/12/06	<0.29	<0.17	<0.28	<10	<20	<20
07/26/06	<2.9	<1.7	<2.8	121	-	-
10/25/06	<0.29	<0.17	2.4	11	-	-
01/24/07	<0.29	<0.17	<0.28	<10	-	-
04/24/07	<0.20	<0.23	<0.19	54	-	-
07/25/07	<0.20	<0.23	<0.19	<10	-	-
10/24/07	<0.20	<0.23	<0.19	<10	-	-
01/23/08	<0.20	<0.23	<0.19	<10	-	-
04/29/08	<0.20	<0.23	<0.19	<10	-	-
07/30/08	<0.20	<0.23	<0.19	<5.2	-	-
10/29/08	<0.20	<0.23	<0.19	<5.2	-	-
01/29/09	<0.20	<0.23	<0.19	<5.2	-	-
05/06/09	<0.20	<0.23	<0.19	<5.2	-	-
<b>MONITORING WELL # MW-2</b>						
10/16/97	<20	<20	<20	<500		
Well Abandoned 1/30/98						
<b>MONITORING WELL # MW-3 (GROUNDWATER SYSTEM'S PUMPING WELL)</b>						
10/16/97	-	-	-	-		
01/07/98	-	-	-	-		
04/03/98	-	-	-	-		
07/14/03	<0.29	<0.17	24	608		
10/08/03	<0.29	<0.17	30	<10		
01/15/04	-	-	-	-		
04/14/04	-	-	-	-		
07/29/04	-	-	-	-		
10/14/04	-	-	-	-		
07/27/05	<0.29	<0.17	<0.28	24	<20	<20
10/12/05	<0.29	<0.17	<0.28	<10	<20	<20
01/19/06	<0.29	<0.17	3.9	167	<20	<20
04/12/06	<0.29	<0.17	2.5	17	<20	<20
07/26/06	<0.29	<0.17	3.2	205	-	-
10/25/06	<2.9	<1.7	<2.8	<100	-	-
01/24/07	<0.29	<0.17	<0.28	70	-	-
04/24/07	<2.0	<2.3	<1.9	<18	-	-
07/25/07	<0.20	<0.23	<0.19	<10	-	-
10/24/07	<0.20	<0.23	<0.19	1790	-	-
01/23/08	<0.20	<0.23	<0.19	38	-	-
04/29/08	<0.20	<0.23	<0.19	<10	-	-
07/30/08	<0.20	<0.23	<0.19	<5.2	-	-
10/29/08	<0.20	<0.23	<0.19	81	-	-
01/29/09	<2.0	<2.3	<1.9	<52	-	-
05/06/09	<0.20	<0.23	<0.19	<5.2	-	-

**TABLE 2  
OXYGENATE DATA IN GROUNDWATER  
THRIFTY OIL STATION # 063, OAKLAND, CA.**

DATE SAMPLED	OXYGENATES					
	Di-isopropyl Ether (DIPE) (ug/L)	Ethyl-Tert-Butyl Ether (ETBE) (ug/L)	Tert-Amyl Methyl Ether (TAME) (ug/L)	Tert-Butyl Alcohol (TBA) (ug/L)	Ethanol (ETH) (mg/L)	Methanol (METH) (mg/L)
<b>MONITORING WELL # MW-4</b>						
10/16/97	<20	<20	<20	14,000		
01/07/98	<20	<20	230	<500		
04/03/98	<200	<200	<200	<5,000		
07/14/03	<0.29	<0.17	62	2,490		
10/08/03	<2.9	<1.7	101	<100		
01/15/04	-	-	-	-		
04/14/04	-	-	-	-		
07/29/04	-	-	-	-		
10/14/04	-	-	-	-		
07/27/05	<0.29	<0.17	<0.28	<10	<20	<20
10/12/05	<2.9	<1.7	<2.8	1,340	<20	<20
01/19/06	<0.29	<0.17	<0.28	138	<20	<20
04/12/06	<0.29	<0.17	<0.28	163	<20	<20
07/26/06	<2.9	<1.7	16	836	-	-
10/25/06	<2.9	<1.7	18	1060	-	-
01/24/07	<0.29	<0.17	<0.28	139	-	-
04/24/07	<0.20	<0.23	11	776	-	-
07/25/07	<0.20	<0.23	<0.19	<10	-	-
10/24/07	<0.20	<0.23	<0.19	62	-	-
01/23/08	<0.20	<0.23	7.3	1,520	-	-
04/29/08	<2.0	<2.3	<1.9	<100	-	-
07/30/08	<0.20	<0.23	<0.19	20	-	-
10/29/08	<20	<23	<19	<520	-	-
01/29/09	<5.0	<5.75	<4.75	<130	-	-
02/16/09	<5.0	<5.75	<4.75	<130	-	-
05/06/09	<0.20	<0.23	<0.19	<5.2	-	-
<b>MONITORING WELL # MW-5</b>						
10/16/97	<20	<20	<20	4,700		
01/07/98	<20	<20	<20	<500		
04/03/98	<20	<20	<20	<500		
07/14/03	<0.29	<0.17	<0.28	<10		
10/08/03	<0.29	<0.17	<0.28	<10		
01/15/04	-	-	-	-		
04/14/04	-	-	-	-		
07/29/04	-	-	-	-		
10/14/04	-	-	-	-		
07/27/05	<0.29	<0.17	<0.28	<10	<20	<20
10/12/05	<0.29	<0.17	<0.28	<10	<20	<20
01/19/06	<0.29	<0.17	<0.28	<10	<20	<20
04/12/06	<0.29	<0.17	<0.28	<10	<20	<20
07/26/06	<0.29	<0.17	<0.28	<10	-	-
10/25/06	<0.29	<0.17	<0.28	<10	-	-
01/24/07	<0.29	<0.17	<0.28	<10	-	-
04/24/07	<0.20	<0.23	<0.19	<1.8	-	-
07/25/07	<0.20	<0.23	<0.19	<10	-	-
10/24/07	<0.20	<0.23	<0.19	<10	-	-
01/23/08	<0.20	<0.23	<0.19	<10	-	-
04/29/08	<0.20	<0.23	<0.19	<10	-	-
07/30/08	<0.20	<0.23	<0.19	<5.2	-	-
10/29/08	<0.20	<0.23	<0.19	<5.2	-	-
01/29/09	<0.20	<0.23	<0.19	<5.2	-	-
05/06/09	<0.20	<0.23	<0.19	<5.2	-	-
<b>MONITORING WELL # MW-6</b>						
10/16/97	<20	<20	<20	<500		
01/07/98	<20	<20	40	<500		
04/03/98	-	-	-	-		
07/14/03	<0.29	<0.17	<0.28	<10		
10/08/03	<0.29	<0.17	<0.28	<10		

**TABLE 2  
OXYGENATE DATA IN GROUNDWATER  
THRIFTY OIL STATION # 063, OAKLAND, CA.**

DATE SAMPLED	OXYGENATES					
	DI-isopropyl Ether (DIPE) (ug/L)	Ethyl-Tert-Butyl Ether (ETBE) (ug/L)	Tert-Amyl Methyl Ether (TAME) (ug/L)	Tert-Butyl Alcohol (TBA) (ug/L)	Ethaanol (ETH) (mg/L)	Methanol (METH) (mg/L)
01/15/04	-	-	-	-	-	-
04/14/04	-	-	-	-	-	-
07/29/04	-	-	-	-	-	-
10/14/04	-	-	-	-	-	-
07/27/05	<0.29	<0.17	<0.28	<10	<20	<20
10/12/05	<0.29	<0.17	<0.28	<10	<20	<20
01/19/06	<0.29	<0.17	2.7	<10	<20	<20
04/12/06	<0.29	<0.17	<0.28	<10	<20	<20
07/26/06	<0.29	<0.17	47	<10	-	-
10/25/06	<0.29	<0.17	<0.28	<10	-	-
01/24/07	<0.29	<0.17	<0.28	<10	-	-
04/24/07	<0.20	<0.23	2.4	<1.8	-	-
07/25/07	<0.20	<0.23	<0.19	<10	-	-
10/24/07	<0.20	<0.23	<0.19	<10	-	-
01/23/08	<0.20	<0.23	<0.19	<10	-	-
04/29/08	<0.20	<0.23	<0.19	<10	-	-
07/30/08	<0.20	<0.23	<0.19	<5.2	-	-
10/29/08	<0.20	<0.23	<0.19	<5.2	-	-
01/29/09	<0.20	<0.23	<0.19	<5.2	-	-
05/06/09	<0.20	<0.23	<0.19	<5.2	-	-
<b>MONITORING WELL # MW-7</b>						
03/05/07	<0.29	<0.17	<0.28	<10	<20	<20
04/24/07	<2.0	<2.3	<1.9	<18	-	-
07/25/07	<0.20	<0.23	<0.19	<10	-	-
10/24/07	<0.20	<0.23	<0.19	1120	-	-
01/23/08	<0.20	<0.23	<0.19	<10	-	-
04/29/08	<0.20	<0.23	<0.19	<10	-	-
07/30/08	<0.20	<0.23	<0.19	<5.2	-	-
10/29/08	<0.20	<0.23	<0.19	<5.2	-	-
01/29/09	<2.0	<2.3	<1.9	<52	-	-
05/06/09	<2.0	<2.3	<1.9	<52.0	-	-
<b>MONITORING WELL # MW-8</b>						
03/05/07	<0.29	<0.17	<0.28	<10	<20	<20
04/24/07	<0.20	<0.23	<0.19	<1.8	-	-
10/24/07	<0.20	<0.23	<0.19	<10	-	-
07/25/07	<0.20	<0.23	<0.19	<10	-	-
01/23/08	<0.20	<0.23	<0.19	<10	-	-
04/29/08	<0.20	<0.23	<0.19	<10	-	-
07/30/08	<0.20	<0.23	<0.19	<5.2	-	-
10/29/08	<0.20	<0.23	<0.19	<5.2	-	-
01/29/09	<0.20	<0.23	<0.19	<5.2	-	-
05/06/09	<0.20	<0.23	<0.19	<5.2	-	-

NOTE: DIPE, ETBE, TAME, TBA analyzed by EPA Method 8260/8260B

**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 063, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT						INLET / INFLUENT					
				TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L
4/8/1991	1,669	0	-	-	<0.3	<0.3	<0.3	<0.9	-	-	1300	120	<7.5	1300	-
4/15/1991	5,742	4,073	582	-	<0.3	<0.3	<0.3	<0.3	-	-	700	140	<15	500	-
4/22/1991	10,240	8,571	643	-	<0.3	<0.3	<0.3	<0.9	-	-	850	100	34	860	-
4/29/1991	15,510	13,841	753	-	<0.3	<0.3	<0.3	<0.9	-	-	220	8.4	<0.3	42	-
5/6/1991	20,200	18,531	670	-	<0.3	<0.3	<0.3	<0.9	-	-	280	0.8	<0.3	56	-
5/13/1991	24,430	22,761	604	-	<0.3	<0.3	<0.3	<0.9	-	-	190	5.6	<0.3	37	-
5/20/1991	28,480	26,811	579	-	<0.3	<0.3	<0.3	<0.9	-	-	150	0.83	1.4	29	-
5/28/1991	29,310	27,641	104	-	<0.3	<0.3	<0.3	<0.9	-	-	<0.3	<0.3	<0.3	<0.9	-
6/3/1991	33,080	31,411	628	-	<0.3	<0.3	<0.3	<0.9	-	-	58	4	<0.3	33	-
6/10/1991	36,939	35,270	551	-	<0.3	<0.3	<0.3	<0.9	-	-	45	<0.3	<0.3	16	-
6/17/1991	40,673	39,004	533	-	<0.3	<0.3	<0.3	<0.9	-	-	69	4.9	0.9	21	-
6/24/1991	44,453	42,784	540	-	<0.3	<0.3	<0.3	<0.9	-	-	5.4	2	<0.3	6.6	-
7/1/1991	48,173	46,504	531	-	<0.5	<0.5	<1	<1	-	-	14	15	<1	9.1	-
7/8/1991	51,681	50,012	501	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	6.9	-
7/15/1991	55,186	53,517	501	-	<0.5	<0.5	<1	<1	-	-	<0.5	0.6	<1	6.3	-
7/22/1991	62,150	60,481	995	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	2.6	-
7/29/1991	62,150	60,481	-	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	1.2	19	-
8/5/1991	63,241	61,572	156	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	<1	-
8/12/1991	66,091	64,422	407	-	<0.5	<0.5	<1	<1	-	-	2.6	<0.5	<1	12	-
8/19/1991	67,649	65,980	223	-	<0.5	<0.5	<1	<1	-	-	20	3.3	2.8	70	-
8/26/1991	70,514	68,845	409	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	1.2	19	-
9/9/1991	70,564	68,895	4	-	<0.5	<0.5	<1	<1	-	-	270	10	13	69	-
9/16/1991	73,526	71,857	423	System shut down due to damaged compressor pump						-	-	-	-	-	-
10/7/1991	73,526	71,857	-	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	3.8	-
10/14/1991	74,516	72,847	141	-	<0.5	<0.5	<1	<1	-	-	60	1.1	<1	23	-
10/21/1991	76,091	74,422	225	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	<1	-
10/28/1991	83,242	81,573	1,022	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	14	-
11/3/1991	83,242	81,573	-	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	3.1	-
11/11/1991	84,351	82,682	139	-	<0.5	<0.5	<1	<1	-	-	99	1.9	<1	14	-
11/18/1991	85,647	83,978	185	-	<0.5	<0.5	<1	<1	-	-	42	1	1	10	-
11/25/1991	89,512	87,843	552	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	3.9	-
12/3/1991	93,407	91,738	487	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	3.8	-
12/9/1991	96,210	94,541	467	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	3.2	-
12/16/1991	99,045	97,376	405	-	<0.5	<0.5	<0.5	<0.5	-	-	1.3	<0.5	<0.5	1.5	-
12/23/1991	102,334	100,665	470	-	<0.5	<0.5	<0.5	<0.5	-	-	1.7	<0.5	<0.5	2.4	-
12/30/1991	105,124	103,455	399	-	<0.5	<0.5	<0.5	<0.5	-	-	22.6	1.2	0.7	4.9	-
1/15/1992	115,691	114,022	660	-	<0.5	<0.5	<0.5	<0.5	-	-	130	11	<0.5	50	-
2/10/1992	124,846	123,177	352	-	<0.5	<0.5	<0.5	<0.5	-	-	20	0.51	<0.5	3.6	-
3/9/1992	149,965	148,296	897	<200	<0.5	<0.5	<0.5	<0.5	-	12,000	2,100	400	170	2,100	-
4/13/1992	168,567	166,898	531	<200	<0.5	<0.5	<0.5	<0.5	-	2,100	280	3.9	<2.5	98	-
5/11/1992	187,170	185,501	664	<200	<0.5	0.7	<0.5	<0.5	-	<200	<0.5	<0.5	<0.5	<0.5	-
6/8/1992	190,490	188,821	119	-	<0.5	<0.5	<0.5	<0.5	-	-	44	3.7	0.7	64	-
7/6/1992	197,080	195,411	235	-	-	-	-	-	-	-	-	-	-	-	-
7/13/1992	197,890	196,221	116	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-
7/13/1992	197,890	196,221	-	System shut down for repair of electrical motor						-	-	-	-	-	-
8/10/1992	197,890	196,221	-	Restart the system						-	-	-	-	-	-
8/17/1992	201,300	199,631	487	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-
9/14/1992	209,647	207,978	298	-	<0.5	<0.5	<0.5	<1	-	-	<0.5	<0.5	<0.5	<1	-
10/5/1992	217,360	215,691	367	<200	<0.5	<0.5	<0.5	<1	-	<200	<0.5	<0.5	<0.5	<1	-
11/09/92	225,780	224,111	241	-	<0.5	<0.5	<0.5	<1	-	-	1.1	0.5	<0.5	10	-
12/14/92	243,048	241,379	493	-	<0.5	<0.5	<0.5	<1	-	-	720	46	<10	1,700	-
01/04/93	252,510	250,841	451	-	<0.5	<0.5	<0.5	<1	-	-	400	32	<25	520	-

**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 063, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT						INLET / INFLUENT					
				TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L
02/15/93	266,210	264,541	326	<200	<0.5	<0.5	<0.5	<1	-	9,000	1,400	330	260	1,200	-
03/08/93	269,330	267,661	149	-	<0.5	<0.5	<0.5	<1	-	-	1,100	150	7.5	1,000	-
04/26/93	271,290	269,621	40	<100	<0.5	<0.5	<0.5	<1	-	7,200	1,100	100	25	780	-
04/26/93	271,290	269,621	-	System shut down fo repair											
07/15/93	272,577	270,908	16	Restart the system											
08/11/93	284,230	282,561	432	-	<0.5	<0.5	<0.5	<1	-	-	1.3	<0.5	<0.5	1.6	-
09/16/93	298,832	297,163	406	<60	<0.3	<0.3	<0.3	<0.6	-	<60	<0.3	<0.3	<0.3	<0.6	-
10/08/93	305,641	303,972	310	-	-	-	-	-	-	-	-	-	-	-	-
10/11/93	307,068	305,399	476	<60	<0.3	<0.3	<0.3	<0.6	-	<60	<0.3	<0.3	<0.3	<0.6	-
10/15/93	308,495	306,826	357	-	-	-	-	-	-	-	-	-	-	-	-
11/12/93	318,203	316,534	347	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
12/10/93	329,947	328,278	419	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
01/13/94	345,860	344,191	468	-	<0.3	<0.3	<0.3	<0.5	-	-	<0.3	<0.3	<0.3	<0.5	-
02/10/94	359,662	357,993	493	-	<0.3	<0.3	<0.3	<0.5	-	-	430	41	36	480	-
02/18/94	618,620	357,993	-	Changed air filters. The water flowmeter jumped from 359,662 to 618,620.											
03/10/94	627,540	366,913	446	-	<0.3	<0.3	<0.3	<0.5	-	-	<0.3	<0.3	<0.3	7.7	-
04/14/94	645,330	384,703	508	<50	<0.3	<0.3	<0.3	<0.5	-	170	1.5	<0.3	0.38	0.73	-
05/19/94	653,520	392,893	234	<50	<0.3	<0.3	<0.3	<0.5	-	1,500	46	4.1	0.5	84	-
06/16/94	664,015	403,388	375	<50	<0.3	<0.3	<0.3	<0.5	-	12,000	860	37	<13	1,600	-
07/14/94	672,750	412,123	312	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
08/11/94	681,920	421,293	328	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
09/15/94	692,083	431,456	290	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
10/17/94	699,979	439,352	247	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
11/14/94	712,539	451,912	449	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
12/19/94	734,620	473,993	631	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
01/10/95	742,072	481,445	339	-	-	-	-	-	-	-	<0.3	<0.3	<0.3	<0.5	-
01/16/95	742,074	481,447	0	System shut down for repair of compressor pump											
02/06/95	742,074	481,447	-	Restart the system											
02/13/95	744,063	483,436	284	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
03/13/95	758,930	498,303	531	<100	<0.5	<0.5	<0.5	<1	-	1,300	<0.5	<0.5	<0.5	<1	-
04/17/95	768,276	507,649	267	<100	<0.5	<0.5	<0.5	<1	-	6,200	410	73	97	280	-
05/15/95	780,716	520,089	444	<100	<0.5	<0.5	<0.5	<1	-	1,300	0.6	<0.5	<0.5	<1	-
06/12/95	784,514	523,887	136	<100	<0.5	<0.5	<0.5	<1	-	<100	<0.5	<0.5	<0.5	<1	-
07/18/95	794,158	533,531	268	<100	<0.5	<0.5	<0.5	<1	-	1,100	<0.5	<0.5	<0.5	<1	-
08/14/95	795,216	534,589	39	<100	<0.5	<0.5	<0.5	<1	-	170	<0.5	<0.5	<0.5	<1	-
09/06/95	797,631	537,004	105	<100	<0.5	<0.5	<0.5	<1	-	1,320	<0.5	<0.5	<0.5	<1	-
10/17/95	800,316	539,689	65	<100	<0.5	<0.5	<0.5	<1	-	2,400	26	2.7	3.9	46	-
11/20/95	806,264	545,637	175	150	<0.3	<0.3	<0.3	<0.5	-	450	0.31	<0.3	<0.3	<0.5	-
12/11/95	809,236	548,609	142	300	<0.3	<0.3	<0.3	0.59	-	470	<0.3	<0.3	<0.3	<0.5	-
01/15/96	822,734	562,107	386	510	<0.3	<0.3	<0.3	<0.5	-	900	0.39	<0.3	<0.3	<0.5	-
02/19/96	848,213	587,586	728	800	<0.3	0.57	<0.3	0.83	-	1700	23	3.7	<0.3	80	-
03/19/96	849,587	588,960	47	930	<0.3	<0.3	<0.3	<0.5	-	1,600	5.5	1.4	<0.3	94	-
04/15/96	852,042	591,415	91	990	<0.3	<0.3	<0.3	<0.5	-	1,100	0.43	<0.3	<0.3	<0.5	-
05/13/96	890,214	629,587	1,363	840	<0.3	<0.3	<0.3	<0.5	-	910	<0.3	<0.3	<0.3	<0.5	-
05/13/96	890,214	629,587	-	System shut down for carbon change											
06/14/96	890,214	629,587	-	Restart the system											
06/18/96	890,818	630,191	151	<50	<0.3	<0.3	<0.3	<0.5	-	1,000	92	8.7	3.4	55	-
07/01/96	892,781	632,154	151	-	-	-	-	-	-	-	-	-	-	-	-
07/08/96	894,210	633,583	204	System shut down due to burglary and damaged air compressor											
08/05/96	894,210	633,583	-	Restart the system											
08/13/96	896,220	635,593	251	<50	<0.3	<0.3	<0.3	<0.5	-	3,500	160	110	220	650	-
09/23/96	899,410	638,783	78	<50	<0.3	<0.3	<0.3	<0.5	-	<50	0.49	<0.3	<0.3	<0.5	-
10/09/96	899,845	639,218	27	<50	<0.3	<0.3	<0.3	<0.5	-	730	1.7	0.42	2.1	2.5	-

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 Thrifty Oil Co. Station No 063, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT						INLET / INFLUENT						
				TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	
11/11/96	901,348	640,721	46	<50	<0.3	<0.3	<0.3	<0.5	-	81	<0.3	<0.3	<0.3	<0.5	-	
12/09/96	901,576	640,949	8	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-	
01/13/97	904,630	644,003	87	<50	<0.3	<0.3	<0.3	<0.5	-	13,000	590	250	180	850	-	
02/10/97	912,610	651,983	285	82	<0.3	0.38	<0.3	<0.5	-	700	0.92	0.75	<0.3	4.1	-	
03/10/97	921,020	660,393	300	<50	<0.3	<0.3	<0.3	<0.5	-	600	<0.3	<0.3	<0.3	<0.5	-	
04/14/97	932,410	671,783	325	<50	<0.3	<0.3	<0.3	<0.5	-	4,400	<0.3	<0.3	<0.3	<0.5	-	
05/12/97	941,028	680,401	308	<50	<0.3	<0.3	<0.3	<0.5	-	5,600	7.3	0.32	<0.3	17	-	
06/23/97	943,183	682,556	51	-	-	-	-	-	-	-	-	-	-	-	-	
07/07/97	945,821	685,194	188	<50	<0.3	<0.3	<0.3	<0.5	-	1,500	3.4	<0.3	<0.3	26	-	
08/04/97	951,020	690,393	186	-	-	-	-	-	-	-	-	-	-	-	-	
09/02/97	957,933	697,306	238	System shut down due to stolen air compressor						-	-	-	-	-	-	-
10/06/97	961,030	700,403	91	-	-	-	-	-	-	-	-	-	-	-	-	
10/16/97	961,077	700,450	5	<50	<0.3	<0.3	<0.3	<0.5	-	550	<0.3	<0.3	<0.3	<0.5	-	
11/17/97	970,920	710,293	308	-	-	-	-	-	-	-	-	-	-	-	-	
12/23/97	986,016	725,389	419	-	-	-	-	-	-	-	-	-	-	-	-	
01/05/98	991,520	730,893	423	-	-	-	-	-	-	-	-	-	-	-	-	
01/07/98	992,365	731,738	423	<50	<0.3	<0.3	<0.3	<0.5	-	65,000	690	8,400	3,100	20,000	-	
02/02/98	996,874	736,247	173	-	-	-	-	-	-	-	-	-	-	-	-	
02/09/98		736,247	-	System shut down due to the UST replacement and station remodeling						-	-	-	-	-	-	-
02/17/98		736,247	-	<50	<0.3	<0.3	<0.3	<0.5	-	35,000	150	<15	<15	8,900	-	
04/13/98	53,000	736,247	-	Replaced carbons and restarted system with new meter (53,000)						-	-	-	-	-	-	-
4/13 - 6/1/98	-	736,247	-	System was undergoing several maintenance / piping / hose replacement						-	-	-	-	-	-	-
06/01/98	53,780	737,027	16	-	-	-	-	-	-	-	-	-	-	-	-	
07/14/98	56,905	740,152	73	<50	<0.3	<0.3	<0.3	<0.5	-	3,500	14	0.56	<0.3	26	-	
08/13/98	59,426	742,673	84	-	-	-	-	-	-	-	-	-	-	-	-	
09/11/98	62,356	745,603	101	-	-	-	-	-	-	-	-	-	-	-	-	
10/15/98	62,714	745,961	11	<50	<0.3	<0.3	<0.3	<0.5	-	2,200	21	4	<0.3	100	-	
11/06/98	62,952	746,199	11	-	-	-	-	-	-	-	-	-	-	-	-	
11/20/98	-	746,199	-	System shut down for flowmeter replacement						-	-	-	-	-	-	-
12/01/98	0.0	746,199	-	Restart the system with flowmeter at 000						-	-	-	-	-	-	-
12/31/98	5,340.0	751,539	178	-	-	-	-	-	-	-	-	-	-	-	-	
01/11/99	15,020.0	761,219	880	System shut down						-	-	-	-	-	-	-
1/11 - 2/1/99	-	761,219	-	System was undergoing maintenance for the compressor						-	-	-	-	-	-	-
01/20/99	-	761,219	-	<50	<0.3	<0.3	<0.3	<0.5	-	110	0.43	0.42	<0.3	<0.5	260	
02/01/99	15,600.0	761,799	28	Restart system						-	-	-	-	-	-	-
02/12/99	22,840.0	769,039	658	-	-	-	-	-	-	-	-	-	-	-	-	
02/22/99	22,840.0	769,039	-	System shut down for carbon canister replacement						-	-	-	-	-	-	-
03/26/99	22,840.0	769,039	-	Restart the system						-	-	-	-	-	-	-
03/31/99	24,620.0	770,819	356	-	-	-	-	-	-	-	-	-	-	-	-	
04/16/99	29,605.0	775,804	312	<50	<0.3	<0.3	<0.3	<0.5	<5	<50	<0.3	<0.3	<0.3	<0.5	<5	
05/11/99	36,010.0	782,209	256	-	-	-	-	-	-	-	-	-	-	-	-	
05/25/99	46,000.0	792,199	714	System shut down due to carbon canister leaking						-	-	-	-	-	-	-
09/02/99	46,000.0	792,199	-	Restart system						-	-	-	-	-	-	-
09/17/99	46,217.0	792,416	14	-	-	-	-	-	-	-	-	-	-	-	-	
10/07/99	46,809.0	793,008	30	<50	<0.3	<0.3	<0.3	<0.5	11	65	<0.3	<0.3	<0.3	<0.5	120	
10/21/99	47,278.0	793,477	34	System shut down for carbon change						-	-	-	-	-	-	-
11/24/99	47,283.0	793,482	0	Restart system						-	-	-	-	-	-	-
12/30/99	49,386.0	795,585	58	-	-	-	-	-	-	-	-	-	-	-	-	
01/26/00	50,569.0	796,768	44	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-	
02/25/00	51,983.0	798,182	47	-	-	-	-	-	-	-	-	-	-	-	-	
03/24/00	54,603.0	800,802	94	-	-	-	-	-	-	-	-	-	-	-	-	
04/19/00	56,754.0	802,953	83	<5	<0.25	<0.25	<0.25	<0.5	-	<50	1.3	<0.25	<0.25	<0.5	<5	
04/30/00	58,022.0	804,221	115	-	-	-	-	-	-	-	-	-	-	-	-	

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Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT						INLET / INFLUENT					
				TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L
05/26/00	60,086.0	806,285	79	-	-	-	-	-	-	923	<0.6	2	85	80	*8,350/4,810
06/16/00	61,889.0	808,088	86	<50	<0.3	<0.3	<0.3	<0.6	<5	3,820	<0.3	<0.3	<0.3	<0.6	3,740
07/26/00	65,987.0	812,186	102	<50	<0.3	<0.3	<0.3	<0.6	<5	<50	<0.3	<0.3	<0.3	<0.6	<5
08/25/00	68,630.0	814,829	88	-	-	-	-	-	-	-	-	-	-	-	-
09/29/00	85,661.0	831,860	487	-	-	-	-	-	-	-	-	-	-	-	-
10/13/00	96,212.0	842,411	754	-	-	-	-	-	-	-	-	-	-	-	-
10/20/00	99,700.0	845,899	498	Shut down system for QWS and replaced flowmeter starting at 000 (old meter estimated at 99,700). Sytem restarted on 10/25/00 after QWS											
10/25/00	0.0	845,899	-	<50	<0.18	<0.14	<0.18	<0.26	<0.24	17,100	111	121	141	972	998
10/27/00	2,160	848,059	1,080	-	-	-	-	-	-	-	-	-	-	-	-
11/03/00	7,420	853,319	751	-	-	-	-	-	-	-	-	-	-	-	-
11/24/00	16,560	862,459	435	-	-	-	-	-	-	-	-	-	-	-	-
12/22/00	51,530	897,429	1,249	-	-	-	-	-	-	-	-	-	-	-	-
01/10/01	54,520	900,419	157	<50	<0.18	<0.14	<0.18	<0.26	<0.24	10,000	384	223	<0.18	1,330	11,600
02/19/01	99,640	945,539	1,128	-	-	-	-	-	-	-	-	-	-	-	-
03/19/01	144,170	990,069	1,590	-	-	-	-	-	-	-	-	-	-	-	-
04/09/01	167,050	1,012,949	1,090	378	<0.18	<0.14	<0.18	<0.26	475	4,040	191	4	42	38	4,990
04/13/01	169,210	1,015,109	540	Shut down system for replacement of carbon drums											
04/18/01	169,210	1,015,109	-	Restart system											
04/23/01	177,140	1,023,039	1,586	93	<0.18	<0.14	<0.18	<0.26	132	1,400	<0.18	<0.14	<0.18	<0.26	3,240
05/02/01	186,800	1,032,699	1,073	Shut down system for carbon change											
05/18/01	186,900	1,032,799	6	Restart system											
05/30/01	200,850	1,046,749	1,163	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3,100	15	<0.14	1	2	*8,510 / 5,780
06/25/01	266,720	1,112,619	2,533	-	-	-	-	-	-	-	-	-	-	-	-
07/09/01	278,760	1,124,659	860	<50	<0.18	<0.14	<0.18	<0.26	<0.24	748	15	<0.14	2	2.7	1,440
08/13/01	399,700	1,245,599	3,455	-	-	-	-	-	-	-	-	-	-	-	-
09/24/01	451,240	1,297,139	1,227	-	-	-	-	-	-	-	-	-	-	-	-
10/01/01	488,310	1,334,209	5,296	<50	<0.18	<0.14	<0.18	<0.26	<0.24	956	1.2	<0.14	<0.18	<0.26	878
11/12/01	636,260	1,482,159	3,523	-	-	-	-	-	-	-	-	-	-	-	-
12/31/01	674,080	1,519,979	772	-	-	-	-	-	-	-	-	-	-	-	-
01/14/02	688,450	1,534,349	1,026	<50	<0.18	<0.14	<0.18	<0.26	<0.24	232	1	1	<0.18	<0.26	363
02/18/02	738,420	1,584,319	1,428	-	-	-	-	-	-	-	-	-	-	-	-
03/25/02	814,570	1,660,469	2,176	-	-	-	-	-	-	-	-	-	-	-	-
04/08/02	828,510	1,674,409	996	<50	<0.18	<0.14	<0.18	<0.26	<0.24	105	<0.18	<0.14	<0.18	<0.26	157
04/22/02	895,910	1,741,809	4,814	-	-	-	-	-	-	-	-	-	-	-	-
05/06/02	895,920	1,741,819	1	System off; Restart											
05/13/02	929,130	1,775,029	4,744	-	-	-	-	-	-	-	-	-	-	-	-
06/03/02	-	1,839,639	-	-	<0.5	<0.7	<0.8	<3.3	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)					
06/03/02	993,740	1,839,639	3,077	<50	<0.18	<0.14	<0.18	<0.26	<0.24	Split-sample results (sample collected by us)					
06/24/02	1,001,590	1,847,489	374	-	-	-	-	-	-	-	-	-	-	-	-
07/08/02	-	1,847,489	-	<50	<0.18	<0.14	<0.18	<0.26	<0.24	4,710	1	1.2	<0.18	2	6,980
07/12/02	1,051,430	1,897,329	2,769	-	-	-	-	-	-	-	-	-	-	-	-
07/29/02	1,052,820	1,898,719	82	System shut down for carbon change											
08/16/02	1,052,820	1,898,719	-	Restart											
08/30/02	1,069,050	1,914,949	1,159	-	-	-	-	-	-	-	-	-	-	-	-
09/20/02	-	1,952,309	-	-	<0.5	<0.7	<0.8	<3.3	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)					
09/20/02	1,106,410	1,952,309	1,779	<50	<0.1	<0.15	<0.06	-	-	Split-sample results (sample collected by us, analysis by EPA 624 & 8015M)					
09/30/02	1,110,180	1,956,079	377	-	-	-	-	-	-	-	-	-	-	-	-
10/07/02	1,114,720	1,960,619	649	<50	<0.18	<0.14	<0.18	<0.26	<0.24	128	<0.18	<0.14	<0.18	<0.26	95
10/28/02	1,127,540	1,973,439	610	-	-	-	-	-	-	-	-	-	-	-	-
11/25/02	1,149,730	1,995,629	793	-	-	-	-	-	-	-	-	-	-	-	-
12/20/02	1,166,840	2,012,739	684	-	-	-	-	-	-	-	-	-	-	-	-
12/30/02	1,173,420	2,019,319	658	-	-	-	-	-	-	-	-	-	-	-	-
01/06/03	1,182,610	2,028,509	1,313	<50	<0.14	1.2	<0.08	2.4	<2.0	9,860	<1.4	29	14	2,420	205



**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 063, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT						INLET / INFLUENT					
				TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L
01/13/03	1,189,320	2,035,219	959	Shut down for QWS											
01/15/03	1,189,320	2,035,219	-	Restart											
02/24/03	1,223,450	2,069,349	853	-	-	-	-	-	-	-	-	-	-	-	-
03/10/03	1,238,640	2,084,539	1,085	-	-	-	-	-	-	-	-	-	-	-	-
03/17/03	1,257,710	2,103,609	2,724	System off											
03/28/03	1,257,710	2,103,609	-	Restart											
03/31/03	1,266,150	2,112,049	2,813	-	-	-	-	-	-	-	-	-	-	-	-
04/02/03	1,272,100	2,117,999	2,975	-	-	-	-	-	-	-	-	-	-	-	-
04/07/03	1,286,160	2,132,059	2,812	<15	<0.04	2.2	<0.02	<0.06	<0.03	14,000	20	20	2.2	14	9,090
04/14/03	1,294,060	2,139,959	1,129	System shut down for QWS											
04/16/03	1,294,080	2,139,979	10	Restart											
04/21/03	1,299,660	2,145,559	1,116	-	-	-	-	-	-	-	-	-	-	-	-
04/28/03	1,302,140	2,148,039	354	-	-	-	-	-	-	-	-	-	-	-	-
05/05/03	1,302,710	2,148,609	81	System shut down for carbon change											
05/07/03	1,302,710	2,148,609	-	Restart											
05/12/03	1,303,230	2,149,129	104	-	-	-	-	-	-	-	-	-	-	-	-
05/19/03	1,318,460	2,164,359	2,176	-	-	-	-	-	-	-	-	-	-	-	-
05/30/03	1,321,830	2,167,729	306	-	-	-	-	-	-	-	-	-	-	-	-
06/02/03	1,327,490	2,173,389	1,887	-	-	-	-	-	-	-	-	-	-	-	-
06/09/03	1,336,370	2,182,269	1,269	-	-	-	-	-	-	-	-	-	-	-	-
06/16/03	1,347,480	2,193,379	1,587	-	-	-	-	-	-	-	-	-	-	-	-
06/23/03	1,359,690	2,205,589	1,744	-	-	-	-	-	-	-	-	-	-	-	-
07/01/03	1,366,090	2,211,989	800	-	-	-	-	-	-	-	-	-	-	-	-
07/07/03	1,369,730	2,215,629	607	System shut down for QWS											
07/15/03	1,369,730	2,215,629	-	Restart											
07/21/03	1,382,630	2,228,529	2,150	<15	<0.04	1.0	<0.02	<0.06	<0.03	7,710	<0.04	<0.02	<0.02	<0.06	3,550
07/28/03	1,389,840	2,235,739	1,030	-	-	-	-	-	-	-	-	-	-	-	-
08/04/03	1,408,710	2,254,609	2,696	-	-	-	-	-	-	-	-	-	-	-	-
08/15/03	1,411,520	2,257,419	255	System shut down for carbon change											
08/29/03	1,411,560	2,257,459	3	Restart											
09/03/03	1,419,210	2,265,109	1,530	-	-	-	-	-	-	-	-	-	-	-	-
09/12/03	1,423,520	2,269,419	479	-	-	-	-	-	-	-	-	-	-	-	-
09/15/03	1,427,810	2,273,709	1,430	-	-	-	-	-	-	-	-	-	-	-	-
09/22/03	1,429,700	2,275,599	270	System shut down for installation of new 24-hour timer											
09/26/03	1,429,700	2,275,599	-	Restart											
09/29/03	1,430,560	2,276,459	287	-	-	-	-	-	-	-	-	-	-	-	-
10/06/03	1,431,140	2,277,039	83	System shut down for QWS											
10/08/03	1,431,140	2,277,039	-	Restart											
10/10/03	-	-	-	-	< 0.50	< 0.70	< 0.80	< 3.30	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)					
10/10/03	1,432,290	2,278,189	575	<15	<0.04	<0.02	<0.02	<0.06	<0.03	16,200	<0.04	4.4	4.8	46	8,700
10/17/03	1,433,790	2,279,689	214	-	-	-	-	-	-	-	-	-	-	-	-
10/22/03	-	-	-	-	< 0.50	< 0.70	< 0.80	< 3.30	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)					
10/22/03	1,434,590	2,280,489	160	<15	<0.04	<0.02	<0.02	<0.06	<0.03	Split-sample results (sample collected by us)					
10/27/03	1,435,610	2,281,509	204	-	-	-	-	-	-	-	-	-	-	-	-
11/03/03	1,438,740	2,284,639	447	-	-	-	-	-	-	-	-	-	-	-	-
11/14/03	1,443,620	2,289,519	444	-	-	-	-	-	-	-	-	-	-	-	-
11/21/03	1,447,510	2,293,409	556	-	-	-	-	-	-	-	-	-	-	-	-
12/05/03	1,452,410	2,298,309	350	-	-	-	-	-	-	-	-	-	-	-	-
12/09/03	1,458,320	2,304,219	1,478	-	-	-	-	-	-	-	-	-	-	-	-
12/17/03	1,462,410	2,308,309	511	-	-	-	-	-	-	-	-	-	-	-	-
12/26/03	1,468,630	2,314,529	691	-	-	-	-	-	-	-	-	-	-	-	-
12/31/03	1,469,710	2,315,609	216	-	-	-	-	-	-	-	-	-	-	-	-
01/06/04	1,472,000	2,317,899	382	<15	<0.04	<0.02	<0.02	<0.06	<0.03	7,900	658	1,560	62	1,090	2,170

**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 063, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT						INLET / INFLUENT					
				TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L
01/14/04	1,474,650	2,320,549	331	System shut down for QWS; Restarted 1/15/04						-	-	-	-	-	-
01/28/04	-	-	-	-	< 0.50	< 0.70	< 0.80	< 3.30	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)					
01/28/04	1,485,790	2,331,689	857	<15	<0.04	<0.02	<0.02	<0.06	<0.03	Split-sample results (sample collected by us)					
02/04/04	1,492,340	2,338,239	936	-	-	-	-	-	-	-	-	-	-	-	
02/10/04	1,494,550	2,340,449	368	-	-	-	-	-	-	-	-	-	-	-	
02/20/04	1,498,790	2,344,689	424	-	-	-	-	-	-	-	-	-	-	-	
02/25/04	1,499,360	2,345,259	114	-	-	-	-	-	-	-	-	-	-	-	
03/03/04	1,514,700	2,360,599	2,191	-	-	-	-	-	-	-	-	-	-	-	
03/09/04	1,517,300	2,363,199	433	-	-	-	-	-	-	-	-	-	-	-	
03/17/04	1,519,100	2,364,999	225	-	-	-	-	-	-	-	-	-	-	-	
03/24/04	1,524,600	2,370,499	786	-	-	-	-	-	-	-	-	-	-	-	
04/01/04	1,529,300	2,375,199	588	-	-	-	-	-	-	-	-	-	-	-	
04/07/04	1,531,200	2,377,099	317	<15	<0.22	<0.32	<0.31	<0.4	<0.18	1,380	113	93	16	76	191
04/14/04	1,533,000	2,378,899	257	System shut down for QWS on 4/7; Restarted 4/14						-	-	-	-	-	-
04/22/04	1,576,400	2,422,299	5,425	-	-	-	-	-	-	-	-	-	-	-	
04/28/04	1,623,500	2,469,399	7,850	-	-	-	-	-	-	-	-	-	-	-	
05/06/04	1,668,920	2,514,819	5,678	-	-	-	-	-	-	-	-	-	-	-	
05/13/04	1,691,100	2,536,999	3,169	-	-	-	-	-	-	-	-	-	-	-	
05/20/04	1,726,500	2,572,399	5,057	-	-	-	-	-	-	-	-	-	-	-	
05/28/04	1,748,910	2,594,809	2,801	-	-	-	-	-	-	-	-	-	-	-	
06/04/04	1,749,320	2,595,219	59	Found system off; for replacement of on and off switch						-	-	-	-	-	
06/11/04	1,749,320	2,595,219	-	Restarted						-	-	-	-	-	
06/16/04	1,751,910	2,597,809	518	-	-	-	-	-	-	-	-	-	-	-	
06/22/04	1,753,550	2,599,449	273	-	-	-	-	-	-	-	-	-	-	-	
07/02/04	1,756,530	2,602,429	298	-	-	-	-	-	-	-	-	-	-	-	
07/08/04	1,759,110	2,605,009	430	<15	<0.22	<0.32	<0.31	<0.4	<0.18	652	31	<0.32	<0.31	2.1J	383
07/15/04	1,759,260	2,605,159	21	-	-	-	-	-	-	-	-	-	-	-	
07/22/04	1,760,630	2,606,529	196	-	-	-	-	-	-	-	-	-	-	-	
07/28/04	1,762,810	2,608,709	363	Shut down system for carbon change						-	-	-	-	-	
08/05/04	1,762,810	2,608,709	-	Restarted						-	-	-	-	-	
08/12/04	1,765,370	2,611,269	366	-	-	-	-	-	-	-	-	-	-	-	
08/20/04	1,767,950	2,613,849	323	-	-	-	-	-	-	-	-	-	-	-	
08/27/04	1,771,100	2,616,999	450	-	-	-	-	-	-	-	-	-	-	-	
09/03/04	1,773,750	2,619,649	379	-	-	-	-	-	-	-	-	-	-	-	
09/07/04	1,777,590	2,623,489	960	-	-	-	-	-	-	-	-	-	-	-	
09/10/04	1,778,460	2,624,359	290	Shut down system due to operator vacation						-	-	-	-	-	
09/29/04	1,778,460	2,624,359	-	Restarted						-	-	-	-	-	
10/06/04	1,779,260	2,625,159	114	<15	<0.22	<0.32	<0.31	<0.4	<0.18	<15	<0.22	<0.32	<0.31	<0.4	20
10/12/04	1,782,540	2,628,439	547	Shut down system for QWS						-	-	-	-	-	
10/21/04	1,782,680	2,628,579	16	Restarted						-	-	-	-	-	
10/27/04	1,784,630	2,630,529	325	-	-	-	-	-	-	-	-	-	-	-	
11/03/04	1,784,680	2,630,579	7	-	-	-	-	-	-	-	-	-	-	-	
11/11/04	1,787,490	2,633,389	351	-	-	-	-	-	-	-	-	-	-	-	
11/19/04	1,789,350	2,635,249	233	-	-	-	-	-	-	-	-	-	-	-	
12/01/04	1,789,800	2,635,699	38	-	-	-	-	-	-	-	-	-	-	-	
12/10/04	1,792,780	2,638,679	331	-	-	-	-	-	-	-	-	-	-	-	
12/15/04	1,795,460	2,641,359	536	-	-	-	-	-	-	-	-	-	-	-	
12/22/04	1,798,000	2,643,899	363	-	-	-	-	-	-	-	-	-	-	-	
12/29/04	1,800,580	2,646,479	369	-	-	-	-	-	-	-	-	-	-	-	
01/05/05	1,803,140	2,649,039	366	<15	<0.22	<0.32	<0.31	<0.4	<0.18	291	9.1	<0.32	1.2 J	<0.4	72
01/13/05	1,803,290	2,649,189	19	System turned off for QWS on 1/5/05; Restarted on 1/13/05						-	-	-	-	-	
01/20/05	1,804,020	2,649,919	104	Shut down system for repair and upgrade						-	-	-	-	-	
04/30/05	1,804,020	2,649,919	-	System still off pending repairs and upgrade						-	-	-	-	-	

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**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 063, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT						INLET / INFLUENT					
				TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L
05/10/05	1,804,020	2,649,919	-	Restarted system with MW-3 only						-	-	-	-	-	-
05/20/05	1,805,010	2,650,909	99	Added MW-4 to the system						-	-	-	-	-	-
05/26/05	1,807,630	2,653,529	437	-	-	-	-	-	-	-	-	-	-	-	
06/03/05	1,812,100	2,657,999	559	-	-	-	-	-	-	-	-	-	-	-	
06/10/05	1,816,540	2,662,439	634	-	-	-	-	-	-	-	-	-	-	-	
06/17/05	1,819,870	2,665,769	476	Compressor needs repair						-	-	-	-	-	
06/24/05	1,823,140	2,669,039	467	Replace with new pump MW-3						-	-	-	-	-	
06/29/05	1,827,540	2,673,439	880	-	-	-	-	-	-	-	-	-	-	-	
07/08/05	1,829,830	2,675,729	254	-	-	-	-	-	-	-	-	-	-	-	
07/14/05	1,829,970	2,675,869	23	<2.9	<0.17	<0.22	<0.14	<0.38	-	4,270	130	3.6 J	348	188	2,790
07/22/05	1,832,760	2,678,659	349	-	-	-	-	-	-	-	-	-	-	-	
07/26/05	1,833,920	2,679,819	290	Shut down system for QWS						-	-	-	-	-	
08/05/05	1,833,970	2,679,869	5	Restart system after QWS						-	-	-	-	-	
08/09/05	1,836,930	2,682,829	740	-	-	-	-	-	-	-	-	-	-	-	
08/19/05	1,837,560	2,683,459	63	-	<0.10	<0.15	<0.06	<0.40	-	Split-sample results during EBMUD inspection & sampling					
08/25/05	1,837,920	2,683,819	60	Shut down system for carbon change						-	-	-	-	-	
09/01/05	1,837,980	2,683,879	9	Restarted						-	-	-	-	-	
09/09/05	1,838,530	2,684,429	69	-	-	-	-	-	-	-	-	-	-	-	
09/16/05	1,841,230	2,687,129	386	-	-	-	-	-	-	-	-	-	-	-	
09/23/05	1,843,410	2,689,309	311	-	-	-	-	-	-	-	-	-	-	-	
09/30/05	1,844,820	2,690,719	201	-	-	-	-	-	-	-	-	-	-	-	
10/06/05	1,845,250	2,691,149	72	<2.9	<0.10	<0.15	<0.06	<0.40	-	2,410	<3.2	<1.0	28 J	<3.0	1,990
10/11/05	1,846,030	2,691,929	156	System turned off for QWS on 10/11/05; Restarted on 10/14/05						-	-	-	-	-	
10/14/05	-	-	-	-	<0.05	<0.07	<0.08	<0.33	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)					
10/14/05	1,846,590	2,692,489	187	-	<0.10	<0.15	<0.06	<0.40	-	Split-sample results during EBMUD inspection & sampling					
10/21/05	1,847,810	2,693,709	174	-	-	-	-	-	-	-	-	-	-	-	
11/02/05	1,849,720	2,695,619	159	-	-	-	-	-	-	-	-	-	-	-	
11/08/05	-	-	-	-	<0.05	0.62	<0.08	<0.33	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)					
11/10/05	1,850,760	2,696,659	130	-	-	-	-	-	-	-	-	-	-	-	
11/17/05	1,851,420	2,697,319	94	-	-	-	-	-	-	-	-	-	-	-	
11/23/05	1,854,560	2,700,459	523	-	-	-	-	-	-	-	-	-	-	-	
11/30/05	1,856,650	2,702,549	299	-	-	-	-	-	-	-	-	-	-	-	
12/09/05	1,858,340	2,704,239	188	-	-	-	-	-	-	-	-	-	-	-	
12/15/05	1,859,780	2,705,679	240	-	-	-	-	-	-	-	-	-	-	-	
12/22/05	1,860,420	2,706,319	91	-	-	-	-	-	-	-	-	-	-	-	
12/30/05	1,862,470	2,708,369	256	-	-	-	-	-	-	-	-	-	-	-	
01/06/06	1,866,760	2,712,659	613	-	-	-	-	-	-	-	-	-	-	-	
01/11/06	1,867,740	2,713,639	196	698	<0.32	<0.10	<0.24	<0.30	-	6,120	210	<0.10	419	130	649
01/18/06	1,870,240	2,716,139	357	Shut down system for QWS and carbon change						-	-	-	-	-	
01/27/06	1,870,280	2,716,179	4	Restarted after QWS and carbon change						-	-	-	-	-	
02/01/06	-	-	-	-	<0.70	<0.67	<0.65	<2.0	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)					
02/01/06	1,870,530	2,716,429	50	-	<0.17	<0.22	<0.14	<0.38	-	Split-sample results during EBMUD inspection & sampling					
02/10/06	1,877,370	2,723,269	760	-	-	-	-	-	-	-	-	-	-	-	
02/17/06	1,879,230	2,725,129	266	-	-	-	-	-	-	-	-	-	-	-	
02/24/06	1,880,710	2,726,609	211	-	-	-	-	-	-	-	-	-	-	-	
03/01/06	1,882,270	2,728,169	312	-	-	-	-	-	-	-	-	-	-	-	
03/10/06	1,889,370	2,735,269	789	-	-	-	-	-	-	-	-	-	-	-	
03/17/06	1,889,660	2,735,559	41	-	-	-	-	-	-	-	-	-	-	-	
03/21/06	1,890,930	2,736,829	318	-	-	-	-	-	-	-	-	-	-	-	
03/29/06	1,891,880	2,737,779	119	-	-	-	-	-	-	-	-	-	-	-	
04/05/06	1,893,340	2,739,239	209	<5.6	<0.32	<0.10	<0.24	<0.30	-	1,520	72	<0.10	199	28	129
04/11/06	1,895,480	2,741,379	357	-	-	-	-	-	-	-	-	-	-	-	
04/11/06	-	2,741,379	-	Shut down system for QWS						-	-	-	-	-	

**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 063, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT						INLET / INFLUENT					
				TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L
04/14/06	1,895,490	2,741,389	3	Restart sytem after QWS						-	-	-	-	-	-
04/21/06	1,897,130	2,743,029	234	-	-	-	-	-	-	-	-	-	-	-	
04/26/06	1,898,330	2,744,229	240	-	-	-	-	-	-	-	-	-	-	-	
05/03/06	1,900,240	2,746,139	273	-	-	-	-	-	-	-	-	-	-	-	
05/12/06	1,903,700	2,749,599	384	-	-	-	-	-	-	-	-	-	-	-	
05/19/06	1,905,570	2,751,469	267	-	-	-	-	-	-	-	-	-	-	-	
05/23/06	1,907,810	2,753,709	560	<5.6	<0.32	<0.10	<0.24	<0.30	-	683,000	3,600	135,000	25,100	165,000	
05/26/06	1,909,780	2,755,679	657	-	-	-	-	-	-	-	-	-	-	-	
06/02/06	1,911,010	2,756,909	176	-	-	-	-	-	-	-	-	-	-	-	
06/09/06	1,912,670	2,758,569	237	-	-	-	-	-	-	77,300	668	19,300	1,660	8,800	
06/16/06	1,914,330	2,760,229	237	-	-	-	-	-	-	-	-	-	-	-	
06/23/06	1,917,210	2,763,109	411	-	-	-	-	-	-	-	-	-	-	-	
06/27/06	1,919,740	2,765,639	633	-	-	-	-	-	-	-	-	-	-	-	
07/06/06	1,921,470	2,767,369	192	3,730	44	874	26	503	16	4,450	8.6 J	99	34 J	149	
07/14/06	1,921,980	2,767,879	64	-	-	-	-	-	-	-	-	-	-	-	
07/18/06	1,922,070	2,767,969	23	Shut down system for carbon change						-	-	-	-	-	
08/04/06	1,922,090	2,767,989	1	System restarted after carbon change						-	-	-	-	-	
08/04/06	1,922,090	2,767,989	1	<5.6	<0.32	<0.10	<0.24	<0.30	-	763	<0.32	<0.10	<0.24	<0.30	1040
08/18/06	1,928,690	2,774,589	471	-	-	-	-	-	-	-	-	-	-	-	
08/25/06	1,929,580	2,775,479	127	-	-	-	-	-	-	-	-	-	-	-	
09/01/06	1,932,440	2,778,339	409	-	-	-	-	-	-	-	-	-	-	-	
09/08/06	1,936,240	2,782,139	543	-	-	-	-	-	-	-	-	-	-	-	
09/14/06	1,938,420	2,784,319	363	-	-	-	-	-	-	-	-	-	-	-	
09/20/06	1,939,710	2,785,609	215	-	-	-	-	-	-	-	-	-	-	-	
10/04/06	1,942,100	2,787,999	171	<5.6	<0.32	<0.10	<0.24	1.1 J	-	14,400	78	1,110	440	1,440	
10/13/06	1,945,320	2,791,219	358	-	-	-	-	-	-	-	-	-	-	-	
10/19/06	1,947,230	2,793,129	318	-	-	-	-	-	-	-	-	-	-	-	
10/24/06	1,948,670	2,794,569	288	Shut down system for QWS						-	-	-	-	-	
10/27/06	1,948,670	2,794,569	-	Restart sytem after QWS						-	-	-	-	-	
11/01/06	1,949,120	2,795,019	90	-	-	-	-	-	-	-	-	-	-	-	
11/09/06	1,951,030	2,796,929	239	-	-	-	-	-	-	-	-	-	-	-	
11/16/06	1,951,817	2,797,716	112	-	-	-	-	-	-	-	-	-	-	-	
11/22/06	1,952,010	2,797,909	32	-	-	-	-	-	-	-	-	-	-	-	
11/30/06	1,956,730	2,802,629	590	Shut down system for maintenance						-	-	-	-	-	
12/01/06	1,956,730	2,802,629	-	Restarted system						-	-	-	-	-	
12/07/06	1,958,510	2,804,409	297	-	-	-	-	-	-	-	-	-	-	-	
12/12/06	1,959,720	2,805,619	242	Shut down system due to operator vacation						-	-	-	-	-	
01/03/07	1,959,230	2,805,129	(22)	Restarted system						-	-	-	-	-	
01/05/07	1,959,670	2,805,569	220	-	-	-	-	-	-	-	-	-	-	-	
01/11/07	1,961,280	2,807,179	268	-	-	-	-	-	-	-	-	-	-	-	
01/18/07	1,963,200	2,809,099	274	System shut down for QWS						-	-	-	-	-	
01/24/07	1,963,200	2,809,099	-	<5.6	<0.17	<0.22	<0.14	<0.38	-	8,920	<1.6	115	91	612	
01/25/07	1,963,860	2,809,759	660	-	-	-	-	-	-	-	-	-	-	-	
02/02/07	1,967,120	2,813,019	408	-	-	-	-	-	-	-	-	-	-	-	
02/06/07	1,969,320	2,815,219	550	-	-	-	-	-	-	-	-	-	-	-	
02/16/07	1,971,040	2,816,939	172	-	-	-	-	-	-	-	-	-	-	-	
02/19/07	1,971,760	2,817,659	240	-	-	-	-	-	-	-	-	-	-	-	
02/28/07	1,978,320	2,824,219	729	-	-	-	-	-	-	-	-	-	-	-	
03/16/07	1,983,620	2,829,519	331	-	-	-	-	-	-	-	-	-	-	-	
03/23/07	1,985,120	2,831,019	214	-	-	-	-	-	-	-	-	-	-	-	
03/30/07	1,987,330	2,833,229	316	-	-	-	-	-	-	-	-	-	-	-	
04/05/07	1,989,120	2,835,019	298	-	-	-	-	-	-	-	-	-	-	-	
04/12/07	1,991,300	2,837,199	311	<5.6	<0.17	<0.22	<0.14	<0.38	-	6,640	43	916	296	1,810	

**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 063, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT						INLET / INFLUENT					
				TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L
04/20/07	1,992,720	2,838,619	178	Shut down system for QWS											
04/27/07	1,992,730	2,838,629	1	Restart sytem after QWS											
05/03/07	1,994,500	2,840,399	295	-	-	-	-	-	-	-	-	-	-	-	-
05/10/07	2,002,410	2,848,309	1,130	-	-	-	-	-	-	-	-	-	-	-	-
05/17/07	2,004,320	2,850,219	273	-	-	-	-	-	-	-	-	-	-	-	-
05/25/07	2,004,810	2,850,709	61	-	-	-	-	-	-	-	-	-	-	-	-
06/01/07	2,005,210	2,851,109	57	-	-	-	-	-	-	-	-	-	-	-	-
06/14/07	2,006,540	2,852,439	102	-	-	-	-	-	-	-	-	-	-	-	-
06/19/07	2,008,320	2,854,219	356	-	-	-	-	-	-	-	-	-	-	-	-
06/21/07	2,008,740	2,854,639	210	-	-	-	-	-	-	15,800	186	1,890	410	2,060	97
06/29/07	2,016,480	2,862,379	968	-	-	-	-	-	-	-	-	-	-	-	-
07/06/07	2,014,260	2,864,599	317	-	-	-	-	-	-	-	-	-	-	-	-
07/13/07	2,013,420	2,865,439	120	-	-	-	-	-	-	-	-	-	-	-	-
07/20/07	2,015,230	2,867,249	259	-	-	-	-	-	-	-	-	-	-	-	-
07/24/07	2,015,620	2,867,639	98	Shut down system for QWS											
07/27/07	2,015,670	2,867,689	17	Restart sytem after QWS											
08/03/07	2,016,310	2,868,329	91	-	-	-	-	-	-	-	-	-	-	-	-
08/10/07	2,017,430	2,869,449	160	-	-	-	-	-	-	-	-	-	-	-	-
08/17/07	2,017,960	2,869,979	76	<5.6	<0.15	<0.12	<0.09	<0.26	-	-	-	-	-	-	-
08/24/07	2,018,100	2,870,119	20	-	-	-	-	-	-	-	-	-	-	-	-
08/31/07	2,018,210	2,870,229	16	-	-	-	-	-	-	-	-	-	-	-	-
09/07/07	2,018,630	2,870,649	60	Shut down system for repairs											
09/14/07	2,019,810	2,871,829	169	Restart system											
09/21/07	2,027,200	2,879,219	1,056	-	-	-	-	-	-	-	-	-	-	-	-
09/28/07	2,031,500	2,883,519	614	-	-	-	-	-	-	-	-	-	-	-	-
10/05/07	2,038,620	2,890,639	1,017	-	-	-	-	-	-	-	-	-	-	-	-
10/12/07	2,042,100	2,894,119	497	-	-	-	-	-	-	-	-	-	-	-	-
10/19/07	2,049,120	2,901,139	1,003	-	-	-	-	-	-	-	-	-	-	-	-
10/23/07	2,051,240	2,903,259	530	Shut down system for QWS											
10/26/07	2,053,410	2,905,429	723	Restart sytem after QWS											
11/06/07	2,064,180	2,916,199	979	<5.6	<0.15	<0.12	<0.09	<0.26	-	Split-sample results during EBMUD inspection & sampling					
11/20/07	2,075,400	2,927,419	801	<5.6	<0.15	<0.12	<0.09	<0.26	-	2,240	84	<0.24	46	5.7	194
11/30/07	2,082,110	2,934,129	671	-	-	-	-	-	-	-	-	-	-	-	-
12/14/07	2,086,930	2,938,949	344	-	-	-	-	-	-	3,980	102	869	229	1400	100
12/21/07	2,091,340	2,943,359	630	-	-	-	-	-	-	-	-	-	-	-	-
12/28/07	2,094,210	2,946,229	410	-	-	-	-	-	-	-	-	-	-	-	-
01/04/08	2,097,490	2,949,509	469	-	-	-	-	-	-	-	-	-	-	-	-
01/11/08	2,106,370	2,958,389	1,269	Shut down system for QWS											
01/15/08	-	-	-	<5.6	<0.15	<0.12	<0.09	<0.26	-	804	54	3.2 J	45	11	128
01/25/08	2,109,820	2,961,839	246	Restart sytem after QWS											
02/01/08	2,119,680	2,971,699	1,409	-	-	-	-	-	-	-	-	-	-	-	-
02/08/08	2,129,200	2,981,219	1,360	-	-	-	-	-	-	97,800	183	16,900	3,510	20,400	<1.9
02/15/08	2,138,190	2,990,209	1,284	-	-	-	-	-	-	-	-	-	-	-	-
02/22/08	2,139,640	2,991,659	207	-	-	-	-	-	-	-	-	-	-	-	-
02/29/08	2,143,260	2,995,279	517	-	-	-	-	-	-	-	-	-	-	-	-
03/05/08	2,148,020	3,000,039	952	-	-	-	-	-	-	-	-	-	-	-	-
03/14/08	2,163,950	3,015,969	1,770	-	-	-	-	-	-	6,160	36	1,070	18	1,290	27
03/26/08	2,164,230	3,016,249	23	-	-	-	-	-	-	-	-	-	-	-	-
03/27/08	2,165,320	3,017,339	1,090	-	-	-	-	-	-	-	-	-	-	-	-
04/23/08	2,165,360	3,017,379	1	<6.6	<0.15	<0.12	<0.09	<0.26	-	-	-	-	-	-	-
05/02/08	2,174,340	3,026,359	998	-	-	-	-	-	-	-	-	-	-	-	-
05/09/08	2,196,620	3,048,639	3,183	-	-	-	-	-	-	-	-	-	-	-	-
05/16/08	2,196,620	3,048,639	-	-	-	-	-	-	-	-	-	-	-	-	-

**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 063, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT						INLET / INFLUENT					
				TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L
05/23/08	2,196,620	3,048,639	-	-	-	-	-	-	-	-	-	-	-	-	-
06/05/08	2,196,620	3,048,639	-	-	-	-	-	-	-	-	-	-	-	-	-
06/10/08	2,198,960	3,050,979	468	-	-	-	-	-	-	-	-	-	-	-	-
06/20/08	2,205,410	3,057,429	645	-	-	-	-	-	-	-	-	-	-	-	-
06/25/08	2,213,010	3,065,029	1,520	-	-	-	-	-	-	26,600	54	721	629	4,320	<0.19
07/03/08	2,221,620	3,073,639	1,076	-	-	-	-	-	-	-	-	-	-	-	-
07/09/08	2,230,580	3,082,599	1,493	<6.6	<0.18	<0.24	<0.21	<0.45	-	6,220	103	655	188	1,040	<1.9
07/18/08	2,231,140	3,083,159	62	-	-	-	-	-	-	-	-	-	-	-	-
07/25/08	2,237,110	3,089,129	853	-	-	-	-	-	-	-	-	-	-	-	-
08/04/08	2,237,120	3,089,139	1	-	-	-	-	-	-	-	-	-	-	-	-
08/08/08	2,240,350	3,092,369	808	-	-	-	-	-	-	9,480	65	1,080	375	2,120	<0.19
08/22/08	2,249,810	3,101,829	676	-	-	-	-	-	-	-	-	-	-	-	-
08/24/08	2,255,420	3,107,439	2,805	-	-	-	-	-	-	-	-	-	-	-	-
09/04/08	2,261,960	3,113,979	595	-	-	-	-	-	-	-	-	-	-	-	-
09/11/08	2,264,120	3,116,139	309	-	-	-	-	-	-	-	-	-	-	-	-
09/18/08	2,270,870	3,122,889	964	-	-	-	-	-	-	-	-	-	-	-	-
09/24/08	2,270,960	3,122,979	15	<6.6	<0.18	<0.24	<0.21	<0.45	-	Split-sample results during EBMUD inspection & sampling					
09/26/08	2,272,540	3,124,559	790	-	-	-	-	-	-	-	-	-	-	-	-
10/03/08	2,280,060	3,132,079	1,074	-	-	-	-	-	-	-	-	-	-	-	-
10/08/08	2,286,630	3,138,649	1,314	-	-	-	-	-	-	-	-	-	-	-	-
10/16/08	2,294,110	3,146,129	935	-	-	-	-	-	-	-	-	-	-	-	-
10/28/08	2,307,750	3,159,769	1,137	-	-	-	-	-	-	8490	100	1130	308	1680	11
11/07/08	2,316,370	3,168,389	862	-	-	-	-	-	-	-	-	-	-	-	-
11/14/08	2,322,890	3,174,909	931	-	-	-	-	-	-	-	-	-	-	-	-
11/21/08	2,330,420	3,182,439	1,076	-	-	-	-	-	-	-	-	-	-	-	-
11/26/08	2,337,570	3,189,589	1,430	-	-	-	-	-	-	-	-	-	-	-	-
12/05/08	2,344,350	3,196,369	753	-	-	-	-	-	-	-	-	-	-	-	-
12/10/08	2,351,080	3,203,099	1,346	-	-	-	-	-	-	-	-	-	-	-	-
12/18/08	2,358,770	3,210,789	961	-	-	-	-	-	-	-	-	-	-	-	-
12/19/08	2,358,920	3,210,939	150	-	-	-	-	-	-	-	-	-	-	-	-
12/23/08	2,366,510	3,218,529	1,898	<6.6	<0.18	<0.24	<0.21	<0.45	-	8230	60	1730	279	1720	3.8
01/06/09	2,382,280	3,234,299	1,126	-	-	-	-	-	-	-	-	-	-	-	-
01/07/09	2,382,410	3,234,429	130	-	-	-	-	-	-	-	-	-	-	-	-
01/12/09	2,391,510	3,243,529	1,820	-	-	-	-	-	-	-	-	-	-	-	-
01/19/09	2,398,100	3,250,119	941	-	-	-	-	-	-	-	-	-	-	-	-
01/28/09	2,408,760	3,260,779	1,184	Shut down system for QWS						-	-	-	-	-	-
01/30/09	2,408,790	3,260,809	15	Restart system after QWS						-	-	-	-	-	-
02/04/09	2,415,390	3,267,409	1,320	-	-	-	-	-	-	-	-	-	-	-	-
02/11/09	2,424,020	3,276,039	1,233	-	-	-	-	-	-	-	-	-	-	-	-
02/13/09	2,424,210	3,276,229	95	System found off because of power failure, left system off for resampling of MW-4						-	-	-	-	-	-
02/24/09	2,424,210	3,276,229	-	Restart system after resampling of MW-4						-	-	-	-	-	-
03/03/09	2,424,510	3,276,529	43	-	-	-	-	-	-	-	-	-	-	-	-
03/08/09	2,425,820	3,277,839	262	-	-	-	-	-	-	-	-	-	-	-	-
03/11/09	2,426,810	3,278,829	330	-	-	-	-	-	-	-	-	-	-	-	-
03/18/09	2,427,010	3,279,029	29	Found system off. Air Compressor switch tripped						-	-	-	-	-	-
03/25/09	2,427,640	3,279,659	90	-	-	-	-	-	-	-	-	-	-	-	-
03/30/09	2,428,090	3,280,109	90	-	-	-	-	-	-	-	-	-	-	-	-
04/13/09	2,429,710	3,281,729	116	-	-	-	-	-	-	-	-	-	-	-	-
04/23/09	2,431,060	3,283,079	135	-	-	-	-	-	-	8180	49	976	299	2160	<0.19
04/27/09	2,431,770	3,283,789	178	-	-	-	-	-	-	-	-	-	-	-	-

**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 063, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT						INLET / INFLUENT					
				TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L
05/05/09	2,432,710	3,284,729	118	Shut down system for QWS						-	-	-	-	-	-
05/07/09	2,432,760	3,284,779	25	Restart system after QWS						-	-	-	-	-	-
05/12/09	2,433,180	3,285,199	84	System shut down for carbon change						-	-	-	-	-	-
05/29/09	2,433,290	3,285,309	6	System restarted						-	-	-	-	-	-

<b>WD PERMIT LIMITS:</b>	NE	5.0	5.0	5.0	5.0	NE
--------------------------	----	-----	-----	-----	-----	----

**Note:** < = less than laboratory detection level indicated  
 - = no sample / not analyzed  
 NE = Permit Limit not established

TPH is analyzed by EPA Method 8015 M  
 BTEX is analyzed by EPA Method 8021 or 8260  
 \*MTBE by 8020 / 8260

In February 2000, the total cumulative discharge amount was corrected to reflect all system maintenance and flowmeter changeouts since the startup of the system. The total number may be different from previous versions of this table.

# ***FIGURES***



RESIDENTIAL

62ND STREET

RESIDENTIAL

REMEDIA  
TION  
COMPOUND

STA #063  
BLDG

MW-5

DISPENSER  
ISLAND

B-4

MW-3

EXISTING  
JUST

B-1

MW-4

MW-2

MW-6

B

MW-1

B-2

8101  
TELEGRAPH AVE.

MW-7

COMMERCIAL

MW-8

RESIDENTIAL

TELEGRAPH AVENUE

EXPLANATION

- ⊕ GROUNDWATER MONITORING WELL
- ⊕ GROUNDWATER RECOVERY WELL
- ⊕ ABANDONED GROUNDWATER MONITORING WELL
- ⊕ SOIL BORING

61ST STREET

0 30  
APPROXIMATE SCALE  
IN FEET

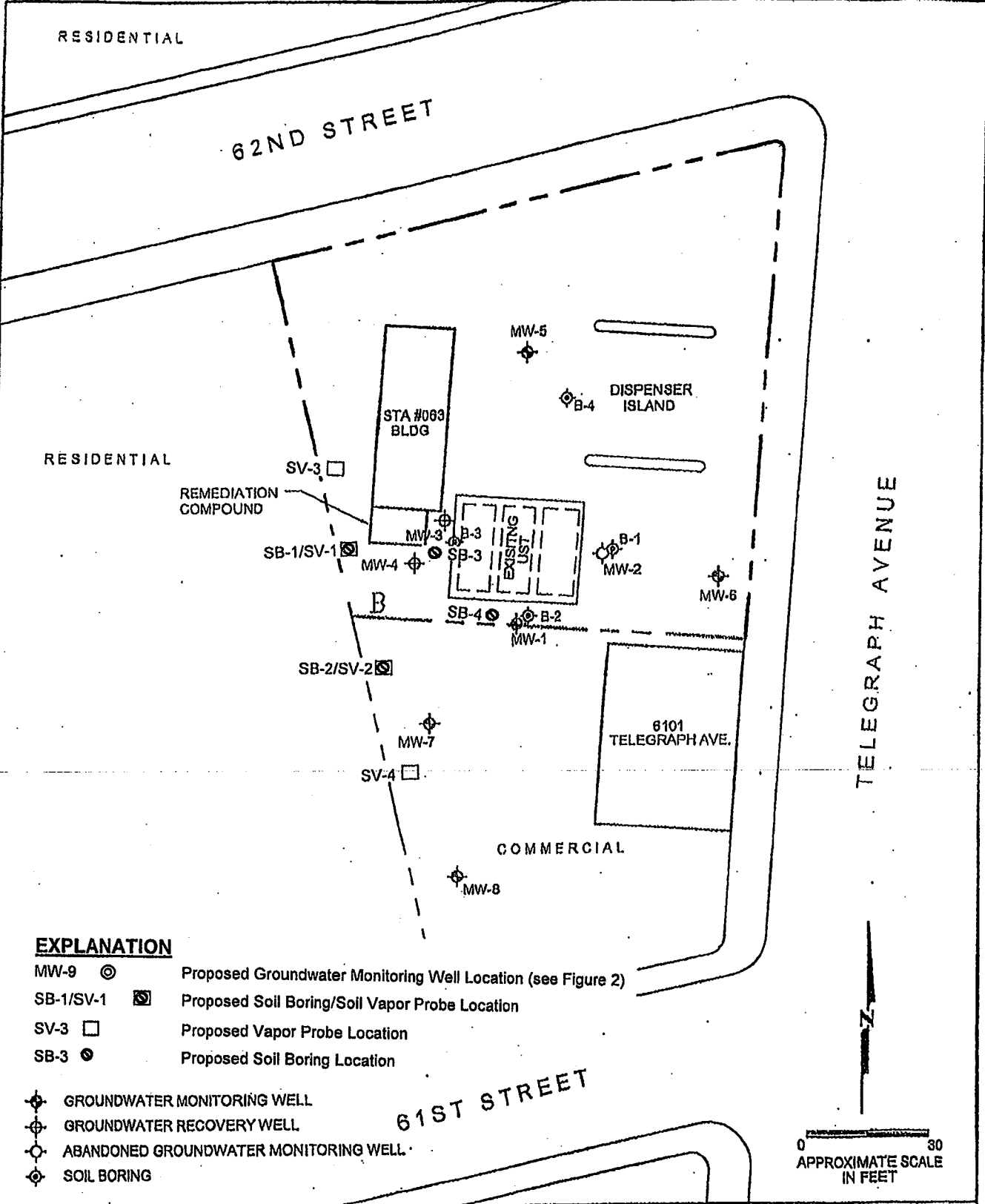


SITE PLAN

Thrifty Station No. 063  
6125 Telegraph Avenue  
Oakland, California

FIGURE:	1
SHEET:	of
REVISION NO.:	0
DATE:	03/07

PROJECT NO.



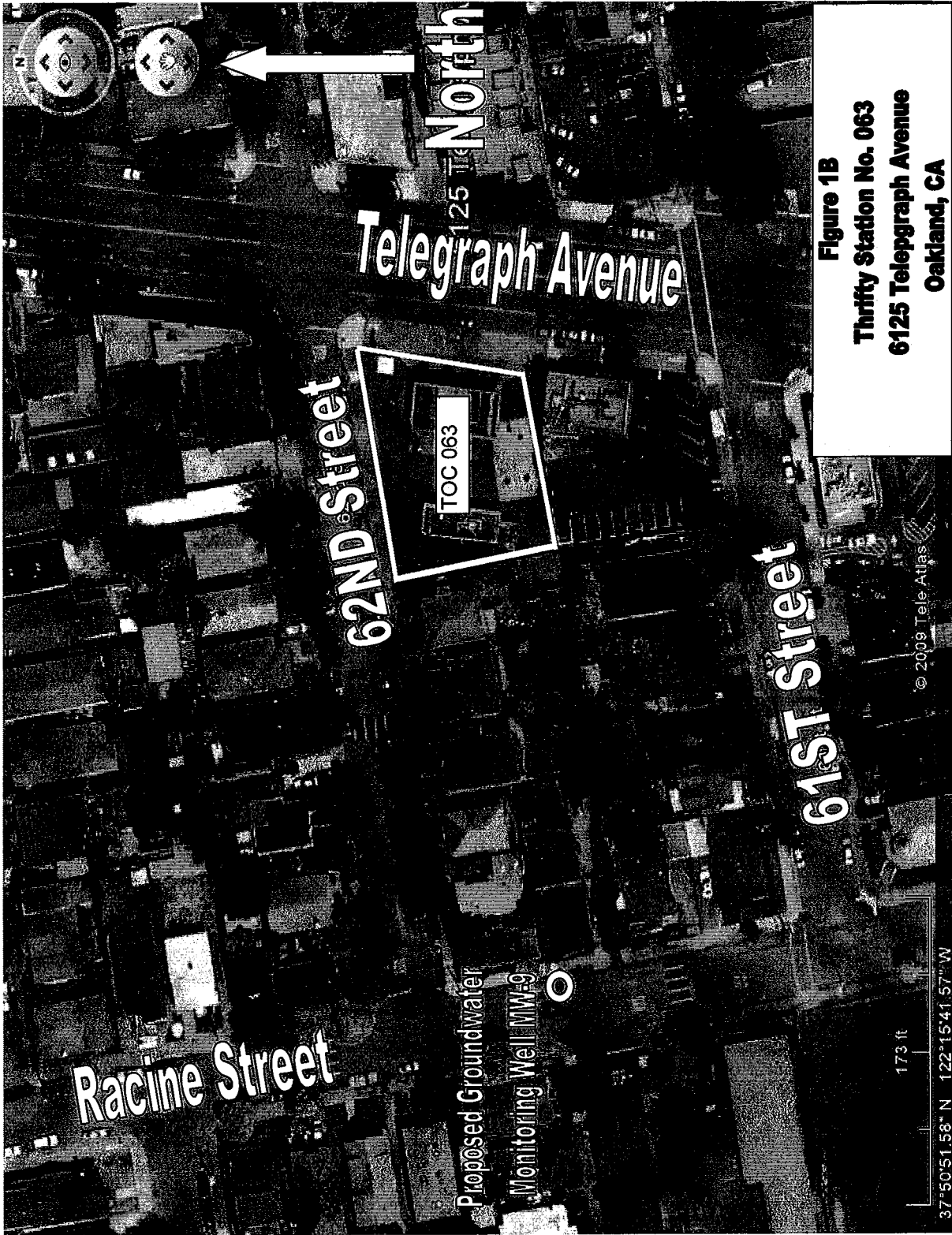
**EXPLANATION**

- MW-9 Proposed Groundwater Monitoring Well Location (see Figure 2)
- SB-1/SV-1 Proposed Soil Boring/Soil Vapor Probe Location
- SV-3 Proposed Vapor Probe Location
- SB-3 Proposed Soil Boring Location

- GROUNDWATER MONITORING WELL
- GROUNDWATER RECOVERY WELL
- ABANDONED GROUNDWATER MONITORING WELL
- SOIL BORING

Site Plan with Proposed Soil Boring and Soil Vapor Probe Locations	<p align="center"><b>SITE PLAN</b></p> <p align="center">Thrifty Station No. 063 6125 Telegraph Avenue Oakland, California</p>	FIGURE: <b>1A</b>
		SHEET: _____ of _____ REVISIONS: 0 DATE: 03/07

PROJECT NO. \_\_\_\_\_



**Figure 1B**  
**Thrifty Station No. 063**  
**6125 Telegraph Avenue**  
**Oakland, CA**

173 ft  
37°50'51.58" N 122°15'41.57" W

© 2009 Tele Atlas

RESIDENTIAL

62ND STREET

RESIDENTIAL

REMEDIATION  
COMPOUND

STA #063  
BLDG

133.68

MW-5

135.53

DISPENSER  
ISLAND

B-4

B-1

137.75

MW-2

MW-6

0.090 FT/FT

MW-4

132.35

EXISTING  
JUST

B-2

132.91

MW-1

MW-7

135.87\*

6101  
TELEGRAPH AVE.

132.38 COMMERCIAL

MW-8

133.00

135.00

RESIDENTIAL

137.00

61ST STREET

TELEGRAPH AVENUE



0 30  
APPROXIMATE SCALE  
IN FEET

EXPLANATION

- ⊕ GROUNDWATER MONITORING WELL
- ⊕ GROUNDWATER RECOVERY WELL
- ⊕ ABANDONED GROUNDWATER MONITORING WELL
- ⊕ SOIL BORING

Groundwater gauging conducted on 5-6-09  
Elevations reported in feet above mean sea level  
\* = not used to determine groundwater contour lines

Groundwater Elevation Contour Map

Thrifty Station No. 063  
6125 Telegraph Avenue  
Oakland, California

FIGURE:	2
SHEET:	of
REVISION NO.:	0
DATE:	03/07

PROJECT NO.

RESIDENTIAL

62ND STREET

RESIDENTIAL

REMEDIA  
TION  
COMPOUND

STA #063  
BLDG

MW-5

26.6

DISPENSER  
ISLAND

B-4

MW-3

MW-4

2660

B-3

MW-1

B-1

MW-2

MW-6

26.6

10,000

15,400

1,000

100

10

6101  
TELEGRAPH AVE.

COMMERCIAL

MW-8

26.6

RESIDENTIAL

TELEGRAPH AVENUE

EXPLANATION

- ⊕ GROUNDWATER MONITORING WELL
- ⊕ GROUNDWATER RECOVERY WELL
- ⊕ ABANDONED GROUNDWATER MONITORING WELL
- ⊕ SOIL BORING

61ST STREET

0 30  
APPROXIMATE SCALE  
IN FEET

FIGURE:

3

SHEET:

of

REVISION NO.:

0

DATE: 03/07

TPHg Isoconcentration Map

Thrifty Station No. 063  
6125 Telegraph Avenue  
Oakland, California

units in µg/L  
Samples collected on 5/6/09

PROJECT NO.

RESIDENTIAL

62ND STREET

RESIDENTIAL

REMEDIA  
TION  
COMPOUND

STA #063  
BLDG

LO-18

MW-5

LO-18

DISPENSER  
ISLAND

B-4

MW-3

EXISTING  
UST

B-1

LO-18

MW-2

MW-6

MW-4

B-3

MW-1  
LO-18

B-2

6101  
TELEGRAPH AVE.

LO-18 COMMERCIAL

MW-8

61ST STREET

RESIDENTIAL

TELEGRAPH AVENUE

EXPLANATION

- ⊕ GROUNDWATER MONITORING WELL
- ⊕ GROUNDWATER RECOVERY WELL
- ⊕ ABANDONED GROUNDWATER MONITORING WELL
- ⊕ SOIL BORING

0 30  
APPROXIMATE SCALE  
IN FEET



units in  $\mu\text{g/L}$   
Samples collected on 5-6-09

Benzene Isoconcentration Map

Thrifty Station No. 063  
6125 Telegraph Avenue  
Oakland, California

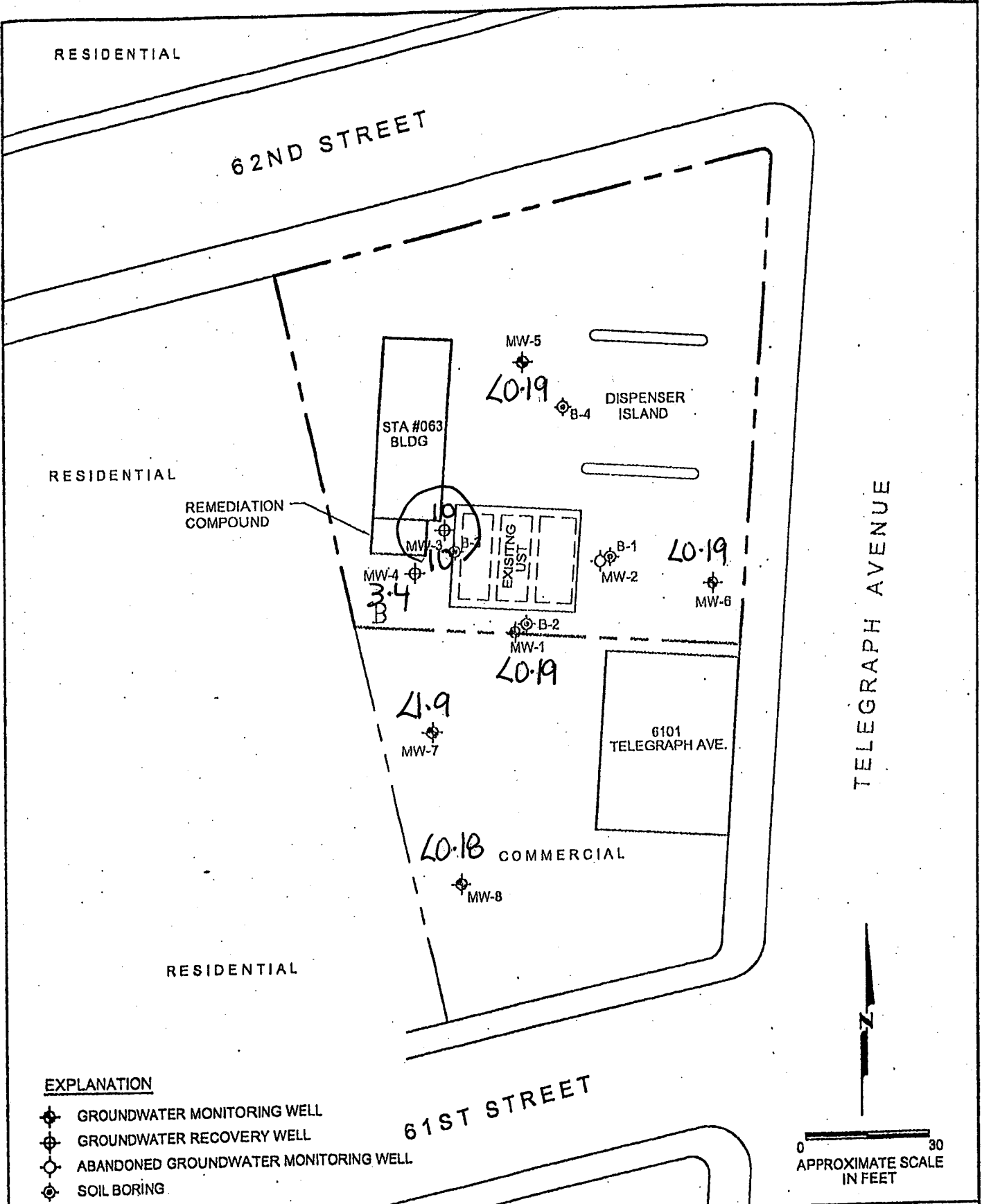
FIGURE: 4

SHEET: of

REVISION NO: 0

DATE: 03/07

PROJECT NO.



RESIDENTIAL

62ND STREET

RESIDENTIAL

REMEDIA  
 TION  
 COMPOUND

STA #063  
 BLDG

MW-5  
 20.19

DISPENSER  
 ISLAND

B-4

MW-4  
 3.4  
 B

MW-3

EXISTING  
 UST

B-1  
 MW-2

20.19

MW-6

B-2  
 MW-1  
 20.19

4.9  
 MW-7

6101  
 TELEGRAPH AVE.

20.18 COMMERCIAL

MW-8

RESIDENTIAL

61ST STREET

TELEGRAPH AVENUE



0 30  
 APPROXIMATE SCALE  
 IN FEET

PROJECT NO.

RESIDENTIAL

62ND STREET

RESIDENTIAL

REMEDIA  
TION  
COMPOUND

STA #063  
BLDG

15.2

MW-5

15.2

DISPENSER  
ISLAND

B-4

MW-3

B-3

B-3

EXISTING  
JUST

MW-4

15.2

B

B-1

MW-2

MW-6

15.2

MW-1

15.2

152.0

MW-7

6101  
TELEGRAPH AVE.

15.2

COMMERCIAL

MW-8

RESIDENTIAL

TELEGRAPH AVENUE

61ST STREET

EXPLANATION

- ⊕ GROUNDWATER MONITORING WELL
- ⊕ GROUNDWATER RECOVERY WELL
- ⊕ ABANDONED GROUNDWATER MONITORING WELL
- ⊕ SOIL BORING

0 30  
APPROXIMATE SCALE  
IN FEET

FIGURE: 6

SHEET: of

REVISION NO: 0

DATE: 03/07

TBA Isoconcentration Map

Thrifty Station No. 063  
6125 Telegraph Avenue  
Oakland, California

units in µg/L  
Samples collected on 5-6-09

PROJECT NO.



# ***APPENDIX A***



# PROJECT STATUS REPORT

SITE: THRIFTY OIL CO. #063  
 ADDRESS: 6125 TELEGRAPH AVE.  
OAKLAND, CA. 94609  
 DATE: 05-06-2009  
 PERSONNEL: SERBAN P.

WELL ID	DTP (FT)	DTW (FT)	DTB (FT)	PT (FT)	WC (FT)	DIA (IN)	PURGE (GAL)		COMMENT
							EST.	ACT.	
<i>QUARTERLY</i>									
1 MW-1		15.52	28.94		13.42	2"	6	10	
2 MW-3		15.26	28.20		12.94	6"	56	60	
3 MW-4		16.53	29.07		12.54	2"	6	10	
4 MW-5		14.09	26.23		11.33	4"	22	22	
5 MW-6		10.63	26.78		16.15	4"	32	32	
6 MW-7		12.33	17.45		5.12	2"	3	5	OFFSITE
7 MW-8		14.93	18.29		3.36	2"	2	5	OFFSITE

FREE PRODUCT REMOVED: APPROX.        GALLONS      PURGE-WATER REMOVED: APPROX. 134 GALLONS

REMARKS: - MONITORING WELLS AND TAKE WATER SAMPLES FROM 7 WELLS  
- PURGE WATER WAS TRANSFER IN HOLDING TANK

# FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: **THRIFTY OIL CO. # 063** Date: **05-06-2009**

Address: **6125 TELEGRAPH AVE, OAKLAND, CA. 94609** Well ID#: **MW-1**

Personnel: **SERBAN P.** Weather: **RAIN**

**Purging Equipment:**  
 Bailer     Diaphragm Pump     Electric submersible     Pneumatic submersible  
 Disposable Bailer     Vacuum Truck     Extraction Pump     Other

**Sampling Equipment:**  
 Disposable Bailer  
 Other

**Monitoring Eq.:** Water level instrument: **YELLOW JACKET** pH/Temp/Cond Meter: **HANNA**

Time of measurement: **8:30** Well casing dia. (in): **2** Multipliers for purge volume estimation:

Well Dia.	1"	2"	4"	6"	12"
3 Casing Vol.	0.12	0.49	1.96	4.40	17.62
Borehole Vol.	0.40	0.77	1.51	2.57	7.71

Total Well Depth (ft): **28.44** Depth To Product (ft):   
 Depth To Water (ft): **15.52** Product Thickness (ft):   
 Water Column (ft): **13.42**

Note for borehole volume, add 1/2 BH vol for each subsequent passes

Estimated Purge Volume (gal): **13.42 x 0.49 = 6**  
water column multiplier

Purge Vol Calculation:  Casing Vol.  Borehole Vol. (SD)

## PURGING DATA

Time		Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
(hh:mm)	(min)						
9:50	0	START PURGING					
9:52	2	2	72.6	5.76	1160	CLEAR	
9:54	2	2	71.4	5.75	1190	CLEAR	
9:56	2	2	71.3	5.73	1190	CLEAR	
9:58	2	2	71.6	5.77	1170	CLEAR	
10:00	2	2	71.4	5.77	1170	CLEAR	
DTW immed. after purge (ft):		<b>15.46</b>	Actual purged volume (gal):		<b>10</b>	Avg Purge Rate (gpm): <b>1</b>	

## RECOVERY CALCULATION

Method:  Total Well Depth:  $80\% \text{ Recovery} = \left[ \frac{13.42}{\text{Water Column}} \right] \times 0.20 + \left[ \frac{15.52}{\text{DTW Initial}} \right] = 12.20 \text{ ft}$

Max Drawdown (SD):  $80\% \text{ Recovery} = \left( \left[ \frac{\quad}{\text{DTW after purge}} \right] - \left[ \frac{\quad}{\text{DTW Initial}} \right] \right) \times 0.20 + \left[ \frac{\quad}{\text{DTW Initial}} \right] = \quad \text{ft}$

## SAMPLING DATA

Date: **05.06.09** Time: **13:15** am / pm

pH (if required):  D.O. (if required):  O.R.P. (if required):

Depth To Water Before Sampling (ft): **18.06** Notes:

Comments:

# FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: <b>THRIFTY OIL CO. # 063</b>		Date: <b>05-06-2009</b>																		
Address: <b>6125 TELEGRAPH AVE, OAKLAND CA 94609</b>		Well ID#: <b>MW-6</b>																		
Personnel: <b>SERBAN P.</b>		Weather: <b>RAIN</b>																		
<b>Purging Equipment:</b> <input checked="" type="checkbox"/> Bailor <input type="checkbox"/> Diaphragm Pump <input type="checkbox"/> Electric submersible <input type="checkbox"/> Pneumatic submersible <input type="checkbox"/> Disposable Bailor <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Extraction Pump <input type="checkbox"/> Other		<b>Sampling Equipment:</b> <input checked="" type="checkbox"/> Disposable Bailor <input type="checkbox"/> Other																		
<b>Monitoring Eq.:</b> Water level instrument: <b>YELLOW JACKET</b> pH/Temp/Cond Meter: <b>HANNA</b>																				
Time of measurement: <b>8:40</b> Total Well Depth (ft): <b>26.78</b> Depth To Water (ft): <b>10.63</b> Water Column (ft): <b>16.15</b>	Well casing dia. (in): <b>4</b> Depth To Product (ft): Product Thickness (ft):	<table border="1" style="font-size: small;"> <tr> <td>Well Dia.</td> <td>1"</td> <td>2"</td> <td>4"</td> <td>6"</td> <td>12"</td> </tr> <tr> <td>3 Casing Vol.</td> <td>0.12</td> <td>0.49</td> <td>1.96</td> <td>4.40</td> <td>17.62</td> </tr> <tr> <td>Borehole Vol.</td> <td>0.49</td> <td>0.77</td> <td>1.51</td> <td>2.57</td> <td>7.71</td> </tr> </table> <p><i>Note for borehole volume, add 1/2 BH vol for each subsequent passes</i></p>	Well Dia.	1"	2"	4"	6"	12"	3 Casing Vol.	0.12	0.49	1.96	4.40	17.62	Borehole Vol.	0.49	0.77	1.51	2.57	7.71
Well Dia.	1"	2"	4"	6"	12"															
3 Casing Vol.	0.12	0.49	1.96	4.40	17.62															
Borehole Vol.	0.49	0.77	1.51	2.57	7.71															
Purge Vol Calculation: <input type="checkbox"/> Casing Vol. <input type="checkbox"/> Borehole Vol. (SD)		<b>Estimated Purge Volume (gal) :</b> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <math>16.15 \times 1.96 = 32</math> </div> <small>water column      multiplier</small>																		

### PURGING DATA

Time		Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
(hh:mm)	(min)						
10:10	0	START PURGING					
10:18	8	8	71.6	8.91	1270	CLEAR	
10:26	8	8	71.4	8.86	1320	CLEAR	
10:34	8	8	71.4	8.83	1320	CLEAR	
10:42	8	8	71.5	8.81	1320	CLEAR	
DTW immed. after purge (ft): <b>10.48</b>		Actual purged volume (gal): <b>32</b>			Avg Purge Rate (gpm):		

### RECOVERY CALCULATION

Method:     Total Well Depth:    80% Recovery =  $\left[ \frac{16.15}{\text{Water Column}} \right] \times 0.20 + \left[ \frac{10.63}{\text{DTW Initial}} \right] = \underline{13.86}$  ft

Max Drawdown (SD):    80% Recovery =  $\left( \left[ \frac{\quad}{\text{DTW after purge}} \right] - \left[ \frac{\quad}{\text{DTW Initial}} \right] \right) \times 0.20 + \left[ \frac{\quad}{\text{DTW Initial}} \right] = \underline{\quad}$  ft

### SAMPLING DATA

Date: <b>05.06.09</b>	Time: <b>13:25</b>	am / pm	pH (if required):	D.O. (if required):	O.R.P. (if required):
Depth To Water Before Sampling (ft): <b>14.03</b>		Notes:			

Comments:

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# FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: **THRIFTY OIL CO. # 063** Date: **05-06-2009**

Address: **8125 TELEGRAPH AVE, OAKLAND 94609** Well ID#: **MW-5**

Personnel: **SERBAN P.** Weather: **RAIN**

**Purging Equipment:**  
 Bailer     Diaphragm Pump     Electric submersible     Pneumatic submersible  
 Disposable Bailer     Vacuum Truck     Extraction Pump     Other

**Sampling Equipment:**  
 Disposable Bailer  
 Other

**Monitoring Eq.:** Water level instrument: **YELLOW JACKET** pH/Temp/Cond Meter: **HANNA**

Time of measurement: **8:50** Well casing dia. (in)   
 Total Well Depth (ft): **26.23** Depth To Product (ft)   
 Depth To Water (ft): **14.09** Product Thickness (ft)   
 Water Column (ft): **11.33**

Multipilers for purge volume estimation:  
 Note for borehole volume, add 1/2 BH vol for each subsequent passes

Well Dia.	1"	2"	4"	6"	12"
Casing Vol.	0.12	0.49	1.96	4.40	17.62
Borehole Vol.	0.40	0.77	1.51	2.57	7.71

Estimated Purge Volume (gal) : **11.33 x 1.96 = 22**  
water column multiplier

Purge Vol Calculation:  Casing Vol.  Borehole Vol. (SD)

## PURGING DATA

Time (hh:mm)	(min)	Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
10:50	0	START PURGING					
10:56	6	6	71.6	5.81	1270	CLEAR	
11:02	6	6	71.4	5.86	1240	CLEAR	
11:08	6	6	71.3	5.83	1230	CLEAR	
11:12	4	4	71.3	5.83	1230	CLEAR	
DTW immed. after purge (ft):		<b>14.02</b>	Actual purged volume (gal):		<b>22</b>	Avg Purge Rate (gpm): <b>1</b>	

## RECOVERY CALCULATION

Method:  Total Well Depth:  $80\% \text{ Recovery} = \left[ \frac{11.33}{\text{Water Column}} \times 0.20 + \left[ \frac{14.09}{\text{DTW Initial}} \right] \right] = 16.35 \text{ ft}$

Max Drawdown (SD):  $80\% \text{ Recovery} = \left( \left[ \frac{\quad}{\text{DTW after purge}} \right] - \left[ \frac{\quad}{\text{DTW Initial}} \right] \right) \times 0.20 + \left[ \frac{\quad}{\text{DTW Initial}} \right] = \quad \text{ft}$

## SAMPLING DATA

Date: **05.06.09** Time: **13:35** am / pm  
 pH (if required):    D.O. (if required):    O.R.P. (if required):

Depth To Water Before Sampling (ft): **17.02** Notes:

Comments:



# FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: **THRIFTY OIL CO. # 063** Date: **05-06-2009**

Address: **6125 TELEGRAPH AVE, OAKLAND, 94609** Well ID#: **MW-8**

Personnel: **SERBAN P.** Weather: **RAIN**

**Purging Equipment:**  
 Bailer     Diaphragm Pump     Electric submersible     Pneumatic submersible  
 Disposable Bailer     Vacuum Truck     Extraction Pump     Other

**Monitoring Eq.:** Water level instrument: **YELLOW JACKET** pH/Temp/Cond Meter: **HANNA**

**Time of measurement:** **9:00** Well casing dia. (in): **2** Multipliers for purge volume estimation:

Well Dia	1"	2"	4"	6"	12"
Casing Vol.	0.12	0.49	1.96	4.40	17.62
Borehole Vol.	0.40	0.77	1.51	2.57	7.71

Total Well Depth (ft): **18.29** Depth To Product (ft):  Product Thickness (ft):

Depth To Water (ft): **14.93** Note for borehole volume, add 1/2 BH vol for each subsequent passes

Water Column (ft): **3.36** **Estimated Purge Volume (gal):**  $3.36 \times 0.49 = 2$

Purge Vol Calculation:  Casing Vol.  Borehole Vol. (SD) water column multiplier

## PURGING DATA

Time		Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
(hh:mm)	(min)						
11:20	0	START PURGING					
11:21	1	1	71.2	6.07	1530	CLEAR	
11:22	1	1	71.3	5.83	1550	CLEAR	
11:23	1	1	71.6	5.71	1520	CLEAR	
11:24	1	1	71.7	5.76	1520	CLEAR	
11:25	1	1	71.6	5.73	1530	CLEAR	
DTW immed. after purge (ft):		<b>14.90</b>	Actual purged volume (gal):		<b>5</b>	Avg Purge Rate (gpm): <b>1</b>	

## RECOVERY CALCULATION

Method:  Total Well Depth:  $80\% \text{ Recovery} = [3.36] \times 0.20 + [14.93] = 15.60 \text{ ft}$

Max Drawdown (SD):  $80\% \text{ Recovery} = ([ ] - [ ]) \times 0.20 + [ ] = \text{ft}$

Water Column      DTW Initial      DTW after purge      DTW Initial      DTW Initial

## SAMPLING DATA

Date: **05.06.09** Time: **13:45** am / pm

pH (if required):  D.O. (if required):  O.R.P. (if required):

Depth To Water Before Sampling (ft): **15.06** Notes:

Comments:



# FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: **THRIFTY OIL CO. # 063** Date: **05-06-2009**

Address: **6125 TELEGRAPH AVE, OAKLAND, 94609** Well ID#: **MW-3**

Personnel: **SERBAN P.** Weather: **RAIN**

**Purging Equipment:**  
 Bailer     Diaphragm Pump     Electric submersible     Pneumatic submersible  
 Disposable Bailer     Vacuum Truck     Extraction Pump     Other

**Sampling Equipment:**  
 Disposable Bailer  
 Other

**Monitoring Eq.:** Water level instrument: **YELLOW JACKET** pH/Temp/Cond Meter: **HANNA**

Time of measurement: **9:10** Well casing dia. (in): **6** Multipliers for purge volume estimation:

Well Dia	1"	2"	4"	6"	12"
Casing Vol	0.12	0.49	1.96	4.40	17.62
Borehole Vol	0.40	0.77	1.51	2.57	7.71

Total Well Depth (ft): **28.20** Depth To Product (ft):   
 Depth To Water (ft): **15.26** Product Thickness (ft):   
 Water Column (ft): **12.94**

*Note for borehole volume, add 1/2 BH vol for each subsequent passes*

Purge Vol Calculation:  Casing Vol.  Borehole Vol. (SD) **12.94 x 4.40 = 56**  
water column multiplier

## PURGING DATA

Time		Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
(hh:mm)	(min)						
11:30	0	START PURGING					
11:42	12	12	71.8	5.79	1170	CLEAR	
11:54	12	12	71.9	5.64	1190	CLEAR	
12:06	12	12	72.5	5.62	1150	CLEAR	
12:18	12	12	71.2	5.63	1160	CLEAR	
12:30	12	12	71.1	5.65	1150	CLEAR	
DTW immed. after purge (ft): <b>15.16</b>		Actual purged volume (gal): <b>60</b>		Avg Purge Rate (gpm): <b>1</b>			

## RECOVERY CALCULATION

Method:  Total Well Depth:  $80\% \text{ Recovery} = \left[ \frac{12.94}{\text{Water Column}} \right] \times 0.20 + \left[ \frac{15.26}{\text{DTW Initial}} \right] = 17.84 \text{ ft}$

Max Drawdown (SD):  $80\% \text{ Recovery} = \left( \left[ \frac{\text{DTW after purge}}{\text{DTW Initial}} \right] - \left[ \frac{\text{DTW Initial}}{\text{DTW Initial}} \right] \right) \times 0.20 + \left[ \frac{\text{DTW Initial}}{\text{DTW Initial}} \right] = \text{ft}$

## SAMPLING DATA

Date: **05-06-09** Time: **14:00** am / pm    pH (if required):    D.O. (if required):    O.R.P. (if required):

Depth To Water Before Sampling (ft): **18.00** Notes:

Comments:



# FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: **THRIFTY OIL CO. # 063** Date: **05-06-2009**

Address: **6125 TELEGRAPH AVE, OAKLAND, 94609** Well ID#: **MW-4**

Personnel: **SERBAN P.** Weather: **RAIN**

**Purging Equipment:**  
 Bailor     Diaphragm Pump     Electric submersible     Pneumatic submersible  
 Disposable Bailor     Vacuum Truck     Extraction Pump     Other

**Sampling Equipment:**  
 Disposable Bailor  
 Other

Monitoring Eq.: Water level instrument: **YELLOW JACKET** pH/Temp/Cond Meter: **HANNA**

Time of measurement:	<b>9:20</b>	Well casing dia. (in)	<b>2</b>	<b>Multipiers for purge volume estimation:</b>  <i>Note for borehole volume, add 1/2 BH vol for each subsequent passes</i>	Well Dia.	1"	2"	4"	6"	12"
Total Well Depth (ft):	<b>29.07</b>	Depth To Product (ft)			3 Casing Vol.	0.12	0.49	1.96	4.40	17.62
Depth To Water (ft):	<b>16.53</b>	Product Thickness (ft)			Borehole Vol.	0.49	0.77	1.51	2.57	7.71
Water Column (ft):	<b>12.54</b>				<b>Estimated Purge Volume (gal) :</b>					

Purge Vol Calculation:  Casing Vol.  Borehole Vol. (SD) **12.54 x 0.49 = 6**  
water column                      multiplier

## PURGING DATA

Time		Volume removed (gallons)	Temp. °F or °C	pH	Cond. µS	Turbidity	Observations	
(hh:mm)	(min)							
12:40	0	START PURGING						
12:42	2	2	71.6	5.70	1520	CLEAR		
12:44	2	2	70.3	5.73	1530	CLEAR		
12:46	2	2	71.2	5.75	1530	CLEAR		
12:48	2	2	71.4	5.76	1540	CLEAR		
12:50	2	2	71.3	5.77	1530	CLEAR		
DTW immed. after purge (ft):		<b>16.50</b>	Actual purged volume (gal):			<b>10</b>	Avg Purge Rate (gpm): <b>1</b>	

## RECOVERY CALCULATION

Method:  Total Well Depth:  $80\% \text{ Recovery} = \left[ \frac{12.54}{\text{Water Column}} \times 0.20 + \frac{16.53}{\text{DTW Initial}} \right] = 99.03 \text{ ft}$

Max Drawdown (SD):  $80\% \text{ Recovery} = \left( \left[ \frac{\quad}{\text{DTW after purge}} \right] - \left[ \frac{\quad}{\text{DTW Initial}} \right] \right) \times 0.20 + \left[ \frac{\quad}{\text{DTW Initial}} \right] = \quad \text{ft}$

## SAMPLING DATA

Date: **05.06.09** Time: **18:00** am / pm    pH (if required):    D.O. (if required):    O.R.P. (if required):

Depth To Water Before Sampling (ft): **19.00**    Notes:

Comments:





# FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: <b>THRIFTY OIL CO. # 063</b>		Date: <b>05-06-2009</b>																		
Address: <b>6125 TELEGRAPH AVE, OAKLAND, 94609</b>		Well ID#: <b>MW-7</b>																		
Personnel: <b>SERBAN P.</b>		Weather: <b>RAIN</b>																		
<b>Purging Equipment:</b> <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Diaphragm Pump <input type="checkbox"/> Electric submersible <input type="checkbox"/> Pneumatic submersible <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Extraction Pump <input type="checkbox"/> Other		<b>Sampling Equipment:</b> <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Other																		
Monitoring Eq.: Water level instrument: <b>YELLOW JACKET</b> pH/Temp/Cond Meter: <b>HANNA</b>																				
Time of measurement: <b>9:30</b>	Well casing dia. (in): <b>2</b>	<table border="1" style="font-size: small;"> <tr> <th>Well Dia.</th> <th>1"</th> <th>2"</th> <th>4"</th> <th>6"</th> <th>12"</th> </tr> <tr> <td>3 Casing Vol.</td> <td>0.12</td> <td>0.49</td> <td>1.96</td> <td>4.40</td> <td>17.62</td> </tr> <tr> <td>Borehole Vol.</td> <td>0.40</td> <td>0.77</td> <td>1.51</td> <td>2.57</td> <td>7.71</td> </tr> </table>	Well Dia.	1"	2"	4"	6"	12"	3 Casing Vol.	0.12	0.49	1.96	4.40	17.62	Borehole Vol.	0.40	0.77	1.51	2.57	7.71
Well Dia.	1"		2"	4"	6"	12"														
3 Casing Vol.	0.12		0.49	1.96	4.40	17.62														
Borehole Vol.	0.40		0.77	1.51	2.57	7.71														
Total Well Depth (ft): <b>17.45</b>	Depth To Product (ft):																			
Depth To Water (ft): <b>12.33</b>	Product Thickness (ft):																			
Water Column (ft): <b>5.12</b>	Purge Vol Calculation: <input type="checkbox"/> Casing Vol. <input type="checkbox"/> Borehole Vol. (SD)	Multipliers for purge volume estimation: <i>Note for borehole volume, add 1/2 BH vol for each subsequent passes</i> <b>Estimated Purge Volume (gal):</b> $5.12 \times 0.49 = 3$ <small>water column                      multiplier</small>																		

## PURGING DATA

Time		Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
(hh:mm)	(min)						
13:00	0	START PURGING					
13:01	1	1	71.3	5.87	1360	CLEAR	
13:02	1	1	71.6	5.64	1320	CLEAR	
13:03	1	1	71.4	5.62	1380	CLEAR	
13:04	1	1	71.2	5.62	1320	CLEAR	
13:05	1	1	71.4	5.62	1320	CLEAR	
DTW Immed. after purge (ft): <b>12.30</b>		Actual purged volume (gal): <b>5</b>			Avg Purge Rate (gpm): <b>1</b>		

## RECOVERY CALCULATION

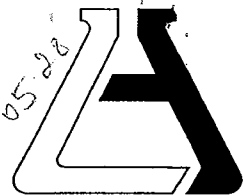
Method:  Total Well Depth:  $80\% \text{ Recovery} = [5.12] \times 0.20 + [12.33] = 13.35$  ft  
Water Column                      DTW Initial

Max Drawdown (SD):  $80\% \text{ Recovery} = ([ ] - [ ]) \times 0.20 + [ ] =$  ft  
DTW after purge                      DTW Initial                      DTW Initial

## SAMPLING DATA

Date: <b>05.06.09</b>	Time: <b>15:15</b>	am / pm	pH (if required):	D.O. (if required):	O.R.P. (if required):
Depth To Water Before Sampling (ft): <b>13.04</b>		Notes:			
Comments:					

## ***APPENDIX B***



**ASSOCIATED LABORATORIES**

806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT Thrifty Oil Company (8871)

LAB REQUEST 233984 ✓

ATTN: Jeff Suryakusuma

REPORTED 05/18/2009

13116 Imperial Hwy.

P.O. Box 2128

RECEIVED 05/08/2009

Santa Fe Springs, CA 90670

PROJECT Station #063 ✓  
6125 Telegraph Ave., Oakland

SUBMITTER Client

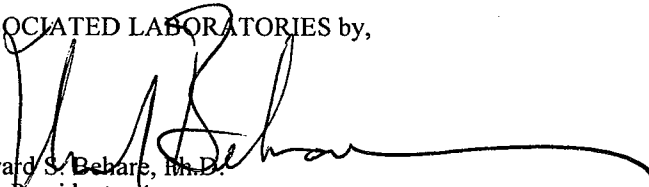
COMMENTS Global ID: T0600101366

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

<u>Order No.</u>	<u>Client Sample Identification</u>
992782	TOC # 063 MW-7
992783	TOC # 063 MW-4
992784	TOC # 063 MW-3
992785	TOC # 063 MW-8
992786	TOC # 063 MW-5
992787	TOC # 063 MW-6
992788	TOC # 063 MW-1
992789	TOC # 063 TRIP BLANK
992790	Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

  
Edward S. Behare, M.D.  
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING  
Chemical  
Microbiological  
Environmental

Order #: 992782

Client Sample ID: TOC # 063 MW-7

Matrix: WATER

Date Sampled: 05/06/2009 Time Sampled: 15:13

Analyte	Result	DF	PQL	MDL Units	Date/Analyst
<b>8260B BTEX/MTBE</b>					
Benzene	241	10.0	10.0	1.8 ug/L	05/11/09 RP
Di-isopropyl ether (DIPE)	ND	10.0	10.0	2.0 ug/L	05/11/09 RP
Ethyl benzene	342	10.0	50.0	2.1 ug/L	05/11/09 RP
Ethyl-tertbutylether (ETBE)	ND	10.0	10.0	2.3 ug/L	05/11/09 RP
Methyl-tert-butylether (MTBE)	ND	10.0	10.0	1.9 ug/L	05/11/09 RP
Tert-amylmethylether (TAME)	ND	10.0	10.0	1.9 ug/L	05/11/09 RP
Tertiary butyl alcohol (TBA)	ND	10.0	100.0	52.0 ug/L	05/11/09 RP
Toluene	1110	10.0	50.0	2.4 ug/L	05/11/09 RP
Xylenes, total	1660	10.0	50.0	4.5 ug/L	05/11/09 RP
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>
Surr1 - Dibromofluoromethane	102			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	106			%	70 - 135
Surr3 - Toluene-d8	100			%	70 - 135
Surr4 - p-Bromofluorobenzene	100			%	70 - 135
<b>8015B - Gasoline</b>					
Gasoline	15400	10.0	500.0	66.0 ug/L	05/13/09 LT
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>
p-Bromofluorobenzene (Sur)	92			%	60 - 140

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor  
 ND = Not detected below indicated MDL, J=Tra



**8260B BTEX/MTBE**

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
Benzene	8.7	1.0	1	0.18	ug/L	05/13/09 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20	ug/L	05/13/09 RP
Ethyl benzene	76	1.0	5	0.21	ug/L	05/13/09 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23	ug/L	05/13/09 RP
Methyl-tert-butylether (MTBE)	3.4	1.0	1	0.19	ug/L	05/13/09 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19	ug/L	05/13/09 RP
Tertiary butyl alcohol (TBA)	ND	1.0	10	5.2	ug/L	05/13/09 RP
Toluene	184	1.0	5	0.24	ug/L	05/13/09 RP
Xylenes, total	452	1.0	5	0.45	ug/L	05/13/09 RP

**Surrogates**

		Units	Control Limits
Surr1 - Dibromofluoromethane	108	%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	109	%	70 - 135
Surr3 - Toluene-d8	96	%	70 - 135
Surr4 - p-Bromofluorobenzene	89	%	70 - 135

**8015B - Gasoline**

Gasoline	2660	1.0	50	6.6	ug/L	05/13/09 LT
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**Surrogates**

		Units	Control Limits
p-Bromofluorobenzene (Sur)	98	%	60 - 140

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor  
 ND = Not detected below indicated MDL, J=Tra



Order #: 992784

Client Sample ID: TOC # 063 MW-3

Matrix: WATER

Date Sampled: 05/06/2009 Time Sampled: 14:00

Analyte	Result	DF	PQL	MDL Units	Date/Analyst
<b>8260B BTEX/MTBE</b>					
Benzene	ND	1.0	1	0.18 ug/L	05/13/09 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20 ug/L	05/13/09 RP
Ethyl benzene	2.7J	1.0	5	0.21 ug/L	05/13/09 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23 ug/L	05/13/09 RP
Methyl-tert-butylether (MTBE)	10	1.0	1	0.19 ug/L	05/13/09 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19 ug/L	05/13/09 RP
Tertiary butyl alcohol (TBA)	ND	1.0	10	5.2 ug/L	05/13/09 RP
Toluene	2.3J	1.0	5	0.24 ug/L	05/13/09 RP
Xylenes, total	22	1.0	5	0.45 ug/L	05/13/09 RP
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>
Surr1 - Dibromofluoromethane	109			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	111			%	70 - 135
Surr3 - Toluene-d8	100			%	70 - 135
Surr4 - p-Bromofluorobenzene	81			%	70 - 135
<b>8015B - Gasoline</b>					
Gasoline	119	1.0	50	6.6 ug/L	05/13/09 LT
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>
p-Bromofluorobenzene (Sur)	103			%	60 - 140

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor  
 ND = Not detected below indicated MDL, J=Tra



Order #: 992785

Client Sample ID: TOC # 063 MW-8

Matrix: WATER

Date Sampled: 05/06/2009 Time Sampled: 13:45

Analyte	Result	DF	PQL	MDL Units	Date/Analyst
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**8260B BTEX/MTBE**

Benzene	ND	1.0	1	0.18 ug/L	05/11/09 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20 ug/L	05/11/09 RP
Ethyl benzene	ND	1.0	5	0.21 ug/L	05/11/09 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23 ug/L	05/11/09 RP
Methyl-tert-butylether (MTBE)	ND	1.0	1	0.19 ug/L	05/11/09 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19 ug/L	05/11/09 RP
Tertiary butyl alcohol (TBA)	ND	1.0	10	5.2 ug/L	05/11/09 RP
Toluene	ND	1.0	5	0.24 ug/L	05/11/09 RP
Xylenes, total	ND	1.0	5	0.45 ug/L	05/11/09 RP

Surrogates		Units	Control Limits
Surr1 - Dibromofluoromethane	99	%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	109	%	70 - 135
Surr3 - Toluene-d8	94	%	70 - 135
Surr4 - p-Bromofluorobenzene	93	%	70 - 135

**8015B - Gasoline**

Gasoline	ND	1.0	50	6.6 ug/L	05/12/09 LT
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Surrogates		Units	Control Limits
p-Bromofluorobenzene (Sur)	103	%	60 - 140

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor  
ND = Not detected below indicated MDL, J=Tra



Order #: 992786

Client Sample ID: TOC # 063 MW-5

Matrix: WATER

Date Sampled: 05/06/2009 Time Sampled: 13:36

Analyte	Result	DF	PQL	MDL Units	Date/Analyst
<b>8260B BTEX/MTBE</b>					
Benzene	ND	1.0	1	0.18 ug/L	05/11/09 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20 ug/L	05/11/09 RP
Ethyl benzene	ND	1.0	5	0.21 ug/L	05/11/09 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23 ug/L	05/11/09 RP
Methyl-tert-butylether (MTBE)	ND	1.0	1	0.19 ug/L	05/11/09 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19 ug/L	05/11/09 RP
Tertiary butyl alcohol (TBA)	ND	1.0	10	5.2 ug/L	05/11/09 RP
Toluene	ND	1.0	5	0.24 ug/L	05/11/09 RP
Xylenes, total	ND	1.0	5	0.45 ug/L	05/11/09 RP

Surrogates		Units	Control Limits
Surr1 - Dibromofluoromethane	99	%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	109	%	70 - 135
Surr3 - Toluene-d8	96	%	70 - 135
Surr4 - p-Bromofluorobenzene	95	%	70 - 135

**8015B - Gasoline**

Gasoline	ND	1.0	50	6.6 ug/L	05/12/09 LT
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Surrogates		Units	Control Limits
p-Bromofluorobenzene (Sur)	100	%	60 - 140

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor  
 ND = Not detected below indicated MDL, J=Tra





Order #: 992787

Client Sample ID: TOC # 063 MW-6

Matrix: WATER

Date Sampled: 05/06/2009 Time Sampled: 13:20

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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**8260B BTEX/MTBE**

Benzene	ND	1.0	1	0.18	ug/L	05/11/09 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20	ug/L	05/11/09 RP
Ethyl benzene	ND	1.0	5	0.21	ug/L	05/11/09 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23	ug/L	05/11/09 RP
Methyl-tert-butylether (MTBE)	ND	1.0	1	0.19	ug/L	05/11/09 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19	ug/L	05/11/09 RP
Tertiary butyl alcohol (TBA)	ND	1.0	10	5.2	ug/L	05/11/09 RP
Toluene	ND	1.0	5	0.24	ug/L	05/11/09 RP
Xylenes, total	ND	1.0	5	0.45	ug/L	05/11/09 RP

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	99			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	108			%	70 - 135
Surr3 - Toluene-d8	95			%	70 - 135
Surr4 - p-Bromofluorobenzene	90			%	70 - 135

**8015B - Gasoline**

Gasoline	ND	1.0	50	6.6	ug/L	05/12/09 LT
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**Surrogates**

				Units	Control Limits
p-Bromofluorobenzene (Sur)	98			%	60 - 140

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor  
 ND = Not detected below indicated MDL, J=Tra



Order #: 992788

Client Sample ID: TOC # 063 MW-1

Matrix: WATER

Date Sampled: 05/06/2009 Time Sampled: 13:15

Analyte	Result	DF	PQL	MDL Units	Date/Analyst
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**8260B BTEX/MTBE**

Benzene	ND	1.0	1	0.18 ug/L	05/11/09 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20 ug/L	05/11/09 RP
Ethyl benzene	ND	1.0	5	0.21 ug/L	05/11/09 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23 ug/L	05/11/09 RP
Methyl-tert-butylether (MTBE)	ND	1.0	1	0.19 ug/L	05/11/09 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19 ug/L	05/11/09 RP
Tertiary butyl alcohol (TBA)	ND	1.0	10	5.2 ug/L	05/11/09 RP
Toluene	ND	1.0	5	0.24 ug/L	05/11/09 RP
Xylenes, total	ND	1.0	5	0.45 ug/L	05/11/09 RP

Surrogates		Units	Control Limits
Surr1 - Dibromofluoromethane	95	%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	107	%	70 - 135
Surr3 - Toluene-d8	98	%	70 - 135
Surr4 - p-Bromofluorobenzene	89	%	70 - 135

**8015B - Gasoline**

Gasoline	ND	1.0	50	6.6 ug/L	05/12/09 LT
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Surrogates		Units	Control Limits
p-Bromofluorobenzene (Sur)	97	%	60 - 140

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor  
 ND = Not detected below indicated MDL, J=Tra



Order #: 992789

Client Sample ID: TOC # 063 TRIP BLANK

Matrix: WATER

Date Sampled: 05/06/2009 Time Sampled: 00:00

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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**8260B BTEX/MTBE**

Benzene	ND	1.0	1	0.18 ug/L	05/11/09 RP
Ethyl benzene	ND	1.0	5	0.21 ug/L	05/11/09 RP
Toluene	ND	1.0	5	0.24 ug/L	05/11/09 RP
Xylenes, total	ND	1.0	5	0.45 ug/L	05/11/09 RP

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	99			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	107			%	70 - 135
Surr3 - Toluene-d8	93			%	70 - 135
Surr4 - p-Bromofluorobenzene	96			%	70 - 135

**8015B - Gasoline**

Gasoline	ND	1.0	50	6.6 ug/L	05/12/09 LT
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**Surrogates**

				Units	Control Limits
p-Bromofluorobenzene (Sur)	101			%	60 - 140

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor  
ND = Not detected below indicated MDL, J=Tra



Order #: 992790

Client Sample ID: Laboratory Method Blank

Matrix: WATER

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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**8260B BTEX/MTBE**

Benzene	ND	1.0	1	0.18	ug/L	05/11/09 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20	ug/L	05/11/09 RP
Ethyl benzene	ND	1.0	5	0.21	ug/L	05/11/09 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23	ug/L	05/11/09 RP
Methyl-tert-butylether (MTBE)	ND	1.0	1	0.19	ug/L	05/11/09 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19	ug/L	05/11/09 RP
Tertiary butyl alcohol (TBA)	ND	1.0	10	5.2	ug/L	05/11/09 RP
Toluene	ND	1.0	5	0.24	ug/L	05/11/09 RP
Xylenes, total	ND	1.0	5	0.45	ug/L	05/11/09 RP

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	98			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	108			%	70 - 135
Surr3 - Toluene-d8	93			%	70 - 135
Surr4 - p-Bromofluorobenzene	94			%	70 - 135

**8015B - Gasoline**

Gasoline	ND	1.0	50	6.6	ug/L	05/12/09 LT
----------	----	-----	----	-----	------	-------------

**Surrogates**

				Units	Control Limits
p-Bromofluorobenzene (Sur)	103			%	60 - 140

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor  
 ND = Not detected below indicated MDL, J=Tra



ASSOCIATED LABORATORIE

QA / QC EPA Methods 8260 - GCMS # 5

Sample ID: *MS/MSD Water Sample* 234142-420  
 Date Prepared: May 12, 2009  
 Date Analyzed: 5/12-5/13/09  
 Sample Matrix: Water  
 Units: µg/L

Lab ID#'s in Batch: 234125, 233785, 234118, 230823, 234142, 233519, 233390, 233984, 234131

Compound	Sample Conc.	Spike Added	Spike Res	Dup Res	Spike % Rec	Dup % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	0.00	50.0	55.30	53.90	111	108	3	22	59 - 172
MTBE	0.00	50.0	52.90	52.50	106	105	1	24	62 - 137
Benzene	0.00	50.0	48.90	45.20	98	90	8	24	62 - 137
Trichloroethene	0.00	50.0	51.00	48.90	102	98	4	21	66 - 142
Toluene	0.00	50.0	47.80	47.10	96	94	1	21	59 - 139
Chlorobenzene	0.00	50.0	49.50	49.90	99	100	1	21	60 - 133

Sample ID: *LCS*

Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	50.40	101	59 - 172
MTBE	50.0	54.40	109	62 - 137
Benzene	50.0	49.60	99	62 - 137
Trichloroethene	50.0	48.30	97	66 - 142
Toluene	50.0	48.30	97	59 - 139
Chlorobenzene	50.0	50.90	102	60 - 133

\*=Outside QC limits due to high concentration in sample

If Sample Result > 4 times Spike Added, then "NC"

*Surrogate Recovery*

Compound	MB 1 % Rec	MB 2 % Rec	MS % Rec	MSD % Rec	LCS % Rec	Limits % Rec
Dibromofluoromethane	109	106	106	109	106	70 - 135
1,2-Dichloroethane-d4	112	111	105	102	100	70 - 135
Toluene-d8	104	104	100	102	100	70 - 135
p-Bromofluorobenzene	93	90	90	87	93	70 - 135

**ASSOCIATED LABORATORIES  
LCS REPORT FORM**

QC Sample: G5-LCS&LCSD

Matrix: WATER

Prep. Date: May 13, 2009

Analysis Date 5/13/09-5/14/09

Lab ID#'s in Batch: 233962 , 233967 , 233984 , 233969 , 234056 , 234220 .

**LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT**

Reporting Units = µg/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
TPH	8015M-G	ND	500	437	448	87	90	2

*ND = Not Detected*

*LCS Result = Lab Control Sample Result*

*%REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate*

*RPD = Relative Percent Difference of LCS Spike and LCS Spike Duplicate*

<i>%REC LIMITS = 70 - 130</i>
-------------------------------

<i>RPD LIMITS = 30</i>
------------------------

**SURROGATE RECOVERY**

Sample No.	BFB
QC Limit	60-140
Method Blank	95
LCS	100
LCSD	100

*BFB = p-Bromofluorobenzene*

**ASSOCIATED LABORATORIES  
LCS REPORT FORM**

QC Sample: G5-LCS&LCSD

Matrix: WATER

Prep. Date: May 12, 2009

Analysis Date 5/12/09-5/13/09

Lab ID#'s in Batch: 233984, 234048, 234057, 234055

**LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT**

Reporting Units =  $\mu\text{g/L}$

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
TPH	8015M-G	ND	500	420	434	84	87	3

*ND = Not Detected*

*LCS Result = Lab Control Sample Result*

*%REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate*

*RPD = Relative Percent Difference of LCS Spike and LCS Spike Duplicate*

<i>%REC LIMITS = 70 - 130</i>
-------------------------------

<i>RPD LIMITS = 30</i>
------------------------

**SURROGATE RECOVERY**

Sample No.	BFB
QC Limit	60-140
Method Blank	103
LCS	108
LCSD	108

*BFB = p-Bromofluorobenzene*

ASSOCIATED LABORATORIE

QA / QC EPA Methods 8260 - GCMS # 3

Sample ID: MS/MSD Water Sample 233984-788

Date Prepared: May 11, 2009

Date Analyzed: 5/11-5/12/09

Sample Matrix: Water

Units: µg/L

Lab ID#'s in Batch: 233984

Compound	Sample Conc.	Spike Added	Spike Res	Dup Res	Spike % Rec	Dup % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	0.00	50.0	60.50	59.20	121	118	2	22	59 - 172
MTBE	0.00	50.0	47.80	45.10	96	90	6	24	62 - 137
Benzene	0.00	50.0	54.60	54.50	109	109	0	24	62 - 137
Trichloroethene	0.00	50.0	46.20	46.40	92	93	0	21	66 - 142
Toluene	0.00	50.0	54.00	53.40	108	107	1	21	59 - 139
Chlorobenzene	0.00	50.0	51.00	52.40	102	105	3	21	60 - 133

Sample ID: LCS

Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	59.50	119	59 - 172
MTBE	50.0	46.70	93	62 - 137
Benzene	50.0	56.20	112	62 - 137
Trichloroethene	50.0	47.40	95	66 - 142
Toluene	50.0	55.40	111	59 - 139
Chlorobenzene	50.0	52.90	106	60 - 133

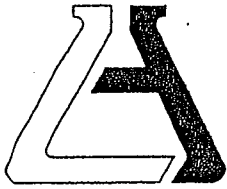
\*=Outside QC limits due to high concentration in sample

If Sample Result > 4 times Spike Added, then "NC"

Surrogate Recovery

Compound	MB 1 % Rec	MS % Rec	MSD % Rec	LCS % Rec	Limits % Rec
Dibromofluoromethane	98	102	102	105	70 - 135
1,2-Dichloroethane-d4	108	102	99	101	70 - 135
Toluene-d8	93	95	97	96	70 - 135
p-Bromofluorobenzene	94	102	101	102	70 - 135





**ASSOCIATED LABORATORIES**

806 North Batavia - Orange, California 92868 - 714-771-6900

FAX 714-538-1209

**SAMPLE ACCEPTANCE CHECKLIST**

**Section 1**  
 Client: TTC Project: \_\_\_\_\_  
 Date Received: 5/17 Sampler's Name: Yes No  
 Sample(s) received in cooler: Yes No (Skip Section 2)  
 Shipping Information: \_\_\_\_\_

**Section 2**  
 Was the cooler packed with: \_\_\_ Ice Y Ice Packs \_\_\_ Bubble Wrap \_\_\_ Styrofoam.  
 \_\_\_ Paper Y None \_\_\_ Other \_\_\_\_\_  
 Cooler or box temperature: 2.7  
 (Acceptance range is 2 to 6 Deg. C.)

Section 3	YES	NO	N/A
Was a COC received?	<u>X</u>		
Is it properly completed? (IDs, sampling date and time, signature, test)	<u>X</u>		
Were custody seals present?		<u>X</u>	
If Yes - were they intact?			<u>X</u>
Were all samples sealed in plastic bags?	<u>X</u>		
Did all samples arrive intact? If no, indicate below.	<u>X</u>		
Did all bottle labels agree with COC? (ID, dates and times)	<u>X</u>		
Were correct containers used for the tests required?	<u>X</u>		
Was a sufficient amount of sample sent for tests indicated?	<u>X</u>		
Was there headspace in VOA vials?		<u>X</u>	
Were the containers labeled with correct preservatives?			<u>X</u>
Was total residual chlorine measured (Fish Bioassay samples only)? *			<u>X</u>

\*: If the answer is no, please inform Fish Bioassay Dept. immediately.

**Section 4**  
 Explanations/Comments  
 \_\_\_\_\_  
 \_\_\_\_\_

**Section 5**  
 Was Project Manager notified of discrepancies: Y / N N/A

Completed By: [Signature] Date: 5/2/20

# Chain of Custody Record



233984

Page 1 of 1

Company: <b>THRIFTY OIL CO.</b>		Phone: <b>(562) 921-3581</b>		A.L. Job No.											
Project Manager: <b>JEFF SUDYAKUSUMA</b>		Fax: <b>(562) 921-7510</b>		Analysis Requested											
Project Name: <b>Q.W.S.</b>		Project #: <b>063</b>		Test Instructions & Comments											
Site Name and Address: <b>6125 TELEGRAPH AVE OAKLAND CA. 94609</b>				TO600102366											
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TPH4 (8015M)	BTEX (8260B)	OXYGENATES						
1	MW-7-✓	05.06.09	15:15	H <sub>2</sub> O	4-VOA	HCL	X	X	X						
2	MW-4-8		15:00				X	X	X						
3	MW-3-✓		14:00				X	X	X						
4	MW-8-✓		13:45				X	X	X						
5	MW-5-✓		13:35				X	X	X						
6	MW-6-✓		13:25				X	X	X						
7	MW-1-✓		13:15				X	X	X						
8	TRIP BLANK		00:00		2-VOA	HCL	X	X							
9															
10															
11															
12															
13															
14															
15															

<b>Sample Receipt - To Be Filled By Laboratory</b>		Relinquished by Sampler: <b>E.M.C 1.</b>		Relinquished by <b>2.</b>		Relinquished by <b>3.</b>	
Total Number of Containers	Properly Cooled Y / N / NA	Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Custody Seals Y / N / NA	Samples Intact Y / N / NA	Printed Name: <b>SERBAN P.</b>	Printed Name:	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Received in Good Condition Y / N	Samples Accepted Y / N	Date: <b>05.06.09</b> Time: <b>16:00</b>	Date:	Date:	Date:	Date:	Date:
<b>Turn Around Time</b>		Received By: <b>G.S.O. 1.</b>		Received By: <b>2.</b>		Received By: <b>3.</b>	
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Same Day	<input type="checkbox"/> 48 hrs.	Signature:	Signature:	Signature:	Signature:
		<input type="checkbox"/> 24 hrs.	<input type="checkbox"/> 72 hrs.	Printed Name:	Printed Name:	Printed Name:	Printed Name:
		Date:	Time:	Date:	Time:	Date:	Time:

# ***APPENDIX C***

THRIFTY OIL CO. SERVICE STATION #63  
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA  
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAK P.

DATE OF INSPECTION: 03-08-2009

OBSERVATIONS AND  
COMMENTS: DRAIN COMPRESSOR TANK, CHECK  
PUMP IN MW 3, REPLACE BROKEN AIR HOSE  
FOR MW-4 PUMP, CHECK OIL, (AFELT)

FLOW METER READING: 2425820

SAMPLES OBTAINED: N/A

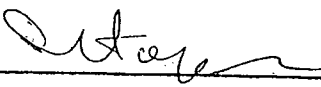
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 10.

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 2.1

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 1.2

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.7

INSPECTOR'S SIGNATURE: 

063

THRIFTY OIL CO. SERVICE STATION #63  
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA  
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAC P.

DATE OF INSPECTION: 03-11-2009

OBSERVATIONS AND COMMENTS: DRAIN COMPRESSOR TANK, CHECK  
BELT, OIL, CHECK FILTER FROM FILTER/REG-  
ULATOR UNIT, RESTART SYSTEM AGAIN,

FLOW METER READING: 2426810

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 10

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 2.1

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 1.2

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.7

INSPECTOR'S SIGNATURE: [Signature]

THRIFTY OIL CO. SERVICE STATION #63  
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA  
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBATA P.

DATE OF INSPECTION: 03-18-2009

OBSERVATIONS AND  
COMMENTS: DRAIN COMPRESSOR VALVE, CHECK OIL  
BELT, CHECK TRANSFER PUMP, CHECK HOSES  
AND DRUMS FOR LEAKS, CHECK INSIDE AND OUTSIDE  
COMPOUNDS,  
(FOUND SYSTEM OFF. AIR COMPRESSOR SWITCH TRIPPED)

FLOW METER READING: 2427010-

SAMPLES OBTAINED: N/A

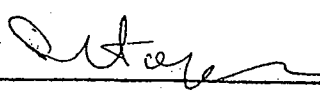
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 1.0

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 2.3

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 1.1

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.7

INSPECTOR'S SIGNATURE: 

063

THRIFTY OIL CO. SERVICE STATION #63  
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA  
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN P.

DATE OF INSPECTION: 03-25-2009

OBSERVATIONS AND  
COMMENTS: DRAIN WATER FROM COMPRESSOR  
TANK CHECK FILTER FROM FILTER/REGULATOR  
UNIT, CHECK TRANSFER PUMP,

FLOW METER READING: -2427640-

SAMPLES OBTAINED: N/A

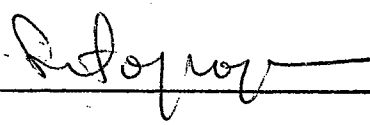
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 10

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 2.3

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 1.4

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.7

INSPECTOR'S SIGNATURE: 

063

THRIFTY OIL CO. SERVICE STATION #63  
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA  
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBATA P.

DATE OF INSPECTION: 03-30-2004

OBSERVATIONS AND  
COMMENTS: DRAIN WATER FROM COMPRESSOR TANK,  
CHECK OIL, BELT, CHECK TRANSFER PUMP,  
CHECK DRUMS AND HOSES FOR LEAKS

FLOW METER READING: -2428090-

SAMPLES OBTAINED: N/A

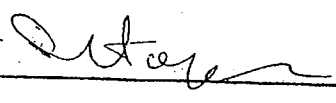
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 10

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 2.3

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 1.2

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.7

INSPECTOR'S SIGNATURE: 



THRIFTY OIL CO. SERVICE STATION #63  
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA  
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERRA P.

DATE OF INSPECTION: 04-13-2009

OBSERVATIONS AND  
COMMENTS: DRAIN WATER FROM COMPRESSOR TANK,  
CHECK BELT, OPL, CHECK TRANSFER PUMP,  
CHECK PUMP IN MW-3

FLOW METER READING: -2429710 -

SAMPLES OBTAINED: N/A

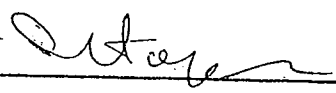
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 1.0

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 2.1

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 1.2

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.7

INSPECTOR'S SIGNATURE: 

THRIFTY OIL CO. SERVICE STATION #63  
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA  
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR:

SERBATA P.

DATE OF INSPECTION:

04-23-2009

OBSERVATIONS AND  
COMMENTS:

DRAIN COMPRESSOR TANK, CHECK TRANSFER  
PUMP, CHECK BELT, OIL, TAKE WATER SAMPLES FROM  
SYSTEM

FLOW METER READING:

2431060-

SAMPLES OBTAINED:

TAKE INT-1, INT-2, IN USE WATER SAMPLING

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER:

0.0

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER:

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT:

2.1

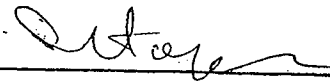
PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT:

1.3

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT:

0.7

INSPECTOR'S SIGNATURE:



063

THRIFTY OIL CO. SERVICE STATION #63  
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA  
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN P.

DATE OF INSPECTION: 04-27-2009

OBSERVATIONS AND COMMENTS: DRAIN WATER FROM COMPRESSOR

TANK, CHECK BELT, OIL, CHECK TRANSFER

PUMP, CHECK HOSES AND DRUMS FOR DAMAGE

AND LEAK

FLOW METER READING: 2431770

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 10

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 2.3

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 1.1

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.8

INSPECTOR'S SIGNATURE: [Signature]



**EARTH MANAGEMENT CO.**  
Environmental Remediation

**SYSTEM STARTUP / SHUTDOWN REPORT**

SITE:

TOC 063

ADDR:

6125 TELEGRAPH  
OAKLAND 94609

DATE:

05-05-2009

PERSON:

SEBASTH

Remediation System Types:

- AS  
  SVE  
  DPE  
  GWT  
  FPR  
  Other

System Type		Action		Hour Meter (hr)	Totalizer (gal)	Purpose / Comments
		Startup	Shutdown			
AS	Air Sparging					
SVE	Soil Vapor Extraction					
DPE	Dual-Phase Extraction					
GWT	Groundwater Treatment		X			
FPR	FF Recovery				2432710	
O	Other					

**UTILITIES:**

Electrical Meter: N/A  
 Nat. gas Meter: N/A  
 Propane Tank Level: N/A

**OTHER NOTES:**

SHUTDOWN SYSTEM FOR QW.S

**ALWAYS OBSERVE SAFETY PROCEDURES!**



# SYSTEM STARTUP / SHUTDOWN REPORT

SITE: Toe 0.63  
 ADDR: 6125 TELEGRAPH AVE  
OAKLAND, CA 94609  
 DATE: 05-07-2009  
 PERSON: SERBAN

Remediation System Type:  AS  SVE  DPE  GWT  FPR  Other

System Type		Action		Hour Meter (hrs)	Totalizer (gal)	Purpose / Comments
		Startup	Shutdown			
AS	Air Sparging					
SVE	Soil Vapor Extraction					
DPE	Dual-Phase Extraction					
GWT	Groundwater Treatment	X			2432760	
FPR	FP Recovery					
O	Other:					

UTILITIES:  
 Electrical Meter: N/A  
 Nat. gas Meter: N/A  
 Propane Tank Level: N/A

OTHER NOTES:  
RESTART SYSTEM AFTER Q.W.S.

**ALWAYS OBSERVE SAFETY PROCEDURES!**

063

THRIFTY OIL CO. SERVICE STATION #63  
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA  
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN P.

DATE OF INSPECTION: 05-12-2009

OBSERVATIONS AND  
COMMENTS:

SYSTEM SHUT DOWN FOR CARBON  
CHANGE

FLOW METER READING: -2433180-

SAMPLES OBTAINED: \_\_\_\_\_

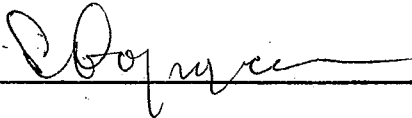
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: \_\_\_\_\_

INSPECTOR'S SIGNATURE: 

# SYSTEM STARTUP / SHUTDOWN REPORT

SITE: TOC, 063  
 ADDR: 6125 TELEGRAPH AVE  
OAKLAND, 94609  
 DATE: 05-12-2009  
 PERSON: SEPRAN

Remediation System Type:  AS  SVE  DPE  QWT  FPR  Other

System Type		Action		Hour Meter (hr)	Totalizer (gal)	Purpose / Comments
		Startup	Shutdown			
AS	Air Sparging					
SVE	Soil Vapor Extraction					
DPE	Dual-Phase Extraction					
QWT	Groundwater Treatment		X		2433180	
FPR	FF Recovery					
O	Other:					

UTILITIES:  
 Electrical Meter: N/A  
 Nat. gas Meter: N/A  
 Propane Tank Level: N/A

OTHER NOTES:  
SYSTEM WAS SHUT DOWN FOR CARBON CHANGE

**ALWAYS OBSERVE SAFETY PROCEDURES!**

THRIFTY OIL CO. SERVICE STATION #63  
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA  
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAK P.

DATE OF INSPECTION: 05-29-2009

OBSERVATIONS AND  
COMMENTS: RE-START SYSTEM AFTER CHANGE  
CARBON

FLOW METER READING: 2433290

SAMPLES OBTAINED: N/A

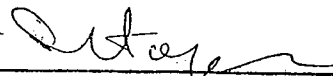
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 10

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 2.3

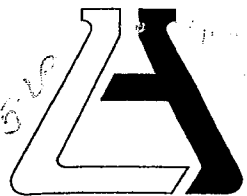
PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 1.0

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.7

INSPECTOR'S SIGNATURE: 



# ***APPENDIX D***



**ASSOCIATED LABORATORIES**  
806 North Batavia - Orange, California 92868 - 714/771-6900

**FAX 714/538-1209**

CLIENT Thrifty Oil Company (8871)  
ATTN: Jeff Suryakusuma  
13116 Imperial Hwy.  
P.O. Box 2128  
Santa Fe Springs, CA 90670

LAB REQUEST 233325 ✓

REPORTED 05/05/2009

RECEIVED 04/24/2009

PROJECT Station #063 ✓  
6125 Telegraph Ave., Oakland

SUBMITTER Client

**COMMENTS**

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

**Order No.**

989446  
989447  
989448  
989449

**Client Sample Identification**

TOC #063 INT-1  
TOC #063 INT-2  
TOC #063 INLET  
Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.  
Vice President

*NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.*

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

**TESTING & CONSULTING**  
Chemical  
Microbiological  
Environmental

Order #: 989446

Client Sample ID: TOC #063 INT-1

Matrix: WATER

Date Sampled: 04/23/2009 Time Sampled: 10:00

Analyte	Result	DF	PQL	MDL Units	Date/Analyst
<b>8260B BTEX/MTBE</b>					
Benzene	2.0	1.0	1	0.18 ug/L	04/28/09 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20 ug/L	04/28/09 RP
Ethyl benzene	3.7J	1.0	5	0.21 ug/L	04/28/09 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23 ug/L	04/28/09 RP
Methyl-tert-butylether (MTBE)	ND	1.0	1	0.19 ug/L	04/28/09 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19 ug/L	04/28/09 RP
Tertiary butyl alcohol (TBA)	ND	1.0	10	5.2 ug/L	04/28/09 RP
Toluene	21	1.0	5	0.24 ug/L	04/28/09 RP
Xylenes, total	20	1.0	5	0.45 ug/L	04/28/09 RP
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>
Surr1 - Dibromofluoromethane	92			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	101			%	70 - 135
Surr3 - Toluene-d8	100			%	70 - 135
Surr4 - p-Bromofluorobenzene	95			%	70 - 135
<b>8015B - Gasoline</b>					
Gasoline	103	1.0	50	6.6 ug/L	04/28/09 LT
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>
p-Bromofluorobenzene (Sur)	95			%	60 - 140

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor  
 ND = Not detected below indicated MDL, J=Tra



Order #: 989447

Client Sample ID: TOC #063 INT-2

Matrix: WATER

Date Sampled: 04/23/2009 Time Sampled: 10:10

Analyte	Result	DF	PQL	MDL Units	Date/Analyst
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**8260B BTEX/MTBE**

Benzene	173	1.0	1	0.18 ug/L	04/28/09 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20 ug/L	04/28/09 RP
Ethyl benzene	634	20.0	100.0	4.2 ug/L	05/01/09 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23 ug/L	04/28/09 RP
Methyl-tert-butylether (MTBE)	ND	1.0	1	0.19 ug/L	04/28/09 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19 ug/L	04/28/09 RP
Tertiary butyl alcohol (TBA)	ND	1.0	10	5.2 ug/L	04/28/09 RP
Toluene	2120	20.0	100.0	4.8 ug/L	05/01/09 RP
Xylenes, total	4270	20.0	100.0	9.0 ug/L	05/01/09 RP

**Surrogates**

		Units	Control Limits
Surr1 - Dibromofluoromethane	89	%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	93	%	70 - 135
Surr3 - Toluene-d8	107	%	70 - 135
Surr4 - p-Bromofluorobenzene	119	%	70 - 135

**8015B - Gasoline**

Gasoline	19800	40.0	2000.0	264.0 ug/L	04/27/09 LT
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**Surrogates**

		Units	Control Limits
p-Bromofluorobenzene (Sur)	93	%	60 - 140

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor  
 ND = Not detected below indicated MDL, J=Tra



Order #: 989448

Client Sample ID: TOC #063 INLET

Matrix: WATER

Date Sampled: 04/23/2009 Time Sampled: 10:2L

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8260B BTEX/MTBE</b>						
Benzene	49	1.0	1	0.18	ug/L	04/28/09 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20	ug/L	04/28/09 RP
Ethyl benzene	299	10.0	50.0	2.1	ug/L	05/01/09 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23	ug/L	04/28/09 RP
Methyl-tert-butylether (MTBE)	ND	1.0	1	0.19	ug/L	04/28/09 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19	ug/L	04/28/09 RP
Tertiary butyl alcohol (TBA)	ND	1.0	10	5.2	ug/L	04/28/09 RP
Toluene	976	10.0	50.0	2.4	ug/L	05/01/09 RP
Xylenes, total	2160	10.0	50.0	4.5	ug/L	05/01/09 RP
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>	
Surr1 - Dibromofluoromethane	87			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	98			%	70 - 135	
Surr3 - Toluene-d8	101			%	70 - 135	
Surr4 - p-Bromofluorobenzene	116			%	70 - 135	
<b>8015B - Gasoline</b>						
Gasoline	8180	20.0	1000.0	132.0	ug/L	05/04/09 LT
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>	
p-Bromofluorobenzene (Sur)	63			%	60 - 140	

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor  
 ND = Not detected below indicated MDL, J=Tra



Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8260B BTEX/MTBE</b>						
Benzene	ND	1.0	1	0.18	ug/L	04/28/09 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20	ug/L	04/28/09 RP
Ethyl benzene	ND	1.0	5	0.21	ug/L	04/28/09 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23	ug/L	04/28/09 RP
Methyl-tert-butylether (MTBE)	ND	1.0	1	0.19	ug/L	04/28/09 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19	ug/L	04/28/09 RP
Tertiary butyl alcohol (TBA)	ND	1.0	10	5.2	ug/L	04/28/09 RP
Toluene	ND	1.0	5	0.24	ug/L	04/28/09 RP
Xylenes, total	ND	1.0	5	0.45	ug/L	04/28/09 RP
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>	
Surr1 - Dibromofluoromethane	93			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	104			%	70 - 135	
Surr3 - Toluene-d8	97			%	70 - 135	
Surr4 - p-Bromofluorobenzene	98			%	70 - 135	
<b>8015B - Gasoline</b>						
Gasoline	ND	1.0	50	6.6	ug/L	04/27/09 LT
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>	
p-Bromofluorobenzene (Sur)	89			%	60 - 140	

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor  
 ND = Not detected below indicated MDL, J=Tra



**ASSOCIATED LABORATORIES  
LCS REPORT FORM**

QC Sample: G1-LCS&LCSD

Matrix: WATER

Prep. Date: April 28, 2009

Analysis Date 4/28/09-4/29/09

Lab ID#'s in Batch: 233128, 233325, 233346, 233068; 233416, 233417, 232971

**LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT**

Reporting Units = µg/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
TPH	8015M-G	ND	500	477	499	95	100	5

ND = Not Detected

LCS Result = Lab Control Sample Result

%REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate

RPD = Relative Percent Difference of LCS Spike and LCS Spike Duplicate

%REC LIMITS = 70 - 130
------------------------

RPD LIMITS = 30
-----------------

**SURROGATE RECOVERY**

Sample No.	BFB
QC Limit	60-140
Method Blank	82
LCS	106
LCSD	111

BFB = p-Bromofluorobenzene

**ASSOCIATED LABORATORIES  
LCS REPORT FORM**

QC Sample: G5-LCS&LCSD

Matrix: WATER

Prep. Date: April 27, 2009

Analysis Date 4/27/09-4/28/09

Lab ID#'s in Batch: 233182 , 233282 , 233325 , 233346 .

**LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT**

Reporting Units = µg/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
TPH	8015M-G	ND	500	406	438	81	88	8

ND = Not Detected

LCS Result = Lab Control Sample Result

%REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate

RPD = Relative Percent Difference of LCS Spike and LCS Spike Duplicate

%REC LIMITS = 70 - 130
------------------------

RPD LIMITS = 30
-----------------

**SURROGATE RECOVERY**

Sample No.	BFB
QC Limit	60-140
Method Blank	89
LCS	91
LCSD	94

BFB = p-Bromofluorobenzene



**ASSOCIATED LABORATORIES  
LCS REPORT FORM**

QC Sample: G5-LCS&LCSD

Matrix: WATER

Prep. Date: May 4, 2009

Analysis Date: 5/4/09-5/5/09

Lab ID#'s in Batch: 233565 , 233540 , 233589 , 233590 , 233591 , 233615 , 233285 , 233325 , 233664 , 233662 .

**LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT**

Reporting Units = µg/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
TPH	8015M-G	ND	500	463	491	93	98	6

ND = Not Detected

LCS Result = Lab Control Sample Result

%REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate

RPD = Relative Percent Difference of LCS Spike and LCS Spike Duplicate

%REC LIMITS = 70 - 130
------------------------

RPD LIMITS = 30
-----------------

**SURROGATE RECOVERY**

Sample No.	BFB
QC Limit	60-140
Method Blank	118
LCS	129
LCSD	126

BFB = p-Bromofluorobenzene

# ASSOCIATED LABORATORIES

## QA / QC EPA Methods 8260 GCMS # 3

Sample ID: *LCS / LCSD Water Sample*

Date Prepared: May 4, 2009

Date Analyzed: May 4, 2009

Sample Matrix: Water

Units: µg/L

Lab ID#'s in Batch: 233285, 233325, 233346, 233539

Compound	True Value	LCS Res	LCSD Res	LCS % Rec	LCSD % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	50.0	53.60	57.30	107	115	7	22	59 - 172
MTBE	50.0	44.80	48.20	90	96	7	24	62 - 137
Benzene	50.0	49.40	51.40	99	103	4	24	62 - 137
Trichloroethene	50.0	40.60	44.90	81	90	10	21	66 - 142
Toluene	50.0	47.80	52.00	96	104	8	21	59 - 139
Chlorobenzene	50.0	46.20	48.00	92	96	4	21	60 - 133

### Surrogate Recovery

Compound	MB1 % Rec			LCS % Rec	LCSD % Rec	Limits % Rec
Dibromofluoromethane	92			94	97	70 - 135
1,2-Dichloroethane-d4	103			97	98	70 - 135
Toluene-d8	99			99	97	70 - 135
p-Bromofluorobenzene	101			111	107	70 - 135

ASSOCIATED LABORATORIE

QA / QC EPA Methods 8260 - GCMS # 3

Sample ID: *MS/MSD Water Sample*      233325-446  
 Date Prepared: April 28, 2009  
 Date Analyzed: 4/28-4/29/09  
 Sample Matrix: Water  
 Units: µg/L

Lab ID#'s in Batch: 233346, 233325, 233326, 233329, 232971, 233328, 233376, 233375, 233374, 233443

Compound	Sample Conc.	Spike Added	Spike Res	Dup Res	Spike % Rec	Dup % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	0.00	50.0	55.80	56.00	112	112	0	22	59 - 172
MTBE	0.00	50.0	55.10	54.00	110	108	2	24	62 - 137
Benzene	0.00	50.0	55.00	55.20	110	110	0	24	62 - 137
Trichloroethene	0.00	50.0	46.70	45.70	93	91	2	21	66 - 142
Toluene	20.70	50.0	72.60	69.80	104	98	4	21	59 - 139
Chlorobenzene	0.00	50.0	50.30	49.20	101	98	2	21	60 - 133

Sample ID: *LCS*

Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	55.00	110	59 - 172
MTBE	50.0	53.30	107	62 - 137
Benzene	50.0	51.80	104	62 - 137
Trichloroethene	50.0	45.40	91	66 - 142
Toluene	50.0	52.30	105	59 - 139
Chlorobenzene	50.0	48.40	97	60 - 133

\*=Outside QC limits due to high concentration in sample

If Sample Result > 4 times Spike Added, then "NC"

*Surrogate Recovery*

Compound	MB 1 % Rec	MB 2 % Rec	MS % Rec	MSD % Rec	LCS % Rec	Limits % Rec
Dibromofluoromethane	93	96	95	94	96	70 - 135
1,2-Dichloroethane-d4	104	103	95	97	97	70 - 135
Toluene-d8	97	97	97	93	101	70 - 135
p-Bromofluorobenzene	98	94	110	107	107	70 - 135

ASSOCIATED LABORATORIE

QA / QC EPA Methods 8260 - GCMS # 3

Sample ID: MS/MSD Water Sample 233415-854

Date Prepared: April 29, 2009

Date Analyzed: May 1, 2009

Sample Matrix: Water

Units: µg/L

Lab ID#'s in Batch: 233325, 233326, 233415

Compound	Sample Conc.	Spike Added	Spike Res	Dup Res	Spike % Rec	Dup % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	0.00	50.0	66.00	65.50	132	131	1	22	59 - 172
MTBE	55.80	50.0	101.00	99.60	90	88	1	24	62 - 137
Benzene	0.00	50.0	59.30	58.80	119	118	1	24	62 - 137
Trichloroethene	0.00	50.0	47.70	50.40	95	101	6	21	66 - 142
Toluene	0.00	50.0	53.20	56.80	106	114	7	21	59 - 139
Chlorobenzene	0.00	50.0	52.20	54.50	104	109	4	21	60 - 133

Sample ID: LCS

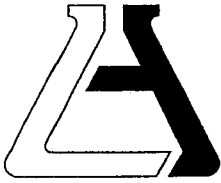
Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	58.90	118	59 - 172
MTBE	50.0	50.00	100	62 - 137
Benzene	50.0	56.30	113	62 - 137
Trichloroethene	50.0	43.10	86	66 - 142
Toluene	50.0	49.30	99	59 - 139
Chlorobenzene	50.0	47.70	95	60 - 133

\*=Outside QC limits due to high concentration in sample

If Sample Result > 4 times Spike Added, then "NC"

Surrogate Recovery

Compound	MB 1 % Rec			MS % Rec	MSD % Rec		LCS % Rec	Limits % Rec
Dibromofluoromethane	103			103	103		102	70 - 135
1,2-Dichloroethane-d4	108			102	97		105	70 - 135
Toluene-d8	92			93	97		98	70 - 135
p-Bromofluorobenzene	93			107	106		101	70 - 135



**ASSOCIATED LABORATORIES**

806 North Batavia – Orange, California 92868 – 714-771-6900

FAX 714-538-1209

**SAMPLE ACCEPTANCE CHECKLIST**

**Section 1**  
 Client: Toe Project: \_\_\_\_\_  
 Date Received: \_\_\_\_\_ Sampler's Name: Yes No  
 Sample(s) received in cooler: Yes No (Skip Section 2)  
 Shipping Information: \_\_\_\_\_

**Section 2**  
 Was the cooler packed with: Ice Ice Packs \_\_\_\_\_ Bubble Wrap \_\_\_\_\_ Styrofoam \_\_\_\_\_  
 Paper \_\_\_\_\_ None \_\_\_\_\_ Other \_\_\_\_\_  
 Cooler or box temperature: 5.4  
 (Acceptance range is 2 to 6 Deg. C.)

Section 3	YES	NO	N/A
Was a COC received?	<u>X</u>		
Is it properly completed? (IDs, sampling date and time, signature, test)	<u>X</u>		
Were custody seals present?		<u>X</u>	
If Yes – were they intact?			<u>X</u>
Were all samples sealed in plastic bags?	<u>X</u>		
Did all samples arrive intact? If no, indicate below.	<u>X</u>		
Did all bottle labels agree with COC? (ID, dates and times)	<u>X</u>		
Were correct containers used for the tests required?	<u>X</u>		
Was a sufficient amount of sample sent for tests indicated?	<u>X</u>		
Was there headspace in VOA vials?		<u>X</u>	
Were the containers labeled with correct preservatives?	<u>X</u>		
Was total residual chlorine measured (Fish Bioassay samples only)? *			<u>X</u>

\*: If the answer is no, please inform Fish Bioassay Dept. immediately.

**Section 4**  
 Explanations/Comments  
 \_\_\_\_\_  
 \_\_\_\_\_

**Section 5**  
 Was Project Manager notified of discrepancies: Y / N / N/A

Completed By: [Signature] Date: 4/24/25

233 325



**Chain of Custody Record**

Company: <b>HDRITY OIL CO.</b>		Phone: <b>662-921-3581</b>		A.L. Job No. _____		Page <b>1</b> of <b>1</b>			
Project Manager: <b>JEFF PURY AKUSUMAT</b>		Fax: <b>562(921-7360)</b>		Analysis Requested				Test Instructions & Comments	
Project Name: <b>SYSTEM WATER AMPLIHO</b>		Project #: <b>063</b>							
Site Name and Address: <b>6125 TELEGRAPH AVE OAKLAND, CA</b>		Matrix: _____		Container Number/Size: _____		Pres.: _____			
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.			
1 INT-1		04.23.09	10:00	W20	4-VOA	ITCL	X	X	X
2 INT-2		04.23.09	10:10	W20	4-VOA	ITCL	X	X	X
3 INT-3		04.23.09	10:20	W20	4-VOA	ITCL	X	X	X
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

<b>Sample Receipt - To Be Filled By Laboratory</b>		<b>Relinquished by</b>	
Total Number of Containers	Property Cooled Y/N/NA	Signature: _____	Signature: _____
Custody Seals Y/N/NA	Samples Intact Y/N/NA	Printed Name: _____	Printed Name: _____
Received in Good Condition Y/N	Samples Accepted Y/N	Date: _____	Date: _____
<b>Turn Around Time</b>		Received By: _____	Received By: _____
<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Same Day <input type="checkbox"/> 48 hrs. <input type="checkbox"/> 72 hrs.		Signature: _____	Signature: _____
		Printed Name: _____	Printed Name: _____
		Date: _____	Date: _____